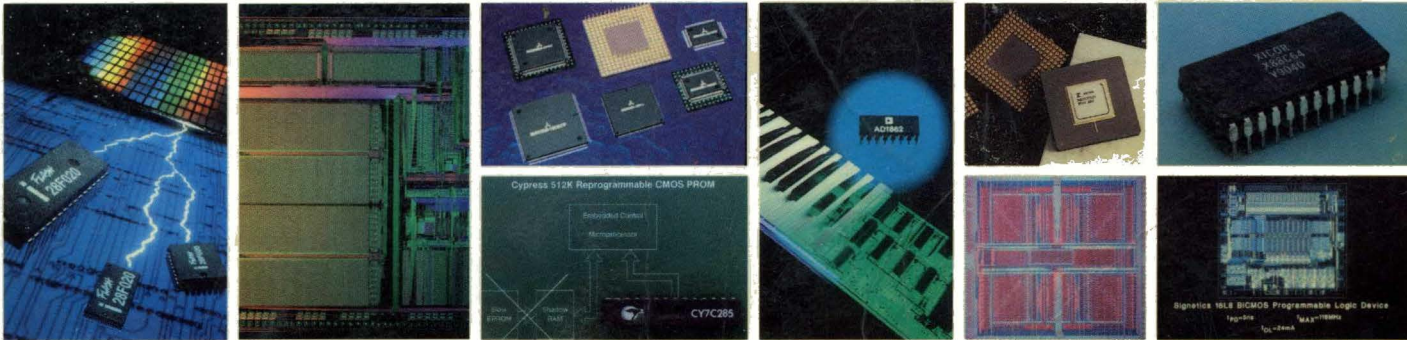


1991

IC MASTER



2. Indexes & Directories

- Abbreviations of Company Names
- Part Number Guide
- Part Number Index
- Alternate Source Directory
- Application Note Directory



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HOW TO USE THE IC MASTER

The 1991 edition of the **IC MASTER** is arranged in three volumes. Each volume serves a specific purpose to help you find the integrated circuit or related product you need. The table of contents on page 1 describes what is in each volume. The table also includes the starting page number for each advertiser.

The **IC MASTER** is a functional work. You know what you need. The **MASTER** helps you find it.

Here are typical problems.

Q. What kinds of functions does the MASTER cover?

A. Turn to page 10 in Volume One. Here is a complete list of the devices covered. The page and line numbers refer you to the exact Section in which a particular function appears.

Q. Who makes a 16384 x 1 static RAM with an access time of 70 ns or faster? What are my technology choices?

A. Pick up Volume 1. Turn to the **MEMORY** section. The first page of the section tells you where the listings of your device begin. See this under:

Static RAMs — General Purpose
Modules
Multiport
NOVRAMs
Cache RAMs

Turn to Static RAMs — General Purpose.

In the first column you see the Organization. Browse through the pages until you reach the 16384 x 1 listings. Now look through the listings until you find the access time and characteristics you need. Device numbers are shown by manufacturer. The device numbers of advertisers in the 1991 **IC MASTER** appear in bold face. The page number following the device number is where additional information may be found in Volume Two. At the extreme right you will see line numbers. These are the specific lines where a device appears.

Q. Which microprocessors are listed in the MASTER? How do I find the microprocessor I need?

A. All commercially available microprocessors are listed in the **MASTER**. Start with the **microprocessor** listing in the **Master Selection Guide Function Index** (starts on page 10). Here you will find the various kinds of products you will need listed according to function. Turn to the various pages shown and then to the advertisers' page where more detail may be available.

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INTEL	VLSI TECHNOLOGY	MITSUBISHI ELECTRONICS	ANALOG DEVICES	FUJITSU	XICOR
		CYPRESS SEMICONDUCTOR		LSI LOGIC	SIGNETICS

Q. Who makes a Dual, Low Offset Voltage Op Amp?

A. This is a **LINEAR** device. Turn to the LINEAR section in Volume One. The first page of the section shows the starting page for each type of device. Turn to the page where Dual Units appear. Look down the list for the device you need. Advertisers' devices are listed in bold face. Turn to the page in Volume Two where more information may be available.

Q. I need an IC with Music capability. Which Master Selection Guide should I use?

A. Turn to the **Master Selection Guide Function Index** starting on page 10. Look through the list until you find **Music**. The page numbers for each kind of device are shown.

Q. I plan to use a digital gate array or some other semicustom ASIC in my next project. Where do I find it in the MASTER? Who makes these things?

A. Turn to Volume One. Turn to the first page of **ASICs/Custom**. Find Gate Arrays and all of the other devices listed here. Now you can find the device you need. After you find the type of device you need, turn to the proper page and find the manufacturer. Advertisers' pages are in Volume Three.

Q. I know the digital IC I need is available. Is it available in a surface mount package?

A. There are two ways to solve this problem. If you know the manufacturer's device number, turn to the Part Number Index in Volume One. Find the basic number and the page number and line where that device is listed in the MASTER. Turn to that page. If the device is available for surface mounting, an open diamond symbol will appear. You can also turn directly to the digital section and turn to the function of the device you want. The symbol will indicate an SMD is available.

Q. I am looking for an application note on a specific device. Where can I find out if one is currently available?

A. Pick up Volume Two. Turn to the Application Note Directory. Here you will find app notes arranged by **function**. Find the function involved and turn to the page where the app note is listed.

Q. We need a device that meets MIL standards. Where do I look in the MASTER?

A. Turn to the **MILITARY** section in Volume One. The Military Device Testing table shows which manufacturers do what kinds of MIL work. Followed by the MIL-STD-1562R directories for microcircuits which contains numerous tables relating to various standards of classification. The next list is a QPL listing based on the latest Defense Electronics Supply Center (DESC) Qualified Product Listing. Additional information is often supplied by the advertisers' pages in Volume Three.

Q. I know the basic part number is 2502 and that's all I know. Where do I look?

A. That's easy in the **MASTER**. Turn to the Part Number Index. All prefixes and suffixes have been stripped away. Turn to the page where 2502 appears. All manufacturers with that kind of number appear in order along with the page and line number where the device is described.

Q. How many manufacturers claim to make a pin-for-pin and function-for-function equivalent to a Motorola MC68000?

A. Turn to the Alternate Source Directory in the back of Volume Two. Turn to Motorola's listings. Those manufacturers who claim to be equivalent are listed in order. If you have an IBM or Compatible computer with a hard drive, you can get the 1991 IC **MASTER Alternate Source Directory** on a disk. The disk is Clipper compiled from dBaseIII+ and is delivered compressed by PKARC. This is the complete list of alternate sources and allows you to add notes such as your own part numbers, prices, sources and the like. Call Hearst (516) 227-1300 and ask for Book Sales for further information.

Q. I looked in the Alternate Source Directory. The part I want an alternate source for isn't listed. Why not?

A. Are you sure you looked through the entire listing for the original manufacturer? Some devices may be listed in odd ways depending on how the **MASTER's** editors receive the information. Then there is the probability that no other manufacturer makes an exact replacement for your part. It is important for you to understand how the Alternate Source Directory is compiled. Manufacturers supply the information that **their** part is an exact replacement for **another** part. The original manufacturer does **not** tell us his part can be replaced by those listed.

Q. What do the manufacturers' part numbers mean? I have a Signetics N8X02N. What do all the letters and numbers mean?

A. Look in Volume Two for the Part Number Guide. Turn to the Signetics portion. Now you know the **N** prefix means, zero to plus seventy degrees Centigrade. The **N** suffix indicates the package style. The numbers and letters in the middle are the device type. Each manufacturer has a different code system. Understanding the systems is a great help in comparing devices.

Q. I found the device I want in the MASTER. What are the pinouts? Where can I get more details? Where can I get a price? What is the delivery time?

A. You have just defined exactly what the IC MASTER does. The MASTER is a guide to tell you which devices are available on a commercial basis. After you know this, the next step is to contact the manufacturer, a local sales office or a distributor.

Q. Where can I find the addresses and telephone numbers of manufacturers, local sales offices and distributors?

A. Pick up Volume Three. Turn to the Manufacturers and Distributors Directory. Read the first page. The information on this page will help you understand why the information in the Directory is so important. It will save time and aggravation.

Q. I just saw a new device advertised in Electronic Products magazine. It isn't listed in the MASTER. Why not? When will it be listed?

A. Preparing the information for the annual IC MASTER is a tremendous undertaking. It requires the cooperation of every single manufacturer. All of the material must be organized, cross referenced and placed in the data base. This data base must be closed off in November in order to meet the publishing date of late January. That is why some devices are not listed. They came on the market too late for the deadline. There are two updates to the annual MASTER. They are called the **IC MASTER UPDATE**. One is issued in the late Spring and the other in the early Fall. Be sure to sign up for copies when you get your new IC MASTER. If you are not sure whether or not you have requested the updates, please write to the Circulation Department at the address shown on page 2 of this MASTER. Be sure to indicate which edition of the MASTER you are using.

ABBREVIATIONS OF COMPANY NAMES

ABB HAFO	ABB HAFO Inc.	Comlinear	Comlinear Corporation	Harris	Harris Semiconductor
Acculin	Acculin, Inc.	Commodore	Commodore Semiconductor Group	HP	Hewlett-Packard-Logic Systems Division
Actel	Actel Corporation	CompDyn	Computer Dynamics Sales	HHB-Sys	Racal-Rebac
Adams-Russell	Adams-Russell Electronics Co., Inc.	CompVision	Computervision	Hil level	Hilevel Technology, Inc.
Adaptec	Adaptec	ControlData	Control Data	Hitachi	Hitachi America, Ltd.
Adv Analog	Advanced Analog	Crystal	Crystal Semiconductor Corp.	Holt	Holt, Integrated Circuits, Inc.
AdvLinear	Advanced Linear Devices	CustomArrays	Custom Arrays Corp.	Honeywell	Honeywell
AMD	Advanced Micro Devices, Inc.	Cybernetic	Cybernetic Micro Systems	Hughes	Hughes Aircraft Co.
AEG Corp	AEG Corporation-Telefunken	Cypress	Cypress Semiconductor Corp.	Hyundai	Hyundai Electronics America
Allegro Micro	Allegro Micro Systems, Inc.				
Altera	Altera Corporation				
Am Automation	American Automation	DAZIX	Daisy/Cadnetix, Inc. (DAZIX)	IBM	IBM
AnalDesTools	Analogue Design Tools, Inc.	Dallas	Dallas Semiconductor	IC DESIGNS	IC DESIGNS
AD	Analog Devices	Data I/O	Data I/O Corporation	Ikos	IKOS Systems, Inc.
AnalogSys	Analog Systems	Datel	Datel, Inc.	ILC-DDC	ILC Data Device Corp.
Analogic	Analogic Corporation	Dense-Pac	Dense-Pac Microsystems, Inc.	Inova	Inova Microelectronics Corp.
Apex	Apex Microtechnology Corporation	Devtek	Devtek Systems	IntCirSys	Integrated Circuit Systems, Inc.
AMCC	AMCC (Applied Micro Circuits Corporation)	Digital RF	Digital RF Solutions Corp.	ICSI	Integrated CMOS Systems, Inc.
AppMicroSys	Applied Microsystems Corporation	Dionics	Dionics Inc.	IDT	Integrated Device Technology, Inc.
Aptek	Aptek Microsystems	DSP Group	DSP Group, Inc.	iLSi	Integrated Logic Systems Inc.
Aspen	Aspen Semiconductor Corp.			ISSI	Integrated Silicon Solution Inc.
AT&T	AT&T Microelectronics, 52AL330240	ECI Semi	ECI Semiconductor	Intel	Intel Corporation
ATMEL	ATMEL Corporation	EdsunLabs	Edsun Laboratories, Inc.	Intergraph	Intergraph
Avasem	Avasem Corporation	EG&G-Reticon	EG&G Reticon Corporation	ICT	International CMOS Technology
		Elantec	Elantec, Inc.	IMI	International Microcircuits, Inc.
		EDI	Electronic Designs Inc.	IMP	International Microelectronic Products
Benchmark	Benchmark	Ericsson	Ericsson Components	Interpoint	Interpoint Corporation
BinaryTech	Binary Technology, Inc.	Exar	Exar Corporation	Intronics	Intronics, Inc.
Bipolar	Bipolar Integrated Technology	EXEL	EXEL Microelectronics, Inc.	IXYS	IXYS Corporation
Brooktree	Brooktree Corporation				
Burr-Brown	Burr-Brown Corporation	Force	Force Computers, Inc.	Kontron	Kontron Electronics, Inc.
		Fujitsu	Fujitsu Microelectronics, Inc.	Krueger	Krueger Company
		FutureNet	FutureNet		
Cadac	CADAC Inc.			Lambda	Lambda Semiconductors
Cadence	Cadence Design Systems, Inc.	Galil	Galil Motion Control	Lansdale	Lansdale Semiconductor
CaseTech	Case Technology	Gazelle	Gazelle Microcircuits, Inc.	Lattice	Lattice Semiconductor Corp.
Catalyst Rsch	Catalyst Research	Genum	Genum Corporation	Lin Int Sys	Linear Integrated Systems
Catalyst Semi	Catalyst Semiconductor	GenRad	GenRad Inc.	LinearTech	Linear Technology Corporation
Cermetek	Cermetek Microelectronics, Inc.	GET Eng	GET Engineering Corp.	LitMach	Little Machines Inc.
Cherry Semi	Cherry Semiconductor Corporation	GigaBit	GigaBit Logic	LogicDev	Logic Devices Inc.
Chips&Tech	Chips and Technologies, Incorporated	GoldStar	GoldStar Technology, Inc.	LSI	Logical Solutions Technology Inc.
Cirrus	Cirrus Logic, Inc.	Gould AMI	Gould AMI	LSI Comp	LSI Computer Systems, Inc.
CMD Micro	California Micro Devices Corporation	Greenwich	Greenwich Instruments USA	LSI Logic	LSI Logic Corporation

Macrochip	Macrochip Research	PLX Tech	PLX Technology, Inc.	Tangent	Tangent Systems Corporation
Marconi	Marconi Circuit Technology	Power Integ	Power Integrations, Inc.	Technitrol	Technitrol, Inc.
Maxim	Maxim Integrated Products	Proximity	Proximity Technology Inc.	Tektronix	Tektronix, Inc.
MCE	MCE Semiconductor			TeledyneS	Teledyne Semiconductor
Mentor	Mentor Graphics Corporation	Qualcomm	Qualcomm Incorporated	Teltone	Teltone Corporation
MetaSoft	Meta-Software, Inc.			Teradyne	Teradyne, EDA Inc.
Micrel	Micrel	RadstoneTech	Radstone Technology Corp.	TI	Texas Instruments, Inc.
MicroLinear	Micro Linear	Ramtron	Ramtron Corporation	Thaler	Thaler Corp
MicroNet	Micro Networks Company	Raytheon	Raytheon Company	ThirdDomain	Third Domain, Inc.
MicroPwr	Micro Power Systems, Inc.	Ricoh	Ricoh Corp.	Toko	Toko America Inc.
MICRO-LINK	Micro-Link Products	Rockwell	Rockwell International	Toshiba	Toshiba America Electronic Components, Inc.
Micro-Rel	Micro-Rel	ROHM	ROHM Corporation	TranSwitch	TranSwitch Corporation
MicroSys	MICRO/SYS			TriQuint	Tri Quint Semiconductor
Microchip	Microchip Technology, Inc.	S-MOS	S-MOS Systems, Inc.	TRWLSI	TRWLSI Products Inc.
Microcosm	Microcosm Inc.	Samsung	Samsung Semiconductor, Inc.	Ultra Analog	Ultra Analog, Inc.
MicronTech	Micron Technology	Sanyo	Sanyo Semiconductor Corporation	UMC	Unicorn Microelectronics Corp.
Micropac	Micropac Industries, Inc.	Saratoga	Saratoga Semiconductor	United	United Silicon Structures, Inc.
Microsim	MicroSim Corporation	SBE	SBE, Inc.	UTMC	United Technologies Microelectronics Center
Mikros	Mikros Systems Corp.	SeattleSi	Seattle Silicon Corporation	Unitrode	Unitrode Integrated Circuits Corp.
Miller	Miller Technology Inc.	SEEQ	SEEQ Technology, Incorporated	Universal	Universal Semiconductor Inc.
Mitel	Mitel Semiconductor	Seiko Instr	Seiko Instruments USA, Inc.		
Mitsubishi	Mitsubishi Electronics America, Inc.	SGS-Thomson	SGS-THOMSON Microelectronics, Inc.	Vadem	Vadem
MonSys	Monolithic Systems Corporation	Sharp	Sharp Electronics Corporation	Valid	Valid Logic Systems
Mosaid	Mosaid Inc.	Siemens	Siemens Components, Inc.	Vanguard Semi	Vanguard Semiconductor
Mosel	Mosel	Sierra	Sierra Semiconductor Corporation	ViewLogic	Viewlogic Systems Inc.
Motorola	Motorola Semiconductor Products	Signal Proc	Signal Processing Technologies	Vitellic	Vitellic
MX-COM	MX-COM, Inc.	Signetics	Signetics Company	Vitesse	Vitesse Semiconductor Corp.
		SiCompilers	Silicon Compiler Systems	VLSI Tech	VLSI Technology Inc. (VLSI)
National	National Semiconductor Corporation	SiliconG	Silicon General Semiconductors	Votrax	Votrax
NCM	NCM Corporation	SiliconSys	Silicon Systems Inc.	VTC	VTC Inc.
NCR	NCR Corporation	Siliconix	Siliconix Inc.		
NEC	NEC Electronics Inc.	SilvarLisco	Silvar-Lisco	Waferscale	Waferscale Integration Inc.
Newbridge	Newbridge Microsystems	Simtek	Simtek Corporation	Weitek	Weitek Corporation
Nexel	Nexel Corporation	Simucad	SimuCad	WDC	The Western Design Center, Inc.
NJR	NJR Corporation	Simulog	Simulog	Western	Western Digital Corporation
NMB	NMB Technologies	SingleBoard	Single Board Solutions, Inc.	White Tech	White Technology, Inc.
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OnChip Sys	OnChip Systems, Inc.	Sony	Sony Corporation of America	Xilinx	Xilinx Corp.
OEI	Optical Electronics Inc.	Sophia	Sophia Systems		
OrCAD	OrCAD	SpaceResearch	Space Research Technology, Inc.	Yamaha	Yamaha Systems Technology
Orion	Orion Instruments, Inc.	Spancom	Spancom Corporation		
		Stac	Stac Electronics	ZAX	Zax Corp.
Panasonic	Panasonic Industrial Company/Electronic Components Division	SMC	Standard Microsystems Corporation	Zendex	Zendex Corporation
Paradigm	Paradigm Technology, Inc.	STEL	Stanford Telecommunications Inc.	Ziatech	Ziatech Corporation
PCAD	Cadam Inc.	STC	STC Semiconductors	Zilog	Zilog, Inc.
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		Synergy	Synergy Semiconductor Corporation		

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PART NUMBER GUIDE

Each IC Manufacturer has his own special method of identifying products, usually through a system of logos, device number prefixes and suffixes. This Part Number Guide is arranged alphabetically by manufacturer and describes each company's part number system. JAN nomenclature is also covered.

Manufacturer Device Identification	Part Number Prefix	Suffix	Example
ACTEL 		Package PG Ceramic Pin Grid Array Temperature Range C Commercial 0°C to 70°C I Industrial -40°C to 85°C M Military -55°C to 125°C B 883B	Prefix Device Suffix A 1280 PG 176 C Die Revision (Future) Speed Bin (Future) Package Number of Pins Application
ADVANCED ANALOG 		Temperature Range J 0°C to 70°C K 0°C to 70°C S -55°C to 125°C T -55°C to 125°C	Prefix Device Suffix DAC 390 XD/B Temperature Range Military Screening
ADVANCED LINEAR DEVICES  ADVANCED LINEAR DEVICES, INC.	ALD	Package P PDIP C Size-Brazed Ceramic Z Dice in Waffle Pack L Leadless Chip Carrier S Small Outline M TO Metal Can Number of Pins A 8 H 28 B 14 I 36 C 16 J 40 D 18 K 44 E 20 L 48 F 22 M 64 G 24 N 68	Prefix Device Suffix ALD 555 P A Type Device Number Package
ADVANCED MICRO DEVICES 	Functional Group 21 MOS Memory 25 MSI 26 Computer Interface 27 Bipolar Memory & EPROM 28 MOS Memory 29 Bipolar Microprocessor 57/74 Same as 25 60 Analog, bipolar 61 Analog, bipolar 66 Analog, bipolar 79 Telecommunications 80 MOS Microprocessor 81 MOS and Bipolar Peripherals 82 MOS and Bipolar Peripherals 90 MOS 91 MOS RAM 92 MOS 93 Bipolar Logic, Memory 94 MOS 95 MOS Peripherals 1004 ECL Memory 104 ECL Memory PAL Program Logic 98 EEPROM 99 CMOS Memory	Package P Plastic DIP D Ceramic DIP F Flatpack G Pin Grid Array H Metal Can J Plastic Leaded Chip Carrier L Ceramic Leadless Chip Carrier Temperature Range C Commercial (0 to +70°C) I Industrial (-40 to +85°C) E Ext'd. Commercial (-55 to +125°C) L Limited Military (-55 to +125°C) M Military (-55 to 125°C)	Prefix Device Suffix AM25 S 05 D M Functional Group Type Device Number Package Temperature Range

Note: Alternate source devices typically follow original manufacturer's part number and marking system.

Type	
L	Low Power
S	Schottky
LS	Low Power Schottky
(Blank)	Standard

Manufacturer Device Identification	Part Number	Example
ADVANCED MICRO DEVICES (continued)	PAL/HAL—Family PAL Programmable Array Logic HAL Hard Array Logic	Prefix PAL
	Output Type H Active High L Active Low C Complementary R Registered X Exclusive or Registered A Arithmetic Registered	Device 14 L 4 M J
	Temperature Range C Commercial M Military	Suffix 883B
	Package Type J Ceramic Dual-In-Line N Plastic Dual-In-Line	Family Number of Array Inputs Output Type Number of Outputs Temperature Range Package Type HI-REL Screening Level
	Screening Level 883B MIL-STD-883, Method 5004 and 5005, Level B 883C MIL-STD-883, Method 5004 and Level C	
	Interface Temperature Range 74 Commercial 54 Military	Prefix SN
	Family S Schottky LS Low Power Schottky	Device 54 LS 373 J
	Package Type J Ceramic Dual-In-Line (600 Mil Wide) JS Ceramic Dual-In-Line (300 Mil Wide) N Plastic Dual-In-Line (600 Mil Wide) NS Plastic Dual-In-Line (300 Mil Wide) D Side Brazed Ceramic Dual-In-Line F Flat Pack L Leadless T Inverted "D" Package	Suffix 883B
		Standard Prefix Temperature Range Family Package Type HI-REL Screening Level
FIFOs Arithmetic	Package Type J Ceramic In-Line N Plastic Dual-In-Line	Prefix 67
	Temperature Range 67 Commercial 57 Military C CMOS	Device 401
		Suffix N
		Temperature Range Device Number Package Type
ECL All ECL Products are for commercial temperature range only Family 10KH 10KH Technology	J Ceramic	MC
		10H
		131
		Prefix Family Device Number
PROMs-ROMs Character Generator-Logic Temperature Range 6 Commercial 5 Military	Screening Level See previous page	Prefix 5
	Family -1 Schottky Process (PROMs) -2 Improved Performance Over -1	Device 3 41-I J
	Package Type See Interface	Suffix 883B
	Screening Level See previous page	Temperature Range Product Family Package Type HI-REL Screening Level
	Product 0 Character Generator O.C. 1 Character Generator T.S. 2 Read Only Memory (ROM) 3 Programmable Read Only Memory (PROM) 7 LSI Logic Product	

Manufacturer Device Identification	Part Number		Example
	Prefix	Suffix	
ADVANCED MICRO DEVICES (continued)	High Performance PROMs	No. of Outputs	Prefix
	Temperature Range	4 4 Bit	Device
	6 Commercial	8 8 Bit	Suffix
	5 Military		
	Product	Output/Pin Out Designator	
	3 Programmable Read Only Memory (PROM)	0 Open Collector	
		1 Three State	
		3 Two State	
	Family	Performance	
	S Schottky	None Standard	
	LS Low Power Schottky	A Enhanced	
	RA Registered	Package Type	
	DA Diagnostic	See Interface	
	Memory Size	Screening Level	
	0 256 Bit	See Previous Page	
	1 1024 Bit		
	2 2048 Bit		
	4 4096 Bit		
	8 8192 Bit		
	16 16384 Bit		
	32 32768 Bit		
			Prefix 5
			Device 3 S 2 4 0 A J
			Suffix 883B
			Temperature Range
			Product
			Family
			Memory Size
			Number of Outputs
			Output/Pin Out Designation
			Performance
			Package
			HI-REL Screening Level

**ALLEGRO
MICROSYSTEMS**

Family	Package
UC CMOS/Complex Arrays	A Plastic DIP
UD Power Drivers	B Plastic DIP with Heat Sink Tabs
UG Hall Effect Circuits	C Chip
UL Linear Circuits	CW Probed Wafer
UM Module or Assembly	D 3-Pin Metal Can
	E Leadless Chip Carrier
	H Hermetic DIP
	J 14-Pin Hermetic Flat Pack
	L Plastic SOIC
	M 8-Pin Plastic DIP
	R Ceramic DIP
	S 4-Pin SIP
	T 3-Pin SIP
	U Thin 3-Pin SIP
	V Flange Mount MO-097
	W 12-Pin SIP
	Y TO-92 Transistor
	Z 5-Lead TO-220

Prefix	Device	Suffix
UL N	2111	A
Family		
Temperature		
Package		



Family	Package
UH Peripheral Power/Display Drivers	C Hermetic Power
	D Hermetic DIP
	K Chip
	P Plastic DIP

Prefix	Device
UH P	400
Family	
Package	

A Allegro Microsystems

Temperature Range
C Commercial (0°C to 70°C)
S Standard (-20°C to 85°C)
E Ext'd. autm./indl. (-40°C to 125°C)
K Ext'd. indl./mil. (-40°C to 125°C)
M Military (-55°C to 125°C)
V Special (i.e., wafer probed at 25°C only)

Package
A Plastic, dual in-line
AS Plastic, dual in-line w/ heat spreading slug
B Plastic, dual in-line semi-tab
C Unpackaged chip
CW Probed wafer
D Hermetic, metal can
EA Plastic, leaded chip carrier, one semi-tab
EB Plastic, leaded chip carrier, two semi-tabs
EK Hermetic, leadless chip carrier
EP Plastic, leaded chip carrier
H Hermetic, metal-sealed co-fired ceramic dual in-line

Prefix	Device	Suffix
A	8958	S EA F-1
Temperature Range		
Package		
Instructions		

IC MASTER

Manufacturer Device Identification	Part Number		Example
	Prefix	Suffix	
ALLEGRO MICROSYSTEMS (continued)		HH Hermetic, metal-sealed co-fired ceramic, 3-lead	
	L	Plastic, SOIC	
	LB	Plastic, wide-body SOIC power tab	
	LL	Plastic, SOT-89, long-lead version	
	LT	Plastic, SOT-89	
	LW	Plastic, wide-body SOIC	
	M	Plastic, 8-pin mini-DIP	
	R	Hermetic, glass-sealed ceramic dual in-line	
	T	Plastic, 3-lead mini-SIP	
	U	Plastic, 3-lead thin mini-SIP	
	UA	Plastic, short 3-lead thin mini-SIP	
	V	Hermetic, metal flange mount (MO-097AA)	
	W	Plastic, 12-lead single in-line power tab	
	X	Special	
	Z	Plastic, 5-lead single in-line power tab (TO-220)	
	ZH	Z Package with formed leads for horizontal mount	
	ZV	Z Package with formed leads for vertical mount	

ALTERA	Family	Package	Prefix	Device	Suffix
	EP Altera General Purpose Logic Family (Erasable/Programmable)	D Windowed ceramic dual in-line (CerDIP)	EP	600	D M 883B
	EPS SAM Product Family	P One time programmable plastic dual in-line (Plastic DIP)	Family Package Temperature Range Military Processing Speed		
	EPB Micro Channel Family	J Windowed ceramic J-leaded chip carrier (JLCC)			
	EPM MAX Product Family	L One time programmable plastic J-leaded chip carrier (PLCC)			
		G Windowed ceramic pin-grid array (PGA)			
		S Plastic small outline IC (SOIC)			
		Q Plastic Quad Flat Package (PQFP)			
		Speed			
		Military Processing			
		883B Processed to MIL-STD-883, current revision			
		B Fully compliant with deviation to MIL-STD-883, current revision (Consult Altera on specific deviations)			
		5962 DESC Standard Military Drawing (SMD)			
		Temperature Range			
		C Commercial (0°C to 70°C)			
		I Industrial (-40°C to 85°C)			
		M Military (-55°C to 125°C)			
		General Information			
		A Second Generation			
		DI Dielectrically Isolated			
		Z Operation on ±12V			
		Temperature Range/Performance (In order of increasing parametric performance)			
		I,J,K,L,M 0°C to 70°C			
		A,B,C -25°C or -40°C to 85°C			
		S,T,U -55°C to 125°C			
		Package			
		D Side-Brazed Dual-In-Line Ceramic			
		Monolithic and Hybrid ICs			
		Prefix			
		AD XXXX			
		Device			
		Ayz			
		General Information			
		Temperature			
		Package			

ANALOG
DEVICES



AD Analog Devices
HA Hybrid A/D
HD Hybrid D/A

General Information
A Second Generation
DI Dielectrically Isolated
Z Operation on ±12V
Temperature Range/Performance (In order of increasing parametric performance)
I,J,K,L,M 0°C to 70°C
A,B,C -25°C or -40°C to 85°C
S,T,U -55°C to 125°C
Package
D Side-Brazed Dual-In-Line Ceramic

Monolithic and Hybrid ICs
Prefix Device Suffix
AD XXXX Ayz
General Information
Temperature
Package

Manufacturer Device Identification	Part Number		Example
	Prefix	Suffix	
ANALOG DEVICES (continued)	Package		Video Hybrid Products Prefix Device Suffix XXX YYZZ W M B Resolution ———— Speed ———— Functional or Option ———— Package ———— Military ————
	E	Leadless Chip Carrier	
	F	Flat-Pack	
	G	Pin Grid Array	
	H	Round Hermetic Metal Can	
	M	Metal Hermetic Dual-In-Line	
	N	Plastic Molded Dual-In-Line	
	P	Plastic Leaded Chip Carrier (PLCC)	
	Q	Cerdip	
	R	Small Outline Plastic (SOIC)	
	V	Pin-Stake	
	W	Ceramic/Glass Dual-In-Line, Non-Hermetic	
	Y	Single In-Line	
	Z	Ceramic Leaded Chip Carrier	

Precision Monolithics Devices:

Description	Package	Prefix	Device	Suffix
ADC Analog-to-Digital Converter	H 6 lead TO-78	DAC	08	BI E Q/883
AMP Instrumentation Amplifier	J 8 lead TO-99			
BUF Buffer (Voltage Follower)	K 10 lead TO-100			
CMP Comparator	P Epoxy B DIP			
DAC Digital-to-Analog Converter	PC Plastic Leaded Chip Carrier			
JAN Mil-M-38510 Slash Sheet	Q 16 lead Ceramic DIP			
LIU Serial Data Line Interface Unit	R 20 lead Ceramic DIP			
MAT Matched Transistors	RC 20 Position LCC			
MUX Multiplexer	S Small Outline Package			
OP Operational Amplifier	T 28 lead Ceramic DIP			
PKD Peak Detector	TC 28 Position LCC			
PM PMI Second Source Product	V 24 lead Ceramic DIP			
REF Voltage Reference	X 18 lead Ceramic DIP			
RPT PCM Line Repeater	Y 14 lead Ceramic DIP			
SMP Sample/Hold Amplifier	Z 8 lead Ceramic DIP			
SW Analog Switch				
SSM Audio Products				

**ANALOG
SYSTEMS**

Family	Package	Prefix	Device	Suffix
M Analog Systems Monolithic Product	D Ceramic DIP	MA	332	C P
A Operational Amplifier	H Metal Can			
D Power Driver	P Plastic DIP			
K Comparator	T Power Package with Heat Sink Tab			
Z Current Booster				
	Temperature Range			
	C Commercial 0°C to 70°C			
	I Industrial -25°C to 85°C			
	M Military -55°C to 125°C			

ATMEL

AT Atmel

Temperature Range	Prefix	Device	Suffix
C Commercial (0°C to 70°C)	AT	XXXXX	X X X X
I Industrial (-40°C to 85°C)			
M Military (-55°C to 125°C)			
Package			
P Plastic DIP			
D Ceramic DIP			
J PLCC J Lead Chip Carrier			
K J Lead Ceramic Carrier			
L Leadless Chip Carrier			
F Flatpack			
G Ceramic DIP, One-Time Programmable			
M Ceramic Module			
N Leadless Chip Carrier, One-Time Programmable			
S SOIC			
T SOIC			
U PGA			

Manufacturer Device Identification		Part Number		Example	
		Prefix	Suffix		
AT&T 	Digital Signal Processors	Operating System		Prefix	Device
	Development Tools	Media		Suffix	
	Tool Type			WE	DSP
	SL Software Library	T 1600 DPL Magnetic Tape		32C	SL
	AL Application Library	C 4" x 6" Data Cartridge		-	MSDOS
	CC C Language Compiler	F 5 1/4" Floppy Disk		-	F
	DS Hardware Development System	D 3 1/2" Floppy Dis			
	CB Host Interface Cable				
	BD Plug-In-Board				
	SK Starter Kit				
Digital Signal Processors		Package		WE	DSP
Family		C Hermetic Ceramic DIP		32C	-
32 DSP32		G Hermetic Ceramic Rectangular PGA		F	33
32C DSP32C		R Hermetic Ceramic Square PGA		AL	-
16 DSP16		PR Plastic Square PGA		-	080
16A DSP16A		M Plastic Leaded Chip Carrier (PLCC)			
		F Plastic Quad Flat Pack (PQFP)			
		ROM ID			
		— ROMless Device			
		AL ROM coded with Application Library			
		XX Customer Specific ROM code			
		Instruction Cycle Time			
		250 250 ns			
		200 200 ns			
		160 160 ns			
		100 100 ns			
		080 80 ns			
		075 75 ns			
		055 55 ns			
		033 33 ns			
		025 25 ns			
		Special			
		Blank STD Specification			
		V 3.3 V Operation			
		M Military 883 Spec.			
Linear, Digital and High-Voltage ICs		Package		Prefix	Device
Class		A Wafer		1	2
B Building Blocks/Transistor Array		B 8-Pin DIP		3456	7 89
D Digital		C 16-Pin DIP			
H Hybrid		D 18-Pin DIP			
L Linear		E 20-Pin DIP			
U Microwave		F 24-Pin DIP			
Technology		G 28-Pin DIP			
B CBIC		H 32-Pin DIP			
C CMOS		J 40-Pin DIP			
G Gallium Arsenide		K 16-Pin SOJ			
H High Voltage		L 20-Pin SOJ			
J MiIM		M 28-Pin SOJ			
S SBC		N Reversed			
		P 44-Pin PLCC			
		R 68-Pin PLCC			
		S 8-Pin PLCC			
		T 6-Pin DIP			
		U Unassigned			
		W 16-Pin SONB			
		X Special Package			
		Y 20-Pin SOG			
		AA Thinned Wafer			
		AB 6-Pin Gull Wing			
		AC 8-Pin Gull Wing			
		AD 44-Pin Ceramic Chip Carrier			
		AE 16-Pin SOG			
		AF 14-Pin SONB			
		AG 32-Pin Ceramic Chip Carrier			
		AH 28-Pin SOTB			
		AJ 28-Pin SOG			
		AK 24-Pin Ceramic Chip Carrier			
		AL 28-Pin Ceramic Chip Carrier			
		AM 3-Lead Plastic			
		AN 48-Pin Ceramic Chip Carrier			
		AP 14-Pin DIP			
		AT Tab-Bonded Chip			

Manufacturer Device Identification	Part Number		Suffix	Example
	Prefix			
AT&T (continued)	MOS T	Communication ICs Telecommunications	Generation A Second B Third, etc.	Prefix T Device 7000A Suffix 1 P C
		Package B Nonhermetic, Ceramic DIP C Hermetic DIP D Cerdip E Small Outline F Plastic Quad Flat Pack G Dual-Cavity Ceramic DIP J Nonhermetic Leadless Chip Carrier L Hermetic Ceramic Leaded Chip Carrier M Plastic Leaded Chip Carrier N Nonhermetic Ceramic Pin Array S Plastic Pin Array T Plastic Leaded Chip Carrier U Unhermetic Ceramic Leaded Chip Carrier W Chip in Water Form		Generation Processing/Speed Package Temperature
		Temperature Range C 0°C to 70°C E 0°C to 85°C M Military L -40°C to 85°C		
AVASEM	AV	Avasem	Temperature Range M Military (-55°C to 125°C) E Extended (-40°C to 85°C) I Industrial (-20°C to 85°C) C Commercial (0°C to 70°C)	Prefix AV Device 3677 65 Suffix C Q 44
		Package N 300 mil Plastic DIP P 600 mil Plastic DIP C 300 mil CERDIP J 600 mil CERDIP Q Plastic Quad Pak (PLCC) F Plastic Flat Pak (QFP) L Ceramic Leadless Chip Carrier (LCC) S 150 mil Small Outline (SOIC) W 300 mil Small Outline (SOIC)		Electrical Grade Temperature Range Package Pin Count
BENCHMARK	BQ	Benchmark	Package P Plastic DIP PN Plastic DIP Narrow S SOIC SN SOIC Narrow Q Quad PLCC Mx Modules (x refers to mod. pack. size/drawing)	Prefix BQ Device 1001 Suffix Q -70
		Speed 30, 40, 50, 70...200 or blank		Package Speed
		Temperature Range blank Commercial N Industrial		
BIPOLAR INTEGRATED TECHNOLOGY	B Interface Family 2 TTL 3 ECL 10KH	Product Type 0 Integer 1 Floating Point 2 Storage	Package/Screening Blank Standard Heatsink Attached S No Heatsink Attached B Standard Heatsink Attached with Burn-In E No Heatsink Attached with Burn-in	Prefix B X X Device XXX Suffix X
				Interface Family Product Type Packaging/Screening



BIT_K

Manufacturer Device Identification	Prefix	Part Number	Suffix	Example
BROOKTREE Brooktree®	Family		Package	Prefix Device Suffix
	100-199 D/A Converters		C Ceramic DIP	Bt 100 K C XXX
	200-299 A/D Converters		P Plastic DIP	Family ————
	400-449 Peripherals		L Leadless chip carrier	Temperature Range and Grade ————
	450-499 RAMDACs		G Pin grid array	Package ————
	600-699 ATE		F Flat package	Speed/Grade ————
			PJ PLCC	
			CJ Cerquad	
			Temperature Range and Grade	
			J High grade	
			K Middle grade 0°C to 70°C	
			L Low grade	
			A High grade	
			B Middle grade -25°C to +85°C	
			C Low grade	
			R High grade	
			S Middle grade -55°C to +125°C	
			T Low grade	
BURR-BROWN BURR-BROWN® BB	General Information		Package	Prefix Device Suffix
	A Improved Performance		M Metal Can, Hermetic	ADC 803 X X X X
	L Latched		L Leadless Chip carrier	General Information ————
	Z ±12V supply		P Molded Plastic	Temperature Range ————
	Temperature		H Ceramic, Hermetic	Package ————
	J, K, L 0°C to +70°C		G General Ceramic	Screening ————
	A, B, C -25°C to +85°C		D Small Outline	
	R, S, T, V -55°C to +125°C		U Die	
			N PLCC	
			Screening	
			Q Enhanced Reliability	
			QM Enhanced Reliability, Military Visual	
	Temperature Range		Package	Prefix Device Suffix
	H, J, K, L 0°C to 70°C		M Metal Can, Hermetic	OPA 111 X X X
	A, B, C -25°C to +85°C		P Plastic	Temperature Range ————
	R, S, T, V -55°C to +125°C		G Ceramic	Package ————
			U Small Outline	Screening ————
			D Die	
			N PLCC	
			Screening	
			Q Enhanced Reliability	
			QM Enhanced Reliability, Military Visual	
	Temperature Range		Package	Amplifiers/Multipliers ADC's/VFC's:
	V -55°C to +125°C		M Metal	Prefix Device Suffix
	U -25°C to + 85°C		L Chip Carrier	OPA 105 X M /XXX
	W -55°C to 125°C			Temperature Range ————
			HiRel Designation	Package ————
			Mil 883/B	Screening ————
	Temperature Range		HiRel Designation	DAC's:
	V -55°C to +125°C		/MIL., /883	Prefix Device Suffix
	U -25°C to 85°C			DAC 87 X-XXX-X/XXX
	Input Coding			Range °C ————
	CBI			Input Coding ————
	COB			Output ————
	Output			HiRel Designation ————
	V Voltage			
	I Current			

Manufacturer Device Identification	Part Number Prefix	Suffix	Example
CALIFORNIA MICRO DEVICES MICROCIRCUITS DIVISION	Description C Special G Standard	Temperature Range None 0°C to +70°C I -40°C to +85°C	Prefix Device Suffix G 65SCXX APL12
	Package P Plastic C Ceramic D Cerdip E Leaded Chip Carrier L Leadless Chip Carrier		Description _____ Version _____ Package _____ Temperature Range _____ Speed/Power Variation _____
CATALYST SEMICONDUCTOR 	CAT	Parameter A Advanced Device or Special Assg. H High Endurance L Low Power V Special Voltage Package COB Chip on Board C Sidebrazed D Cerdip E LCC J S.O. (JEDEC) K S.O. (EIAJ) N PLCC P Plastic DIP Temperature Range - Commercial (0°C to 70°C) I Industrial (-40°C to 85°C) M Military (-55°C to 125°C) Speed -20 200 ns	Prefix Device Suffix CAT 28C64 A P I -20
			Parameter _____ Package _____ Temperature Range _____ Speed or Program No. _____
CHERRY SEMICONDUCTOR 	CS Cherry Semiconductor	Package N Plastic DIP J Ceramic DIP V Multiwatt Vertical VH Multiwatt Horizontal FN PLCC D SO Narrow DW SO Wide T TO 220 Z TO 92	Prefix Device Suffix CS 122 D 14
			Package _____ No. of Pins _____
CIRRUS LOGIC 	CL Cirrus Logic GD Graphics, Display CD Communications, Data SH Storage, Hard Disk	Package P Plastic Leaded Chip Carrier Q Quad Flat Pack Performance 10 10 MHz Temperature C Commercial	Prefix Device Suffix CL-SH 360 -10 P C-A
			Performance _____ Package _____ Temperature Range _____
CRYSTAL SEMICONDUCTOR  	CS Crystal Semiconductor Family 3 Data Acquisition Support Circuits 5 A/D Converters 6 Telecommunications 7 Signal Conditioner 8 Data Communications	Temperature Signal Conditioning/Communication - 0°C to 70°C I -40°C to 85°C M -55°C to 125°C Data Acquisition JKL 0°C to 70°C ABC -40°C to 85°C STU -55°C to 125°C Package P Plastic DIP C Ceramic Sidebrazed D CERDIP L Plastic Leaded Chip Carrier, J Lead U Unpackaged Die S SOIC E Ceramic LCC J J Lead Ceramic Chip Carrier G Gullwing Ceramic Chip Carrier	Prefix Device Suffix CS L XXXX T P N H/R
			Family _____ Temperature _____ Package _____ Electrical or Speed _____ Special Handling _____ Revision _____

Manufacturer Device Identification	Part Number		Example	
	Prefix	Suffix		
CYBERNETIC MICRO SYSTEMS 	CY	Chip	no suffix NMOS, Commercial C CMOS/ML Military 883B	Prefix
	CYP	IC programmer		Device
	CYB	Development board		Suffix
	CYS	Interface software		
				CV IC Data Acquisition C Military
				600 IC Data Acquisition C Military
				C IC Data Acquisition C Military
				ML IC Data Acquisition C Military



Processing	Device	Suffix
B Hi Rel		
Temperature Range		
C Commercial (0 to 70°)		
I Industrial (-40°C to 85°C)		
M Military (-55°C to 125°C)		
Package		
B Plastic Pin Grid Array		
D CERDIP		
F Flatpack		
G Pin Grid Array		
H Windowed Hermetic LCC		
J PLCC		
K CERPAK		
L LCC		
P Plastic		
Q Windowed LCC		
R Windowed PGA		
S SOIC		
T Windowed CERPAK		
V SOJ		
W Windowed CERDIP		
X Dice		
HD Hermetic DIP		
HV Hermetic Vertical DIP		
PF Plastic Flat SIP		
PS Plastic SIP		
PZ Plastic ZIP		



Package		Prefix	Device	Suffix
Q	Quad	DS	1225	AB -150
S	SOIC			
K	Application Kit			
Voltage Range				
AB	5V $\pm$ 5%			
AD	5V $\pm$ 10%			
Y	5V $\pm$ 10%			
Temperature Range		DS	5000	32- 12
Blank	0°C to 70°C			
IND	-40°C to 85°C			
N	-40°C to 85°C			
		DS	1231	- 20
		DS	1000	- 500
		DS	1260	- 250

Manufacturer Device Identification	Part Number		Example
Prefix	Suffix		
DATTEL	Family	Package—Monolithic	Prefix Device Suffix
	ADC A/D Converters	1 14 Pin DIP	AM 490 2 A
	ADS Sampling A/D Converters	2 TO-99	
	AM Amplifiers		Package _____
	DAC D/A Converters	Seal—Hybrid	Selection _____
	DAS Data Acquisition System	G Epoxy	
FLJ, FLT	Filters	M Hermetic	
MV, MX	Multiplexer		DAC HZ12B G C
SHM	Sample-Hold	Temperature	Seal _____
VF	Voltage to Freq. Converters	C 0°C to 70°C	Temperature _____
VR	Voltage Reference	M -55°C to 125°C	
VI	Voltage Inverter		

DENSE-PAC MICROSYSTEMS, INC.

DP Type	Package	Temperature/Screening
S SRAM	G LCC	C 0°C to 70°C
D DRAM	* Vendor Specification	I -40°C to 85°C plus Burn-In
E EEPROM	V Versapac	M -55°C to 125°C
V NOVRAM	P Plastic Module	B -55°C to 125°C
O VIDEORAM		MIL Processed
Z Dual Ported RAM		
F FIFO		

Dense-Pac Microsystems, Inc.

Prefix	Device	Suffix
DP S	92256	G -85M
Type _____		
Package _____		
Speed _____		
Temperature/Screening _____		

Semicustom-Versapac	Prefix	Device	Suffix
	M0 M1 M2 M3		
	0 0 0 0 4 1 7 1		V-M
LCC Code _____			
Speed Code _____			
Versapac _____			
Temperature/Screening _____			

EG & G RETICON

Type	P	Plastic
A Area	C Cerdip	
L Linear	B Sidebrazed	
O Circular	L Leadless Hermetic	
C Evaluation Board	S PLCC	
	D Dice	
Family	W Water	
D Delay Lines	E Epoxy	
M Modem Filter		
F Switched Capacitor Filter		
U Universal Active Filter		
T Transversal Filter		
C Board Level Product		



Analog Devices	Prefix	Device	Suffix
	R M	5604	A N P -011
Reticon (always R) _____			
Family _____			
Version _____			
Response Characteristics, usually N _____			
Package _____			
Test Specs _____			

Image Sensors	Prefix	Device	Suffix
	R L	1234	C D E -567
Reticon _____			
Type _____			
Number of Elements _____			
Series, e.g., A,C,H _____			
Aperture Width or other series modifications _____			
Window Configuration _____			
Test Specs, e.g., standard, selected, etc. _____			

Manufacturer Device Identification	Prefix	Part Number	Suffix	Example
ELANTEC	EHA Harris Alternate Source ELH National Alternate Source EL Proprietary EP PNP Array EN NPN Array		Package G TO-8 metal can H TO-99 metal can J Ceramic DIP K TO-3 metal can L Leadless chip carrier M SO-Package N Plastic DIP T TO-220 metal can Die Tested in wafer pack Performance A Enhanced Temperature Range C -25°C to 85°C None -55°C to 125°C Screening -8 Military /E+ High-reliability commercial /883B MIL-STD-883 Class B, Revision C processing	Prefix Device Suffix EL 2006 A C G/E+ Performance ——— Temperature Range ——— Package ——— Reliability Program ———



Original Numbering System (Products Introduced Before 1/87)		Original System (prior to 1/87)	
Family	Technology	Prefix	Device Suffix
4 DRAM	C CMOS, 4T	EDH	8 C 10 LP J M
5 EEPROM	HC High Speed CMOS	Prefix	———
6 μPAK	CL Full CMOS, 6T	Product Group	———
7 UVEPROM	N Nibble Mode (DRAM)	Technology	———
8 SRAM		Speed	———
Word Width	Speed	Power (8Kx8 family only)	———
1 1 bit wide, etc.	70 70 ns	Packaging	———
Word Depth	10 100 ns	Temperature Range.	———
01 1K	Power (8Kx8 family only)		
32 32K	Blank Standard Power		
128 128K	LP Low Power		
	Package		
	C Ceramic LCC on ceramic substrate		
	P Plastic CC on ceramic substrate		
	J Ceramic LCC		
	K Ceramic sidebraced		
	Temperature Range		
	C Commercial		
	I Industrial		
	M Military		
	Screening		
	Blank Commercial		
	HR High Reliability		

New Numbering System (Products Introduced After 1/87)		New System (after 1/87)	
Family	Technology	Prefix	Device Suffix
4 DRAM	B Bipolar	EDI	8 M C 100 C B
5 EEPROM	N NMOS	Prefix	———
6 μPAK	C CMOS, 4T STD Power	Product Group	———
7 UVEPROM	P CMOS, 4T Low Power	Product Type	———
8 SRAM	H CMOS, 6T STD Power	Technology	———
9 Special	L CMOS, 6T Low Power	Speed	———
Product Type	Speed	Packaging	———
Blank Monolithic	20 20 ns	Temperature Range	———
M Module (Ceramic)	200 200 ns		
F Module (FR4)	Package		
Word Width	C Monolithic/plastic DIP		
1 1 bit wide	P Monolithic/ceramic DIP		
8 8 bits wide	D Cerdip (600 mil)		
Word Depth	T Thin DIP (400 mil)		
	L Leadless chip carrier		

Manufacturer Device Identification	Part Number		
	Prefix	Suffix	Example
ELECTRONIC DESIGNS INCORPORATED (continued)	01	1K	J Ceramic leaded chip carrier
	32	32K	Y Plastic leaded chip carrier
	128	128K	G PGA (Pin and grid array)
	1M	1M	F Flat Pack
			U Die
			S SIP
			Z Vertical DIP
			W SOIC
			Q Skinny DIP (300 mil) Ceramic
			R Skinny DIP (300 mil) Plastic
		Temperature Range	
		C Commercial	
		I Industrial	
		B Military	

New Numbering System—Monolithics
(Products Introduced After 9/1/89)

Product Group	Technology
8 SRAM	C CMOS, 4T STD Power
9 Special/Custom	P CMOS, 4T Low Power
	H CMOS, 6T STD Power
	L CMOS, 6T Low Power
Word Width	Speed
1 1 bit wide	20 20 ns
8 8 bits wide	200 200 ns
Word Depth	Package
01 1K	C Sidebrazed DIP 600 mils wide
32 32K	D Cerdip, 600 mils wide
128 128K	E Cerdip, 300 mils wide
1M 1MEG	F Flatpack
	K Cerdip, 400 mils wide
	L LCC
	N CSQJ
	Q Sidebrazed DIP, 300 mils wide
	T Sidebrazed DIP, 400 mils wide
	V Sidebrazed DIP, 900 mils wide
	Temperature Range
	C Commercial
	I Industrial
	M Military
	B Military, MIL STD 883C, Class B

New System (after 9/1/89)
Prefix Device Suffix

EDI	8	8	128	P	100	E	B
Prefix							
Product Group							
Word Width							
Word Depth							
Technology							
Monolithic Die Revision							
Speed							
Package							
Temperature Range							

New Numbering System—Modules
(Products Introduced After 9/1/89)

Product Group	Technology
8 SRAM	C CMOS, 4T STD Power
9 Special/Custom	P CMOS, 4T Low Power
	H CMOS, 8T STD Power
	L CMOS, 8T Low Power
Product Type	Speed
M Ceramic Substrate	20 20 ns
F FR4 Substrate	200 200 ns
Word Width	RAM Component Package
1 1 bit wide	A PLCC
8 8 bits wide	B VSOP
	C LCC
Word Depth	M SOJ
01 1K	N CSQJ
32 32K	P SOIC
128 128K	
1M 1MEG	Module Pin Configuration
	3 DIP, 300 mil centers
	4 DIP, 400 mil centers
	6 or — DIP, 600 mil centers
	9 DIP, 900 mil centers
	S SIP
	Z ZIP
	Temperature Range
	C Commercial
	I Industrial
	M Military
	B Military, MIL STD 883C, Class B

New System (after 9/1/89)
Prefix Device Suffix

EDI	8	M	4	257	C	35	L	4	B
Product Group									
Product Type									
Word Width									
Word Depth									
Technology									
Speed									
RAM Component Package									
Modular Pin Configuration									
Temperature Range									

IC MASTER

Manufacturer		Part Number		Example		
Device Identification		Prefix	Suffix	Prefix	Device	Suffix
EXAR		XR Exar	Grade C Commercial M Military Ceramic package and -55°C to 125°C () The absence of C or M Indicates a Commercial Part with Tighter Specs	XR	567	C P
			Package D Dice P Plastic N Ceramic	Grade		
				Package		

EXEL		Exel Designator. All parts start with XL.	Package C Cerdip D Plastic Leaded CC L Ceramic Leadless CC P Plastic DIP P3 Skinny DIP (0.3") S Side Braze Cermaic DIP U Unpackaged (Die)	Prefix	Device	Suffix
		Temperature Range S 0°C to +70°C E -40°C to +85°C A -40°C to +105°C M -55°C to +125°C	Speed* Usually in nanoseconds for memories. See Data Sheet.	XL T	NNNNP	-SSS/FFFF
Basic Part Number Memory Products start with either 2 or 4. Logic Devices start with 7. 'C' in the middle of the Part Number indicates a CMOS Device.		Special Features See Data Sheet.		Temperature		
		For Example: XLS2816AP-250/E2 2Kx8 EPROM, 0°C to 70°C, Plastic, 250 nsec, 100 cycle endurance		Package Type		
				Speed		
				Special Features		

Note: Fields marked (*) are optional

FUJITSU		MB Micro Block MBM Micro Block Modified and Industry Standard Numbers	Performance Variation L Low Power	Prefix	Device	Suffix
 (Current)  (Discontinued)			Package C Ceramic P Plastic Z Cerdip PF Flatpack PSK Skinny DIP PZ Zigzag PJ SOJ	MB	81C100	P
				Package		(Ordering purposes only)

GENNUM		Description/Family G Gennum	Temperature/Qualification C Commercial E Extended Industrial I Industrial M Military	Prefix	Device	Suffix
		A Array B Buffer C Amplifier F Filter I Interface K Custom M Modules O Oscillators P Power T Transconductance X Crosspoints Y Other video products Z Other video products	Package/Pins CC Chip DA 8 pin Plastic DIP, 300 mil DB 14 pin Plastic DIP, 300 mil DC 16 pin Plastic DIP, 300 mil DE 18 pin Plastic DIP, 300 mil DF 20 pin Plastic DIP, 300 mil DG 22 pin Plastic DIP, 400 mil DH 24 pin Plastic DIP, 300 mil DI 24 pin Plastic DIP, 600 mil DJ 28 pin Plastic DIP, 300 mil DK 28 pin Plastic DIP, 600 mil DL 40 pin Plastic DIP, 600 mil EA 8 pin Ceramic DIP, 300 mil EB 14 pin Ceramic DIP, 300 mil EC 16 pin Ceramic DIP, 300 mil EE 18 pin Ceramic DIP, 300 mil EF 20 pin Ceramic DIP, 300 mil KA 8 pin SOIC, 150 mil KB 14 pin SOIC, 150 mil	G X	4104	- C DE
				Family		
				Revision		
				Temperature/Qualification		
				Package		

Manufacturer Device Identification		Part Number		Example				
		Prefix	Suffix					
GENNUM (continued)		Package/Pins (continued)						
		KC 16 pin SOIC, 300 mil						
		KD 16 pin SOIC, 150 mil						
		KF 20 pin SOIC, 300 mil						
		PJ 28 pin PLCC						
		PM 44 pin PLCC						
		SA 8 pin SIP, 300 mil						
		SF 20 pin SIP, 300 mil						
		SG 32 pin SIP Modules						
		SH 40 pin SIP Modules						
		SK 45 pin SIP Modules						
		SN 7 pin SIP, 300 mil						
		GIGABIT LOGIC 		Family	Package	Prefix	Device	Suffix
				10G PicoLogic	C1 Leaded Chip Carrier (68 I/O)	XXG	XXXX A (B)-(Y) C	
				12G NanoRam	C C-Leaded Chip Carrier (40 I/O)			
14G NanoRam	L Leadless Chip Carrier (40 I/O)							
16G Analog and Interface	L36 Leadless Chip Carrier (36 I/O)							
80G ASIC	F Flat Package (36 I/O)							
90G Prototyping and Support	H Hybrid							
	X Unpackaged Die							
	Temperature Range							
	K -40°C to 100°C							
	M -55°C to 125°C							
GOLDSTAR  GoldStar GOLD STAR CO., LTD.		GS Transistor	Package	Prefix	Device	Suffix		
		GL Bipolar Linear IC	P Plastic	GLC	555	P C		
		GLC CMOS Linear IC	C Ceramic					
		GM MOS LSI	E CERDIP					
		GD Bipolar TTL, HC/HCT, Digital MST	FT Flat					
			PL LCC					
			SB Side Braze					
			G Pin Grid Array					
			S Surface Mount					
			X Dice					
GOULD AMI  GOULD Electronics AMI Semiconductors (Discontinued) AMI A Subsidiary of Gould Inc. (Discontinued)		Family	Package	Prefix	Device	Suffix		
		S Standard	P Plastic	S	68A00	P		
			D Cerdip		5101L-1	C		
			C Ceramic		2559A	P		
			L Leadless Chip Carrier					
			Pins/Package					
			8 Plastic					
			14 Plastic, Ceramic					
			16 Plastic, DIP and SOIC, Cerdip, Ceramic					
			18 Plastic, Cerdip, Ceramic					
(Note: see Gould								

(Note: see Gould
1991 PRODUCTS CATALOG)

Manufacturer Device Identification		Part Number		Example		
Prefix		Suffix		Prefix	Device	Suffix
HARRIS SEMICONDUCTOR				HA1	2425	5
Family		Temperature				
A Analog		1 -55°C to +200°C				
C Communications		2 -55°C to +125°C				
D Digital		4 -25°C to +85°C				
I Interface		5 0°C to +70°C				
M Memory		6 100% 25°C Probe (Dice Only)				
PL Programmable Logic		7 Dash 7 Program; High Reliability -5 Temp. Range				
S CISC		8 Dash 8 Program; hi-rel processing with burn-in				
V High Voltage		9 -40°C to +85°C				
Package		9+ -40°C to +85°C with burn-in				
1 Ceramic DIP		5 Ceramic Substrate				
1B Brazed Seal		7 Mini DIP				
2 TO-5		9 Flat Pack				
3 Epoxy DIP		0 Chip Form				
4 Leadless Carriers		/883 MIL-STD-883 compliant processing				
80CXXX Family Product Number		SPEED				
Temperature Range		Peripherals				
C Commercial (0°C to +70°C)		5 5 MHz				
I Industrial (-40°C to +85°C)		Blank 8 MHz				
M Military (-55°C to +125°C)		CPU				
X 25°C		Blank 5 MHz				
Package Type		2 8 MHz				
P Plastic		CPU (80C286)				
D Ceramic DIP		12 12.5 MHz				
X Chip Form		16 16 MHz				
R Leadless Chip Carrier		20 20 MHz				
S Plastic Leaded Chip Carrier		Hi-Rel Processing				
G Pin Grid Array		B Dash 8 Program; hi-rel processing with burn-in				
		/883 MIL-STD-883 compliant processing				
Harris Microwave (Gallium Arsenide)		Package				
Products Family		1 32-Pin Hermetic Metal Flat Pack				
A Amplifiers (GaAs FETs)		2 16-Pin Hermetic Metal Flat Pack				
D Digital (GaAs)		3 48-pin Hermetic Metal Flat Pack				
F Field Effect Transistors (GaAs)						
K Evaluation and Test Kits						
M Monolithic Microwave ICs (GaAs)						
P High Power FETs (GaAs)						
R RF/Analog MMICs						
Prefix		Package				
AD Analog Devices Alternate Source		A TO-237				
D Siliconix Driver/Level Translator IC Alternate Source		B SOIC				
DG Siliconix Analog Switch Alternate Source		C TO-220				
DGM Monolithic DG Analog Switch Replacement		D Ceramic dual-in-line				
ICL Linear IC		E Small TO-8				
ICM Microperipheral IC		F Ceramic flat-pack				
ICH Hybrid IC		H TO-66				
IM Microcontroller and DSP IC		I 16 pin (.6 x .7 pin spacing) hermetic hybrid DIP				
LH National Semiconductor Hybrid Alternate Source		J CERDIP dual-in-line				
LM National Semiconductor Linear Alternate Source		K TO-3				
MM National Semiconductor Analog Switch Alternate Source		L Leadless ceramic				
NE Signetics Alternate Source		P Plastic dual-in-line				
SE Signetics Alternate Source		S TO-52				
G Siliconix Analog Gate Alternate Source		T TO-5 type (also TO-78, TO-99, TO-100)				
IH Analog Switch Family		U TO-72 type (also TO-18, TO-71)				
ADC National Semiconductor A/D Alternate Source		V TO-39				
μA Fairchild Linear Alternate Source		Z TO-92				
		/W Water				
		/D Dice				
High Reliability Designator		Temperature Range				
JM38510/ MIL-M-38510 Device		C Commercial: 0°C to 70°C				
/883B MIL-STD-883B Screened Device		I Industrial: Either -25°C to 85°C or -40°C to 85°C (Specified on Datasheet)				
		M Military: -55°C to +125°C				
		Number of Pins				
		A 8 P 20				
		B 10 Q 2				

Manufacturer Device Identification	Part Number Prefix	Suffix	Example
HARRIS SEMICONDUCTOR (continued)	/HR High-Reliability Device	C 12 R 3	
	/BR Cost-Effective High-Reliability Device	D 14 S 4	
	/BI Burn-in Only Process Flow	E 16 T 6	
		F 22 U 7	
		G 24 V 8 (0.230" pin circle, isolated case)	
		H 42	
		I 28 W 10 (0.230" pin circle, isolated case)	
		J 32	
		K 35 Y 8 (0.200" pin circle, case to pin 4)	
		L 40	
		M 48 Z 10 (0.230" pin circle, case to pin 5)	
		N 18	

GE/RCA SOLID STATE



(Discontinued)

Description	Version	Prefix	Device	Suffix
CA Linear ICs	A Modified Version, Unilaterally Interchangeable with Prototype	CD	4070	AD
CD CMOS Digital ICs	B Modified Version, Unilaterally Interchangeable with A			
CDP CMOS—LSI	C Modified Version			
CMM CMOS—LSI				
MWS CMOS—LSI				
LM Linear ICs				
PA Gate Arrays				
SC Standard Cells				
GCA Gate Arrays				
RS ASIC—LSI				
CD54/74HC/HCT CMOS High-Speed Digital ICs				
CD54/74AC/ACT CMOS Advanced High-Speed Digital ICs				
Package				
D Ceramic DIP				
E Plastic DIP				
EM Modified Dual-In-Line Plastic Package with "Power Slab"				
EN Narrow-Body Plastic DIP				
F Ceramic DIP, Frit Seal				
H Chip				
J 3-Layer Ceramic Leadless Chip Carrier				
K Ceramic Flat Package				
L Single Layer Ceramic Leadless Chip Carrier				
M Small-Outline Plastic Package				
Q Plastic-Chip=Carrier Package				
Q Modified Quad-In-Line Plastic Package				
QM Quad-In-Line Package with "Power Slab"				
S TO-5 Package with DIL-CAN				
T TO-5 Package with Straight Leads				
V1 TO-5 Package with Radial Formed Leads				
W Staggered Quad-In-Line Plastic Package				

HITACHI



Type	Package	Prefix	Device	Suffix
HA Analog	P Plastic DIP	HM	472114	AP
HD Digital	C Ceramic DIP			
HM Memory (RAM)	CP Plastic Leaded Chip Carrier			
HN Memory (ROM)	FP Flat Plastic Package			
HG ASIC	SO Small Outline Package			
	PG Pin Grid Array			
	S Shrink Type Plastic DIP			
	CG Glass Seated Ceramic Leadless Chip Carrier			
	G CERDIP			

HOLT
INTEGRATED
CIRCUITS

HI Holt	Package	Prefix	Device	Suffix
	C Ceramic DIP	HI	8010	XX
	D Cerdip DIP			
	S Ceramic Leadless Chip Carrier			
	L Leaded Ceramic Chip Carrier			
	P Plastic DIP			
	J Plastic J-Lead (PLCC)			
	R Ceramic J-Lead			
	T TO Can			
	U Cerdip J-Lead			
Processing				
M Military				

HUGHES
AIRCRAFT


H Hughes	Package	Prefix	Device	Suffix
Product Flow/Temp. Range	P Plastic DIP	HB	3108A	OP000
C Commercial/0°C to 70°C	D Ceramic DIP			
I Industrial/ -40°C to 85°C	H Dice			
B Military High Rel/ -55°C to 125°C	L Leadless Chip Carrier			
Qualifier	Y Cerdip			
C Max. 7V Operation	Q Quad Pack			
O Greater than 7V	F Flat Pack			
Product Type	G Pin Grid Array			
000 Standard	J Ceramic J-Bend			
XXX Selected				

IC MASTER

Manufacturer		Part Number		Example	
Device Identification		Prefix	Suffix		
HYUNDAI 	HY Hyundai	Family 51 DRAM 53 DRAM 61 SRAM 62 SRAM 63 SRAM 27 EPROM 93 EEPROM (Serial I/O) 28 EEPROM (Parallel I/O) Process — NMOS C CMOS Modification A First B Second C Third	Temperature Range — 0°C to 70°C E -40°C to 85°C L -0°C to 70°C Low Power Package S Plastic DIP, 300 mil P Plastic DIP, 600 mil F Plastic Leaded Chip Carrier, J-Form J SOIC H SOJ Z ZIP K Cerdip, 300 mil R Cerdip, 400 mil D Cerdip, 600 mil D Cerdip, 600 mil T Ceramic Side Brazed, 300 mil U Ceramic Side Brazed, 400 mil C Ceramic Side Brazed, 600 mil G PGA N LCC X Dice	Prefix Device Suffix HY XX X XXXX X X XX Family Process Modification Temperature Range Package Speed	

ILC DATA DEVICE 	Family ADC Analog to Digital BUS Data Bus Device DAC Digital to Analog DDAC Deglitched, Digital to Analog DRC Digital to Resolver DSC Digital to Synchro HDSC Hybrid Digital to Synchro or Resolver HDP Hybrid Data Processor HMSDC Hybrid Multiplexed Synchro to Digital HSCT Hybrid Solid State Control Transformer HSDC Hybrid Synchro to Digital IDC Inductosyn to Digital MSDC Multiplexed Synchro to Digital PWR Power RDC Resolver to Digital SBA Synchro Booster Amplifier SDC Synchro to Digital SH Sample and Hold TD Torque Driver TH Track and Hold	Converter Resolution -6 6-Bits -8 8-Bits -10 10-Bits -11 11-Bits -12 12-Bits -14 14-Bits -16 16-Bits Temperature Range 1 -55°C to 125°C 2 -25°C to 85°C 3 0°C to 70°C Voltage Range (Synchro Converters Only) -H 90V at 400 Hz -M 26V at 400 Hz -L 11.8V at 400 Hz -6 90V at 60 Hz	Prefix Device Suffix DAC SL 1 883B Family Temperature MIL-STD-883 Level B Processing	
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INOVA 	Family S Static RAM F Fast	Processing C Commercial M Hi Reliability I Industrial Package C Ceramic	Prefix Device Suffix F S 128K 8 T L -55 MC Static Ram Number of Words Bits per Word Two Chip Select Low Power Access/Cycle Time Processing Package	
--	---	--	--	--

Manufacturer Device Identification		Part Number		Example	
		Prefix	Suffix		
INTEGRATED DEVICE TECHNOLOGY  Integrated Device Technology, Inc.	Family		Package	Prefix	Device
	29 MSI Logic		P Plastic DIP		
	39 Bit-Slice Microprocessor and MSI Logic		TP Plastic THINDIP	IDT71	681 LA
	49 Bit-Slice Microprocessor and MSI Logic		TD THINDIP (CERDIP)		35 C B
	54/74 MSI Logic		TC THINDIP (Sidebrazed)		
	61 Static RAM		D CERDIP	Power	
	71 Static RAM (Proprietary)		C Ceramic Sidebrazed	Speed	
	72 Digital Signal Processing		XC Ceramic Sidebrazed Shrink-DIP	Package	
	79 RISC Components		G Pin Grid Array	Temperature Range	
	7M/8M Subsystems Modules (Hermetic)		SO Plastic Small Outline IC		
	7MP/8MP Subsystems Modules (Plastic)		J Plastic Leaded Chip Carrier		
			L Leadless Chip Carrier		
			XL Fine-Pitch Leadless Chip Carrier		
			ML Medium-Pitch Leadless Chip Carrier		
			E Cerpack		
			F Flatpack		
			U Die		
	Power		Temperature Range		
	L or LA Low Power		Blank Commercial (0°C to 70°C)		
	S or SA Standard Power		B Military (-55°C to 125°C, compliant to MIL-STD-883, Class B)		

INTEL 	Description	P Plastic Package	Prefix	Device	Suffix
	M Indicates Military Operating Temperature Range	R Hermetic Package, Leadless Chip Carrier	M D	2114A	L - 3
	I Indicates Industrial Grade	X Unpackaged Device			
	J Indicates a JAN qualified device, but is for internal identification purposes only. All JAN devices must be ordered by M38510 part number (Example: M38510/42001 BQB), and will be marked in accordance with MIL-M-38510 specifications.				
		Examples:			
		D2147H1 High Speed 4096x1-Bit Static Ram (35ns, 180/30mA)			
		C8080A2 8080A Microprocessor with 1.5 s cycle time, hermetic package Type C, commercial temperature range			
		MD8080A/B 8080A Microprocessor, hermetic package Type D, military temperature range, MIL-STD-883 Level B processing*			
		*On military devices, B suffix indicates MIL-STD-883 Level B processing.			
	Package Type				
	B Hermetic Package, Type B				
	C Hermetic Package, Type C				
	D Hermetic Package, Type D				
	G Hermetic Package, Pin Grid Array				
	I Crystal Package				
	M Metal Can Package				

INTERNATIONAL CMOS TECHNOLOGY 	Package Type	Prefix	Device	Suffix
	P Plastic DIP	PEEL	18CV8	P I -25
	C Ceramic DIP			
	S SO8			
	K SO8			
	J PLCC			
	Temperature Range			
	— Commercial 0°C to 70°C			
	I Industrial -40°C to 85°C			
	M Military -55°C to 125°C			
			27CX642C-40	

INTERNATIONAL MICROCIRCUITS	Circuit Technology	Revision Level—Serialized	Prefix	Device	Suffix
	4 Metal Gate CMOS, Single Metal, 8μ	A First Design	G 7	1440	B 26 QY
	7 Silicon Gate CMOS, Double Metal, 1.5μ	Customer and Job Code—Serialized			
		00 Unassigned			
		Package Type			
		P Plastic DIP			
		C Cerdip			
		L Chip Carrier, Ceramic Leadless			
		F Flat Pack			
		D No Package (Die)			
		S Side Brazed			
		Q Plastic Leaded Pin Grid Array			
		Temperature Range			
		NS Special			
		B 0°C to +70°C			
		S Prototype Part			
		A -25°C to +85°C			
		T -55°C to +125°C			
		K MIL-STD-883-5004			

IC MASTER

Manufacturer Device Identification	Prefix	Part Number	Suffix	Example
IXYS 	IX IXYS		Package	Prefix Device Suffix
	TYPE		P 18-Pin Plastic DIP D 18-Pin Ceramic DIP L Leadless Chip Carrier	IX DP 610 P C -
	C Current Mirror		Temperature	Type
	DP Digital PWM Controller		C 0°C to 70°C	Package
	MS Microstepping Control		I -40°C to 85°C	Temperature Range
	SE Shaft Encoder Interface		M -55°C to 125°C	Processing
	BD Bridge Driver		Optional Processing	
	LD Low Side Driver		— Standard	
	ID Industrial Driver		B Burn-in	
	PS Power Supply Control			
				Prefix Device Suffix
				IX CP 35M 35
				Package
				Current (MA)
				Voltage (V)

JAN NOMENCLATURE	J JAN Qualified Device	Device	Prefix Device Suffix
	M38510 Military Designation	The "Slash" numbering signifies the specification and specifies the device type. See Military Parts Directory. Note: The J or JAN prefix is very important. If it is not there it is not a JAN device.	JM38510 /XXX B C B
		Processing	Processing
		S	Package
		B	Lead Finish
		Package	
		A 1/4" x 1/4" Flat Pack, 14-Pin	
		B 1/8" x 1/4" Flat Pack, 14-Pin	
		C 1/4" x 3/4" Dual-In-Line, 14-Pin	
		D 1/4" x 3/8" Flat Pack, 14-Pin	
		E 1/4" x 7/8" Dual-In-Line, 16-Pin	
		F 1/4" x 3/8" Flat Pack, 16-Pin	
		G 8-Lead Can	
		H 1/4" x 1/4" Flat Pack, 10-Lead	
		I 10-Lead Can	
		J 1/2" x 1 1/4" Dual-In-Line, 24-Pin	
		K 3/8" x 5/8" Flat Pack, 24-Pin	
		P 1/4" x 3/8" DIP	
		R 1/4" x 1 1/16" DIP	
		S 1/4" x 1/2" Flat Pack	
		X 3-Lead Can	
		Y 2-Lead TO-3 Can	
		Z 1/4" x 3/8" Flat Pack, 24-Pin	
		2 20-Terminal LCC	
		0.350" x 0.350"	
		Lead Finish	
		A Kovar or Alloy 42, with Hot Solder Dip	
		B Kovar or Alloy 42, with Bright Acid Tin Plate	
		C Kovar or Alloy 42, with Gold Plate	
		X Any Finish	

LAMBDA 	L Overvoltage regulator	Package
	LAS IC	P Plastic
		S Surface Mount
		L Ceramic DIP

Manufacturer Device Identification		Part Number		Example	
		Prefix	Suffix		
LATTICE SEMICONDUCTOR CORP. 	Device Name GAL16V8 GAL20V8 GAL22V10 GAL6001 IspGAL16Z8		Power Blank Standard L Low Power Q 1/4 Power	Prefix	Device
			Package D Cerdip P Plastic DIP J PLCC (J Lead)	XXXXXXX	XX XXXX/883C
				Device Name	
				Speed	
				Power	
				Package	
				Temperature	
				Burn-In	
				MIL Process	

LINEAR TECHNOLOGY CORPORATION		Description LT Linear Technology LF, LH, LM Alternate Source to NSC OP Alternate Source to PMI SG Alternate Source to Silicon General UC Alternate Source to Unitrode Temperature C Commercial Range 0°C to 70°C M Military Range -55°C to +125°C	Package D Side brazed hermetic DIP H TO-5, TO-46 can J CerDIP K TO-3 (Steel) N Molded DIP S SOIC P 3 lead molded TO-247 T 3, 5 lead molded TO-220 Z 2, 3 lead molded TO-92	Prefix	Device	Suffix
				LT	1001A	C H
				Temperature Range		
				Package Type		

LOGICAL SOLUTIONS TECHNOLOGY	LT Logical Solutions Technology Temperature Range 54 Military (-55°C to 125°C) 74 Industrial (-40°C to 85°C)	Compatibility T TTL C CMOS Logic Function V Visibility C Control No. of Active Lines 16 32 64 Package P Plastic C Cerdip Package Type D Dual In Line C Chip Carrier, Leaded D Chip Carrier, Leadless F Mini Flat Pack G Pin Grid Array S Small Outline DIP	Prefix	Device	Suffix
			LT 74		T V 32 P L
			Temperature		
			Compatibility		
			Logic Function		
			No. of Active Lines		
			Package		
			Package Type		

LOGIC DEVICES INCORPORATED 	L Logic Devices Package H, D Hermetic DIP, Side Braze K Ceramic Leadless Chip Carrier G Pin Grid Ceramic L Ceramic Leaded Chip Carrier F Flat Pack Ceramic C, I Cerdip J Plastic J Lead Chip Carrier P, N Plastic DIP U, V Plastic SOIC, Gull Wing W Plastic SOJ	Temperature C Commercial (0°C to 70°C) M Military (-55°C to +125°C) Screening — Commercial Flow R 48 Hour Burn-In at 125°C E Extended Screening B MIL-STD-883C Class B Compliant	Prefix	Device	Suffix
			L	MA1010	D M B 55
			Package		
			Temperature		
			Screening		
			Speed		

IC MASTER

Manufacturer Device Identification	Part Number	Prefix	Suffix	Example
MARCONI CIRCUIT TECHNOLOGY	Package A Pin Grid Array C Ceramic DIL E Epic G Cerdip L Leadless Chip Carrier M Module N Naked Die P Plastic DIL Q Quad Plastic J-Lead R Quad Cerpack J-Lead S SO Plastic X Special	Temperature Range A Special B 0 to 70°C C -55 to +125°C F -40 to +85°C Screening & Inspection A BS/32 B Mil Std-883C Class B G Commercial Hermetic L Commercial Plastic S Mil Std-883C Class S T ESA 9000 X Special	Prefix MA Device 15530 Suffix GB C-XXX	Package Screening & Inspection Temperature Range Special Requirements/ Enhancements

MAXIM INTEGRATED PRODUCTS	Family 100-200 Analog to Digital Converters 200-299 Interface Line Driver/Receivers 300-399 Analog Switches Analog Multiplexers 400-499 Op-Amps 500-599 Digital to Analog Converters 600-699 Power Supply Products 700-799 Microprocessor Peripherals Display Drivers
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MAXIM

Temperature Range C 0°C to 70°C I -20°C to 85°C E -40°C to 85°C M -55°C to 125°C Screening /HR High-Rel /883 MIL-STD 883 Package A TO-237 C TO-220 D Ceramic Sidebrazed F Ceramic Flat-Pack H TO-66 J CERDIP Dual- In-Line K TO-3 L Leadless, Ceramic M Plastic Flat Pack N Narrow Plastic Dual- In-Line P Plastic Dual- In-Line Q Plastic Chip Carrier (Quad Pack)	Temperature Range C 0°C to 70°C I -20°C to 85°C E -40°C to 85°C M -55°C to 125°C Screening /HR High-Rel /883 MIL-STD 883 Package A TO-237 C TO-220 D Ceramic Sidebrazed F Ceramic Flat-Pack H TO-66 J CERDIP Dual- In-Line K TO-3 L Leadless, Ceramic M Plastic Flat Pack N Narrow Plastic Dual- In-Line P Plastic Dual- In-Line Q Plastic Chip Carrier (Quad Pack)	Prefix MAX Device 400 Suffix M J A/HR	Family Temperature Range Package Pins Screening
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NOTE: Alternate source devices follow original manufacturers part number and masking system.

4 Letter Suffixes
The first letter of the suffix is used to denote product grade, for example, MAX631ACPA means 5% output accuracy (A), the remaining 3 letters denote temperature range, package type and number of leads.

MICREL SEMICONDUCTOR THE INTELLIGENT POWER COMPANY™	Family MIC Micrel
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Temperature Range A Military (-55°C to 125°C) B Industrial (-40°C to 85°C) C Commercial (0°C to 70°C) Package D Sidebrazed DIP E Ceramic Quad H Metal Can J Ceramic DIP L Leadless Chip Carrier	Prefix MICXXXX Device 01 Suffix A E B Q	Speed/ Bonding Temperature Range Package Screening Qualification
--	--	---

Manufacturer Device Identification	Prefix	Part Number	Suffix	Example
MICREL (continued)			Package (continued)	
			M SOIC, 150 mil	
			N Plastic DIP	
			T TO-220	
			V PLCC	
			Screening	
			B Class B	
			S Class S	
			Qualification	
			H6 Rad Hard - 1x10 ⁵	
		Q Class B or S		
MICROCHIP TECHNOLOGY	L	PLCC (Plastic Leaded Chip Carrier)		
	W	Die in Wafer Form		
	S	Die in Waffle Pack		
	K	LCC (Ceramic Leadless Chip Carrier, not thermally enhanced)		
	SP	Skinny Plastic Carrier		
	SJ	Skinny Cerdip		
	SO	Small Outline		
	CB	COB (Chip-on-Board)		
	IC	IC Card		
	JW	Cerdip, windowed—(for microcontrollers only)		
		Commercial/Industrial		
		Speed (Memory)		
		35 35 ns		
		40 40 ns		
		45 45 ns		
		55 55 ns		
		70 70 ns		
		90 90 ns		
		10 100 ns		
		12 120 ns		
		15 150 ns		
		17 170 ns		
		20 200 ns		
		25 250 ns		
		Frequency (DSP)		
		— 20.5 MHz		
		14 14.4 MHz		
		25 25.6 MHz		
		32 32.8 MHz		
		Crystal Designation		
		LP 4 ns		
		RC 1μs		
		XT 1μs		
		HS 200 ns		
		Temperature Range		
		— 0°C to 70°C		
		I -40°C to 85°C		
		H -40°C to 110°C		
		Package		
		P Plastic		
		J Cerdip (with window if EPROM) All products except microcontrollers		
		D Ceramic		
		Standard Military		
		Lead Finish		
		A Solder Dip		
		B Matte Tin		
		C Gold		
		X Any finish above		
		Package		
		X 28 Lead Cerdip		
		Q Ceramic Side Braided Dual-In-Line		
		U Non-thermally Enhanced LCC		
		Z Flat Pack		
		Screening		
		B MIL-STD-883C Compliant (-55°C to 125°C)		
		M Commercial Assembly -55°C to 125°C Electrical Test		
		100%		
		Speed (EPROMS & EEPROMS)		
		15 150 ns		
		17 170 ns		
		20 200 ns		
		25 250 ns		
		45 45 ns		
		55 55 ns		
		70 70 ns		
		DSP		
		25 25.6 MHz		
		32 32.8 MHz		

Prefix	Device	Suffix
XXXXXXXXXX	XX	X/XX XXX
Type		
Speed, Frequency or crystal		
Temperature Range		
Package		
ROM Code or Special requirements		

Prefix	Device	Suffix
	*	XX X /X
Access Time		
Temperature Range		
Package		

Prefix	Device	Suffix
EX:	276C512	-17 X X X
Speed		
Screening		
Package		
Lead Finish		

Prefix	Device	Suffix
EX:	5962-87514	01 X B
Speed		
Package		
Lead Finish		

IC MASTER

Manufacturer Device Identification	Part Number		Example
	Prefix	Suffix	

MICROCHIP TECHNOLOGY (continued)

DESC Military SMD Devices

Lead Finish

- A Solder DIP
- B Matte Tin
- C Gold
- X Any finish above

Package

- X Ceramic
- Q Ceramic Side Braze
- U Non-Thermally Enhanced
- Z Flat Pack

MICRO NETWORKS



MN Micro Networks

Package Designator (if applicable)

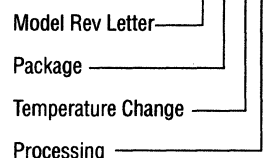
- FP Flat Pack
- CD Ceramic DIP
- PD Plastic DIP
- TC TO-can
- CL Ceramic Leadless
- LC Leadless Chip Carrier
- LP Plastic Leadless Carrier

Temperature Range

- 0°C to +780°C
- E -25°C to +85°C
- F -55°C to +85°C
- G -55°C to +100°C
- H -55°C to +125°C

Prefix Device Suffix

MN 5250 A CL HB



MICRON TECHNOLOGY

MT Micron Technology

Family

- D DRAM
- V SRAM
- S SRAM

Devices

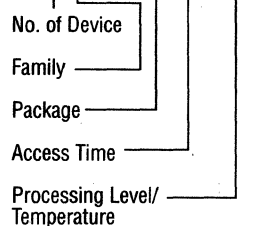
- 43 TPD RAM
- 45 Pseudo Static
- 5 SRAM
- 52 FIFO
- 56 Cache Data
- 58 Synchronous

Package

- M SIMM
- N SIP
- Z Zig-Zag ZIP
- D DIP

Prefix Device Suffix

MT VV W XXXXYYY ZZ MMMM



MICRO POWER SYSTEMS



MP Micro Power

Temperature Range

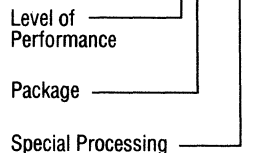
- J, K, L Commercial/Industrial
- S, T, U Military

Package

- D Ceramic DIP
- N Plastic DIP
- H TO-100 Type Can
- S Surface Mount

Prefix Device Suffix

MP 7520 T D XXXX



MITEL



Family

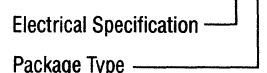
- MD Digital
- MH Hybrid
- MT Telecommunications
- CM Module
- MB Board

Package

- C Ceramic Dual-In-Line (Cerdip)
- D Ceramic Dual-In-Line (Side-Braze)
- E Plastic Dual-In-Line
- H Die in Tray Pack
- P Plastic J-Lead Chip Carrier
- S Small Outline (SO)
- W Die in Probed Wafer Form
- Y Ceramic Leadless Chip Carrier

Prefix Device Suffix

MT 8910 A E



Manufacturer Device Identification	Part Number		Example	
	Prefix	Suffix	Prefix	Device Suffix
MITSUBISHI 	M Mitsubishi Integrated Circuit	Package Style K Glass-Sealed Ceramic P Molded Plastic S Metal-Sealed Ceramic SP Molded Plastic (Shrink DIL) FP Molded Plastic (Flat)	M5	89 81 S -45
	Temperature Range 5 Industrial/Commercial 9 High Reliability Series Designation 01-09 CMOS 1 Linear Circuit 3 TTL 10-19 Linear Circuit 32-33 TTL 41-47 TTL 81 P-Channel AI-gate CMOS 84 CMOS 85, 86 PMOS 87 NMOS 88 PMOS 89 CMOS 9 DTL S0-S2 Schottky TTL	Package Outline 10 DIL Without Fin and With Quartz Lid B Shrink DIL	Temperature Range Original Product Series Circuit Function Package Electrical Characteristic (1 or 2 digits)	
	K, T, L, G, C, T, W Industry Standard Specifications for Second Source Devices		Second Source M5 K 4164 P Series Designation Circuit Function of Original Source type name Package	

MOTOROLA 	Description	Package	Prefix	Device	Suffix
	MC Packaged Integrated Circuits MCC Unencapsulated Integrated Circuit Chips MCCF Flip-Chip Linear Integrated Circuits MCM Integrated Circuit Memories LM Pin-for-Pin Equivalent to Linear Integrated Circuits Made by National Semiconductor MMS Memory Systems	F Flat Ceramic Package G Metal Can Package (TO-5 Types) K Metal Power Package (TO-3 Types) L Ceramic Dual-In-Line Case P Plastic Package PQ ICs Packaged In Staggered-Lead Plastic DIP Packages R Metal Power Packages (TO-66 Types) T Plastic Package (TO-220 Type) U Ceramic Package SOIC package (small outline IC package) Package Dual-In-Line plastic in 8, 14 and 16 leads SOT package (small outline, transistor package), such as SOT 23, etc. Leadless Ceramic Chip Carriers Leaded Plastic Chip Carriers Now: A ceramic package with a lead count, up to 68 leads or more for direct socketing with boards	MC	14510	L
			Description	Package	

MX-COM	MX	Package P Plastic DIP J Cerdip LH PLCC M CLCC	Prefix	Device	Suffix
			MX	14510	LH
			Package		

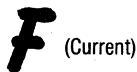
NATIONAL SEMICONDUCTOR 	Family	Package			
	ADC Analog-Digital Converter AF Active Filter BLC Board Level Computer BLMX Board Level Multi-Tasking Executive BLX Board Level Expansion CD CMOS (4000-Series Only) CIM CMOS microcomputer Board COP Family of Microcontrollers	D Glass/Metal DIP E Ceramic Leadless Chip Carrier (LCC) F Glass/Metal Flat Pack (1/4" x 1/4") G 12 Lead TO-8 M/C H Multi-Lead M/C H-05 4 Lead M/C (TO-5) H-46 4 Lead M/C (TO-46)			Shipped with Thermal Shield

National Semiconductor Corporation

IC MASTER

Manufacturer Device Identification	Part Number	Prefix	Suffix	Example
NATIONAL SEMICONDUCTOR (continued)	DAC Digital to Analog Converter DB Development Board DH Digital (Hybrid) DM Digital (Monolithic) DP Interface (Microprocessor) DS Interface HPC High Performance Microcontrollers HS Hybrid ICM Integrated Computer Module IDM Microprocessor (2901) INS Microprocessor (4004/8080A) ISE In-System Emulator J FET JM MIL-M38510 LF Linear (BI-FET) LH Linear (Hybrid) LM Linear (Monolithic) LMC Linear CMOS LP Linear Low Power MA Module Macrocomponents MCA Gate Array MF Linear (Monolithic Filter) MH MOS (Hybrid) MM CMOS NMC MOS Memory NS Microprocessor Component (Memory Systems) NS32 Microprocessor Component (Microprocessors, 32000) NSC Microprocessor (800) NSW Series 32000 Software PAL Programmable Array Logic PL Programmable Logic SCX Gate Array SD Special Digital SL Special Linear SM Special MOS SN Digital (2nd Source) TP Telecom Products TMP Terminal Management Processor	J Lo-Temp Ceramic DIP (Sometimes referred to as the "Fit-Seal" Package). J-8 8 Lead Ceramic DIP ("MiniDIP") J-14 14 Lead Ceramic DIP (-14 used only when product is also available in -8 pkg.). K TO-3 M/C in Steel, except LM309K which is shipped in Aluminum KC TO-3 M/C (Aluminum) K-Steel TO-3 M/C (Steel) M Small Outline Package N Molded DIP (Epoxy B) N-01 Molded DIP (Epoxy B) with Staggered Leads N-8 8 Molded DIP (Epoxy B) ("Mini-DIP") N-14 14 Lead Molded DIP (Epoxy B) (-14 used only when product is also available in -8 pkg.). P 3 Lead TO-202 PWR Pkg Q Cerdip with UV Window T 3, 5, 11, 15 & 23 Lead TO-220 PWR Pkg (Epoxy B) V Multi-Lead Plastic Chip Carrier (PCC) W Lo-Temp Ceramic Flat Pak WM Wide Body Small Outline Package	LF 356 N /A+ Device Family Device Number (Generic Type) and Suffix Letter (Optional) A: Improved Electrical Specification C: Commercial Temperature Range (2nd Source Products) Package Type Reliability Program (Optional)	Prefix Device Suffix LF 356 N /A+ Device Family Device Number (Generic Type) and Suffix Letter (Optional) A: Improved Electrical Specification C: Commercial Temperature Range (2nd Source Products) Package Type Reliability Program (Optional)

FAIRCHILD



Temperature Ranges

Linear Devices

With proprietary linear circuits, a 1-2-3 numbering system is employed. The 1 denotes a Military temperature range device (-55°C to 125°C), the 2 denotes an Industrial device (-25°C to 85°C), and the 3 denotes a Commercial device (0°C to 70°C), i.e. LM101/LM201/LM301. Exception to this are the LM1800 Series; some hybrid circuits which employ a "C" Suffix; and second source products which follow the original manufacturer's numbering system.

Package

- D** Ceramic DIP
- E** Plastic Can
- F** Flat Pack
- H** Metal Can
- J** Metal Power Package (TO-66)
- K** Metal Power Package (TO-3)
- P** Plastic DIP
- R** Ceramic Mini DIP
- S** Ceramic DIP (F6800 Family)
- T** Mini DIP
- U** Power Package (Molded, TO-220)
- W** Plastic TO-92

Temperature—

Check Device Data for Specific Values

- C** 0°C to 70°C/75°C (CMOS -40°C to 85°C)
- L** MOS -55°C to 85°C
- M** Hybrid -20°C to 85°C
- M** -55°C to 125°C

NCM CORPORATION



ncm corporation

Temperature

- C** Commercial
- M** Military

Package

- D** Ceramic DIP
- F** Ceramic Flatpack
- L** Leadless Carrier
- N** Plastic DIP

Digits 1, 2

- 20** Metal Gate, Full Custom
- 30** Metal Gate, Semi Custom
- 40** Si-gate, Full Custom
- 50** Bipolar Array
- 60** Analog, Custom
- 70** Si-gate, Semi Custom

Digits 3, 4

- Device No.
- Device No.
- Device No.
- Device No.
- Device No.

Prefix	Device	Suffix
NCM	40 02	Z N
Technology		
Device Number		
Revision		
Package		

NCR MICROELECTRONIC PRODUCTS DIVISION



Temperature

- C** 0° to 70°C
- I** -40°C to 85°C
- HR** -55°C to 125°C

Package

- PD** Plastic DIP
- CD** Ceramic DIP
- PL** Plastic LCC
- SO** Small Outline

Prefix	Device	Suffix
NCM	23256	C PD
Temperature		
Range		

NEC
NEC Electronics Inc.

Product Family	
10	10K ECL RAM
100	100K ECL RAM
21	NMOS static RAM
23	NMOS ROM
23C	CMOS ROM
27	NMOS EPROM
27C	CMOS EPROM
28C	CMOS EEPROM
4	Bipolar PROM
40	NMOS static RAM
41	NMOS dynamic RAM
42	CMOS dynamic RAM
43	CMOS static RAM
44	CMOS static RAM (6-T cell)

B	Ceramic Flatpack
C	Plastic Molded DIP
CT	28 Pin Plastic Shrink DIP (400 mil)
CX	24 Pin Plastic Shrink DIP (600 mil)
C-1-8	40 Pin Plastic DIP 600 mil
D	Cerdip or Ceramic DIP
DW	64 Pin Shrink Cerdip with Window
D-1-18	40 Pin Ceramic DIP
G	24 Pin Plastic SO (Small Outline)
G2	Plastic Miniflat
GR	54 Pin Plastic Miniflat (Inverted Leads)
GF	54 Pin Plastic Miniflat
G-00	52 Pin Plastic Miniflat
G-1B	64 Pin Plastic Miniflat
G-4	44 Pin Plastic Miniflat
G-5	44 Pin Plastic Leaded Chip Carrier (PLCC)
G-6	44 Pin Plastic Miniflat
G-08	40 Pin Ceramic Piggyback DIP (600 mil)
G-12	64 Pin Plastic Miniflat
G-22	44 Pin Plastic Miniflat
G-36	64 Pin Plastic QUIP
H	TO-220
HA	Plastic SIP
J	TO-92
K	22 Pin Ceramic LCC
L	18 Pin Plastic Leadless Chip Carrier
LA	20/26 Pin Plastic SOJ
L-5	Plastic Leadless Chip Carrier
L-8	Plastic Leadless Chip Carrier
R	132 Pin Ceramic Grid Array
R-8	68 Pin Ceramic Grid Array
V	16 Pin Plastic Zig-Zag Inline

A SIMM Leaded
B SIMM Socket Mounted

Prefix	Device	Suffix
μ PD	7810H	D
Family		
Device		
Package		

Prefix	Device	Suffix
<u>μPC</u>	1234	C
Family		
Package		

Prefix	Device		Suffix	
μPD	41	256	V	-12
Family				
Product Class				
Package				
Speed				

NEWBRIDGE

C Commercial (0°C to 70°C)
I Industrial (-40°C to 85°C)
E Extended Temp (-55°C to 125°C)
M Military (-55°C to 125°C)
 (Screened to MIL STD 883 Equivalent)

D	Ceramic (side brazed)
J	Cerdip
L	Leadless Chip Carrier (Ceramic)
M	Slim Outline (Plastic)
N	Plastic Leaded Chip Carrier (PLCC)
P	Plastic DIP

Prefix	Device	Suffix
CA	80C85B	X X X
Speed		
Temperature		
Package		

Prefix	Device	Suffix
CA	2854	L 24
Package		
No. of Pins		

Series
AAA1M30X High Speed
1Mb DRAM

- 0 Fast Page (1Mx1)
- 1 Nibble
- 2 Static Column (1Mx1)
- 4 Fast Page (256Kx4)
- 5 Static Column (256Kx4)

P	P-DIP
Z	ZIP
J	SOJ

-08	80
-07	70
-06	60
-05	53

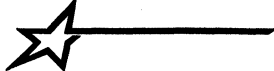
Prefix	Device	Suffix
AAA1M30		0 P -10
Series		
Mode		
Package		
Speed		

IC MASTER

Manufacturer Device Identification	Part Number	Example
OPTICAL ELECTRONICS 	Description 2000 Log/Anti-Log 3000 V/F-F/V Phase Detector 5000 Non-Linear Functions	6000 3-D System Card 9000 Op Amps, Comparators Current Booster, etc.

PANASONIC (MATSUSHITA) 	Description AN Analog DN Digital Bipolar MJ Development Type MN MOS	Prefix DN	Device 74LS00
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PARADIGM TECHNOLOGY	PDM Paradigm	Power S Standard L Low Power	Prefix PDM	Device XXXX	Suffix A XX A A
	Speed 20 20 ns 25 25 ns 35 35 ns 45 45 ns 55 55 ns		Power		
	Package P 300 mil Plastic DIP D 300 mil Cerdip L28 350 x 550 LCC SO 300 mil Plastic SOJ		Speed		
			Package		
			Process		

PERFORMANCE SEMICONDUCTOR 	P Performance P4C Static RAMS 9 Application Specific SRAM	Package P Plastic DIP J Plastic SOJ D Cerdip C DIP, Sidebraced L Leadless Chip Carrier S Plastic SOIC DW 600 mil Cerdip Temperature C Commercial, 0°C to 70°C M Military, -55°C to 125°C MB MIL Temp with STD 883C Class B Compliance	Prefix P74PCT	Device 240	Suffix X P C
			Speed		
			Package		
			Temperature		
			Prefix P4C9	Device XXX	Suffix L XX X X
			Low Standby Power		
			Speed		
			Package		
			Temperature		
			Microprocessor Prefix P1750A	Device XX	Suffix YY Z B
			Clock Frequency		
			Package		
			Temperature		
			Screening		

PLESSEY PLESSEY	Description MJ N-Channel MOS ML MOS Linear w/Gate Protection MN MNOS Digital MP MOS Digital MT MOS Linear (without Gate Protection) MV CMOS NJ N-Channel MOS NOM MNOS Memory Elements and Arrays TAA, TBA, TDA Alternate Sourced Consumer Devices SL Bipolar Linear SP Bipolar Digital	Package CM Multilead TO-5 DC Dilmion DG Ceramic Dual-In-Line DP Plastic Dual-In-Line EP Power Stud FM Ten Lead Flatpack GC Leadless Carrier GM Fourteen Lead Flatpack KM TO-3 QG Ceramic Quad-In-Line QP Plastic Quad-In-Line RP Power Findip SP Plastic Single-In-Line	Prefix SP	Device 8735B	Suffix DG
			Description		
			Package		

Manufacturer Device Identification	Part Number	Example
	Prefix	Suffix
PLESSEY (continued)	Package	
	E	Moulded DIL 0°C to +70°C
	BE	Moulded DIP -40°C to +85°C
	D	Moulded Small Outline (SO) 0°C to +70°C
	J	Ceramic DIL -55°C to +125°C
	BJ	Ceramic DIL -40°C to +85°C
	CJ	Ceramic DIL 0°C to +70°C
	AM	Ceramic Chip Carrier -55°C to +125°C
	Q	PLCC 0°C to -70°C
	Linearity Error	
	7	±0.39%
	8	±0.19%
	9	±0.097%
	10	±0.049%
	Tolerance	
	1	1% 2 2%
	Temperature Range	
	A	-55°C to +125°C
	AB	-55°C to +110°C
	C	0°C to 70°C
Data Converters		
Prefix	Device	Suffix
ZN	432	CJ -10
Temperature Range		_____
Linearity Error		_____
Low Power References		
Prefix	Device	Suffix
NN REF	025	C 1
Temperature Range		_____
Initial Tolerance		_____

**POWER
INTEGRATIONS****PWR** Power Integrations

Package		Prefix	Device	Suffix
P	Plastic DIP	PWR	XXX	N P L T XX
D	Sidebraz			
U	Sidebraz Hermetic			
X	Dice			
S	Small Outline (SOIC)			
H	Metal Can			
T	TO-220			
L	Plastic LCC			
R	LCC			
C	Ceramic Leaded CC			
E	Plastic Leaded CC			
W	Plastic SIP			
G	Pin Grid Array			
B	Batwing			
Q	DIP with Slug			

Series

Package

Pins

Temperature Range

Options

Pins	
A	3
B	4
C	5
D	6
E	7
F	8
H	9
J	10
K	11
L	14
M	15
N	16
P	18
R	20
S	21
T	22
U	24
V	28

Temperature Range	
C	0°C to 70°C
I	-40°C to 85°C
M	-55°C to 125°C

IC MASTER

Manufacturer Device Identification	Part Number	Example
PRO ELECTRON		
Prefix	Suffix	Prefix Device Suffix
First Letter	Two Letters	TEC 1033 GC B/B
T Analog Circuit	First Letter: General Shape	Temperature
U Mixed Analog/Digital	C Cylandrical	Package
Second Letter	D Dual-In-Line (DIL)	Quality Level
No special significance.	E Power DIL (with External Heat Sink)	
Third Letter	F Flat (Leads on 2 Sides)	
Temperature Range	G Flat (Leads on 4 Sides)	
A Temp. Range not specified below	K Diamond (TO-3 Family)	
B 0°C to +70°C	M Multiple-In-Line (Except Dual-, Triple-, Quad-In-Line)	
C -55°C to +125°C	Q Quad-In-Line (QUIL)	
D -25°C to +70°C	R Power QUIL (with External Heat Sink)	
E -25°C to +85°C	S Single-In-Line (as TO-127 or TO-220)	
F -40°C to +85°C	T Triple-In-Line	
G -55°C to +85°C	Second Letter: Material	
Device or Serial Number	C Metal-Ceramic	
Either a 4-digit number assigned by PRO ELECTRON or the serial (even a combination of figures and letters) of an existing type designation which can be extended to a minimum of a 4-digit number by adding zeros in front of it.	G Glass-Ceramic (cerDIP)	
	M Metal	
	P Plastic	

QUALCOMM	Q Qualcomm	Temperature Range	Prefix Device Suffix
		C Commercial (0°C to 70°C)	Q XXXX T-SS PP
		I Industrial (-40°C to 85°C)	Temperature Range
		M Military (-55°C to 125°C)	Speed
		S Screened to MIL-STD-883, Class B	Package
		Military (-55°C to 125°C) Screened to MIL-STD-883, Class S	
		Speed	
		20 20 MHz	
		30 30 MHz	
		50 50 MHz	
		Package	
		C Ceramic Leadless Chip Carrier	
		D Ceramic DIP	
		G Pin Grid Array	
		L Ceramic Leaded Chip Carrier	
		N Plastic Leaded Chip Carrier	
		P Plastic DIP	

RAMTRON CORPORATION	FM Ferroelectric Memory	Package	Prefix Device Suffix
	Device Size Memory Size (Power of 2)	D Ceramic DIP	FM 120 8 -100 D C
	Organization Bit Organization	DS Skinny Ceramic DIP	Device
	Performance Access or Cycle Time	P Plastic DIP	Size
		PS Skinny Plastic DIP	Organization
		S Small Outline Package	Performance
		X Die Form	Package
		Temperature Range	Temperature Range
		C 0°C to 70°C	
		I -40°C to 85°C	
		M -55°C to 125°C	

Manufacturer Device Identification	Prefix	Part Number	Suffix	Example
RAYTHEON SEMICONDUCTOR Raytheon	Temperature			
	LH1, LM1	-55°C to 125°C		
	LM2	-25°C to 85°C		
	LM3	0°C to 70°C		
	RC	0°C to 70°C		
	RM	-55°C to 125°C		
	RV	-40°C to 85°C		
	HA Series			
	HA1	14-Pin Ceramic DIP		
	HA3	14-Pin Plastic DIP		
XR	All Temps			
Microcomputer Components				
R				
Beam Lead Chips				
RC	0 to +70°C, C-level (commercial) visual			
RM	-55 to +125°C, B-level (military) visual			
NRF	Ray I, II, III, TTL device			
RG	-55 to +125°C			
RL	B-level visual			
54LS	Low-Power Schottky TTL, -55 to +125°C, B-level visual			
Package				
Most Devices				
BM	16-Pin Epoxy-B DIP			
CH	Chip, Visually Inspected to MIL-STD-883B, Method 2010, and Packaged in Waffle Pack			
CJ	14-Pin Ceramic Flatpack			
CL	16-Pin Ceramic Flatpack			
CK	14-Pin Ceramic Flatpack			
CQ	10-Pin Ceramic Flatpack			
DC	14-Pin Ceramic DIP			
DD	16-Pin Ceramic DIP			
DE	8-Pin Ceramic DIP			
DM	16-Pin Ceramic DIP			
DZ	40-Pin Ceramic DIP			
F	Flatpack			
FD	64-Lead Ceramic Flatpack, Side Brazed			
FV	28-Lead Ceramic Flatpack			
FZ	42-Pin Ceramic Flatpack			
H	3, 8 or 10-Pin Metal Can			
K	TO-3 Power Pack			
M	8 or 14-Pin Plastic Micro-Pak			
LS	20-Lead Chip Carrier (Square)			
LV	28-Lead Chip Carrier (Rectangular)			
LW	28-Lead Chip Carrier (Square)			
MB	16-Pin Epoxy-B DIP			
ML	16-Pin Ceramic DIP, Side Brazed			
MS	20-Pin Ceramic DIP, Side Brazed			
MZ	40-Pin Ceramic DIP, Side Brazed			
N	24-Pin Flatpack			
N	Epoxy-B DIP (LM Series)			
NB	8-Pin Epoxy-B DIP			
PS	20-Pin Epoxy-B DIP			
PU	24-Pin Epoxy-B DIP			
PV	28-Pin Epoxy-B DIP			
PZ	40-Pin Epoxy-B DIP			
R	24-Pin Ceramic DIP			
S	Ceramic "Slim-DIP"			
T	3, 8, 10 or 12-Pin Metal Can			
TK	9-Pin TO-66 Power Pack			
Package				
Beam Lead Chips				
B				
HA Series				
2	-55°C to +125°C			
5	0°C to +70°C			
8	-55°C to +125°C			
XR Series				
M	Ceramic -55°C to +125°C			
N	Ceramic -40°C to +85°C			
P	Epoxy -40°C to +85°C			
CN	Ceramic 0°C to +75°C			
C	Epoxy 0°C to +75°C			
Microcomputer Components Package				
D	Hermetic DIP			
F	Flatpack			
P	Plastic DIP			
X	Chip			
Temperature				
C	0°C to +75°C			
M	-55°C to +125°C			
Process to MIL-M-883B				
B	Level B			
S	Level S			
Prefix	Device	Suffix		
RC	4136	DB		
LM		H		
HA1	4741	5		
XR	2207	CN		
Prefix	Device	Suffix		
RC	4151	DE/ 883B		
Temperature				
RC	0 to 70°C			
RM	-55 to 125°C			
RV	-40 to 85°C			
Package				
Processing to MIL-STD-883B				
Prefix	Device	Suffix		
LM	139	J/ 883B		
Package				
Processing to MIL-STD-883B				
Prefix	Device	Suffix		
DAC	10 B D M / 883B			
Electrical Grade				
Package				
Temperature				
Processing to MIL-STD-883B				
Prefix	Device	Suffix		
REF	01	C T		
Electrical Grade and Temperature				
Package				
Prefix	Device	Suffix		
	29611	A D M B		
Performance				
A—Enhanced				
B—AMD Equivalent				
Package				
Temperature				
Processing to MIL-STD-883B				
Prefix	Device	Suffix		
RFII	2	CJ		
Temperature				
0 or 1 -55 to 125°C				
2 or 3 0 to 70°C				
Package				

IC MASTER

Manufacturer Device Identification	Prefix	Part Number	Suffix	Example
ROCKWELL	R	Rockwell		
				
Rockwell				
NMOS Devices Frequency Range No Suffix 1 MHz A 2 MHz B 3 MHz Package C Ceramic J PLCC P Plastic Q QUIP Temperature No Suffix 0°C to 70°C E -40°C to 85°C (Industrial) MT -55°C to 125°C (Military) M MIL-STD-883, Class B				
CMOS Devices Frequency Range 1 1 MHz 2 2 MHz 3 3 MHz 4 4 MHz Package C Ceramic J PLCC P Plastic Q QUIP Temperature No Suffix 0°C to +70°C E -40°C to +85°C MT -55°C to 125°C (Military) M MIL-STD-883, Class B				
Prefix	Device	Suffix		
R	6502	A C E		
Frequency Range				
Package				
Temperature				
Prefix	Device	Suffix		
R	65C02	C 4 E		
Package				
Frequency Range				
Temperature				

SAMSUNG



KS Samsung	KS	Samsung		
KM Samsung Memory	KM	Samsung Memory		
Organization 1 x1 4 x4 8 x8 Process Technology B BiCMOS Density (Device) 65 64K fast SRAM 67 64K fast SRAM 257 Standard SRAM 1001 1M fast SRAM 1002 1M fast SRAM with center power supplies 1005 1M fast SRAM with separate data i/Os				
Speed 4 4 MHz 6 6 MHz 8 8 MHz 10 10 MHz 12 12 MHz 16 16 MHz Temperature C Temperature I Industrial Package P Plastic DIP L Plastic Leaded Chip Carrier				
Revision — First Generation A Second Generation Standby Power — Normal L Low Power Package P Plastic DIP J Plastic SOJ				
Speed 10 10 ns 12 12 ns 15 15 ns 20 20 ns 25 25 ns 35 35 ns 45 45 ns 55 55 ns Package P Plastic DIP, 32 pin G Gull Wing Plastic Small Outline, 32 pin T Type 1 Thin Small Outline, 32 pin TM Type 1 Thin Small Outline with Mirrored Pinout				
Speed 7 70 ns 8 85 ns				
Microprocessor Peripherals Prefix Device Suffix KS 82CXXX X X X Speed Package Temperature				
Standard SRAMs Prefix Device Suffix KM 6 X XXXX L J -25 Standard SRAM Organization Process Technology Density Revision Standby Power Package Speed				
Standard Mixed CMOS SRAM Prefix Device Suffix KM 6 8 1000 A L G -10 L X 8 1 M Revision Standby Power Package Speed Screen				

Manufacturer Device Identification	Part Number		Example	
	Prefix	Suffix		
SAMSUNG (continued)		Speed (continued)	Prefix Device Suffix	
		10 100 ns	KM 6 2 64 B L G -10 L	
		12 120 ns	X 2	
		15 150 ns	64K	
		20 200 ns	Revision	
		25 250 ns		
		Screen		
		L Low-Low Power Standby		
		V 3.0V Operating Voltage		
		I Industrial Voltage		
		— Commercial Temperature		
		Standby Power		
		— 1 mA		
		L 100 mA		
		Organization	DRAM	Prefix Device Suffix
	1 x1	KM 4 XX C XXXX X-XX		
	4 x4	DRAM		
	8 x8	Organization		
	16 x16	Process Technology		
	18 x18	Depth		
	Process Technology	Package		
	— NMOS	Speed		
	C CMOS			
	Density	VRAM	Prefix Device Suffix	
	64 64K	KM 42 X C XXXX X-XX		
	256 256K	X 4		
	1000 1M	CMOS		
	4000 4M	Density		
	16000 16M	256: 256K		
	64000 64M	64: 64K		
	Package	Package		
	P DIP	Speed		
	J SOJ			
	Z ZIP			
	Speed			
	05 50 ns			
	06 60 ns			
	07 70 ns			
	08 80 ns			
	10 100 ns			
	12 120 ns			
	15 150 ns			
	20 200 ns			
	Density	Mask ROM	Prefix Device Suffix	
	256 32Kx8	KM 23 C XXXX X XX		
	512 64Kx8	CMOS		
	1010 128Kx8	Density		
	2000 256Kx8	Package		
	2100 128Kx16	Speed		
	4000 512Kx8			
	4100 256Kx16			
	8000 1Mx8			
	8100 512Kx16			
	Speed			
	20 200 ns			
	15 150 ns			
	10 100 ns			
	Package			
	— DIP			
	G SOP			
	FP QFP			
	Device Type			
	93 Serial			
	28 Standard			
	Density			
	Serial			
	06 256 bits			
	07 256 bits			
	46 1K bits			

IC MASTER

Manufacturer Device Identification	Part Number		Example
	Prefix	Suffix	
SAMSUNG (continued)	Standard		EEPROM
	16	16K bits	Prefix Device Suffix
	64	64K bits	KM XXC XXX X X-XX
	256	256K bits	Type Density Package Temperature Speed
	Speed (Standard)		
	15	150 ns	
	20	200 ns	
	25	250 ns	
	Package		
	Serial		
	—	DIP	
	G	SOIC	
	GD	SOIC with DIP printout	
	Parallel		
	P	DIP	
	J	PLCC	

	Type		RAM DAC
	0471	Triple 6-bit DAC	Prefix Device Suffix
	0476	Triple 6-bit DAC	KDA XXXX XX-XX
	0478	Triple 8-bit DAC	Type Package Speed
	Package		
	PL	44-pin PLCC	
	PJ	32-pin PLCC	
	CN	Plastic DIP, 600 mil	
	CP	Skinny DIP, 300 mil	

FIFO		Prefix Device Suffix
KM	75C	XX X X X-XX
CMOS		
Organization		
Revision		

SANYO



Designation	
LA	Bipolar Linear
LB	Bipolar - Digital
LC	CMOS

LE	MNMOS
LM	PNOS, NMOS
STK	Thick Film

Prefix	Device
LA	1230

SARATOGA SEMICONDUCTOR



Saratoga
Semiconductor

SS Saratoga

Family	
M	Memory
L	Logic
B	Module

Package	
A	Plastic Pin Grid Array
B	Ceramic Pin Grid Array
C	Ceramic DIP
D	Plastic SOIC (Gull Wing)
E	Plastic SOJ (J Lead)
F	Ceramic Flat Pack
G	Plastic DIP Module
H	Plastic SIP Module
J	PLCC
L	Ceramic LCC
P	Plastic DIP
S	Sidebrazed DIP
X	Die
Z	Plastic ZIP Module

Temperature Range	
C	Commercial
M	Military
B	MIL-STD 883C Method 5004 Class B

Prefix	Device	Suffix
SSL	7201A-20	P 3 C
Family		
Speed		
Package		
Package Width (Optional)		
Temperature and Screening		

Manufacturer Device Identification	Part Number																				
	Prefix	Suffix	Example																		
SEEQ  Technology, Incorporated	Temperature Range Q For Commercial Temperature 0°C to +70°C E For Extended Temperature -40°C to +85°C M For Military Temperature -55°C to +125°C		<table><tr><th>Prefix</th><th>Device</th><th>Suffix</th></tr><tr><td>D Q</td><td>2816</td><td>350 B</td></tr><tr><td colspan="3">Package Type</td></tr><tr><td colspan="3">Temperature Range</td></tr><tr><td colspan="3">Read Access Time of Memory Device (ns)</td></tr><tr><td colspan="3">MIL-STD-883 Level B Processing</td></tr></table>	Prefix	Device	Suffix	D Q	2816	350 B	Package Type			Temperature Range			Read Access Time of Memory Device (ns)			MIL-STD-883 Level B Processing		
	Prefix	Device	Suffix																		
D Q	2816	350 B																			
Package Type																					
Temperature Range																					
Read Access Time of Memory Device (ns)																					
MIL-STD-883 Level B Processing																					
	MIL-STD-883 Level B Processing Read access time of memory devices (ns)																				
	Package D Ceramic L Leadless Chip Carrier P Plastic DIP N Plastic Leaded Chip Carrier F Hermetic Flatpack																				

SGS-THOMSON MICROELECTRONICS	Family M27 EPROM M93 EEPROM	Package B Plastic D Ceramic Multilayer F Ceramic Frit Seal M SO-8 Plastic	Memory Devices <table><tr><th>Prefix</th><th>Device</th><th>Suffix</th></tr><tr><td><u>MXXX</u></td><td>XXXXX</td><td>XX X X</td></tr><tr><td>Family</td><td></td><td></td></tr><tr><td>Speed</td><td></td><td></td></tr><tr><td>Package</td><td></td><td></td></tr><tr><td>Temperature</td><td></td><td></td></tr></table>	Prefix	Device	Suffix	<u>MXXX</u>	XXXXX	XX X X	Family			Speed			Package			Temperature		
Prefix	Device	Suffix																			
<u>MXXX</u>	XXXXX	XX X X																			
Family																					
Speed																					
Package																					
Temperature																					

Family ET21 Static RAM ETL21 Static RAM ETC27 EPROM MK41 Fast Static RAM MK45 Biport FIFO MK48 Static RAM TS27 EPROM TS28 EEPROM TS59 EEPROM	Package C Ceramic DIL J Ceramic DIL N Plastic DIL Q UV Window Cerdip	Temperature — 0°C to 70°C E -25°C to 70°C V -40°C to 85°C M -55°C to 125°C	Quality Level — Standard B/B MIL-STD-883B Class B	<table><tr><th>Prefix</th><th>Device</th><th>Suffix</th></tr><tr><td>XX</td><td>X</td><td>XXXX X XX X XX</td></tr></table> Family Technology Package Speed Temperature Quality Level	Prefix	Device	Suffix	XX	X	XXXX X XX X XX
Prefix	Device	Suffix								
XX	X	XXXX X XX X XX								
Temperature — NMOS C CMOS L Low Power										

Family		Speed	Prefix	Device	Suffix
Z8000	CPU	— 4 MHz	Z	80XX	XX X
Z8500	Peripherals	A 6 MHz			
		Package	Speed		
		B Plastic			
		D Ceramic	Package		
		F Frit Seal			
		C Leaded Plastic Chip Carrier	Temperature		
		K Leadless Ceramic Chip Carrier			
		Temperature			
		1 0 to 70°C			
		6 -40°C to 85°C			
		2 -55°C to 125°C			

Family		Speed (Z86XXX)	Prefix	Device	Suffix
Z86XXX	Microcomputer	— 8 MHz			
Z84XXX	Microcoprocessor	A 12 MHz	Z	86XXX	X X X
		Speed (Z84XXX)			
		— 2.5 MHz	Speed		
		A 4 MHz			
		B 6 MHz	Package		
		H 8 MHz	Temperature		

IC MASTER

Manufacturer Device Identification	Part Number	Example
Prefix	Suffix	
SGS-THOMSON MICROELECTRONICS (continued)	Package B Plastic D Ceramic F Frit Seal C Leaded Plastic Chip Carrier K Leadless Ceramic Chip Carrier Temperature 1 0 to 70°C 6 -40°C to 85°C 2 -55°C to 125°C	Prefix Device Suffix Z 84XXX X X X Speed _____ Package _____ Temperature _____

Family	Package	Prefix	Device	Suffix
EF68XX Microprocessor TS68XX Microprocessor & CRT Controllers EF68XX Peripherals MK68XX Peripherals & Data Comm MK38XX MCU Peripherals EF93XX CRT Controller TS689XX DSP	C Ceramic DIL E CLCC J Cerdip FN PLCC P Plastic DIL R Pin Grid Array Temperature L* 0°C to 70°C V -40°C to 85°C M -55°C to 125°C *May be omitted Quality Level — Standard B/B MIL-STD-883B Class C B/C MIL-STD-883C Class B	XX X XXXXX X X XX Technology Package Temperature Quality Level		

Family	Package	Prefix	Device	Suffix
MK Standard Product MKJ MIL-M-38510 MKB MIL-STD-883B MKX MIL-Hi-Rel Screening to Customers SCD MKI Ind. Hi-Rel Screening for -40°C to 85°C	P Gold Side-Braced Ceramic DIP J Cerdip N Epoxy DIP K Tin-Side-Braced Ceramic DIP T Ceramic DIP/Transparent Lid E Ceramic Leadless Chip Carrier D Dual Density RAM-PAC F Flat Pack	MKX XXXXX X XX Package Dash No.		

INMOS

Type	Option	Prefix	Device	Suffix
1 Static RAM 2 Dynamic RAM	O Standard I Optional Function	IMS 1420 S 45 M		
Size (2 ⁿ) K	Package	Company	Type	Size
4 = 16K 5 = 32K 6 = 64K etc...	S Ceramic DIP K Ceramic DIP, Solder Dipped W Ceramic LCC N Ceramic LCC, Solder Dipped P Plastic DIP	Organization	Option	Package
Organization (2 ⁿ) Bits	Speed	Speed	Screening	
0 = x 1 1 = x 2 2 = x 4 etc...	45 — 45ns Access Time 55 — 55ns Access Time 12 — 120ns Access Time etc...			
Screening	(Blank)			
	Commercial M MIL-883C E Extended Temperature L Low Power			

SIEMENS

Prefixes assigned by the European Association "PRO ELECTRON".
(See PRO ELECTRON)

Prefix	Device
SDA	5010
TDA	2030
UAA	170

SIERRA



SIERRA SEMICONDUCTOR

Temperature Range	Prefix	Device	Suffix
C Commercial 0 to +70 deg. C E Extended -40 to +85 deg. C M Military -55 to +125 deg. C	SC 12345 A B 1		
Package Type	Sierra CMOS	Part Number	Temp. Range
N Molded dual in-line J Cerdip D Ceramic V PLCC M SOIC P PGA	Package Type	Speed Selection	

Manufacturer Device Identification		Part Number		Example	
		Prefix	Suffix		
SIGNAL PROCESSING TECHNOLOGIES	Family		Electrical Grade	Prefix	Device
	ADC Analog to Digital Converter		A, B, C Increasing Grade	DAC	97000
	CMP Comparator		S Single Grade		
	DAC Digital to Analog Converter				
	DAM Digital to Analog Converter with Memory				
	DSP Digital Signal Processor		Temperature		
	INA Instrumentation Amplifier		M -55°C to 125°C		
	SCF Switched Capacitor Filter		I -25°C to 85°C		
	THA Track and Hold Amplifier		C 0 to 70°C		
			Package		
			J Ceramic Side Brazed		
			D Cerdip		
			C Leadless Chip Carrier		
			G Pin Grid Array		
			N Plastic DIP		
			T Plastic Quad		
			M Hybrid Metal		
			H Hybrid Ceramic		
			U Die Only		
			L Leaded Chip Carrier		
			S Small Outline		
			X Special Package		
			Options/Screening		
			+ Standard Burn-In		
			H Standard Hi-Rel Screening		
			G Special Electric		

SIGNETICS

Signetics



PHILIPS

		Prefix	Device	Suffix
Temperature	N 0°C to 70°C			
	S -55°C to +125°C			
	NE 0°C to +70°C			
	SA -40°C to +85°C			
	SE -55°C to +125°C			
	55 -55°C to +125°C			
	75 0°C to +70°C			
	MC Alternate Source to Motorola Part Number			
	μA Alternate Source to Fairchild Part Number			
	AM Alternate Source to AMD Part Number			
Package	A Plastic Leaded Chip Carriers			
	B Plastic Quad Flat Pack			
	C Chips			
	D Plastic SO Packages			
	E Hermetic TO46			
	F Hermetic Cerdip			
	G Hermetic Chip Carriers - Leadless			
	H Headers			
	I Hermetic Ceramic DIP			
	K Hermetic Ceramic Cerquad			
Device Family	L Hermetic Leaded Chip Carrier			
	M Module, Memories Programmer, Misc.			
	N Plastic DIL			
	P Pin Grid Array - Hermetic (PA=Cavity Up, PB=Cavity Down)			
	Q Hermetic Ceramic Flat Pack			
	S Microprocessors/Systems			
	U Plastic SIL			
	V Plastic Pin Grid Array			
	W Hermetic Cerpac			
	Y Hermetic Chip Carrier - Leaded Square (Cerpac)			
Options/Screening	TA 8-Lead TO-5 can			
	U 9-, 13-Lead Single-in-Line			
	Y 24-Pin Ceramic Square Flat-pack with Radial Leads			
	W 10, 14, 16, 24-Lead CERPAC			

Manufacturer Device Identification	Part Number	Prefix	Suffix	Example
SILICON GENERAL	SG Silicon General		LINEAR ICs Characteristics A or B Improved Electrical Specifications C Reduced Temperature Range Package M 8 Pin DIL Plastic N 14, 16, 18, 20, 22, 24, 28, 40 Pin DIL Plastic W 16 Pin Batwing DIL Plastic D 8, 14, 16 Pin DIL S.O.I.C. Plastic DM 8 Pin DIL S.O.I.C. Plastic DW 16, 18, 20 Pin DIL S.O.I.C. Plastic (Wide Body) DWW 20 Pin Batwing DIL S.O.I.C. Plastic R Metal Can TO-66 K Metal Can TO-3 P 3, 5, Pin TO-220 Plastic V 3 Pin TO-247 SIP Plastic S 12 Pin SIP Plastic ST 12 Pin SIP Plastic (Metal Tab) Z 2 Pin TO46 Metal Can or 3 Pin TO52 Metal Can Q 20, 28 Pin Leadless Chip Carrier— Plastic Y 8 Pin DIL Ceramic J 14, 16, 18 Pin DIL Ceramic H 14, 16, 18 Pin DIL Ceramic Side Brazed F 10, 14, 16, 24 Pin DIL Ceramic (CERPAC) L 20 Pin Leadless Chip Carrier Ceramic (LCC) T 3, 8, 10, 12 Pin TO-5 Metal Can K 3, 4 Pin TO-3 Metal Can R 3, 4, 5, 9 Pin TO-66 Metal Can G 3, 5 Pin Hermetic TO-257 Non-Isolated IG 3, 5 Pin Hermetic TO-257 Isolated	Prefix Device Suffix SG 1524 J Characteristics Package Prefix Device Suffix SM 645 HR 1 K Construction/ Screening Particle Control Available only with HR Construction Package

Power Hybrid Circuits**SM** Thick Film Hybrid**SILICON SYSTEMS
INCORPORATED**

Family	
32B	HDD Interface
32C	HDD Controller
32D	HDD Data Recovery
32F	Active Filter
32H	HDD Head Positioning
32M	HDD Motor Speed Controller
32P	HDD Pulse Detection
32R	HDD Read/Write Amp
34B	FDD Interface
34D	FDD Data Recovery
34P	FDD Pulse Detection
34R	FDD Read/Write Amp
35P	Tape Drive Pulse Detection
73D	Modem Device Set
73K	K-Series Modem
73M	Modem/Modem Support
73T	Tone Signaling
78P	Digital Telecom
78A	Analog Telecom

Temperature Range (0)

C	Commercial (0°C to +70°C)
I	Industrial (-40°C to +85°C)
M	Military (-55°C to 125°C)

Package Type (R)

C	Side-brazed Ceramic
D	Ceramic DIP
F	Flat Pack
H	PLCC
P	Plastic DIP
T	Metal Can
S	Plastic, Skinny DIP
N	Small Outline, Narrow (150 mil)
L	Small Outline, Wide (300 mil)
W	Small Outline, Wide (400 mil)
M	Small Outline, Large (31.6 mil)

Release Level (0)**(Revision)**
A Through E**Modifiers (0)**

J	Burn-In (168 Hours)
K	Burn-In (48 Hours)
LJ	Low Noise Burn-In (168 Hours)
L	Low Power
LN	Low Noise
LQ	Low Noise, Resistor, Mirror Image
LR	Low Noise, Resonator
M	Mirror Image
S	Serial Version
SL	Low Power Serial
R	Damping Resistor
RM	Resistor, Mirror Image
U	On-Chip UART

Cannot Use A Through E in Left Position

Prefix	Device	Suffix
32R	510A	-6 C F
Family		
Release Level		
No. of Channels		
Temperature		
Package		

Manufacturer Device Identification	Prefix	Part Number	Suffix	Example
SILICONIX 	Description (1 or 2 letters) D Drivers DF Digital Function DG Analog Switches and Multiplexers G Multi-Channel FETs L Linear LD Linear Digital Communications SD Siliconix DMOS Product SI Siliconix Proprietary or Second Source Parts SM MOS Power	Operating Temperature Range -ICs (1 Letter) A -55°C to +125°C B -20°C to + 85°C C 0°C to + 70°C D -40°C to + 85°C B and D temperature range parts receive industrial processing unless a process option dash number is added Packages (1 Letter) A Metal Can—Hermetic J Dual-In-Line Package—Plastic K Dual-In-Line Package—CERDIP L Flat Package M CLCC N PLCC P Dual-In-Line Package—Side Braze—Hermetic R Dual-In-Line Package—Side Braze—Hermetic Y Small Outline Package Process Option /883 MIL-STD-883, Class B Compliant—Non JAN -2 Non Compliant—Non JAN (-4) 160 Hour Burn-In /BS BS9000 Compliant Packages—MOSPOWER C Chip M TO-3 P TO-220 V 4 pin DIP W TO-247	ICs Prefix Device Suffix DG 187 A P /883 DG 303 A B K (-4) DG 506 A C J Family Device Revision Operating Temperature Range Package Process Option	MOSPOWER Prefix Device Suffix V N 6 7 A B Vertical MOSPOWER Substrate Voltage (x 10) Selection Geometry Package
SIMTEK  SIMTEK	STK Simtek Part Type 28 EEPROM 1X NVSRAM Process C CMOS	Density/Organization 256 32K x 8 010 128K x 8 110 64K x 16 68 8K x 8 81 256K x 1 88 32K x 8 89 32K x 9 Package C Sidebrazed DIP F Flatpack J SOJ K Solder Sidebrazed DIP L CLCC N PLCC P PDIP W Solder CLCC Temperature Range — 0°C to 70°C M -55°C to 125°C I -40°C to 85°C	Prefix Device Suffix STK 28 C 256 C 70 L Type Process Density/Organization Package Speed Temperature Range	
SIPEX	Family ADC94 Commercial Analog to Digital Converter DAC3 Digital to Analog Converter DAC93 Commercial Digital to Analog Converter HS5 Analog to Digital Converter R6 Precision Voltage Reference HS97 Sample/Hold HS95 A/D Converter HS93 D/A Converter	Processing C Commercial Industrial Use B Per MIL-STD883B, Class B Resolution 8 8-Bits Binary 10 10-Bits Binary 11 11-Bits Binary 12 12-Bits Binary 14 14-Bits Binary 16 16-Bits Binary 18 18-Bits Binary 2D 2-Decade BCD 3D 3-Decade BCD 4D 4-Decade BCD	Prefix Device Suffix DAC3 31 C-14 Processing Resolution	

IC MASTER

Manufacturer Device Identification		Part Number		Example	
		Prefix	Suffix		
S-MOS SYSTEMS		Family	Package	Prefix	Device
		CI Converter IC	C Plastic DIP	SRM	2016
		EA Sensor array	D Die form	Family	C 15
(Current Logo)		ED Display driver	F Quad flat package	Package	
		LA Logic array	H Ceramic DIP	Speed	(15=150 ns)
		MC Microcontrollers and peripherals	J Plastic leaded chip carrier		
		MM Masked ROM	M Small outline package (SOP)		
(Product Marketing)		PM Programmable memories	N Skinny DIP		
		RM Static RAM	S Shrink DIP		
		SC Standard Cell			
		TC Telecom IC			
		VM Melody IC			

SOLITRON



CM CMOS	Process (CMOS)
UC4xxx Linear	(None) Limited Operating Voltage Range
UC6xxx PMOS Memory (discontinued)	A3-15 Volt Operating Voltage
UC7xxx PMOS Memory (discontinued)	B3-18 Volt Operating Voltage
	Package Style, Temperature Range (CMOS)
	D Ceramic DIP, -55°C to 125°C
	E Epoxy DIP, -40°C to 85°C
	F CerDIP (FritSeal) -55°C to 125°C
	H Uncased Die
	K Flatpack, -55°C to 125°C
	Package Style, Temperature Range (Linear)
	(None) TO-99, -65°C to 125°C
	C TO-99, 0°C to 70°C
	CE 8 lead MINI DIP, 0°C to 70°C
	ID Uncased Die

Prefix	Device	Suffix
CM	4000	AD
Package/Temperature		

SONY



CX Sony
BX Hybrid IC

Category	Package
A Bipolar	B 5mm x 3mm x 3mm, block shape
B Bipolar, Digital	Ceramic Ceramic Cross Package
D MOS Logic	DIP Dual Inline Package
K Memory	FQFP Metal Quad Flat Package
P,Q Microcomputer	LCC Leadless Chip Carrier
L PCD Signal Processor	PLCC Plastic Leadless Chip Carrier
	QFP Quad Flat Package
	SDIP Shrink Dual Inline Package
	SOP Small Outline Package
	SOJ Small Outline J-Lead Package
	T0-92 Cylindrical Mold Package with 3 pins
	TSOP Thin Small Outline Package
	W TO-3 package
	U 9mm diameter, slanted glass cap
	U* 5.6mm diameter, slanted glass cap
	V 9mm diameter, flat glass cap
	VR V package with a lens and a FC type connector
	XR XT package with a lens and a FC type connector
	WT TO-3 package with a built-in TE cooler
	XT Flat package with a built-in TE cooler

Prefix	Device	Suffix
C X A	1001	A P
Category		
Improvement		
Package		

STANDARD MICROSYSTEMS



Family	Functional Options
COM Data Communications	T TTL Clock Input
CRT CRT Display	H High Speed
HDC Hard Disk	ST ROM
MPU Microprocessor	STD Program Options
HYC Hybrid Communications	PRO See Catalog
MSD Mass Storage Devices	HR MIL-STD-883 Level B Equivalent
	BI Burned-In
	A, B, C Speed
	Program Options
	X or XXX Specifies Mask Program

Prefix	Device	Suffix
COM	5016	T X P
Family		
Function		
Program Option		
Package		

Manufacturer Device Identification	Prefix	Part Number	Suffix	Example
STANDARD MICROSYSTEMS (continued)		Package		
		No Letter	Ceramic CD Cedip	
		P	Plastic	
		LJ	Plastic Leaded Chip Carrier	
		LL	Leadless Ceramic Chip Carrier	
		FA	Quad Package—Straight Lead	
		GA	Quad Package—Gull Lead	
STC SEMICONDUCTORS 	Family		Screening Level/Temperature Range	Prefix Device Suffix
	CRT Video Display Circuits		Range	STC 6117M 70 J
	DSP Miscellaneous Digital Signal Processing Products	B BS9000		Family
	SCA Analog to Digital Converters	I Industrial Temperature Range		Screening Level/ Temperature Range
	SCC Comparators	M MIL-STD-883C screened		Speed Grade
	SCD Digital to Analog Converters	— Commercial Temperature Range		Package Style
	SCS Sample-and-Hold Devices	Package		
	SFA Fiber Optic Amplifiers	C Chip Carrier		
	SFD Fiber Optic Drivers	D Cerdip (frit-sealed DIL)		
	SLM Multiplexers	J Sidebrazed ceramic DIL		
	SLS Shift Registers	N Plastic DIL		
	SMF FIFOs	Sx Skinny (0.3" wide)		
	STC Memory Products and Miscellaneous			
	TEL Telecomm Products			
VAX VersArray™ Products				
TECHNITROL, INC. <i>Technitrol, Inc.</i>		Family MEDM 2		Prefix Device Suffix
				MEDM 2 100 M Y
				Frequency 10 MHz
				Military
				Special Testing
TELEDYNE COMPONENTS 	Description			Device Suffix
	1000 Series Operational Amplifier, Module			TSC7109 C P
	2200 Series Power Supply, AC Input, PC Mount			Temperature
	2300 Series Power Supply, DC Input, PC Mount			Package
	2400 Series Power Supply, AC Input, Chassis Mount			
	4000 Series Digital to Analog Converters			
	4100 Series Analog to Digital Converters			
	4700 Series Voltage to Frequency and Frequency to Voltage Converters			
	4800 Series Sample-Hold Amplifiers			
	Temperature	Package Types		
	C 0°C to 70°C	A TO-40		
	M -55°C to 125°C	B Plastic Flatpack		
	I -25°C to +85°C	D MO-078AA		
		H Side-Braze Cerdip		
	I TO-220 (Isolated)			
	J Cerdip			
	K Plastic Gullwing Quad Flat			
	L PLCC			
	M SOT89			
	N LCC			
	O SOIC			
	P Plastic DIP			
	R TO-52			
	S Plastic Flat Pack			
	T TO-99			
	V 8-Pin Can			
	Y Dice			
	Z TO-92			
TELEFUNKEN 	Prefixes Assigned by the European Association "PRO ELECTRON" (See Pro Electron)			Prefix Device Suffix
	Proprietary Devices			U 113 B
	U Integrated Circuits	B Bipolar		
	M MOS			

IC MASTER

Manufacturer Device Identification	Part Number	Suffix	Example
TEXAS INSTRUMENTS	AC Advanced Bipolar Circuits	Package	Prefix Device Suffix
	SBP Bipolar Microprocessor	JT Ceramic DIP, 24-Pin, 300-mil	SN 74 S188 J
	SMJ NOS Memory and Microprocessor 883B	J, JG Ceramic DIP	Description
	SN Standard Circuit	JD Side braze ceramic DIP	Temperature Range
	SNJ Standard Circuit: 883B, JEDEC Std 101	KA, KC, KD, KF Plastic power tab	Package
	TAC CMOS Logic Array	LP Plastic 3-lead	
	TAL Low-Power Schottky TTL Logic Array	N, NE Plastic DIP	
	TAT STL Logic Array	N Plastic DIP	
	TL Linear Circuit	T Metal Flat Pack	Prefix Device Suffix
	TLC LinCMOS™ Circuit	WA, W Ceramic Flat Pack	TMS 4256 -15 N L
	TIEF Transimpedance Amplifiers	NT Plastic DIP, 24 pin 300 mil	Speed
	TIES Infrared Source	U Ceramic Flat Pack	Package
	TIFPLA Bipolar Field Programmable Logic Array	NF Plastic DIP, 28 pin 400 mil	Temperature Range
	TIBPAL Bipolar Programmable Logic Array	FH Ceramic Single Layer Sq. Chip Carrier JEDEC	
	FP Rect. Chip Carrier for DRAMs	FN Plastic Single Layer Sq. Chip Carrier	
	TMS MOS Memory/Microprocessor In-Line Package Memory Module	FK Multi-Layer Sq. Chip Carrier JEDEC Standard	
	TBP Bipolar Memory	FE Multi-Layer Rect. Chip Carrier	
	TC CCD Imager	WC Ceramic Flat Pack	
	TCM Telecommunications IC	FG Multilayer Rect. Chip Carrier JEDEC Standard	
	TIED Infrared Detector	D Small-outline Package, 150 mil	
	TIL Optoelectronic Circuit	DW Small-outline Package, 300 mil	
	VM Voice Memory Circuit	FM Rect. Chip Carrier for DRAMs	
	JANB JM8510—Qualified Circuits, Level B	DJ Small-outline Package	
	JBP Bipolar PROM: 883C, JEDEC Std 101	J-Lead Package, Memory Low-power TTL Low-power Schottky TTL Schottky TTL Standard Interface Circuits Advanced Schottky TTL High Speed CMOS Advanced Low-power Schottky TTL Advanced Circuits	
Temperature (Most Devices) Digital & Interface Prefixes			
Series			
-55°C to 125°C		0°C to 70°C	
54		74	
54H		74H	
54L			
54LS		74LS	
54S		74S	
55		75	
54AS		74AS	
54HS/54HCT		74HC/74HCT*	
54ALS		74ALS	
54F		74F	
54BCT		74BCT	
Bipolar Suffixes			
MOS Suffixes			
Speed (MOS only)			
C 0°C to 70°C		L 0°C to 70°C	
E -40°C to 85°C		M -55°C to 125°C	
I -25°C to 85°C or		E -40°C to 85°C	
* -40°C to 85°C		S Special Range	
M -55°C to 125°C		— 0°C to 70°C	
— 15 150 ns Max. Access			
— 17 170 ns Max. Access			
— 20 200 ns Max. Access			
— 25 250 ns Max. Access			
— 35 350 ns Max. Access			
— 45 450 ns Max. Access			
— 2 200 ns Max. Access			
— 3 350 ns Max. Access			
— 4 450 ns Max. Access			
* -40° to 85°C			

*-40° to 85°C

THALER

Family	Temperature Range	Package	Prefix	Device	Suffix
ADC Analog to Digital Converter DAC Digital to Analog Converter IRE Current Reference VRE Voltage Reference SWR Sine Wave Reference	C -25°C to 85°C M -55°C to 125°C	Dual-in-Line, Ceramic F Flatpack, Metal	VRE Family Temperature Range Electrical Grade Package Custom Marking	102	M A F - 3

THIRD DOMAIN



Temperature Range	Prefix	Device	Suffix
C Commercial 0°C to 70°C M Military -25°C to 150°C	RSS	100A	C D
Package D Ceramic DIP N Plastic DIP	Temperature	Package	

Manufacturer Device Identification	Part Number Prefix	Suffix	Example
TRANSWITCH		Package A Ceramic B Plastic Burn-In Option A Standard, No Burn-In B Burn-In, 96 hours, 125°C	Prefix Device Suffix TXC 03001 A X X X Part Variant ———— Package ———— Burn-in Option ————

TRW LSI PRODUCTS



Family	
MPY	Triple Diffused Bipolar Multipliers
TDC	TRW Triple Diffused Bipolar Catalog
TMC	TRW CMOS Catalog Products
THC	TRW Hybrid I.C.'s
TAC	TRW Board Products

Screening and Temperature

A	ETR/High Reliability
B	Industrial, $T_c = -25^\circ\text{C}$ to 85°C
C	Commercial, $T_a = -55^\circ\text{C}$ to 125°C
V	883C compliant $T_c = -55^\circ\text{C}$ to 125°C

Note: See individual data sheets for specified temperature ranges for each product.

Package	
A1	68 Contact Hermetic Ceramic Leadless Chip Carrier
B2	24 Pin CERDIP (0.3 in.)
B5	40 Pin CERDIP
B6	28 Pin CERDIP
B7	24 Pin CERDIP
B8	18 Pin CERDIP
B9	16 Pin CERDIP
C1	68 Contact Hermetic Ceramic Leadless Chip Carrier
C2	44 Contact Hermetic Ceramic Leadless Chip Carrier
C3	28 Contact Hermetic Ceramic Leadless Chip Carrier
E1	Printed Circuit Board, Eurocard Format (100mm x 160mm)
G0	68 Pin Ceramic Grid Array (cavity down with heatsink)
G5	88 Pin Ceramic Grid Array
G8	68 Pin Ceramic Grid Array
H5	120 Pin Plastic Grid Array
H7	88 Pin Plastic Grid Array
H8	68 Pin Plastic Grid Array
J0	64 Pin Hermetic Ceramic DIP (without Heat Sink, lid up)
J1	64 Pin Hermetic Ceramic DIP (with Flat Heat Sink)
J3	64 Pin Hermetic Ceramic DIP (without Heat Sink, lid down)
J4	48 Pin Hermetic Ceramic DIP
J5	40 Pin Hermetic Ceramic DIP
J7	24 Pin Hermetic Ceramic DIP
J9	16 Pin Hermetic Ceramic DIP
L1	68 Lead Hermetic Ceramic Leaded Chip Carrier
L3	84 Lead Hermetic Ceramic Leaded Chip Carrier (0.025 in. pitch)
L4	100 Lead Hermetic Ceramic Leaded Chip Carrier (0.025 in. pitch)
N0	64 Pin Plastic DIP
N4	48 Pin Plastic DIP
N5	40 Pin Plastic DIP
N6	28 Pin Plastic DIP
N7	24 Pin Plastic DIP
N9	16 Pin Plastic DIP
P1	Printed Circuit Board, Standard Format (4.5 in. x 5.5 in.)
P3	Printed Circuit Board, 5 in. x 7 in.
R1	68 Lead PLCC
R3	28 Lead PLCC
S3	46 Pin Hermetic Metal DIP
S5	32 Pin Hermetic Metal DIP
S6	40 Pin Hermetic Ceramic DIP
S7	24 Pin Hermetic Metal DIP
X1	12 Lead to TO-8 Metal Can
X2	24 Pin Ceramic DIP (0.8 in. wide)

Prefix	Device	Suffix
TMC	2246	H5 C 1
Family		———
Package		———
Temperature Range and Screening		———
Electrical Variation		———

Manufacturer Device Identification	Part Number Prefix	Suffix	Example
UNITED TECHNOLOGIES MICROELECTRONICS CENTER  UNITED TECHNOLOGIES MICROELECTRONICS CENTER		Package	Prefix Device Suffix
		A Leadless Chip Carrier	UT 1553BRTI G A
		G Pin Grid Array	
		K Leaded Chip Carrier— Unformed Leads	Package _____
		L Leaded Chip Carrier—Gull Wing	Processing _____
VITELIC Family 6X SRAM 5X DRAM 63 Cache Related SRAM  VITELIC	V Vitelic	Package	Prefix Device Suffix
		F SOIC (mini-Flat Pack)	V 61C16 P 70 L I
		G Ceramic LCC	Family _____
		J Plastic LCC	Package _____
		K SOJ	Speed _____
		P Plastic DIP	Low Power _____
		S Skinny DIP	Temperature Range _____
		Z Zip	
		Temperature Range	
		— 0°C to 70°C	
		I -40°C to 85°C	
VITESSE SEMICONDUCTOR Family 29GXX 2900 80XX Standard Logic 12G4XX SRAM  VITESSE SEMICONDUCTOR CORPORATION	VS Vitesse Semiconductor	Package	Prefix Device Suffix
		L Leadless Chip Carrier	VS 29GXX L C -1
		F Leaded Chip Carrier	Family _____
		D Ceramic DIP	Package _____
		Temperature Range	Temperature Range _____
		C Commercial	Speed Option _____
		I Industrial (-40°C to 85°C)	
		M Military (-55°C to 125°C)	
			VS 80XX L I
			Family _____
			Package _____
			Temperature _____
			VS 12G4XX L C -5
			Family _____
			Package _____
			Temperature Range _____
			Speed Option _____
VLSI TECHNOLOGY  VLSI TECHNOLOGY, INC.		Package	Prefix Device Suffix
		A Sidebrazed Ceramic DIP (EPROM)	VC 9999999 BB P T E
		C Sidebrazed Ceramic DIP	Family _____
		D Cerdip	Package _____
		F Flatpack	Temperature Range _____
		G Ceramic Pin Grid Array	Environmental Code _____
		K Leadless Chip Carrier (EPROM)	
		L JEDEC Type-B Ceramic Leadless Chip Carrier	
		P Plastic DIP	
		Q Plastic Leaded Chip Carrier	
		T Ceramic Leaded Chip Carrier	
		V Die-Plated	
		W Die in Wafer Form	
		Y DIP on PC Board	
		Z Chip on PC Board	
		Environmental Code	
		B Mil-Std-883C, Level B	
		Blank Standard Screening	
		I Military-Screened	
		J Mil-M-38510	

IC MASTER

Manufacturer Device Identification	Part Number Prefix	Suffix	Example
VTC INCORPORATED  VTC Incorporated	Additional Processing	Temperature Range	CMOS Interface Logic
	B Burn-in (168 Hrs, $T_j = 150^{\circ}\text{C}$ or Equivalent)	74 Commercial (-40°C to 85°C)	Prefix Device Suffix
	J Screened to Class B, Mil Std 883	54 Military (-55°C to 125°C)	V 74 ACT 240 P
	R Rad Hard	Package	VTC
None No Additional Processing	Additional Processing	P Plastic DIP	Additional Processing
B Burn-in (168 Hrs, $T_j = 150^{\circ}\text{C}$ or Equivalent)	B Burn-in (168 Hrs, $T_j = 150^{\circ}\text{C}$ or Equivalent)	PS Plastic Slimline DIP	Temperature Range
J Screened to Class B, Mil Std 883	J Screened to Class B, Mil Std 883	S Ceramic DIP (Cerdip)	Family
R Rad Hard	R Rad Hard	DS Ceramic Slimline DIP (Cerdip)	Device Type
None No Additional Processing	None No Additional Processing	PL Plastic Leaded Chip Carrier (PLCC)	Package
		DL Ceramic Leadless Chip Carrier (LCC)	
		PO Plastic SOIC	
		Temperature Range/Performance	
		A thru I Industrial (-25°C to $+85^{\circ}\text{C}$)	
		J thru R Commercial (0°C to 70°C)	
		S thru Z Military (-55°C to $+125^{\circ}\text{C}$)	
		Package	Bipolar Products
		P Plastic DIP	V A 705 D J
		PS Plastic Slimline DIP	VTC
		D Ceramic DIP (Cerdip)	Additional Processing
		J Side Brazed Ceramic DIP	Family
		T Metal Can	Part Number
		G Pin Grid Array	Package
		F Flatpack	Temperature Range/Performance
		PL Plastic Leaded Chip Carrier (PLCC)	
		DL Ceramic Leaded Chip Carrier (LCC)	
		X Die	

WAFERSCALE INTEGRATION, INC.



WAFERSCALE INTEGRATION, INC.

Family Group	Package
57CXXX Fast EPROM, PROM & RPRM	A Plastic Pin Grid Array
59XXX Bit Slice & Logic	B Ceramic SDBRZD DIP, 0.9"
27CXXX Slow EPROM Memory	C CLLCC
PAC Programmable Standalone Microcontroller	D Cerdip, 0.6"
SAM Programmable Standalone Microsequencer	F Ceramic Flatpack
	G Ceramic Pin Grid Array
	H Ceramic Flatpack
	J PLDCC
	K Cerdip, 0.6"
	L CLDCC
	M Plastic DIP, 0.9"
	P Plastic DIP, 0.6"
	S Plastic Dip, 0.3"
	T Cerdip, 0.3"
	W Waffle Packed Dice
	X Ceramic Pin Grid Array
	Y Cerdip, 0.6"
	Z CLLCC

Package	Temperature Range
A Plastic Pin Grid Array	Blank Commercial
B Ceramic SDBRZD DIP, 0.9"	M Mil Temperature
C CLLCC	CB Commercial Burned-In
D Cerdip, 0.6"	MB Mil Std 883B
F Ceramic Flatpack	
G Ceramic Pin Grid Array	
H Ceramic Flatpack	
J PLDCC	
K Cerdip, 0.6"	
L CLDCC	
M Plastic DIP, 0.9"	
P Plastic DIP, 0.6"	
S Plastic Dip, 0.3"	
T Cerdip, 0.3"	
W Waffle Packed Dice	
X Ceramic Pin Grid Array	
Y Cerdip, 0.6"	
Z CLLCC	

Prefix	Device	Suffix
WS57	65261	D (Blank)
Family		
Device No.		
Package		
Temperature		

WESTERN DESIGN CENTER



Package	Temperature Range
P Plastic	Blank 0°C to $+70^{\circ}\text{C}$
C Ceramic	I -40°C to $+85^{\circ}\text{C}$
D Cerdip	M -55°C to $+125^{\circ}\text{C}$
E Leadless Chip Carrer	
X Dice	
Performance	
4 4 MHz	
6 6 MHz	
8 8 MHz	

Prefix	Device	Suffix
W	65C816	P I -4
Family		
Package		
Temperature Range		
Performance		

WESTERN DIGITAL

WESTERN DIGITAL CORPORATION

Package (Obsolete)
A 40 Lead DIP-Ceramic
B 40 Lead DIP-Relpak
C 24 Lead DIP-Ceramic
E 28 Lead DIP-Ceramic
F 28 Lead DIP-Relpak
L 18 Lead DIP-Ceramic
M 18 Lead DIP-Plastic (Totally Encapsulated)

Prefix	Device	Suffix
WD	1943	M 00
Package		
Special Parameter		

Manufacturer Device Identification	Part Number		Example		
	Prefix		Suffix		
WESTERN DIGITAL (continued)	P	40 Lead DIP—Plastic (Totally Encapsulated)		Prefix	Device
	R	28 Lead DIP-Plastic (Totally Encapsulated)		WD	1943
	T	48 Lead DIP-Ceramic			M 00
	U	20 Lead DIP-Ceramic		Package	
	V	20 Lead DIP-Plastic (Totally Encapsulated)		Special Parameter	
	X	Ceramic Kit			
	Y	Plastic Kit			
	Package (Current)				
	A	Ceramic Side Braze			
	C	Cerdip			
	P	Plastic (Encap)			
	D	Ceramic Chip	H	Plastic Chip	
		Carrier-Leadless		Carrier-Leadless	
	G	Ceramic-Chip	J	Plastic Chip	
		Carrier-Leaded		Carrier-Leaded	
Lead Count					
A	< 14 Lead	H	28 Lead		
B	14 Lead	L	40 Lead		
C	16 Lead	M	44 Lead		
D	18 Lead	N	48 Lead		
E	20 Lead	S	64 Lead		
F	22 Lead	T	68 Lead		
G	24 Lead	Z	Kit		

XICOR



X Xicor

Package

D Ceramic DIP
E Ceramic DIP Die
J Plastic LDCC
P Plastic DIP

Temperature Range

Blank 0 to 70°C
I -40 to 85°C
M -50 to 125°C

Processing Technology

Blank NMOS
C CMOS

Speed

20 200 ns
25 250 ns
Blank 300 ns
35 250 ns
45 450 ns

Processing Level

Blank Standard
B Class B

Endurance

Blank 1000 Data Changes/Bit
/5 5000 Data Changes/Bit
/10 10000 Data Changes/Bit

E²PROMs

Prefix	Device	Suffix
X	28C256 D	M B -35

Process Technology

Package

Temperature Range

Processing Level

Access Time

Serial E²PROMs

Prefix	Device	Suffix
X	24C04	D M B

Package

Temperature Range

Processing Level

NOVRAMs

Prefix	Device	Suffix
X	2212 D M B	/10-35

Package

Temperature Range

Processing Level

Endurance

Access Time

Serial NOVRAMs

Prefix	Device	Suffix
X	2444	D M /10

Package

Temperature Range

Endurance

IC MASTER

Manufacturer Device Identification	Prefix	Part Number	Suffix	Example																		
XILINX	XC	XILINX	Temperature Range C Commercial (0°C to 70°C) I Industrial (-40°C to 85°C) M Military (-55°C to 125°C) B MIL-STD-883, Class B	<table><tr><th>Prefix</th><th>Device</th><th>Suffix</th></tr><tr><td>XC</td><td>2064- 70</td><td>PC 68 C</td></tr><tr><td>Toggle Rate</td><td></td><td></td></tr><tr><td>Package</td><td></td><td></td></tr><tr><td>No. of Pins</td><td></td><td></td></tr><tr><td>Temperature Range</td><td></td><td></td></tr></table>	Prefix	Device	Suffix	XC	2064- 70	PC 68 C	Toggle Rate			Package			No. of Pins			Temperature Range		
Prefix	Device	Suffix																				
XC	2064- 70	PC 68 C																				
Toggle Rate																						
Package																						
No. of Pins																						
Temperature Range																						

ZILOG
Zilog
an affiliate of
EXON Corporation

Z Zilog

Environmental Preferred
C Plastic Standard
E Hermetic Standard
F Protopack Standard

Longer Lead Time
A Hermetic Stressed
B 833 Class B Military
D Plastic Stressed
J JAN 38510 Military

Package Preferred
D Cerdip
P Plastic
V Plastic Chip Carrier

Longer Lead Time
C Ceramic
F Plastic Quad Flat Pack
G Ceramic PGA (Pin Grid Array)
L Ceramic LCC
Q Ceramic Quad-in-Line
R Protopack
T Low Profile Protopack

Temperature Preferred
S 0°C to +70°C

Longer Lead Time
E -40°C to +85°C
M -55°C to +125°C

Prefix	Device	Suffix
Z	80320 08	V S C RXXX
Speed		
Package		
Temperature		
Environmental Flow		
ROM Mask Number		

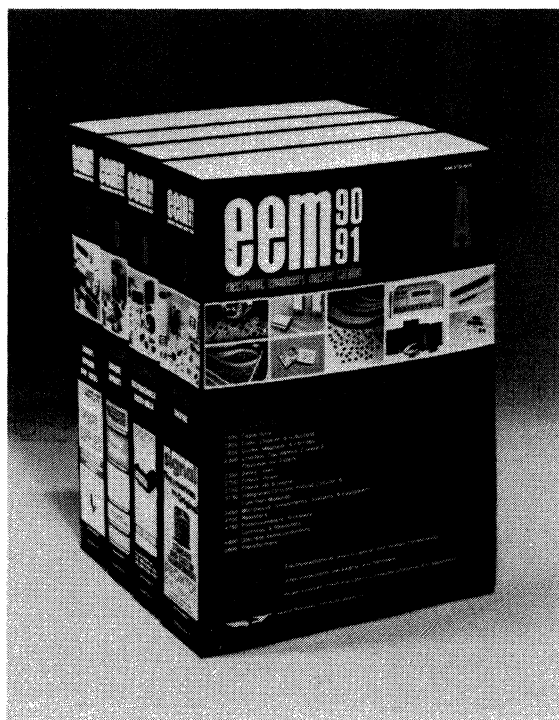
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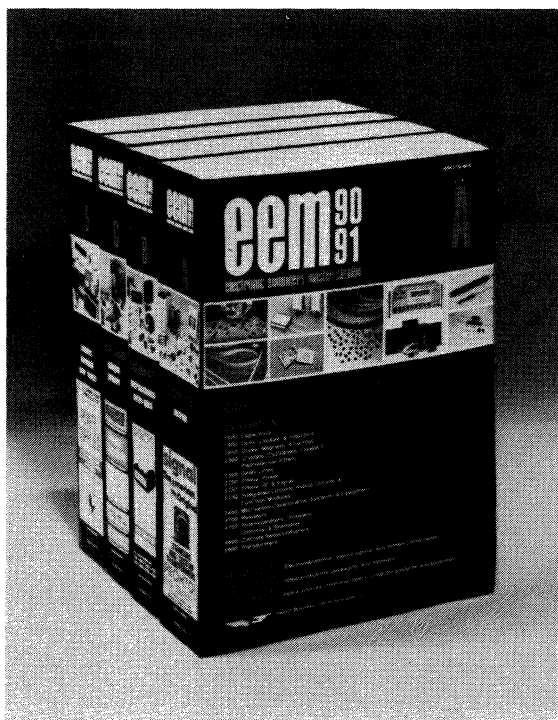
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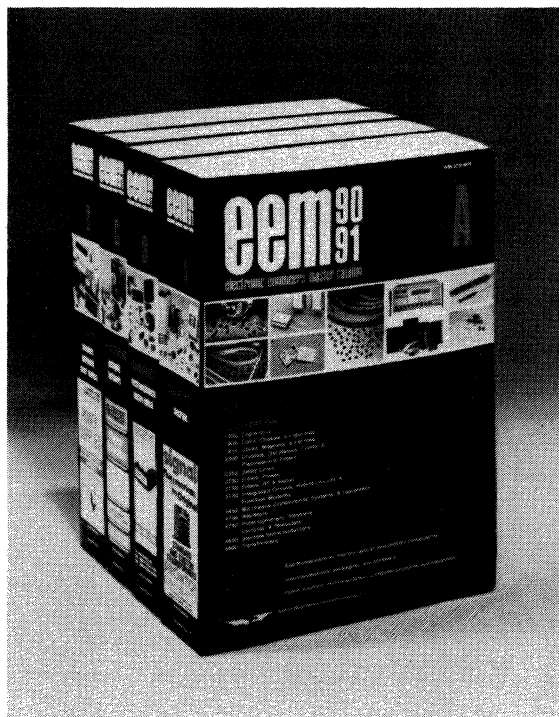
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This Index shows the page and line where each device appears in the Master Selection Guide.

The Index is arranged in alphanumeric sequence, ignoring the manufacturers' prefixes and suffixes and using the basic part numbers.

The numbers are sequenced by reading the digits from left to right, assuming that letters come before numbers. (As an example, these numbers would appear in the following order: 5301, 531, 54LS01, 54139, 555.)

After each base number, manufacturers' names and full part numbers are listed. This arrangement allows you to find a device whether or not you know the name of the manufacturer or the manufacturer's prefixes. The page references in **BOLD FACE** lead to manufacturers' data pages in Volumes Two and Three.

This is an Index of all parts with identical basic part numbers, regardless of their function. **It is not an Alternate Source Directory.**

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		M054	722-17								† 2930-27		NJR	NJM074	* 3570	
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055	SGS-Thomson					TL062BC	766-25				† 2930-27			TL074BC	777-13	
		M055	722-18			TL062C	772-19				† 2930-30			TL074C	779-23	
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			579-138			TL062M	769-29				729-23			TL074M	777-8	
0551	Hughes	HC0551	221-25		TI	TL062AC	769-30				730-24		Solitron	CJSE074	789-41	
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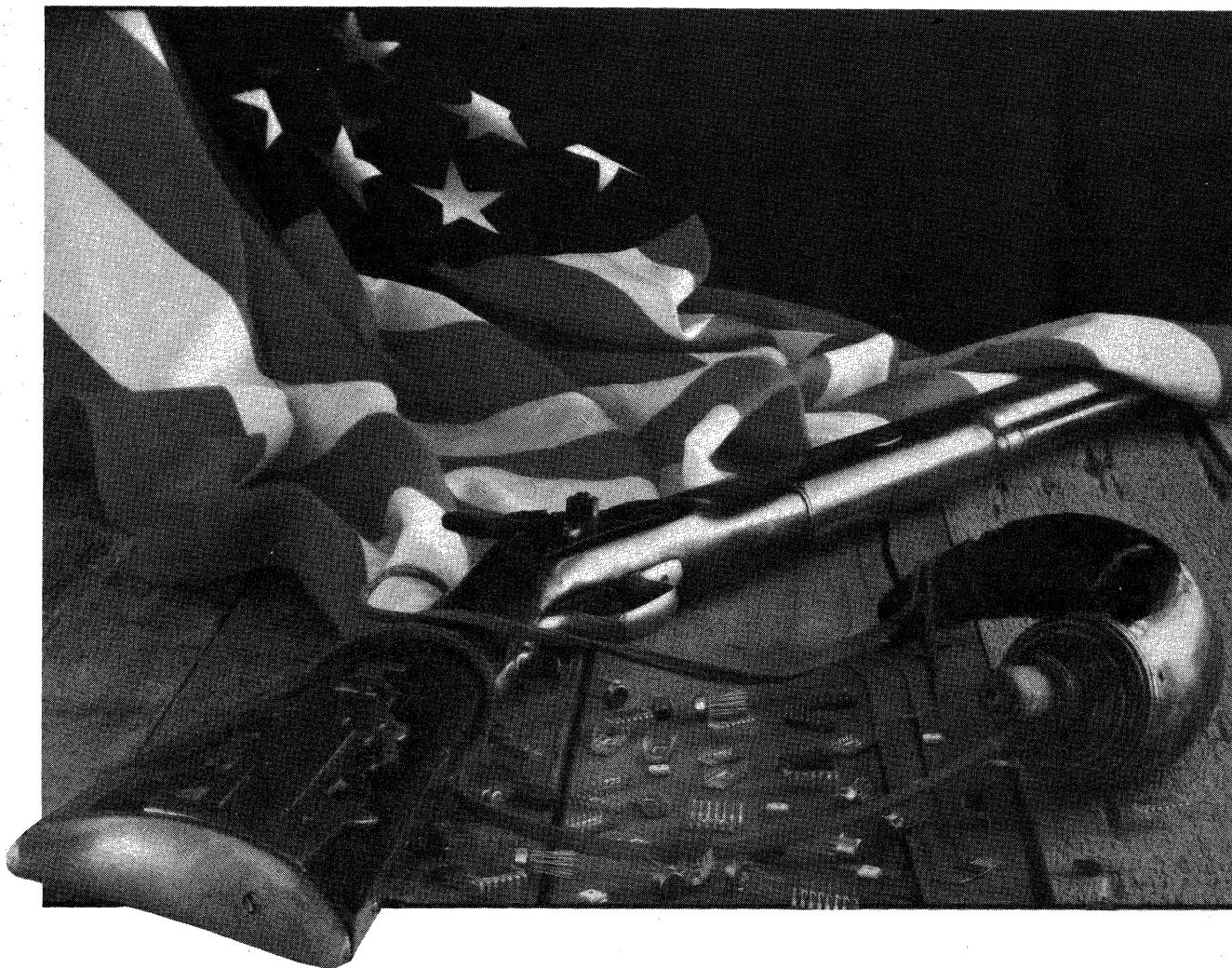
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You'll see many old friends on our product list. Like Harris' 0512 Bipolar Prom, Signetics DTL and TTL. Motorola's SUHL-TTL and others. And we can meet all your needs, even to the most exacting military standards.

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So don't go to the expense of designing-in a new part. Not when we still mak'em.

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See pages 2805 to 2810 in Volume 2

ALTERNATE SOURCE DIRECTORY

The Alternate Source Directory is an industry-wide cross reference of devices that manufacturers claim are pin-for-pin and functional equivalents to IC's made by other firms. It contains over 160,000 cross references.

The second column of this Alternate Source Directory shows devices that are replacements for those in the first column. Devices listed in **BOLD FACE** type have technical data in the Master Selection Guides. This information begins on the page listed to the right of the **BOLD FACE** part numbers. Products preceded by a ♦ have been discontinued by the manufacturer. This section does include discontinued devices that are not listed in the Master Selection Guides; in order to maintain this list within some reasonable bounds, the A and B suffixes indicating improved versions generally have been dropped.

One of the difficulties with any cross reference is that devices meant to be alternates do not necessarily perform the same in all circuits. Thus, it will be necessary for you to check specifications, or even check circuit performance before deciding which alternates are right for you. But if you do not find the devices you need here, it may be possible to find additional alternates by locating the device in the Master Selection Guides. Particularly for digital circuits, the other products grouped with it will normally offer similar or identical performance.

◆ **Discontinued**

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U.S. AIR FORCE AIRPORT

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Advanced Micro Devices (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
• AM2130	IDT	IDT7130		AM2168	Sony	CXK5416P/K		AM27C1024	Catalyst			AM27S07	Cypress	CY27S07	
	Mosel	MS6130			Toshiba	TMM2068AP			Semi	CAT27C210			National	CY7C190	
• AM2132	VLSI Tech	VT2130		• AM2169	AMD	AM2168			Dense-Pac	DPV27C1024A				DM75S07	
	Fujitsu	MB7132			Fujitsu	MB81C68A			Fujitsu	MBM27C1024		• AM27S11	Signetics	54F219	
	Mosel	MS6132			Hitachi	HM6168HP			Hitachi	HN27C1024			AMD	74F219A	
• AM2141	Vitellic	V61C32		• AM2169	IDT	HM6268L				HN27C1024G				AM27S21	
	Cypress	CY7C147				IDT6168A			Krueger	27C210		• AM27S11	Fujitsu	MB7114	
	Harris	HM6504				IDT6168L			Microchip	27C1024			National	DM74S287	
	Hitachi	HM4315				IDT6168LA			National	μPD27C1024			Signetics	N82S129A	
	Intel	5104				IDT6168S			NEC	NMC27C1024				S82S129	
	Mitsubishi	M58981		• AM2169	Intel	51C68			OKI	MSM27C1024		• AM27S12	Fujitsu	S82S5129	
	National	NMC6504			LogicDev	L7C168			SGS-Thomson	M27C1024			National	MB7115	
	OKI	MSM5104			Mitsubishi	M5M21C68P				27C1024			Signetics	DM74S570	
	Rockwell	R6504			Motorola	MCM6168			Signetics	27C210		AM27S13	Harris	N82S130	
	Cypress	CY2147			NEC	μPD4314			ATMEL	AT27C128			Lansdale	ICL7621	
		CY7C147			Ricoh	PS6168			Krueger	27128-200 (3513)			Maxim	ICL7621	
		MBM2147			SGS-Thomson					27128-250 (3513)			MicroPwr	MP7621	
		M2147H				IMS1423				27128-300 (3513)			National	DM74S571A	
		2147		• AM2169	Sony	CXK5416P/K				27128A-450 (3513)				N82S131	
		2147H			Toshiba	TMM2068AP			National	NMC27128		• AM27S18	Fujitsu	S82S131	
		2147H			VLSI Tech	VT2069			OKI	MSM27128			National	MB7111	
		2147-35 (3513)		AM25LS2521	TI	SN74LS688			SGS-Thomson	M27128		• AM27S180	National	DM74S188	
		2147-45 (3513)		AM25S10	TI	SN74S350			Sharp	LH57128				DM87S180	
		2147-55 (3513)		• AM25S557	AMD	AM25S558			ATMEL	AT27C256				DM87S229	
		2147-70 (3513)			LogicDev	LMU557			Intel	M27C256		AM27S181	Cypress	CY7C282M	
						LMU558			Microchip	27256			Gould AMI	S25089	
				AM25S558	LogicDev	LMU557			National	NMC27C256			Hitachi	HN25089	
						LMU558			SEEQ	27256			Lansdale	HL7681	
				AM26LS30	Signetics	AM26LS30			SGS-Thomson	M27C256B			National	DM77LS181	
				AM26LS31	AMD	26LS31				27C256				DM77S181	
					Motorola	AM26LS31			Signetics	SMJ27C256				DM77S281	
					National	μA26LS31			TI	WS27C256				DM87S181	
						DS26LS31			Waferscale	WS27C256				DM87S281	
					Signetics	AM26LS31				WS57C256				932451	
				AM26LS32	TI	AM26LS31			ATMEL	AT27C512			Raytheon	29631	
					AMD	AM26LS32A			Intel	MD27C512				29631AM	
						26LS32			Microchip	27C512			Signetics	N82S181	
					AT&T	41LF			TI	SMJ27C512				S82S181	
					Motorola	AM26LS32			Waferscale	WS27C512L			STC	STC5089	
					National	μA26LS32			Intel	P2764A		• AM27S181M	AMD	28586-60	
						DM26LS32				2764A			Cypress	AM27S181	
					TI	DS26LS32			• AM27C64	2764A			Gould AMI	CY7C282M	
						AM26LS32A			Krueger	MSM2764A			Hitachi	HN25089	
						AM26LS32AM			OKI	MSM2764A			Lansdale	HL7681	
				AM26LS32A	AMD	AM26LS32			SGS-Thomson	M2764A			National	DM77LS181	
						26LS32				AM27S03		• AM27S181M	Raytheon	DM77S181	
					AT&T	41LF			AMD	AM27S03				DM77S181	
					Motorola	AM26LS32				AM27S03M		• AM27S181M	Signetics	DM77S281	
					National	μA26LS32			Cypress	CY27S03				DM87S181	
						DM26LS32				CY7C189				DM87S281	
						DS26LS32				CY74S189			STC	932451	
					TI	AM26LS32A				DM74S189		• AM27S181M	TI	29631	
						DS26LS33M				DM7599			Signetics	29631AM	
				AM26LS33	National	AM26LS33A				DM8599		• AM27S181M		N82S181	
					TI	AM26LS33A				54F189				S82S181	
						AM26LS33AM				DM54S188		• AM27S181M	STC	STC5089	
				AM26S10	Motorola	MC26S10			• AM27LS18	DM7577			TI	28586-60	
					National	DS26S10				AM27S19		AM27S185	AMD	27S185	
						DS26S10				27S19			Fujitsu	MB7128	
				AM26S11	National	DS26S11				MB7112			Hitachi	HN25085	
					TI	AM26S11				HL7603			Lansdale	HL7685	
				AM27C010	ATMEL	AT27C010				DM74S288			National	DM87S185	
						AT27C1024				DM8578			Raytheon	29651	
					Catalyst	CAT27C210				N82S123				29651A	
					Semi	CAT27010				82S123			Signetics	N82S185	
						MBM27C1001				AM27S43		AM27S19	TI	S82S185	
					Fujitsu	HN27C010			• AM27PS43	AM27S43A				24S81-55	
					Hitachi	HN27C010G				27S43			AMD	AM27LS19	
						HN27C101				MB7142				27S19	
						HN27C101G			• AM27PS43	27CX321			Fujitsu	MB7112	
						HN27C301G				HL7603			Lansdale	HL7603	
						27010				HL76321			National	DM74S288	
						27210				DM77S321				DM8578	
						27C210				R29671D			Signetics	N82S123	
					Krueger	27C210				29671				N82US123	
					Mitsubishi	M5M27C101K				29671A				82S123	
						M5M27C102			• AM27PS43	N82H321		• AM27S190	Hitachi	HN25168	
						M5M27C102K				WS57C43B			National	DM77S190	
						NMC27C010				AM27LS03				DM87S190	
					National	μPD27C1001A				SN74S189		• AM27S190	Waferscale	WS57C291B	
					NEC	SMM63100			AM27S03	CY27LS03M		• AM27S191	AMD	AM27S291	
					S-MOS	TC571001				CY7C189				AM27S291A	
					Toshiba	WS27C010L				CY74S189				AM27S291SA	
					Waferscale	27C020				DM74S189			Cypress	CY7C291	
				AM27C020	Intel	M5M27C201K				DM7599			Fujitsu	MB7138	
					Mitsubishi	μPD27C2001				DM8599			Motorola	MCM76	
					NEC	AT27C1024				54F189			National	DM878291	
				AM27C1024	ATMEL	AT27HC1024								932511	

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Advanced Micro Devices (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
AM27S191	Raytheon TI	29683A	(Cont'd)	AM27S25A	Cypress	CY21L49	(Cont'd)	AM27S35	Motorola	MCM27S35	(Cont'd)	AM27S51	Signetics	N82S195	(Cont'd)
		TBP38A166			Motorola	CY7C225			National	DM87SR181		AM27S51A	Cypress	S82S195	
	Waferscale	TBP38S166	(Cont'd)		National	MCM27S25	(Cont'd)	AM27S37	AMD	AM27S35	(Cont'd)	AM27S51A	Signetics	CY7C253	(Cont'd)
		WS57C191				DM77SR25			Cypress	CY7C235		AM27S51A	Signetics	N82S195	
AM27S191A	AMD	WS57C291B	(Cont'd)			DM77SR25B	(Cont'd)	AM27S41	Motorola	MCM27S35	(Cont'd)	AM27010	AMD	S82S195	(Cont'd)
		AM27S191				DM77SR476			National	DM87SR181		AM27010	ATMEL	AT27C010	
		AM27S191SA	(Cont'd)			DM77SR476B	(Cont'd)		AMD	AM27S41A	(Cont'd)			AT27C010A	(Cont'd)
		27S191				DM87SR25			Fujitsu	27S41					
		AT28HC191	(Cont'd)	AM27S255A	AMD	DM87SR476	(Cont'd)		National	MB7152	(Cont'd)	AM27010	Catalyst	CAT27C210	(Cont'd)
		AT28HC191L				DM87SR476			Signetics	DM77S195		AM27010	Semi	CAT27010	
		CY7C291	(Cont'd)			DM87SR476	(Cont'd)			DM87S195	(Cont'd)	AM27010	Fujitsu	MBM27C1001	(Cont'd)
		CY7C292		AM27S255A	Cypress	AM27S25A	(Cont'd)	AM27S41A	TI	82HS195		AM27010	Hitachi	HN27C010	
		CY7C292A	(Cont'd)			CY21L49			AMD	TBP34S162	(Cont'd)			HN27C010G	
		CY7C292AL		AM27S255A	Motorola	MCM27S25	(Cont'd)		Fujitsu	AM27S41		(Cont'd)	AM27010		HN27C101G
		HN25169	(Cont'd)		National	CY7C225			National	27S41			Intel	HN27C301G	
		MCM76101		(Cont'd)			MCM27S25	(Cont'd)		MB7152	(Cont'd)	AM27010		27010	(Cont'd)
		MCM76160				DM77SR25			Signetics	DM77S195		AM27010		Krueger	
		DM77S191	(Cont'd)			DM77SR476	(Cont'd)		N82HS195	(Cont'd)	AM27010	Mitsubishi	27C210	(Cont'd)	
		DM87S191				DM77SR476B					N82HS195A	AM27010			
		DM87S291	(Cont'd)			DM87SR25	(Cont'd)		82HS195	(Cont'd)			M5M27C102K	(Cont'd)	
		DM87S291A				DM87SR25B			TI		TBP34S162	AM27010			National
		DM87S291B	(Cont'd)			DM87SR476	(Cont'd)	AM27S43	AMD	AM27S43A	(Cont'd)		NEC	μPD27C1001A	(Cont'd)
		93Z510				DM87SR476				27S43					
		93Z511	(Cont'd)	AM27S281	Cypress	DM87SR476B	(Cont'd)		Fujitsu	MB7142	(Cont'd)		Toshiba	WS27C010L	(Cont'd)
		93Z512		AM27S29	Fujitsu	CY7C281			ICT	27CX321			TI	SMJ27C128	
		93Z511	(Cont'd)		National	MB7124	(Cont'd)		Lansdale	HL76321	(Cont'd)	AM27128	Intel	M27128	(Cont'd)
		N82S191			Raytheon	DM74S472			National	DM77S321			Raytheon	SEEQ	
		N82S191A	(Cont'd)		Signetics	N82S147	(Cont'd)			29671	(Cont'd)	AM27128		P27128	(Cont'd)
		82S191				N82S147A		(Cont'd)		Signetics		29671A		TI	
		TBP38L166	(Cont'd)	AM27S291	AMD	S82S147	(Cont'd)			Waferscale	N82H321	(Cont'd)	AM2716	Harris	HM6617
		TMS27C291				AM27S191			AMD	WS57C43B	AM2716		Krueger	2716-350	
		TMS27C292	(Cont'd)		AM27S291A	(Cont'd)	AM27S43A	AMD	AM27S43			2716-450		2716T-350	(Cont'd)
		WS57C191					AM27S291SA			27S43			2716T-450		
AM27S191SA	AMD	WS57C291B	(Cont'd)			CY7C291	(Cont'd)		Fujitsu	MB7142	(Cont'd)	AM2716	National	MM2716	(Cont'd)
		AM27S191				MB7138			ICT	27CX321			OKI	MSM2716	
		AM27S191A	(Cont'd)			MCM76	(Cont'd)		Lansdale	HL76321	(Cont'd)		SGS-Thomson	M2716	(Cont'd)
		27S191				DM878291			National	DM77S321			AMD	AM27S185	
		AT28HC191	(Cont'd)			93Z511	(Cont'd)		Raytheon	R29671D	(Cont'd)	AM2725S291	AMD	AM27S185	(Cont'd)
		AT28HC191L				29683A				29671				27S185	
		CY7C291	(Cont'd)			TBP38A166	(Cont'd)			29671A	(Cont'd)	AM2725S291	Fujitsu	MB7128	(Cont'd)
		CY7C292				TBP38S166			Signetics	N82H321			Hitachi	HN25085	
		CY7C292A	(Cont'd)			WS57C191	(Cont'd)	AM27S45	Waferscale	WS57C43B	(Cont'd)		Lansdale	HL7685	(Cont'd)
		CY7C292AL				WS57C291B			AMD	AM27S45A			National	DM87S185	
		HN25169	(Cont'd)	AM27S291A	AMD	AM27S191	(Cont'd)			AM27S47	(Cont'd)		Raytheon	29651	(Cont'd)
		MCM76101				AM27S291			Cypress	CY7C245				29651A	
		MCM76160	(Cont'd)			AM27S291SA	(Cont'd)		Fujitsu	MB7238	(Cont'd)	AM2725S291	Signetics	N82S185	(Cont'd)
		DM77S191				CY7C291			Waferscale	WS57C45				S82S185	
		DM87S191	(Cont'd)			MB7138	(Cont'd)	AM27S45A	AMD	AM27S45	(Cont'd)	AM2725S291	TI	24S81-55	(Cont'd)
		DM87S291				MCM76				AM27S47				ATMEL	
		DM87S291A	(Cont'd)			DM878291	(Cont'd)		Cypress	CY7C245	(Cont'd)	AM27256	Catalyst		(Cont'd)
		DM87S291B				93Z511			Fujitsu	MB7238			Rsch	27256	
		93Z510	(Cont'd)			29683A	(Cont'd)	AM27S455A	Waferscale	WS57C45	(Cont'd)		Intel	M27256	(Cont'd)
		93Z511				TBP38A166				CY7C245			Intel	P27257	
		93Z512	(Cont'd)			TBP38S166	(Cont'd)			CY7C245A	(Cont'd)			27257	(Cont'd)
		93Z511				WS57C191			AM27S47	AMD		AM27S45		AM27256	
		N82S191	(Cont'd)			WS57C291B	(Cont'd)			AM27S45A	(Cont'd)			27256-250	(Cont'd)
		N82S191A				AM27S191			Cypress	CY7C245				27256-300	
		82S191	(Cont'd)	AM27S291SA	AMD	AM27S291	(Cont'd)		Fujitsu	MB7238	(Cont'd)	AM27256	Mitsubishi	MSL27256	(Cont'd)
		TBP38L166				AM27S291A			Waferscale	WS57C45				M5M27256	
		TMS27C291	(Cont'd)			CY7C291	(Cont'd)	AM27S49	AMD	27S49	(Cont'd)	AM27256		MCM67256	(Cont'd)
		TMS27C292				MB7138				ATMEL		AT27HC641		OKI	
		WS57C191	(Cont'd)			MCM76	(Cont'd)			AT27HC642	(Cont'd)		SGS-Thomson	M27256	(Cont'd)
AM27S20	National	WS57C291B				DM878291			Cypress	CY7C261					
	Signetics	DM54S387	(Cont'd)			93Z511	(Cont'd)			CY7C263	(Cont'd)		Sharp	LH57256	(Cont'd)
		N82S126				29683A				CY7C264			TI	TMS27C256	
		S82S126	(Cont'd)			TBP38A166	(Cont'd)			MBM7144	(Cont'd)	AM27256-2	Toshiba	TC57H256	(Cont'd)
AM27S21	AMD	27S21				TBP38S166			Fujitsu	MB7144					
	Fujitsu	MB7114	(Cont'd)			WS57C191	(Cont'd)			MB7144E	(Cont'd)		SGS-Thomson	M27256-2	(Cont'd)
	National	DM74S287				WS57C291B			ICT	27CX641				M27256-2	
	Signetics	N82S129A	(Cont'd)	AM27S30	Lansdale	HL7640	(Cont'd)		Microchip	27HC641	(Cont'd)	AM27256-20	Intel	27256-20	(Cont'd)
		S82S129				DM74S475			National	32Z565					
		S82S129	(Cont'd)			DM77S475	(Cont'd)			93Z665	(Cont'd)		SGS-Thomson	M27256-20	(Cont'd)
AM27S25	AMD	AM21L49				DM87S475				93Z665C					
		AM27S25A	(Cont'd)			DM87S475	(Cont'd)			93Z667C	(Cont'd)	AM27256-3	SGS-Thomson	M27256-3	(Cont'd)
		CY21L49				DM74S474				93Z667C					
		CY7C225	(Cont'd)	AM27S31	Harris	N82S141	(Cont'd)		NEC	μPD27HC65	(Cont'd)	AM2732	Intel	M2732	(Cont'd)
		MCM27S25			National	S82S141				Sharp		LH5749			
		DM77SR25	(Cont'd)	AM27S32	Lansdale	HL7642	(Cont'd)			LH5749J	(Cont'd)	AM2732	Krueger	2732A	(Cont'd)
		DM77SR25B				DM54S572						N82HS641			
		DM77SR476	(Cont'd)			93452	(Cont'd)		Signetics	27HC641	(Cont'd)			2732-300	(Cont'd)
		DM77SR476B				DM87S475						27HC642			
		DM87SR25	(Cont'd)	AM27S33	Fujitsu	MB7122	(Cont'd)			82HS641	(Cont'd)			2732A-250	(Cont'd)
		DM87SR25B				HL7643				SiliconSys		SI2203			
		DM87SR474	(Cont'd)	AM27S33M	National	DM74S573	(Cont'd)		TI	TMS278C49	(Cont'd)			2732A-350	(Cont'd)
		DM87SR476				MCM7643M			Waferscale	WS57C49					
		DM87SR476B	(Cont'd)			DM54S573A	(Cont'd)			WS57C49B	(Cont'd)	AM2732	National	2732A-450	(Cont'd)
AM27S25A	AMD	AM21L49			AM27S35	AMD		AM27S37		AM27S51		Cypress	CY7C253		
		AM27S25	(Continued)		Cypress	CY7C235	(Continued)			CY7C254	(Continued)				(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Advanced Micro Devices (Cont'd)				AM2864A	Hitachi	(Cont'd)		AM29C821A	AMD	AM29C821		AM29116	ICT	27CX322	(Cont'd)
• AM2732	OKI	MSM2732				HN58C64			TI	AM29821			Raytheon	R29671S	
	SGS-Thomson	M2732A				HN58C65				SN74ALS29821		• AM2915	TI	TMS27C292	
	TI	TMS2732A			IDT	HN58064		• AM29C822	TI	SN74BCT29821		AM29203	IDT	IDT39C02	
• AM27512	National	GAL16V8-25LV				IDT7M7864				SN74AS822			IDT	IDT39C03	
	SGS-Thomson	GAL16V8-25HC1			Intel	IDT78C64A		AM29C823A	AMD	SN74BCT29822		• AM29510	IDT	IDT39C203	
• AM27512-25	Intel	27512-25			Microchip	I2864A			TI	AM29823			AD	ADSP1101 (3255)	
	Mitsubishi	27512-25			National	28C64A				AM29823A		• AM29510	Harris	ADSP1110	
	SGS-Thomson	27512-25			OKI	MSM28C64		• AM29C824	AMD	SN74ALS29823			LogicDev	ISP9210	
		M27512-25F1			Samsung	μPD28C64			TI	SN74BCT29823		• AM29510	TRWLSI	LMA1010	
• AM27512-3	Intel	27512-3				MSM28C64				AM29824			VLSI Tech	LMA2010	
	Mitsubishi	27512-3			SEEQ	KM28C64		• AM29C825	AMD	SN74AS824		AM29517	AD	TMC2110	
	SGS-Thomson	M27512-3F1				KM2864A			TI	SN74BCT29824			Cypress	VL2010	
• AM27512-30	Intel	27512-30				DQ2864		• AM29C826	TI	SN74ALS29825			AD	ADSP1017	
	Mitsubishi	M27512-30				DQ2864H				SN74AS825			Cypress	CY7C517	
• AM27518	National	DM54S188				DQ52B33		AM29C833	AMD	SN74BCT29825		• AM29520	Harris	HMU17	
		DM7577				28C64				SN74AS826			LogicDev	LMU17	
• AM2764	ATMEL	AT27HC64			Xicor	2864		• AM29C826	TI	SN74BCT29826			Weitek	WTL2517	
	Intel	M27C64				2864A				AM29C833A		• AM29520	Harris	ISP9520	
	Krueger	27C64-200 (3513)				2865A		AM29C833	AMD	AM29833			IDT	IDT29FCT520A	
		27C64-250 (3513)				X28C64 (3744)				SN74BCT29833		• AM29521	LogicDev	L29C520	
		27C64-300 (3513)				X28C64M (3744)		AM29C833A	AMD	AM29833			Waferscale	WS59520 (3717)	
• AM2764	Microchip	27C64			ATMEL	AT28C64			TI	AM29833			Harris	ISP9521	
	National	NMC27C64				AT28HC64		AM29C841	AMD	SN74BCT29833			LogicDev	IDT29FCT521A	
	OKI	MSM27C64				AT28PC64				AM29834		AM2960	Waferscale	WS59521 (3717)	
	S-MOS	SPM27C64				HL76165			TI	AM29841			IDT	IDT39C60	
	SGS-Thomson	TS27C64A			Lansdale	MCM76165				SN74AS841		AM29705	Signetics	2960	
	Signetics	27C64			Motorola	29653		• AM29C842	TI	SN74BCT29834			AMD	AM2903	
• AM2764	VLSI Tech	VT27C64			Raytheon	KM28C65				SN74BCT29841			Burr-Brown	DAC812	
• AM2764A	Intel	P2764A			Signetics	82HS195		• AM29C843	AMD	SN54ALS29842		AM29818A	IDT	IDT39C705	
		2764A			EXEL	XL2865A			TI	SN74BCT29842		AM29821	AMD	AM29C818	
• AM2764A	Krueger	2764A			Samsung	KM28C65				AM29843			AMD	AM29C821	
	OKI	MSM2764A				KM2865A		• AM29C844	TI	SN54ALS29843			TI	AM29C821A	
	SGS-Thomson	M2764A				KM2865AH				SN74AS843				SN54ALS29821	
• AM28LS32	AMD	AM26LS32			• AM29C101	Cy7C9101		• AM29C845	TI	SN74BCT29843		AM29823	AMD	AM29C823A	
		AM26LS32A				L29C01				SN74AS844				AM29823A	
		26LS32			AM29C116	AM29C116A		• AM29C846	TI	SN74BCT29844			TI	SN54ALS29823	
• AM28LS32	AT&T	41LF				AM29116				SN74AS845				SN74AS821	
	Motorola	μA26LS32				CY7C9116		• AM29C861	TI	SN74BCT29845		AM29823	AMD	SN74BCT29821	
	National	DM26LS32				CY7C9117		• AM29C862	TI	SN74BCT29846				AM29C823A	
		DS26LS32				TMS27C292		• AM29C863	AMD	SN74AS846		AM29823A	AMD	AM29C818	
• AM28LS32	TI	AM26LS32AM			AM29C117	PEEL153 (3442)				SN74BCT29846			AMD	AM29C821	
• AM2812	Plessey	MP3812				PEEL153		• AM29C864	TI	SN74BCT29846			TI	SN54ALS29821	
• AM2813	Plessey	MJ2813			• AM29C509	ADSP1009		• AM29C865	AMD	AM29C116		• AM29826	TI	SN74AS826	
• AM2817A	ATMEL	AT28C16				LMA1009				AM29C116A				SN74BCT29826	
		AT28C17				LMA2009		• AM29L116A	AMD	AM29116		AM29833	AMD	AM29C833A	
		AT28HC16				TDC1009				CY7C9116				AM29C833	
• AM2817A	Catalyst	28C17			• AM29C509	TRWLSI		• AM29L116A	Cypress	CY7C9117			TI	AM29C833A	
	Rsch					TMC2009				CY7C9117		AM29834	AMD	AM29C841	
	Catalyst				• AM29C510	TMC2109		• AM29L116A	ICT	27CX322				AM29841	
	Semi	CAT28C16A				ADSP1110		• AM29L510	Raytheon	R29671S			TI	SN74AS841	
• AM2817A	EXEL	CAT28C17A			• AM29C510	ISP9210			TI	TMS27C292		• AM29844	TI	SN74BCT29834	
	Microchip	XL2817A				LMA1010		• AM29L510	AD	ADSP1010				SN74BCT29841	
	National	28C17A				LMA2010				ADSP1010A (3255)		AM29841	AMD	AM29C841	
		NMC9817			• AM29C510	TMC2110				CY7C510				AM29834	
		NM9817				VL2010		• AM29L510	Cypress	HMA510			TI	SN74AS841	
• AM2817A	OKI	MSM2816			• AM29C510	ADSP1016			Intel	IM29C510				SN74BCT29844	
	Samsung	KM2817A				CY7C516		• AM29L510	TRWLSI	TMC2210				SN74BCT29845	
	SEEQ	DQ2817A			AM29C516A	HMU16			Waferscale	WS59510 (3717)		• AM29842	TI	SN74AS846	
		2817A				LMU16				WTL1010				SN74BCT29846	
• AM2833	Micrel	MIC2833				LMU216		• AM29L510	Weitek	WTL1010		AM29853	AMD	AM29C853	
• AM2841	Cypress	CY3341				SN741616				WTL2010				AM29C843	
	Lansdale	NL3341				MPY016K		• AM2901	Cypress	CY2901			TI	SN54ALS29843	
	National	CY3341AC				TMC216H				CY7C901		• AM29844	TI	SN74BCT29843	
		3341				WTL1016		• AM2901	IDT	IDT39C01				SN74AS845	
• AM2841	Plessey	MJ2841				WTL1516		AM2903	AMD	AM29705		• AM29845	TI	SN74BCT29844	
• AM2847	National	F2847				WTL2516				DAC812				SN74AS845	
• AM2855	Micrel	MIC2855			• AM29C517	CY7C517				IDT39C705		• AM29846	TI	SN74BCT29845	
AM2864A	AMD	AM9864				HMU17		• AM2909	Cypress	CY2909				SN74AS846	
	ATMEL	AT28C64				LMU17				CY7C909				SN74BCT29846	
		AT28HC64				LMU217		AM2910A	Cypress	CY7C910		AM29853	AMD	AM29C853	
		AT28PC64				WTL1517				IDT39C10				AM29C853A	
		AT2864				WTL2517				WS5910A (3717)		• AM29854	TI	SN74BCT29853	
	Catalyst	CAT28C64A				WTL9517		• AM2911	Cypress	CY2911				SN74BCT29854	
	Semi	CAT28C65A			AM29C818	AM29818A				CY7C911		• AM29861	AMD	SN74BCT29861	
		XL2864A			AM29C821	AM29C821A		AM29116	AMD	AM29C116			TI	SN74BCT29862	
	EXEL	XL2864A				SN54ALS29821				AM29C116A		• AM29862	TI	AM29C863	
	Fujitsu	MBM28C64				SN74AS821				CY7C9116		AM29863	AMD	SN74BCT29863	
	Hitachi	HM58064				SN74BCT29821				CY7C9117		• AM29864	TI	SN74BCT29864	

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Advanced Micro Devices (Cont'd)				AM67C4502 (Cont'd)				AM8212				AM9128 (Cont'd)			
♦ AM3341	Cypress Lansdale National	CY3341			Dallas IDT	DS2010		AM8237A	Intel Lansdale OKI	8212		AM9150	UMC VLSI Tech	UM23128	
		NL3341	IDT7202				IL8212				VT23128				
		CY3341AC 3341	IDT7202A IDT7202LA IDT7202SA				MSM82C12				VT23129 VT23129A VT23130 VT23138				
♦ AM3341	Plessey	MJ2841			MicronTech	MT52C9010		Intel	Harris	CP82C37A		AM9212B	Cypress Hitachi	CY7C150	
		AV8580	MS7202A				82C37A				HM6148				
♦ AM53C80	Avasem LogicDev NCR	L53C80			Plessey	MV61901				8237		Performance	P4C150		
		NCR53C80	KM75C02				8237A-4				SSM2150				
♦ AM53C80	Samsung	53C80			Samsung	KM75C02A		Mitsubishi		8237A-5		UMC	UM2148		
		K53C80	SSL7202				M5M82C37A				VT20C50				
♦ AM5380	Zilog LogicDev	Z0538010			Saratoga Sharp	LH5497		NEC		μPD71037		Gould AMI	S23128		
		L53C80	SN74ACT7202				μPD8237A				RO9128				
♦ AM5380	National NCR	L5380			Vitellic	TACT7202		Newbridge	OKI	CA82C37A (3569)		NCR	NCR23128		
		TP5380	V61C02				MSM82C37A				Signetics		23128		
♦ AM5380	NCR	NCR53C80			National	AD790 (3239)		Samsung	S-MOS	SMC82C37A		UMC	UM23128		
		NCR5380	LM161				KS82C37A				VLSI Tech		VT23128		
♦ AM5380	NCR	NCR5380				LM260				KS8237A					
		NMOS5380	LM261				TMP82C37								
♦ AM5380	Newbridge Samsung	CA53C80 (3569)				LM263		Toshiba	VLSI Tech	VL82C37A					
		K553C80	NE5105												
♦ AM592	Adv Analog Motorola	A733				NE527		♦ AM90C256	SGS-Thomson			AM92128	AMD	AM9128	
		MC1733	NE527												
♦ AM592	National	NE592			VTC	SE5105		Vitellic		MK45H56		Gould AMI	S23128		
		μA733	VA7696				V51C257				Microchip		RO9128		
♦ AM592	Signetics	LM733		♦ AM688 AM7200	AD	AD9688		Lansdale National		ML5404 (3514)		NCR	NCR23128		
		μA733	IDT7200				DM5404				Signetics		23128		
♦ AM592	Signetics	NE592			IDT	MS7200				DM9016C		UMC	UM23128		
		SE592	Mosel				5404				VLSI Tech		VT23128		
♦ AM592	SiliconG TI	SG1401 (3643)			Sharp	LH5495		AM9044	National	9016					
		μA733	AMD			AM67C4501				NMC5257A					
						67C4501		AM91C65	LogicDev	TC55417		AM9218	AD	ADG506A (3237)	
		NE592	Dallas			DS2009				L7C164				Cypress	CY6116
					IDT	IDT7201		AM91C65	Toshiba	L7C165		EDI	ED18802		
		NE592-8				IDT7201A				TC55417			Harris	DG506A	
						IDT7201LA		AM91C65	Vitellic	HA5101		AM9218	Hitachi	HM65162	
		SE592				IDT7201SA				V61C62				HM6716	
						MT52C9005		AM91L01	Harris	5101		AM9218	IDT	IDT6116	
		DAC312				MK4501				MicroNet	MNS101				IDT6116A
						KM75C01A		AM91L01	MicroNet	M5L5101		AM9218	Intel	81C28	
		PM6012				SN74ACT7201				Mitsubishi	MCM51L01				LogicDev
						MT52C9010		AM91L01	Harris	MCM145101		AM9218	MotoronTech	MT51C1608	
		μPC6012				LH5496				Motorola	MM74C920				Motorola
						SSL7201		AM9101	National	MM74C920		AM9218	Performance	P4C116	
		ZN6012				TACT7201				Panasonic	MNS101				Saratoga
						AM67C4502		AM9101	Sharp	LH5101		AM9218	Sony	CKX5814P	
		AM6012				V61C01				HA5101				Toshiba	TC2018
						67C4502		AM9102	MicroNet	5101		AM9218	UMC	UM6116-35 (3688)	
		DAC86				DS2010				M5L5101				Vitellic	V16C16
						IDT7202		AM9114	Mitsubishi	MCM51L01		AM92256	VLSI Tech	VT20C19	
		OP177				IDT7202A				Motorola	MCM145101				Catalyst
						IDT7202LA		AM9102	National	MM74C920		AM92256	Gould AMI	S23256	
		MAX400				MT52C9010				Panasonic	MNS101				NCR
						MS7202A		AM9114	Krueger	MM2102A		AM92256	OKI	MSM38256	
		LM607				MV61901				Intel	MM2102				Panasonic
						KM75C02		AM9114		2114A		AM92256	S-MOS	SMM23256	
		RC4077				KM75C02A				F2114				SMM6325	
						SSL7202		AM9122	Mitsubishi	UM6114		AM92256	Signetics	23256	
		SLA6080				LH5497				Rockwell	R6514				23256A
						SN74ACT7202		AM9122	National	LH2114		AM92256	Toshiba	TC53257	
		DACUP88				SN74ACT7202				Toshiba	TMM2114A				VLSI Tech
						TACT7201		AM9124	AMD	UM6114		AM9232	Commodore	MPS2332	
		NE5018				TACT7202				Intel	AM9114				Fujitsu
						V61C02		AM9124	Intel	2114A		AM9232	Hitachi	P51C69	
		NE5019				V61C02				Krueger	2114-150 (3513)				Intel
						CY7C428		AM9124	Mitsubishi	2114-200 (3513)		AM9232	Microchip	RO9432	
		NE5119				CY7C428				National	2114-450 (3513)				National
						DS2011		AM9124	OKI	2114-450 (3513)		AM9232	Panasonic	F3532	
		SE5119				DS2011				OKI	2114-450 (3513)				Sharp
						IDT7203		AM9128	Gould AMI	2114-450 (3513)		AM9232	Siemens	SAB8332	
		SE5119				IDT7203				Microchip	LM2332				Siemens
						IDT7203LA		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2332	
		SE5119				IDT7203LA				Signetics	23128				2332
						IDT7203SA		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				IDT7203SA				Signetics	23128				2632A
						MT52C9020		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				MT52C9020				Signetics	23128				2632A
						MS7203		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				MS7203				Signetics	23128				2632A
						KM75C03		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				KM75C03				Signetics	23128				2632A
						KM75C102A		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				KM75C102A				Signetics	23128				2632A
						SSL7203		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				SSL7203				Signetics	23128				2632A
						SGS-Thomson		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				SGS-Thomson				Signetics	23128				2632A
						MK4503		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				MK4503				Signetics	23128				2632A
						LH5498		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				LH5498				Signetics	23128				2632A
						CY7C432		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				CY7C432				Signetics	23128				2632A
						CY7C433		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				CY7C433				Signetics	23128				2632A
						MS7204		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				MS7204				Signetics	23128				2632A
						SGS-Thomson		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				SGS-Thomson				Signetics	23128				2632A
						EF7910		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				EF7910				Signetics	23128				2632A
						PBL3736		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				PBL3736				Signetics	23128				2632A
						SAB80535		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				SAB80535				Signetics	23128				2632A
						P8085AH		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				P8085AH				Signetics	23128				2632A
						8085AH (3513)		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				8085AH (3513)				Signetics	23128				2632A
						8085AH (3513)		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				8085AH (3513)				Signetics	23128				2632A
						M5M80C85A		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				M5M80C85A				Signetics	23128				2632A
						μPD8085		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				μPD8085				Signetics	23128				2632A
						CA80C85B (3569)		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				CA80C85B (3569)				Signetics	23128				2632A
						MSM8085		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				MSM8085				Signetics	23128				2632A
						MSM8085		AM9128	Microchip	2114-450 (3513)		AM9232	Signetics	2632A	
		SE5119				MSM8085				Signetics	23128				2632A
						MSM8085									

The manufacturers report their devices can be used as direct replacements. Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Advanced Micro Devices (Cont'd)				• AM9517	AMD	AM9517A AM9517A-4 AM9517A-5		• AM99CL68	(Cont'd)			• AM99C58	Intel	51C68	
• AM9232	TI	D51C69 P51C69 VT2332		AM9517A	AMD	AM9517A-4 AM9517A-5		Motorola	MCM6168			LogicDev	L7C168		
• AM9232	VLSI Tech	CY7C147		AM9517A-4	AMD	AM9517A-5		NEC	µPD4314			Mitsubishi	M5M21C68P		
• AM9244	Cypress	HM6504		AM9517A-5	AMD	AM9517A-4		Ricoh	PS6168			Motorola	MCM6168		
	Harris	HM4315		AM9518	AMD	Z8068		SGS-Thomson	IMS1423 MK41L68			NEC	µPD4314		
	Hitachi	HM4315		• AM9716	Zilog	CY7C291		• AM99CL68	Sony Toshiba VLSI Tech	CKX5416P/K TMM2068AP VT2069		• AM99C58	Sony	CKX5416P/K TMM2068AP	
	Intel	5104		• AM9716	Cypress	XL46C15		• AM99C164	Cypress Fujitsu	CY7B164 MB81C74 MB82B74		• AM99C6404	Toshiba VLSI Tech	VT2069 CY7C164	
	Mitsubishi	M58981		• AM9716	EXEL	HM6617		• AM99C164	Hitachi	HM6288 HM6788			Cypress	DPS8M464	
	National	NMC6504		• AM9716	Harris	IM6716		• AM99C164	IDT	DPS9264 IDT7188			Dense-Pac	EDJ8416	
	OKI	MSM5104		• AM9716	Lansdale	HL76161		• AM99C164	Motorola	M5M5188 MCM6188			Hitachi	HN6288	
• AM9264	NCR	NCR2364		• AM9716	National	DM77S291A		• AM99C164	Mitsubishi	M5M5188			IDT	IDT6198	
	OKI	MSM3864		• AM9716	Raytheon	932511M		• AM99C164	Motorola	MCM6288			Intel	IDT7188L	
	Plessey	SL2364C		• AM9716	WaferScale	29681		• AM99C164	NEC	µPD4362			M51C98		
	S-MOS	SMM2364		• AM9716		29681A		• AM99C164	Performance	P4C188			LogicDev	L7C166	
	Sharp	LH2364A		• AM9716		29683A		• AM99C165	Saratoga	SSM7188			MicronTech	MT5C6404	
	Signetics	2364		• AM9716		WS57C191		• AM99C165	SGS-Thomson	IMS1620			Motorola	MCM6289	
	TI	TMS2364		• AM9716		WS57C291B		• AM99C165	Toshiba	TC55416			National	F100181	
• AM9265	Microchip	RO39365		• AM9716		AM2864A		• AM99C165	VLSI Tech	VT6288				1621	
• AM9265	Mitsubishi	M5M23C64		• AM9716	ATMEL	AT28C64		• AM99C165	AMD	AM99C6404			S-MOS	SRM2274	
	National	F3568		• AM9716		AT28HC64		• AM99C165	Cypress	CY7C164			Toshiba	TC55417	
		F3569		• AM9716		AT28PC64		• AM99C165	Dense-Pac	DPS8M464			VLSI Tech	CT64KS4	
		F3570		• AM9716		AT2864		• AM99C165	EDI	EDI8416			Cypress	CY7C187	
• AM9265	OKI	MSM3864		• AM9716	Catalyst	CAT28C64A		• AM99C165	Hitachi	HN6288			EDI	EDI8164	
	Panasonic	MN2364		• AM9716	Semi	CAT28C65A		• AM99C165	IDT	IDT6198			IDT	IDT7187	
	SGS-Thomson	MK37000		• AM9716	EXEL	XL2864A		• AM99C165	IDT	IDT7188L			• AM99C641	IDT7187L	
	TI	TMS2364		• AM9716	Fujitsu	MBM28C64		• AM99C165	Intel	M51C98			LogicDev	L7C187	
• AM93L415	Motorola	MCM93L415		• AM9716	Hitachi	HN58064		• AM99C165	LogicDev	L7C164			MicronTech	MT5C6401	
AM93L422	AMD	AM93L422A		• AM9716		HN58C64		• AM99C165		L7C166			Mosel	MS6287	
	Cypress	CY93L422		• AM9716		HN58C65		• AM99C165	MicronTech	MT5C6404			Motorola	MCM6187	
	Harris	CD22212		• AM9716		HN58C66		• AM99C165	Motorola	MCM6289				MCM6287	
	National	93L422		• AM9716		HN58064		• AM99C165	National	F100181			• AM99C641	F1600	
AM93L422A	AMD	AM93L422A		• AM9716	IDT	IDT77M7864		• AM99C165	S-MOS	SRM2274			• AM99C641	F1602	
	Cypress	CY93L422A		• AM9716	Intel	IDT78C64A		• AM99C165	Toshiba	TC55417			• AM99C641	NEC	µPD4361
	Harris	CD22212		• AM9716	Microchip	I2864A		• AM99C328	VLSI Tech	CT64KS4			• AM99C641	Performance	P4C187
	National	93L422		• AM9716	Mitsubishi	28C64A		• AM99C328	Catalyst				SGS-Thomson	IMS1600	
• AM93L425	Motorola	MCM93L425		• AM9716	National	M5M28C64		• AM99C328	Semi	CAT71C256			• AM99C641	IMS1601	
AM93422	AMD	AM93422AC		• AM9716	NEC	NMC98C64		• AM99C328	Cypress	CAT71C256L			• AM99C641	Toshiba	TC5561
	Cypress	CY93422C		• AM9716	OKI	µPD28C64		• AM99C328	Dense-Pac	CY7C197			• AM99C68	AMD	TC5562
	National	93422AC		• AM9716	Samsung	MSM28C64		• AM99C328	GoldStar	DPS92256			• AM99C68	AM2168	
AM93422A	Vitesse	P4C422		• AM9716	SEEQ	MSM2864		• AM99C328	Hitachi	DPS92256L			• AM99C68	MB81C68A	
	Cypress	VS12G422T		• AM9716		KM28C64		• AM99C328		GM76C256			• AM99C68	HM6168HP	
AM93422AC	AMD	AM93422AC		• AM9716		KM2864A		• AM99C328	Hyundai	HM61256			• AM99C68	HM6268L	
	Cypress	CY93422C		• AM9716		DQ2864		• AM99C328		HM62256			• AM99C68	IDT6168A	
	National	93422AC		• AM9716		DQ2864H		• AM99C328		HM64456			• AM99C68	IDT6168L	
AM93422AM	Performance	P4C422		• AM9716		DQ52B33		• AM99C328		HY62C256			• AM99C68	IDT6168LA	
		P4C422-10C		• AM9716		28C64		• AM99C328		HY63C256			• AM99C68	IDT6168S	
		P4C422-8C		• AM9716		2864		• AM99C328		HY63C256L			• AM99C68	51C68	
AM93422A	Vitesse	VS12G422T		• AM9716	Xicor	2864A		• AM99C328		S32K8			• AM99C68	L7C168	
	Cypress	CY93422		• AM9716		2865A		• AM99C328	Inova	IDT7M856S			• AM99C68	M5M21C68P	
AM93422AC	AMD	AM93422AC		• AM9716		X28C64	(3744)	• AM99C328	IDT	IDT71256L			• AM99C68	MCM6168	
	Cypress	CY93422A		• AM9716		X28C64M	(3744)	• AM99C328		IDT71256S			• AM99C68	NEC	µPD4314
AM93422AC	AMD	AM93422AC		• AM9716		X2864A	(3741)	• AM99C328		IDT7M824			• AM99C68	Ricoh	PS6168
	Cypress	CY93422A		• AM9716		AM2168		• AM99C328	LogicDev	L7C199			• AM99C68	SGS-Thomson	IMS1423
	National	93422C		• AM9716		MB81C68A		• AM99C328	MicronTech	MT5C2568			• AM99C68	IMS1423	
	Performance	P4C422		• AM9716		HM6168HP		• AM99C328	Mitsubishi	M5M5256			• AM99C68	CKX5416P/K	
AM93422AM	Vitesse	P4C422-10C		• AM9716		HM6268L		• AM99C328	Mosel	MS62256			• AM99C68	TMM2068AP	
	AMD	AM93422M		• AM9716		IDT6168A		• AM99C328	Motorola	MCM60256A			• AM99C68	VT2069	
	Cypress	CY93422M		• AM9716		IDT6168L		• AM99C328	National	NM44251			• AM99C68	CY7C182	
	National	93422C		• AM9716		IDT6168LA		• AM99C328	NEC	µPD43256B			• AM99C68	CY7C185	
	Performance	P4C422		• AM9716		IDT6168S		• AM99C328	OKI	MSM51257JS			• AM99C68	CY7C186	
AM93422AM	Vitesse	P4C422-8C		• AM9716		51C68		• AM99C328		MSM51257LRS			• AM99C68	EDJ8808	
	AMD	AM93422T		• AM9716		L7C168		• AM99C328		MSM51257RJ			• AM99C68	MB82B79	
	Cypress	CY93422M		• AM9716		M5M21C68P		• AM99C328		MSM51257RS			• AM99C68	HM65642	
	Harris	ICL8212		• AM9716		MCM6168		• AM99C328	Performance	P4C1256			• AM99C68	DPS9264	
	Maxim	MAX8212		• AM9716		NEC		• AM99C328	S-MOS	SRM20256			• AM99C68	IDT7164	
	National	93422AM		• AM9716		PS6168		• AM99C328		SRM20256C			• AM99C68	IDT7164S	
AM93422M	Performance	P4C422-15		• AM9716		IMS1423		• AM99C328		SRM2257			• AM99C68	IDT7164S	
	Vitesse	VS12G422TM		• AM9716		MK41L68		• AM99C328	Samsung	KM62256			• AM99C68	MT5C6408	
• AM93425	Elantec	EDH0008		• AM9716		CKX5416P/K		• AM99C328	Sharp	KM68257			• AM99C68	M5M5179	
• AM9511	AMD	AM9511A		• AM9716		TMM2068AP		• AM99C328		LH52256			• AM99C68	MS6264	
				• AM9716		VT2069		• AM99C328		LH52259			• AM99C68	MCM6264	
				• AM9716		AM2168		• AM99C328		CKX58256			• AM99C68	MCM6265	
				• AM9716		MB81C68A		• AM99C328		TC55257			• AM99C68	NMC6164	
				• AM9716		HM6168HP		• AM99C328		TC55257A			• AM99C68	µPD4364	
				• AM9716		HM6268L		• AM99C328		UM62256A			• AM99C68	Performance	P4C164
				• AM9716		IDT6168A		• AM99C328		AM2168			• AM99C68	SGS-Thomson	
				• AM9716		IDT6168L		• AM99C328		MB81C68A			• AM99C68	IMS1630	
				• AM9716		IDT6168LA		• AM99C328		HM6168HP			• AM99C68	CKX55863	
				• AM9716		IDT6168S		• AM99C328		HM6268L			• AM99C68	TMM2088P	
				• AM9716		51C68		• AM99C328		IDT6168A			• AM99C68	UM6164	
				• AM9716		L7C168		• AM99C328		IDT6168L			• AM99C68	V63C64P	
				• AM9716		M5M21C68P		• AM99C328		IDT6168LA			• AM99C68	VLSI Tech	VT20C98
				• AM9716				• AM99C328		IDT6168S			• AM99C68	LogicDev	L7C164
				• AM9716				• AM99C328					• AM99C68	Motorola	MCM1423
				• AM9716				• AM99C328					• AM99C68		

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Advanced Micro Devices (Cont'd)				C57402A	AMD	(Cont'd)		D8237A	NEC	μPD71037 μPD8237A	(Cont'd)	HM10484	Saratoga	SSM10484	
• AM9968	National	F1620 F1621	(Cont'd)		IDT	57402 67C402 IDT72402			Newbridge	CA82C37A (3569)		• LF156A	AD	AD544 OP16 OP43 PM156 PM156A	(3329, 3331)
• AM9968	S-MOS	SRM2274			National	DM77S402 DM77S402A DM87S402A			OKI	MSM82C37A		• LF156A	Burr-Brown	OPA156A	
• AM9988	Vitellic	V61C62		C67401	AMD	C57L401 C57401 57401 67C401		D8255A	Toshiba	TM8P82C37 VLSI Tech VL82C37A		• LF156A	Harris	HA5170 HA5180 LF156 LF156A	
• AM9988	Cypress	CY7C182 CY7C185 CY7C186 CY7C186			IDT	IDT72401			Harris	82C55A P8255		• LF156A	LinearTech	LF156	
• AM9988	EDI	EDI8808			National	DM77S401			Intel	82C55A 8255A		• LF156A	National	LF156 LF156A OPA101	
• AM9988	Fujitsu	MB82B79		C67402	AMD	C57402 74F413			Mitsubishi	M5M82C55A M5M82C55AP		• LF156A	SGS-Thomson	LF156 27S29	
• AM9988	Harris	HM65642				C57402A			NEC	μPD71055 μPD8255A		• LF157A	AMD	OP15	
• AM9988	IDT	DPS9264 IDT7164 IDT7164S			IDT	57402 67C402 IDT72402			Newbridge	CA82C55A (3569)		• LF157A	AD	PM157 PM157A	
• AM9988	MicronTech	MT5C6408			National	DM77S402 DM77S402A DM87S402A			OKI	MSM82C55A		• LF157A	Lansdale	HL7649	
• AM9988	Mitsubishi	M5M5179		C67402A	AMD	C57402 C57402A C67402		• D8259	S-MOS	SMC82C55AC			Motorola	LF351 LF157A LF351	
• AM9988	Mosel	MS6264				57402		• D8259	Samsung	KS82C55A		• LF157A	National	LF351 LF353	
• AM9988	Motorola	MCM6264			IDT	67C402		• D8259	Toshiba	TM8P82C55					
• AM9988	National	NMC6164			National	DM77S402		• D8259	UMC	UM82C55A (3689)					
• AM9988	NEC	μPD4364				57402		• D8259	Harris	CP82C59A		• LF157A	NEC	μPC157 29621	
• AM9988	Performance	P4C164				C67402		• D8259	Intel	82C59A			Raytheon	KF351	
• AM9988	SGS-Thomson	IMS1630				67C402		• D8259	MicronTech	MT8259			Signetics	PLS157	
• AM9988	Sony	CKX5863			IDT	IDT72402		• D8259	Mitsubishi	M5M82C59 M5M82C59AP		• LF198	AD	SMP10	
• AM9988	Toshiba	TMM2088P		• DAC08	AD	ADDAC-08 DAC1508		• D8259	National	INS8259		• LF198	LinearTech	LF198	
• AM9988	UMC	UM6164		• DAC08	Datel	DACIC88C DAC08B		• D8259	NEC	μPD71059 μPD8259A		• LF198	National	LF198	
• AM9988	Vitellic	V63C64P		• DAC08	Motorola	DAC08		• D8259	Newbridge	CA82C59A (3569)		• LF255	AD	PM155	
• AM9988	VLSI Tech	VT20C98		• DAC08	National	DAC0801		• D8259	OKI	MSM82C59		• LF255	MicroPwr	PM255	
• AM9988	Cypress	CY7C182 CY7C185 CY7C186 CY7C186		• DAC08	NEC	DAC0802- μPC624		• D8259	Samsung	KS82C59A			National	LF255	
• AM9988	EDI	EDI8808		• DAC08	Raytheon	DAC08		• D8259	Toshiba	TM8P82C59		• LF256	SGS-Thomson	LM255	
• AM9988	Fujitsu	MB82B79		• DAC08	Samsung	KDA0800 KDA0801 KDA0802		• D8259A	UMC	UM8259A			National	LF256	
• AM9988	Harris	HM65642		• DAC08		DAC08		• D8259A	VLSI Tech	VL82C59A		• LF355	AD	LM256	
• AM9988	IDT	DPS9264 IDT7164 IDT7164S		• DAC08	Signetics	DAC08		• D8259A	Intel	82C59A		• LF355	AD	OP15 OP43	
• AM9988	MicronTech	MT5C6408		• DAC08	National	DP8303		• D8259A	MicronTech	MT8259		• LF355	LinearTech	LF355	
• AM9988	Mitsubishi	M5M5179		• DAC08	National	82C86H		• D8259A	Mitsubishi	M5M82C59 M5M82C59AP		• LF355	Motorola	LF355	
• AM9988	Mosel	MS6264		• DAC08	NEC	82C86		• D8259A	National	INS8259		• LF355	National	LF355	
• AM9988	Motorola	MCM6264		• DAC08	OKI	μPD71086		• D8259A	NEC	μPD71059 μPD8259A		• LF355A	AD	PM355A	
• AM9988	National	NMC6164		• DAC08	Harris	MD82C288		• D8259A	Newbridge	CA82C59A (3569)		• LF356	LinearTech	LF355A	
• AM9988	NEC	μPD4364		• DAC08	Intel	82C288		• D8259A	OKI	MSM82C59		• LF356	National	OP16	
• AM9988	Performance	P4C164		• DAC08		82C288		• D8259A	Samsung	KS82C59A			LinearTech	LF356	
• AM9988	SGS-Thomson	IMS1630		• DAC08	National	DP8304		• D8259A	Toshiba	TM8P82C59			Motorola	LF356	
• AM9988	Sony	CKX5863		• DAC08	NEC	μPD71086		• D8259A	UMC	UM8259A		• LF356A	National	LF356	
• AM9988	Toshiba	TMM2088P		• DAC08	OKI	MSM82C86		• D8259A	VLSI Tech	VL82C59A		• LF356A	AD	OP16 PM356A	
• AM9988	UMC	UM6164		• DAC08	Harris	MD82C288		• D8259A	Intel	82C59A		• LF356A	Burr-Brown	OPA356A	(3329)
• AM9988	Vitellic	V63C64P		• DAC08	Intel	82C288		• D8259A	Mitsubishi	M5L8284A M5L8284AP		• LH2101	National	LF356A	
• AM9988	VLSI Tech	VT20C98		• DAC08	Samsung	KS82C288		• D8259A	NEC	μPD71084 71084		• LH2101	Raytheon	LH2101A	
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	AMD	82C288		• D8259A	Newbridge	CA82C84A (3569)		• LH2111	Raytheon	LH2111	
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Harris	CP82C54		• D8259A	OKI	MSM82C84 MSM82C84A		• LM101	National	OP77 OP77	
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Intel	82C54		• D8259A	Samsung	KS82C84A		• LM101	LinearTech	LM101	
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Mitsubishi	M5M82C54 M5M82C54P		• D8259A	Harris	CP82C88		• LM101	Motorola	μA101	
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	NEC	μPD71054		• D8259A	Intel	82C88		• LM106	National	LM101A	
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Newbridge	MSM82C54 (3569)		• D8259A	Mitsubishi	M5L82885 μPB8288D		• LM107	Raytheon	SG101	
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	OKI	KS82C54		• D8259A	NEC	μPD71088 71088		• LM107	National	LM106	
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Samsung	VL82C54		• D8259A	Newbridge	CA82C88 (3569)		• LM107	AD	AD741S	(3245)
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	VLSI Tech	CD82C284		• D8259A	OKI	MSM82C88		• LM108A	National	PM741	
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Intel	82C284		• D8259A	Samsung	MSM82C88A		• LM108A	Raytheon	SN74154	
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Newbridge	CA82C284		• D8259A	Fujitsu	MBM10484		• LM108A	TI	AD108A	
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Samsung	UM82C284		• D8259A	NEC	MBM10484		• LM108A	AD	PM108A	
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	UMC	UM82C284		• D8259A	NEC	F10484		• LM108A	Harris	LM108A	
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	AMD	D82C288		• D8259A	NEC	μPB10484		• LM108A	LinearTech	LM108A	
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Harris	MD82C288		• D8259A	NEC	μPB10484A		• LM108A	Motorola	LM108A	
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Intel	82C288		• D8259A	Newbridge	CA82C88 (3569)		• LM108A	National	μA108A LM108A	
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Samsung	KS82C288		• D8259A	OKI	MSM82C88A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	UMC	UM82C288		• D8259A	Samsung	KS82C88		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	AMD	AM8237A		• D8259A	Fujitsu	MBM10484		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Harris	CP82C37A		• D8259A	NEC	F10484		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Intel	82C37A		• D8259A	NEC	μPB10484		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Samsung	82C37A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	UMC	8237A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	AMD	8237A-4 8237A-5		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Harris	AM8237A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Intel	82C37A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Samsung	8237A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	UMC	8237A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	AMD	8237A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Harris	CP82C37A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Intel	82C37A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Samsung	8237A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	UMC	8237A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	AMD	8237A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Harris	CP82C37A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Intel	82C37A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Samsung	8237A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	UMC	8237A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	AMD	8237A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Harris	CP82C37A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Intel	82C37A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	Samsung	82C37A		• D8259A	NEC	μPB10484A		• LM108A			
• AM9988	AMD	C57401 C67401 57401 67C401		• DAC08	UMC	82C37A		• D8							

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Advanced Micro Devices (Cont'd)				• PALC22V10H-30	Samsung	CPL20L8-35 CPL22V10 CPL22V10-25 CPL22V10-35 CPL22V10L-25 CPL22V10L-35		PAL10H8	Signetics	PLC153 PLHS18P8 PLS153 GA23SV8 PEEL253 PEEL153 PEEL253	(Cont'd)	PAL14L8	Signetics TI	PLS173 TIBPAL22V10 TIBPAL22V10A TICPAL22V10	(Cont'd)	
• PALC22V10	Cypress	CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35		• PALC22V10H-30	Signetics TI	PLS173 TIBPAL22V10 TIBPAL22V10A TICPAL22V10		PAL10L8	Gazelle Gould AMI ICT	PEEL253 PEEL153 PEEL253 GAL16V8A GAL18V10 PAL10L8 PLC153 PLHS18P8 PLS153	(3442)	• PAL16A4	AMD Lattice	PAL10H8 GAL16V8A GAL18V10 PAL10H8 PAL16A4 PLC153 PLHS18P8 PLS153		
• PALC22V10	Gould AMI	PEEL22CV10 (3442)		• PALC22V10H-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8		PAL12H6	Lattice	GAL16V8A GAL18V10 PAL12H6 PLC153 PLHS18P8 PLS153		• PAL16A4	National	GAL18V10 PAL10H8 PAL16A4 PLC153 PLHS18P8 PLS153		
	ICT	PEEL22CV10 GAL16V8A GAL18V10 GAL20V8A GAL22V10 PAL14L8		• PALC22V10H-35	ATMEL	AT22V10 AT22V210			National Signetics	PLC153 PLHS18P8 PLS153		• PAL16A4	Signetics	PLC153 PLHS18P8 PLS153		
• PALC22V10	National	GAL22V10 PAL14L8		• PALC22V10H-35	Cypress	CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35		PAL12L10	AMD	AMPAL20L10-20 PAL20L10 PAL20L10 PEEL20CG10 (3442)		PAL16C1	Gould AMI	PEEL22CV10 (3442)		
• PALC22V10	Samsung	CPL20L8-35 CPL22V10 CPL22V10-25 CPL22V10-35 CPL22V10L-25 CPL22V10L-35		• PALC22V10H-35	Gould AMI	PEEL22CV10 (3442)			Cypress Gould AMI	PEEL20CG10 PAL20L10 PAL20L10 PEEL20CG10 (3442)			National Signetics	PLC153 PLHS18P8 PLS153		
• PALC22V10	Signetics TI	PLS173 TIBPAL22V10 TIBPAL22V10A TICPAL22V10		• PALC22V10H-35	ICT	PEEL22CV10 GAL16V8A GAL18V10 GAL20V8A		PAL12L16	AMD Gould AMI	PEEL20CG10 PAL20L10 PAL20L10 TIBPAL12L10 TIBPAL20L10 TIBPAL20L10A-2 PAL16L6 PEEL20CG10 (3442)		PAL16L2	Lattice	GAL16V8A GAL18V10 PAL16L2 PAL12L16 PEEL20CG10 (3442)		
• PALC22V10H-25	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8		• PALC22V10H-35	Lattice	PEEL22CV10 GAL16V8A GAL18V10 GAL20V8A			Signetics TI	PEEL20CG10 GAL20V8A PAL16L6 CPL20L8-35 PEEL173 PLS173 TIBPAL12L10 TIBPAL20L10 TIBPAL20L10A-2 PAL16L6 PEEL20CG10 (3442)		PAL16L6	National AMD Gould AMI	PEEL20CG10 GAL20V8A PAL16L6 CPL20L8-35 PEEL173 PLS173 TIBPAL16L6 PALCE16V8 PALC16L8 PAL16L8 HPL16LC8 HPL16LC8-5 5C031 5C032		
• PALC22V10H-25	ATMEL	AT22V10 AT22V210		• PALC22V10H-35	National	GAL22V10 PAL14L8		PAL12L6	ICT Lattice	PEEL20CG10 GAL20V8A PAL16L6 CPL20L8-35 PEEL173 PLS173 TIBPAL16L6 GAL16V8A GAL18V10 PAL12L6 PLC153 PLHS18P8 PLS153 GAL16V8A GAL18V10 PAL14H4 PLC153 PLHS18P8 PLS153			TI	PLS173 TIBPAL16L6 PALCE16V8 PALC16L8 PAL16L8 HPL16LC8 HPL16LC8-5 5C031 5C032		
• PALC22V10H-25	Cypress	CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35		• PALC22V10H-35	Samsung	CPL20L8-35 CPL22V10 CPL22V10-25 CPL22V10-35 CPL22V10B CPL22V10L-25 CPL22V10L-35			National Signetics	PEEL20CG10 GAL20V8A PAL16L6 CPL20L8-35 PEEL173 PLS173 TIBPAL16L6 GAL16V8A GAL18V10 PAL12L6 PLC153 PLHS18P8 PLS153 GAL16V8A GAL18V10 PAL14H4 PLC153 PLHS18P8 PLS153		PAL16L8	AMD Cypress	PLS173 TIBPAL16L6 PALCE16V8 PALC16L8 PAL16L8 HPL16LC8 HPL16LC8-5 5C031 5C032		
• PALC22V10H-25	Gould AMI	PEEL22CV10 (3442)		• PALC22V10H-35	Signetics TI	PLS173 TIBPAL22V10 TIBPAL22V10A TICPAL22V10		PAL12L6	TI	PEEL20CG10 GAL20V8A PAL16L6 CPL20L8-35 PEEL173 PLS173 TIBPAL16L6 GAL16V8A GAL18V10 PAL12L6 PLC153 PLHS18P8 PLS153 GAL16V8A GAL18V10 PAL14H4 PLC153 PLHS18P8 PLS153			Harris	PLS173 TIBPAL16L6 PALCE16V8 PALC16L8 PAL16L8 HPL16LC8 HPL16LC8-5 5C031 5C032		
	ICT	PEEL22CV10 GAL16V8A GAL18V10 GAL20V8A		• PALC22V10H-40	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8		PAL14H4	Lattice	PEEL20CG10 GAL20V8A PAL16L6 CPL20L8-35 PEEL173 PLS173 TIBPAL16L6 GAL16V8A GAL18V10 PAL12L6 PLC153 PLHS18P8 PLS153 GAL16V8A GAL18V10 PAL14H4 PLC153 PLHS18P8 PLS153			Intel	PLS173 TIBPAL16L6 PALCE16V8 PALC16L8 PAL16L8 HPL16LC8 HPL16LC8-5 5C031 5C032		
• PALC22V10H-25	National	GAL22V10 PAL14L8		• PALC22V10H-40	ATMEL	AT22V10 AT22V210			National Signetics	PEEL20CG10 GAL20V8A PAL16L6 CPL20L8-35 PEEL173 PLS173 TIBPAL16L6 GAL16V8A GAL18V10 PAL12L6 PLC153 PLHS18P8 PLS153 GAL16V8A GAL18V10 PAL14H4 PLC153 PLHS18P8 PLS153			Samsung	PLS173 TIBPAL16L6 PALCE16V8 PALC16L8 PAL16L8 HPL16LC8 HPL16LC8-5 5C031 5C032		
• PALC22V10H-25	Samsung	CPL20L8-35 CPL22V10 CPL22V10-25 CPL22V10-35 CPL22V10B CPL22V10L-25 CPL22V10L-35		• PALC22V10H-40	Cypress	CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35		PAL14L4	Gould AMI	PEEL20CG10 GAL20V8A PAL16L6 CPL20L8-35 PEEL173 PLS173 TIBPAL16L6 GAL16V8A GAL18V10 PAL12L6 PLC153 PLHS18P8 PLS153 GAL16V8A GAL18V10 PAL14H4 PLC153 PLHS18P8 PLS153			SGS-Thomson	PLS173 TIBPAL16L6 PALCE16V8 PALC16L8 PAL16L8 HPL16LC8 HPL16LC8-5 5C031 5C032		
• PALC22V10H-25	Signetics TI	PLS173 TIBPAL22V10 TIBPAL22V10A TICPAL22V10		• PALC22V10H-40	Signetics TI	PLS173 TIBPAL22V10 TIBPAL22V10A TICPAL22V10			ICT	PEEL20CG10 GAL20V8A PAL16L6 CPL20L8-35 PEEL173 PLS173 TIBPAL16L6 GAL16V8A GAL18V10 PAL12L6 PLC153 PLHS18P8 PLS153 GAL16V8A GAL18V10 PAL14H4 PLC153 PLHS18P8 PLS153			Signetics	PLS173 TIBPAL16L6 PALCE16V8 PALC16L8 PAL16L8 HPL16LC8 HPL16LC8-5 5C031 5C032		
• PALC22V10H-30	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8		• PALC22V10H-40	Gould AMI	PEEL22CV10 (3442)		PAL14L8	AMD	PEEL20CG10 GAL20V8A PAL16L6 CPL20L8-35 PEEL173 PLS173 TIBPAL16L6 GAL16V8A GAL18V10 PAL12L6 PLC153 PLHS18P8 PLS153 GAL16V8A GAL18V10 PAL14H4 PLC153 PLHS18P8 PLS153			TI	PLS173 TIBPAL16L6 PALCE16V8 PALC16L8 PAL16L8 HPL16LC8 HPL16LC8-5 5C031 5C032		
• PALC22V10H-30	ATMEL	AT22V10 AT22V210		• PALC22V10H-40	ICT	PEEL22CV10 GAL16V8A GAL18V10 GAL20V8A			ATMEL	PEEL20CG10 GAL20V8A PAL16L6 CPL20L8-35 PEEL173 PLS173 TIBPAL16L6 GAL16V8A GAL18V10 PAL12L6 PLC153 PLHS18P8 PLS153 GAL16V8A GAL18V10 PAL14H4 PLC153 PLHS18P8 PLS153			Samsung TI	PLS173 TIBPAL16L6 PALCE16V8 PALC16L8 PAL16L8 HPL16LC8 HPL16LC8-5 5C031 5C032		
• PALC22V10H-30	Cypress	CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35		• PALC22V10H-40	Lattice	PEEL22CV10 GAL16V8A GAL18V10 GAL20V8A			Cypress	PEEL20CG10 GAL20V8A PAL16L6 CPL20L8-35 PEEL173 PLS173 TIBPAL16L6 GAL16V8A GAL18V10 PAL12L6 PLC153 PLHS18P8 PLS153 GAL16V8A GAL18V10 PAL14H4 PLC153 PLHS18P8 PLS153		PAL16L8A-2	Samsung	PLS173 TIBPAL16L6 PALCE16V8 PALC16L8 PAL16L8 HPL16LC8 HPL16LC8-5 5C031 5C032		
• PALC22V10H-30	Gould AMI	PEEL22CV10 (3442)		• PALC22V10H-40	National	GAL22V10 PAL14L8			Gould AMI	PEEL20CG10 GAL20V8A PAL16L6 CPL20L8-35 PEEL173 PLS173 TIBPAL16L6 GAL16V8A GAL18V10 PAL12L6 PLC153 PLHS18P8 PLS153 GAL16V8A GAL18V10 PAL14H4 PLC153 PLHS18P8 PLS153			TI	PLS173 TIBPAL16L6 PALCE16V8 PALC16L8 PAL16L8 HPL16LC8 HPL16LC8-5 5C031 5C032		
	ICT	PEEL22CV10 GAL16V8A GAL18V10 GAL20V8A		• PALC22V10H-40	Samsung	CPL20L8-35 CPL22V10 CPL22V10-25 CPL22V10-35 CPL22V10B CPL22V10L-25 CPL22V10L-35			ICT	PEEL20CG10 GAL20V8A PAL16L6 CPL20L8-35 PEEL173 PLS173 TIBPAL16L6 GAL16V8A GAL18V10 PAL12L6 PLC153 PLHS18P8 PLS153 GAL16V8A GAL18V10 PAL14H4 PLC153 PLHS18P8 PLS153		PAL16L8A	National	PLS173 TIBPAL16L6 PALCE16V8 PALC16L8 PAL16L8 HPL16LC8 HPL16LC8-5 5C031 5C032		
• PALC22V10H-30	National	GAL22V10 PAL14L8		• PALC22V10H-40	Signetics TI	PLS173 TIBPAL22V10 TIBPAL22V10A TICPAL22V10			Lattice	PEEL20CG10 GAL20V8A PAL16L6 CPL20L8-35 PEEL173 PLS173 TIBPAL16L6 GAL16V8A GAL18V10 PAL12L6 PLC153 PLHS18P8 PLS153 GAL16V8A GAL18V10 PAL14H4 PLC153 PLHS18P8 PLS153			Samsung AMD Lattice	PLS173 TIBPAL16L6 PALCE16V8 PALC16L8 PAL16L8 HPL16LC8 HPL16LC8-5 5C031 5C032		

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Advanced Micro Devices (Cont'd)				PAL16R6Q-25	Cypress Dense-Pac	PALC46R6 DPS92256 DPS92256L GM76C256 CPL16R6L-35		PAL20L10		(Cont'd)		PAL20R4B-2	AMD Lattice National Samsung	PAL20R4A GAL20V8A PAL20R4A CPL20R4 CPL20R4-25 CPL20R6-25 PLUS20R4 TIBPAL20R4-25 TIBPAL20R4A TIBPAL20R4A 8250B PLUS20R4D (3634) UM8250B (3690) PLDC20G10 PEEL20CG10 (3442)	
PAL16R4		(Cont'd)		PAL16R8	GoldStar Samsung Cypress	PALC16R8 PAL16R8 GA23SV8 GA23S8 HPL16RC8 HPL16RC8-5 HPL16R8 5C031 5C032		PAL20L2	AMD Cypress	AMPAL22V10A AMPAL22V10A-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL20CG10 (3442)		PAL20R4D	National Signetics UMC	PLUS20R4D (3634) UM8250B (3690) PLDC20G10 PEEL20CG10 (3442)	
	Intel	5C031 5C032			Gazelle										
	Lattice	GAL16V8A GAL16V8A GAL18V10 PAL16R4 CPL16R4 CPL16R4-35 CPL16R4L-25 PLUS16R4 TIBPAL16R4			Harris										
	National				Intel										
	Samsung				Lattice										
	Signetics				National										
	TI				Samsung										
PAL16R4A	Gazelle	GA23SV8 GA23S8 PAL16R4A 16RP4A 16RP4B2 16R4A			Signetics										
	National				TI										
	Samsung														
	TI														
PAL16R4A-2	Samsung	CPL16R4-35 TIBPAL16R4A-2		PAL16R8A	Gazelle	GA23SV8 GA23S8 PAL16R8A 16RP8B2 16R8A CPL16R8-25 TIBPAL16R8A		PAL20L8	Cypress Fujitsu Gould AMI	PLDC20G10 MB81C88 PEEL20CG10 (3442)		PAL20R6A	Samsung TI	CPL20R6-35 TIBPAL20R6-25 TIBPAL20R6A CPL20R6-35 TIBPAL20R6A-2 82450 PLUS20R6D (3634) PLDC20G10 PEEL20CG10 (3442)	
PAL16R4A-4	Samsung	CPL16R4L-35			National										
PAL16R4B	National	F16R4B PAL16R4B CPL16R4-25 CPL16R4L-35 GAL16V8A-10L (3524)			Samsung										
PAL16R4B-2	Samsung			PAL16R8A-2	National	PAL16R8C PAL16R8-35 TIBPAL16R8A-2			Hitachi	HM7688HP PEEL20CG10 GAL20V8A L7C164 M5M5188AP F100165 PAL20L8 μPD4362C MSM5188A CPL20L8 CPL20L8-35 LH5262 CXK5464AP TIBPAL20L8 TIBPAL20L8-20 VT64KS4 PLUS20L8D (3634)		PAL20R6A-2	Samsung TI	CPL20R6-35 TIBPAL20R6A-2 82450 PLUS20R6D (3634) PLDC20G10 PEEL20CG10 (3442)	
PAL16R4B-4	Samsung			PAL16R8B	Samsung	CPL16R8L-35 AMPAL16R8B F16R8B PAL16R8B CPL16R8L-35 CPL16R8-25 GAL16V8A-10L (3524)			LogicDev						
PAL16R4D	Lattice				National				National						
	Signetics								NEC						
• PAL16R4D-4	AMD								OKI						
• PAL16R4D-4	Gazelle								Samsung						
• PAL16R4D-4	GoldStar														
• PAL16R4D-4	Harris														
• PAL16R4D-4	Intel														
• PAL16R4D-4	Lattice														
• PAL16R4D-4	National														
• PAL16R4D-4	Samsung														
• PAL16R4D-4	Signetics														
PAL16R6	Cypress														
	Gazelle														
	Harris														
	Intel														
	Lattice														
	National														
	Samsung														
	Signetics														
	TI														
PAL16R6A	Gazelle														
	National														
	Samsung														
	TI														
PAL16R6A-2	Samsung														
PAL16R6A-4	Samsung														
PAL16R6B	National														
	Samsung														
	TI														
PAL16R6B-4	Samsung														
PAL16R6B2	Samsung														
PAL16R6D	Lattice														
	Signetics														
• PAL16R6D-4	Cypress														
	Samsung														

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Advanced Micro Devices (Cont'd)				• SN54LS151	Motorola National	SN54LS151 DM54LS151 54LS151		• SN54LS191	SGS-Thomson	(Cont'd)		• SN54LS378	SGS-Thomson	(Cont'd)	
PAL20X4	TI	TIBPAL20X4-25 TIBPAL22V10 TIBPAL22V10A AMPAL22V10 AMPAL22V10A CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PAL20X8 CPL22V10-25 CPL22V10-35 CPL22V10L-25 CPL22V10L-35 TIBPAL20X8-25 TIBPAL22V10 TIBPAL22V10A	(Cont'd)	• SN54LS151	SGS-Thomson	54LS151		• SN54LS192	Signetics TI	T54LS191 54LS191 SN54LS191		• SN54LS379	TI Motorola National SGS-Thomson	T54LS378 SN54LS378 SN54LS379 54LS379	
PAL20X8	AMD	AMPAL22V10 AMPAL22V10A CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PAL20X8 CPL22V10-25 CPL22V10-35 CPL22V10L-25 CPL22V10L-35 TIBPAL20X8-25 TIBPAL22V10 TIBPAL22V10A		• SN54LS153	Motorola National	SN54LS153 DM54LS153 54LS153		• SN54LS192	SGS-Thomson	T54LS192		• SN54LS385	TI Motorola TI	T54LS379 SN54LS379 SN54LS385	
	Cypress	AMPAL22V10 AMPAL22V10A CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PAL20X8 CPL22V10-25 CPL22V10-35 CPL22V10L-25 CPL22V10L-35 TIBPAL20X8-25 TIBPAL22V10 TIBPAL22V10A		• SN54LS153	SGS-Thomson	54LS153		• SN54LS193	TI Motorola National	SN54LS192 SN54LS192 DM54LS193 54LS193		• SN54LS385	Motorola TI	SN54LS385 SN54LS385	
	National	AMPAL22V10 AMPAL22V10A CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PAL20X8 CPL22V10-25 CPL22V10-35 CPL22V10L-25 CPL22V10L-35 TIBPAL20X8-25 TIBPAL22V10 TIBPAL22V10A		• SN54LS157	Motorola National	SN54LS157 DM54LS157 54LS157		• SN54LS193	SGS-Thomson	T54LS193 54LS193		• SN54S189	National	DM54S189 DM54S189A	
	Samsung	AMPAL22V10 AMPAL22V10A CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PAL20X8 CPL22V10-25 CPL22V10-35 CPL22V10L-25 CPL22V10L-35 TIBPAL20X8-25 TIBPAL22V10 TIBPAL22V10A		• SN54LS157	SGS-Thomson	54LS157		• SN54LS194A	Signetics TI	54LS193 SN54LS193		• SN54S240	TI	54S189 SN54S240	
	TI	AMPAL22V10 AMPAL22V10A CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PAL20X8 CPL22V10-25 CPL22V10-35 CPL22V10L-25 CPL22V10L-35 TIBPAL20X8-25 TIBPAL22V10 TIBPAL22V10A		• SN54LS158	Motorola National	SN54LS158 DM54LS158 54LS158		• SN54LS194A	Motorola National SGS-Thomson	SN54LS194A 54LS194A		• SN54S241	TI	SN54S241	
• PLE11RA8	AMD	AM27S45 AM27S45A AM27S47 CY7C245 MB7238 WS57C45 AM27S45 AM27S45A AM27S47 CY7C245 MB7238 WS57C45 AM27S45 AM27S45A AM27S47 CY7C245 MB7238 WS57C45 AM21L49 AM27S25 AM27S25A CY21L49 CY7C225 MCM27S25 DM77SR25 DM77SR25B DM77SR476 DM77SR476B DM87SR25 DM87SR25B DM87SR474 DM87SR476 DM87SR476B		• SN54LS158	SGS-Thomson	54LS158		• SN54LS195A	Motorola National	SN54LS194A SN54LS195A DM54LS195A 54LS195A		• SN54S241	National	SN54S241	
• PLE11RA8	Cypress	AM27S45 AM27S45A AM27S47 CY7C245 MB7238 WS57C45 AM27S45 AM27S45A AM27S47 CY7C245 MB7238 WS57C45 AM27S45 AM27S45A AM27S47 CY7C245 MB7238 WS57C45 AM21L49 AM27S25 AM27S25A CY21L49 CY7C225 MCM27S25 DM77SR25 DM77SR25B DM77SR476 DM77SR476B DM87SR25 DM87SR25B DM87SR474 DM87SR476 DM87SR476B		• SN54LS160A	Motorola National	SN54LS160A 54LS160A		• SN54LS195A	SGS-Thomson	T54LS195 54LS195A		• SN54S241	LogicDev AMD LogicDev	SN54S241 AM25S558 LMU557	
• PLE11RS8	AMD	AM27S45 AM27S45A AM27S47 CY7C245 MB7238 WS57C45 AM27S45 AM27S45A AM27S47 CY7C245 MB7238 WS57C45 AM27S45 AM27S45A AM27S47 CY7C245 MB7238 WS57C45 AM21L49 AM27S25 AM27S25A CY21L49 CY7C225 MCM27S25 DM77SR25 DM77SR25B DM77SR476 DM77SR476B DM87SR25 DM87SR25B DM87SR474 DM87SR476 DM87SR476B		• SN54LS161A	Motorola National	SN54LS161A DM54LS161A 54LS161A		• SN54LS240	Motorola National SGS-Thomson	SN54LS240 54LS240		• SN54S241	National	SN54S241	
• PLE11RS8	Cypress	AM27S45 AM27S45A AM27S47 CY7C245 MB7238 WS57C45 AM27S45 AM27S45A AM27S47 CY7C245 MB7238 WS57C45 AM27S45 AM27S45A AM27S47 CY7C245 MB7238 WS57C45 AM21L49 AM27S25 AM27S25A CY21L49 CY7C225 MCM27S25 DM77SR25 DM77SR25B DM77SR476 DM77SR476B DM87SR25 DM87SR25B DM87SR474 DM87SR476 DM87SR476B		• SN54LS161A	SGS-Thomson	54LS161A		• SN54LS240	SGS-Thomson	T54LS240 SN54LS240		• SN54S241	Hitachi Motorola National	SN54S241 DM74LS161A 74LS161A	
• PLE9R8	AMD	AM21L49 AM27S25 AM27S25A CY21L49 CY7C225 MCM27S25 DM77SR25 DM77SR25B DM77SR476 DM77SR476B DM87SR25 DM87SR25B DM87SR474 DM87SR476 DM87SR476B		• SN54LS162A	Motorola National	SN54LS162A DM54LS162A 54LS162A		• SN54LS241	Motorola National SGS-Thomson	SN54LS241 54LS241		• SN74LS161	Hitachi Motorola National	DM74LS161A 74LS161A	
• PLE9R8	Cypress	AM21L49 AM27S25 AM27S25A CY21L49 CY7C225 MCM27S25 DM77SR25 DM77SR25B DM77SR476 DM77SR476B DM87SR25 DM87SR25B DM87SR474 DM87SR476 DM87SR476B		• SN54LS162A	SGS-Thomson	54LS162A		• SN54LS242	TI	SN54LS241 SN54LS242		• SN74LS161	Panasonic SGS-Thomson	DM74LS161A 74LS161A	
• PLE9R8	Motorola	AM21L49 AM27S25 AM27S25A CY21L49 CY7C225 MCM27S25 DM77SR25 DM77SR25B DM77SR476 DM77SR476B DM87SR25 DM87SR25B DM87SR474 DM87SR476 DM87SR476B		• SN54LS163A	Motorola National	SN54LS163A DM54LS163A 54LS163A		• SN54LS242	Motorola National	SN54LS242 SN54LS242		• SN74LS240	Hitachi Motorola National	DM74LS240 74LS240	
• P80C31	Intel	P80C31 P80C31BH 80C31 M80C31 SC80C31 SAB8031A-16 P8051 P8051AH SAB8051 SAB8051A SCN8051 SCN8051AH A733 MC1733 NE592 µA733 LM733 µA733 NE592 SE592 S61401 µA733 µA733M NE592 NE592-8 SE592		• SN54LS163A	SGS-Thomson	54LS163A		• SN54LS244	Motorola National SGS-Thomson	SN54LS244 54LS244		• SN74LS240	Panasonic SGS-Thomson	DM74LS240 74LS240	
• P80C31	OKI	P80C31 P80C31BH 80C31 M80C31 SC80C31 SAB8031A-16 P8051 P8051AH SAB8051 SAB8051A SCN8051 SCN8051AH A733 MC1733 NE592 µA733 LM733 µA733 NE592 SE592 S61401 µA733 µA733M NE592 NE592-8 SE592		• SN54LS164	Motorola National	SN54LS164 DM54LS164 54LS164		• SN54LS245	Motorola National	SN54LS245 54LS245		• SN74LS241	Hitachi Motorola National	DM74LS241 74LS241	
• P8031AH-15	Siemens	P80C31 P80C31BH 80C31 M80C31 SC80C31 SAB8031A-16 P8051 P8051AH SAB8051 SAB8051A SCN8051 SCN8051AH A733 MC1733 NE592 µA733 LM733 µA733 NE592 SE592 S61401 µA733 µA733M NE592 NE592-8 SE592		• SN54LS164	SGS-Thomson	54LS164		• SN54LS245	Signetics TI	SN54LS245 54LS245		• SN74LS241	Panasonic SGS-Thomson	DM74LS241 74LS241	
• P8051	Intel	P80C31 P80C31BH 80C31 M80C31 SC80C31 SAB8031A-16 P8051 P8051AH SAB8051 SAB8051A SCN8051 SCN8051AH A733 MC1733 NE592 µA733 LM733 µA733 NE592 SE592 S61401 µA733 µA733M NE592 NE592-8 SE592		• SN54LS168A	Motorola National	SN54LS168 DM54LS168 54LS168		• SN54LS251	Motorola National SGS-Thomson	SN54LS245 54LS245 SN54LS251		• SN74LS241	SGS-Thomson	DM74LS241 74LS241	
• P8051	Siemens	P80C31 P80C31BH 80C31 M80C31 SC80C31 SAB8031A-16 P8051 P8051AH SAB8051 SAB8051A SCN8051 SCN8051AH A733 MC1733 NE592 µA733 LM733 µA733 NE592 SE592 S61401 µA733 µA733M NE592 NE592-8 SE592		• SN54LS168A	SGS-Thomson	54LS168		• SN54LS251	SGS-Thomson	SN54LS251		• SN74LS241	Signetics TI	DM74LS241 74LS241	
• P8051	Signetics	P80C31 P80C31BH 80C31 M80C31 SC80C31 SAB8031A-16 P8051 P8051AH SAB8051 SAB8051A SCN8051 SCN8051AH A733 MC1733 NE592 µA733 LM733 µA733 NE592 SE592 S61401 µA733 µA733M NE592 NE592-8 SE592		• SN54LS169A	Motorola National	SN54LS169 DM54LS169 54LS169		• SN54LS253	Motorola National	SN54LS251 SN54LS251 SN54LS253		• SN74LS242	Motorola National	DM74LS242 74LS242	
• SE592	Adv Analog Motorola	P80C31 P80C31BH 80C31 M80C31 SC80C31 SAB8031A-16 P8051 P8051AH SAB8051 SAB8051A SCN8051 SCN8051AH A733 MC1733 NE592 µA733 LM733 µA733 NE592 SE592 S61401 µA733 µA733M NE592 NE592-8 SE592		• SN54LS169A	SGS-Thomson	54LS169		• SN54LS253	SGS-Thomson	DM7214 54LS253		• SN74LS243	Motorola National	DM74LS243 74LS243	
• SE592	National	P80C31 P80C31BH 80C31 M80C31 SC80C31 SAB8031A-16 P8051 P8051AH SAB8051 SAB8051A SCN8051 SCN8051AH A733 MC1733 NE592 µA733 LM733 µA733 NE592 SE592 S61401 µA733 µA733M NE592 NE592-8 SE592		• SN54LS174	TI	SN54LS169B SN54LS174 DM54LS174 54LS174		• SN54LS253	TI	T54LS253 SN54LS253		• SN74LS244	Hitachi Motorola National	DM74LS244 74LS244	
• SE592	Signetics	P80C31 P80C31BH 80C31 M80C31 SC80C31 SAB8031A-16 P8051 P8051AH SAB8051 SAB8051A SCN8051 SCN8051AH A733 MC1733 NE592 µA733 LM733 µA733 NE592 SE592 S61401 µA733 µA733M NE592 NE592-8 SE592		• SN54LS174	Motorola National	SN54LS174 DM54LS174 54LS174		• SN54LS273	Motorola National	SN54LS253 SN54LS273		• SN74LS244	Panasonic SGS-Thomson	DM74LS244 74LS244	
• SE592	SiliconG TI	P80C31 P80C31BH 80C31 M80C31 SC80C31 SAB8031A-16 P8051 P8051AH SAB8051 SAB8051A SCN8051 SCN8051AH A733 MC1733 NE592 µA733 LM733 µA733 NE592 SE592 S61401 µA733 µA733M NE592 NE592-8 SE592	(3643)	• SN54LS174	SGS-Thomson	54LS174		• SN54LS273	SGS-Thomson	SN54LS273 54LS273		• SN74LS244	SGS-Thomson	DM74LS244 74LS244	
• SN54LS138	Motorola National	SN54LS138 DM54LS138 54LS138		• SN54LS174	Signetics TI	54LS174 SN54LS174		• SN54LS373	Motorola National SGS-Thomson	SN54LS373 DM54LS373		• SN74LS273	Motorola National	SN74LS273 74LS273	
• SN54LS138	SGS-Thomson	T54LS138 54LS138 SN54LS138		• SN54LS175	Motorola National	SN54LS175 DM54LS175 54LS175		• SN54LS373	SGS-Thomson	T54LS373 54LS373		• SN74LS273	SGS-Thomson	T74LS273 74LS273	
• SN54LS139	Motorola National	SN54LS139 DM54LS139 54LS139		• SN54LS181	Motorola National SGS-Thomson	SN54LS181 54LS181		• SN54LS377	Motorola National	SN54LS373 SN54LS377		• SN74LS299	Motorola National	SN74LS299 74LS299	
• SN54LS139	SGS-Thomson	T54LS139 SN54LS139A SN54LS148 SN54LS148		• SN54LS181	TI	SN54LS181		• SN54LS377	SGS-Thomson	SN54LS377 54LS377		• SN74LS299	SGS-Thomson	DM74LS299 74LS299	
• SN54LS148	Motorola TI	SN54LS138 DM54LS138 54LS138 T54LS138 54LS138 SN54LS138 SN54LS139 DM54LS139 54LS139 T54LS139 SN54LS139A SN54LS148 SN54LS148		• SN54LS190	Motorola SGS-Thomson	SN54LS190 T54LS190		• SN54LS378	Motorola National	SN54LS377 SN54LS377 SN54LS378 54LS378		• SN74LS322	TI Motorola National	SN74LS299 74LS299 SN74LS322A	
			(Continued)	• SN54LS191	Motorola National	SN54LS190 SN54LS191 DM54LS191					(Continued)	• SN74LS323	Motorola National	SN74LS323 74LS323	

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Advanced Micro Devices (Cont'd)				♦ Z8002	SGS-Thomson	Z8002		27S21	AMD	AM27S21 MB7114		♦ 29S16/7	AD	ADSP1016/7A WTL1016/7	
				♦ Z8010	SGS-Thomson	Z8010			Fujitsu	DM74S287			Weitek	WTL2516/7D	
♦ SN74LS373	Panasonic	DN74LS373	(Cont'd)		Zilog	Z8010			National	N82S129A		♦ 29S16A/7	AD	ADSP1016/7A WTL1016/7	
	SGS-Thomson	T74LS373		♦ Z8030	SGS-Thomson	Z8030		27S29	AD	S82S129 S82S5129		♦ 29S520/1	Allegro	ULN3793	
	Signetics	74LS373				Z8030			OP15	PM157			Micro	BA343	
♦ SN74LS374	Motorola	SN74LS374		♦ Z8038	Exar	XR8038			PM157A	HL7649		♦ 29S520/1A	ROHM	KA2224	
	National	DM74LS374			Harris	ICL8038			LM7351	LF157A			Samsung	ULN3793	
		74LS374			SGS-Thomson	Z8038			LF157A	LF351			Micro	BA343	
♦ SN74LS374	SGS-Thomson	T74LS374		♦ Z8060	National	INS8060			LF351	μPC157		♦ 33C93	ROHM	KA2224	
	Signetics	74LS374			SGS-Thomson	Z8060			LF353	29621		♦ 53DA1643	Allegro	WD33C93	
	TI	SN74LS374				Z8060			NEC	KF351		♦ 53RA1681	Western	AM27S85	
♦ SN74LS377	Motorola	SN74LS377			Zilog	Z8068			Raytheon	PLS157			AMD	AM27S45A	
	National	74LS377			Zilog	Z8068			Samsung	LF351				AM27S47	
	SGS-Thomson	T74LS377			VLSI Tech	VLS85C30 (3702)			TI	LM7351		♦ 53RA1681	Cypress	CY7C245	
	Signetics	74LS377				Z8068			AMD	AM27S41			Fujitsu	MB7238	
♦ SN74LS378	Motorola	SN74LS378				Z8068				AM27S41A			Waferscale	WS57C45	
	National	74LS378				SGS-Thomson	CA85C30 (3569)			MB7152		♦ 53RA1681AS	AMD	AM27S45A	
	SGS-Thomson	T74LS378								DM77S195				AM27S45A	
	Signetics	74LS378				Zilog	Z8530		27S41	DM78S195		♦ 53RA1681AS	Cypress	AM27S47	
	TI	SN74LS378				AMD	AM26LS31			NB2HS195			Fujitsu	CY7C245	
♦ SN74LS379	Motorola	SN74LS379				Motorola	AM26LS31			NB2HS195A			Waferscale	WS57C45	
	National	74LS379				National	μA26LS31		TI	82HS195		♦ 53RA481	AMD	AM21L49	
	SGS-Thomson	T74LS379					DS26LS31		AMD	TBP34S162				AM27S25	
	TI	SN74LS379				Signetics	AM26LS31			AM27S43				AM27S25A	
♦ SN74LS399	Motorola	SN74LS399				TI	AM26LS31			AM27S43A		♦ 53RA481	Cypress	CY21L49	
	SGS-Thomson	T74LS399				AMD	AM26LS32			MB7142				CY7C225	
	TI	SN74LS399					AM26LS32			27CX321		♦ 53RA481	Motorola	MCM27S25	
	Motorola	SN74LS399					AM26LS32A			HL76321			National	DM77SR25	
	SGS-Thomson	T74LS399				AT&T	41LF			DM77S321				DM77SR25B	
	TI	SN74LS399				Motorola	AM26LS32			R29671D				DM77SR476	
	Motorola	SN74LS399				National	μA26LS32			29671A				DM77SR476B	
♦ SN74LS568	Motorola	SN74LS568					DS26LS32			NB2H321				DM87SR25	
♦ SN74LS569	Motorola	SN74LS569					AM26LS32A			WS57C43B				DM87SR25B	
	Signetics	74LS569				TI	AM26LS32AM			AM27S49				DM87SR474	
♦ SN74S138	National	DM74S138					41LG			ATME1				DM87SR476	
		74S138					29653							DM87SR476B	
♦ SN74S138	Signetics	74S138		♦ 27PS185	Raytheon	29653		27S49				♦ 53RA481AS	AMD	AM21L49	
	TI	SN74S138			Raytheon	29683								AM27S25	
♦ SN74S182	National	DM74S182			AMD	AM27S185			Cypress	CY7C261				AM27S25A	
		74S182			Fujitsu	MB7128				CY7C263		♦ 53RA481AS	Cypress	CY21L49	
♦ SN74S182	TI	SN74S182			Hitachi	HN25085				CY7C264				CY7C225	
♦ SN74S189	AMD	AM27LS03			Lansdale	HL7685				MBM7144		♦ 53RA481AS	Motorola	MCM27S25	
		AM27S03			National	DM87S185				MB7144			National	DM77SR25	
	Cypress	CY27LS03M			Raytheon	29651				DM77144E				DM77SR25B	
		CY27S03				29651A				27CX641				DM77SR476	
		CY7C189			Signetics	N82S185				27HC641				DM77SR476B	
		CY74S189				S82S185				32Z565				DM87SR25	
		DM74S189			TI	24S81-55				93Z665				DM87SR25B	
		DM7599			AMD	AM27LS19				93Z667				DM87SR474	
		DM8599				AM27S19				93Z667C				DM87SR476	
		54F189				MB7112				μPD27HC65		♦ 53RA481S	AMD	DM87SR476B	
♦ SN74S251	National	DM74S251			Fujitsu	HL7603			NEC	LH5749				AM21L49	
	Signetics	74S251			National	DM74S288			Sharp	LH5749J				AM27S25	
	TI	SN74S251				DM8578				LH5749J				AM27S25A	
♦ SN74S373	Signetics	74S373			Signetics	NB2S123				NB2HS641		♦ 53RA481S	Cypress	CY21L49	
	TI	SN74S373				NB2US123				27HC641				CY7C225	
♦ SN74S374	Signetics	74S374				82S123				27HC642				CY7C225	
	TI	SN74S374				AM27S191				82HS641		♦ 53RA481S	Motorola	MCM27S25	
♦ SN74S557	LogicDev	LMU557			AMD	AM27S191A				SS1203			National	DM77SR25	
♦ SN74S558	AMD	AM25S558				AM27S191SA				TMS278C49				DM77SR25B	
	LogicDev	LMU557				AT28HC191				WS57C49				DM77SR476	
		LMU558			ATMEL	AT28HC191L				WS57C49B				DM77SR476B	
♦ SSM6167	AMD	AM2167				CY7C291		♦ 27256-25	Intel	27256-25				DM87SR25	
	Cypress	CY7C167A				CY7C292			Microchip	27256-25				DM87SR25B	
	Harris	HM65262				CY7C292A			SGS-Thomson	27256-25				DM87SR474	
	Hitachi	HM6267				CY7C292AL				M27256-25				DM87SR476	
	IDT	IDT6167				CY7C292A				AT28C256		♦ 53RS1681	AMD	DM87SR476B	
	Intel	51C66				HN25169				AT28HC256				AM27S45	
		51C67				MCM76101				HN58C256				AM27S47	
♦ SSM6167	LogicDev	L7C167				MCM76160				28CP256A		♦ 53RS1681	Cypress	AM27S45A	
	MicronTech	MT5C1601				DM77S191				28C256B				AM27S47	
	Mitsubishi	M5M21C67				DM87S191				μPD28C256		♦ 53RS1681S	Fujitsu	CY7C245	
	Motorola	MCM2167				DM87S291				KM28C256				MB7238	
	NEC	μPD4311				DM87S291A				28C256		♦ 53RS1681S	Waferscale	WS57C45	
	S-MOS	SRM2267				DM87S291B				28256			AMD	AM27S45A	
		SRM2367				93Z510				STK28C256				AM27S47	
♦ SSM6167	Saratoga	SSM6167				93Z511				X28C256 (3745)		♦ 53RS1681S	Cypress	CY7C245	
	SGS-Thomson	IMS1403				93Z512				X28256 (3745)				MB7238	
		MK41H66				93Z511				ISP9520				WS57C45	
		MK41H67				NB2S191		♦ 29C520	Harris	IDT29FCT520A		♦ 53RS881	AMD	AM27S35	
♦ SSM6167	Sharp	LH5167				NB2S191A			IDT	L29C520				AM27S37	
♦ SSS725	AD	OP06				82S191			LogicDev	W59520 (3717)		♦ 53RS881	Cypress	CY7C235	
		OP77				TBP38L166				ISP9521				MCM27S35	
♦ SSS725	National	μA725				TMS27C291				IDT29FCT521A				DM87SR181	
		LM725				TMS27C292				L29C521		♦ 53S081	AMD	AM27LS19	
						WS57C191				W59521 (3717)				AM27S19	
						WS57C291B				CY2910A				27S19	
									2910A						

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Advanced Micro Devices (Cont'd)				• 5340-1	National	DM54S475 DM77S295 DM87S295		• 63RA481	National	(Cont'd)		• 63S141A	Signetics	S82S129 S82S5129	(Cont'd)
• 53S081	Fujitsu	MB7112		• 5341-1	National	DM54S474						• 63S1641	AMD	AM27S41 AM27S41A	
	Lansdale	HL7603		• 5348-1	Fujitsu	DM77123		• 63RA481AS	AMD	DM87SR476B		• 63S1641	Fujitsu	MB7152	
	National	DM74S288			National	DM54S473						• 63S1641	National	DM77S195	
• 53S081	Signetics	DM8578		• 5349-1	AMD	27S29						• 63S1641	Signetics	DM87S195	
		N82S123			AD	OP15		• 63RA481AS	Cypress	PM157				N82HS195	
		N82US123				PM157A						• 63S1641		N82HS195A	
• 53S140	National	82S123		• 5349-1	Lansdale	HL7649		• 63RA481AS	Motorola	CY7C225		• 63S1641	TI	82HS195	
	Signetics	DM54S387			Motorola	LF351			National	MCM27S25		• 63S1641	AMD	TBP34S162	
		N82S126			National	LF157A				DM77SR25		• 63S1641A		AM27S41	
• 53S141	National	S82S126		• 5349-1	NEC	LF351				DM77SR25B				AM27S41A	
• 53S1641	AMD	DM54S287			Raytheon	μPC157		• 63RA481S	AMD	DM77SR476B		• 63S1641A	Fujitsu	27S41	
		AM27S41			Samsung	29621				DM87SR25		• 63S1641A	National	MB7152	
		AM27S41A			Signetics	KF351		• 63RA481S	Cypress	DM87SR25B				DM77S195	
		27S41			TI	PLS157				DM87SR474		• 63S1641A	Signetics	DM87S195	
• 53S1641	Fujitsu	MB7152		• 5352-1	Lansdale	LF351		• 63RA481S	AMD	DM87SR476		• 63S1641A		N82HS195	
	National	DM77S195			National	LF353				DM87SR476B		• 63S1641A	TI	N82HS195A	
• 53S1641	Signetics	DM87S195		• 5353-1	AMD	HL7642		• 63RA481S	Cypress	AM21L49		• 63S1641A	TI	82HS195	
		N82HS195			Fujitsu	DM54S572				AM27S25A		• 63S1681	AMD	TBP34S162	
		N82HS195A			Lansdale	93452		• 63RA481S	Motorola	CY7C225				AM27S191	
• 53S1641	TI	82HS195		• 5353-1	AMD	AM27S33				CY7C225		• 63S1681	Cypress	AM27S291	
• 53S1681	AMD	TBP34S162			Fujitsu	MB7122		• 63RA481S	AMD	MCM27S25				AM27S291A	
		AM27S191			Lansdale	HL7643				DM77SR25		• 63S1681	Fujitsu	AM27S291A	
		AM27S191A		• 53581-1	National	DM74S573				DM77SR25B			Motorola	CY7C291	
		AM27S191SA			AMD	AM27S181				DM77SR476			National	MB7138	
• 53S1681	ATMEL	27S191			Cypress	CY7C282M				DM77SR476B		• 63S1681	Raytheon	MCM76	
		AT28HC191			Gould AMI	S25089				DM87SR25			TI	DM878291	
• 53S1681	Cypress	AT28HC191L			Hitachi	HN25089		• 63RA881	AMD	DM87SR25B		• 63S1681	Waferscale	932511	
		CY7C291			Lansdale	HL7681				DM87SR474				29683A	
		CY7C292			National	DM77LS181		• 63RA881	Cypress	DM87SR476		• 63S1681A	AMD	TBP38A166	
		CY7C292A				DM77S281				DM87SR476B				TBP38S166	
• 53S1681	Hitachi	HN25169		• 5381-1	Raytheon	DM87S181						• 63S1681	AMD	WS57C191	
	Motorola	MCM76101				DM87S281		• 63RA881	Motorola	AM27S35		• 63S1681A	AMD	WS57C291B	
		MCM76160				932451				AM27S37				AM27S191	
• 53S1681	National	DM77S191		• 5381-1	Signetics	29631		• 63RA881	Cypress	CY7C235				AM27S291	
		DM87S191				29631AM				MCM27S35		• 63S1681A	Cypress	AM27S291A	
		DM87S291				S82S181		• 63RS1681	AMD	DM87SR181				AM27S291SA	
		DM87S291A				82S181				AM27S45A		• 63S1681A	Motorola	CY7C291	
		DM87S291B		• 5381-1	STC	STC5089				AM27S47			National	MB7138	
		932510			TI	28586-60		• 63RS1681	Cypress	CY7C245		• 63S1681A	Raytheon	MCM76	
		932511				DM77S185			Fujitsu	MB7238			TI	DM878291	
		932512		• 5389-1	National	29651AM			Waferscale	WS57C45		• 63S1681A	Waferscale	932511	
		932511			Raytheon	C57L401		• 63RS1681AS	AMD	AM27S45				TBP38A166	
• 53S1681	Signetics	N82S191		57401	AMD	C57401				AM27S45A		• 63S1681A	Waferscale	TBP38S166	
		N82S191A				C67401				AM27S47		• 63S1681A	Waferscale	WS57C191	
		82S191				67C401		• 63RS1681AS	Cypress	CY7C245		• 63S240	Fujitsu	WS57C291B	
• 53S1681	TI	TBP38L166			IDT	IDT72401			Fujitsu	MB7238			National	MB7115	
		TMS27C291			National	DM77S401		• 63RS1681S	Waferscale	WS57C45			Signetics	DM74S570	
		TMS27C292				74F413			AMD	AM27S45		• 63S241	AMD	S82S130	
• 53S1681	Waferscale	WS57C191		57402	AMD	C57402				AM27S45A				S82S130	
		WS57C291B				C57402A		• 63RS1681S	Cypress	AM27S47		• 63S241	AMD	AM27S13	
• 53S240	National	DM54S570				C67402			Fujitsu	CY7C245			Harris	ICL7621	
• 53S241	National	DM54S571				C67402A		• 63RS881	Waferscale	MB7238			Lansdale	HL7621	
• 53S3281	AMD	AM27S43			IDT	C67402			AMD	WS57C45			Maxim	ICL7621	
		AM27S43A			National	IDT72402		• 63RS881	AMD	AM27S35			MicroPwr	MP7621	
		27S43				DM77S402				AM27S37		• 63S241	National	DM74S571	
• 53S3281	Fujitsu	MB7142				DM77S402A		• 63RS881	Cypress	CY7C235			Signetics	DM74S571A	
	ICT	27CX321				DM87S402A			Motorola	MCM27S35		• 63S241		N82S131	
	Lansdale	HL76321		• 57413	AMD	67C4033		• 63S080	National	DM87SR181			Signetics	S82S131	
	National	DM77S321				67413			Signetics	N82S23		• 63S281		N82S135	
	Raytheon	R29671D		• 57413	IDT	IDT72413				N82US123		• 63S281A	AMD	63S281	
		29671			Weitek	WTL1065		• 63S080	TI	S82S23			Signetics	N82S135	
		29671A				WTL1265		• 63S081	AMD	TBPSAO30		• 63S3281	AMD	AM27S43	
• 53S3281	Signetics	N82H321		• 63DA1643	AMD	AM27S85				AM27LS19				AM27S43A	
	Waferscale	WS57C43B		• 63D1641	AMD	AM27S85				AM27S19		• 63S3281	Fujitsu	27S43	
• 53S3281B	Intel	3632-1		• 63RA1681	AMD	AM27S85		• 63S081	Fujitsu	27S19			ICT	MB7142	
		82HS321				AM27S45A			Lansdale	MB7112			Lansdale	27CX321	
• 53S441	Motorola	MCM7643M				AM27S47		• 63S081	National	HL7603			National	HL76321	
	National	DM54S573		• 63RA1681	Cypress	CY7C245				DM74S288			Raytheon	DM77S321	
		DM54S573A			Fujitsu	MB7238				DM8578				R29671D	
• 5300-1	National	DM54S387			Waferscale	WS57C45		• 63S081	Signetics	N82S123				29671	
	Signetics	N82S126		• 63RA1681AS	AMD	AM27S45				N82US123		• 63S3281	Signetics	29671A	
		S82S126				AM27S45A		• 63S140	National	82S123			Waferscale	N82H321	
• 5301-1	National	DM54S287				AM27S47			Signetics	DM54S387		• 63S441	AMD	WS57C43B	
• 5305-1	National	DM54S570		• 63RA1681AS	Cypress	CY7C245				N82S126				AM27S33	
• 5306-1	National	DM54S571			Fujitsu	MB7238		• 63S141	AMD	S82S126			Fujitsu	MB7122	
• 5308	National	DM54S470			Waferscale	WS57C45				AM27S21		• 63S481	Lansdale	HL7643	
• 5330-1	National	DM54S188		• 63RA481	AMD	AM21L49				27S21			National	DM74S573	
		DM7577				AM27S25		• 63S141	Fujitsu	MB7114			AMD	AM27S29	
• 5331-1	AMD	AM27LS19				AM27S25A			National	DM74S287		• 63S481	Fujitsu	MB7124	
		AM27S19		• 63RA481	Cypress	CY21L49			Signetics	N82S129A			National	DM74S472	
		27S19				CY7C225				S82S129			Raytheon	29623	
• 5331-1	Fujitsu	MB7112		• 63RA481	Motorola	MCM27S25		• 63S141A	AMD	S82S5129			Signetics	N82S147	
	Lansdale	HL7603			National	DM77SR25				AM27S21		• 63S485	AMD	N82S147A	
	National	DM74S288				DM77SR25B		• 63S141A	Fujitsu	27S21				S82S147	
		DM8578				DM77SR476				MB7114				AM27S31	
• 5331-1	Signetics	N82S123				DM77SR476B		• 63S141A	National	DM74S287			Harris	HM6642	
		N82US123				DM87SR25			Signetics	N82S129A			National	DM74S474	
		82S123				(Continued)				(Continued)				(Continued)	

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Advanced Micro Devices (Cont'd)				6352	Lansdale National	HL7642 DM54S572 93452		67C4501	Dallas IDT	DS2009 IDT7201 IDT7201A IDT7201LA IDT7201SA	(Cont'd)	723	National	µA723M LM723 LM723 LM723	(Cont'd)
63S485	Signetics	N82S141 S82S141 27S185	(Cont'd)	63S481	AMD Fujitsu National Raytheon Signetics	AM27S29 MB7124 DM74S472 29623 N82S147 N82S147A S82S147			MicronTech Samsung Saratoga SGS-Thomson	MT52C9005 KM75C01A SSL7201		723	NEC Samsung SGS-Thomson	µA723 LM723 µA723 µA723M A733	
63S841	AMD	AM27S185 27S185		6380-1	National	DM87S180 DM87S229			Sharp TI	MK4501 LH5496 SN74ACT7201 TACT7201		733	Adv Analog Motorola	MC1733 NE592	
63S841	Fujitsu Hitachi Lansdale National Raytheon	MB7128 HN25085 HL7685 DM87S185 29651 29651A		6381	AMD Cypress Gould AMI Hitachi Lansdale National	AM27S181 CY7C282M S25089 HN25089 HL7681 DM77S181 DM77S281 DM87S181 DM87S281 932451		67C4502	Vitellic AMD Dallas IDT	V61C01 AM67C4502 AM7202 DS2010 IDT7202 IDT7202A IDT7202LA IDT7202SA		733	National	µA733 LM733	
63S841	Signetics	N82S185 S82S185		6381	Raytheon	29631 29631AM			MicronTech Mosel Plessey Samsung	MT52C9010 MS7202A MV61901 KM75C02 KM75C02A		733	Signetics	µA733 NE592 SE592	
63S841	TI	24S81-55		6381	STC TI	STC5089 28586-60			Saratoga Sharp TI	SSL7202 LH5497 SN74ACT7202 TACT7202		733	SiiconG TI	µA733 µA733M NE592 NE592-8 SE592	(3642)
63S881	AMD	AM27S181 Cypress Gould AMI Hitachi Lansdale National		6381-1	AMD Cypress Gould AMI Hitachi Lansdale National	DM77S181 DM77S281 DM87S181 DM87S281 932451			Vitellic IDT Weitek	V61C02 IDT721264 WTL1064 WTL1264		733	SiiconG	µA733 µA733M NE592 NE592-8 SE592	(3643)
63S881	Raytheon	29631		6381-1	AMD	DM77S181 DM77S281		67C5013	AD Weitek	ADSP1016/7A WTL2516/7D		74LS645-1	Motorola SGS-Thomson	SN74LS645 SN74LS645-1 74LS645	
63S881	Signetics	29631AM N82S181 S82S181		6381-1	Signetics	N82S181 S82S181		67C7016/7	AD Weitek	ADSP1016/7A WTL2516/7D		74LS645-1	TI	SN74LS645 SN74LS645-1 SN74LS645	
63S881	STC TI	STC5089 28586-60		6381-1	STC TI	STC5089 28586-60		67C7016/7	AD Weitek	ADSP1016/7A WTL2516/7D		74S225	TI	SN74S225	
6301-1	AMD	AM27S21 27S21		6389	AMD	AM27S185 27S185		67L4013D	AMD IDT	67C4013 IDT72403		74S225A	TI	SN74S225A	
6301-1	Fujitsu National Signetics	MB7114 DM74S287 N82S129A S82S129 S82S129		6389-1	Fujitsu Hitachi Lansdale National Raytheon	MB7128 HN25085 HL7685 DM87S185 29651		67L4501	AD Weitek	ADSP1016/7A WTL2516/7D		74S556	AD Harris LogicDev AMD	LMU17 LMU18 AM25S558 LMU557 LMU558	
6305-1	Fujitsu National Signetics	MB7115 DM74S570 N82S130 S82S130		6389-1	Signetics	N82S185 S82S185		67L4501	AMD	AM67C4501 AM7201 67C4501		74S558	AD Harris Hitachi MicroPwr Motorola National	OP04 CA0747 HA17747 MP0P04 MC1747 µA747 LM747	
63081	AMD	AM27S19 AM27S19 27S19		6389-1	STC TI	STC5089 28586-60		67L4501	Dallas IDT	DS2009 IDT7201 IDT7201A IDT7201LA IDT7201SA		747	NEC Raytheon	µPC1418 RC747 RM747	
63081	Fujitsu Lansdale National	MB7112 HL7603 DM74S288 DM8578		6389-1	AMD	AM27S185 27S185		67L4501	MicronTech Samsung Saratoga SGS-Thomson	MT52C9005 KM75C01A SSL7201		747	Signetics TI	µA747 µA747M MC75401	
63081	Signetics	N82S123 N82US123 82S123		6389-1	Signetics	N82S185 S82S185		67L4502	Sharp TI	LH5496 SN74ACT7201 TACT7201		75401	Motorola National Intel	DS75461 80186	
6330	S-MOS	SLA6330		6389-1	TI	24S81-55		67L4501	Vitellic	V61C01		80186	Krueger Siemens	80186 SAB80186	(3513)
6331-1	AMD	AM27S19 AM27S19 27S19		6389-1	AMD	AM27S185 27S185		67L4502	AMD	AM67C4502 AM7202		80188	Intel	80188 SAB80188	
6331-1	Fujitsu Lansdale National	MB7112 HL7603 DM74S288 DM8578		6389-1	Fujitsu Hitachi Lansdale National Raytheon	MB7128 HN25085 HL7685 DM87S185 29651		67L4502	Dallas IDT	DS2010 IDT7202 IDT7202A IDT7202LA IDT7202SA		80286	Harris Intel Krueger	80C286 80286 80286	(3513)
6331-1	Signetics	N82S123 N82US123 82S123		6389-1	Signetics	N82S185 S82S185		67L4502	MicronTech Mosel Plessey	MT52C9010 MS7202A MV61901		8035	Intel National Siemens	8035 INS8035 SAB8031A	
6340-1	Lansdale National	HL7640 DM74S475 DM77S475 DM87S475		6389-1	TI	24S81-55		67L4502	Saratoga Sharp TI	SSL7202 LH5497 SN74ACT7202 TACT7202		8041	Intel	8041A	
6349-1	AMD AD	27S29 OP15 PM157 PM157A		67C401	AMD	C57L401 C57401 C67401 57401		67L4502	Sharp TI	LH5497 SN74ACT7202 TACT7202		8048	Intel National Signetics	8048 INS8048 SCN8048	
6349-1	Lansdale Motorola National	HL7649 LF351 LF157A LF351 LF353		67C4013 67C402	IDT AMD	DM77S401 74F413 IDT72403 C57402 C57402A C67402 C67402A		67L4502	Vitellic National AMD	V61C02 DM87S402 C57L401 C57401 C67401		8085	Intel	8085 8085A	
6349-1	NEC Raytheon Samsung Signetics TI	µPC157 29621 KF351 PLS157 LF351 LF353		67C4023 67C4033	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Saratoga Sharp TI	SSL7202 LH5497 SN74ACT7202 TACT7202		8085A	Toshiba	TMP8085 TMP8085A	
6349-2	AMD Fujitsu National Raytheon Signetics	AM27S29 MB7124 DM74S472 29623 N82S147 N82S147A S82S147		67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Vitellic National AMD	V61C02 DM87S402 C57L401 C57401 C67401		8085A	Intel	8085 8085A	
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Saratoga Sharp TI	SSL7202 LH5497 SN74ACT7202 TACT7202		8088	Toshiba	TMP8088 TMP8088A	
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Vitellic National AMD	V61C02 DM87S402 C57L401 C57401 C67401		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Saratoga Sharp TI	SSL7202 LH5497 SN74ACT7202 TACT7202		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Vitellic National AMD	V61C02 DM87S402 C57L401 C57401 C67401		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Saratoga Sharp TI	SSL7202 LH5497 SN74ACT7202 TACT7202		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Vitellic National AMD	V61C02 DM87S402 C57L401 C57401 C67401		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Saratoga Sharp TI	SSL7202 LH5497 SN74ACT7202 TACT7202		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Vitellic National AMD	V61C02 DM87S402 C57L401 C57401 C67401		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Saratoga Sharp TI	SSL7202 LH5497 SN74ACT7202 TACT7202		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Vitellic National AMD	V61C02 DM87S402 C57L401 C57401 C67401		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Saratoga Sharp TI	SSL7202 LH5497 SN74ACT7202 TACT7202		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Vitellic National AMD	V61C02 DM87S402 C57L401 C57401 C67401		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Saratoga Sharp TI	SSL7202 LH5497 SN74ACT7202 TACT7202		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Vitellic National AMD	V61C02 DM87S402 C57L401 C57401 C67401		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Saratoga Sharp TI	SSL7202 LH5497 SN74ACT7202 TACT7202		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Vitellic National AMD	V61C02 DM87S402 C57L401 C57401 C67401		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Saratoga Sharp TI	SSL7202 LH5497 SN74ACT7202 TACT7202		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Vitellic National AMD	V61C02 DM87S402 C57L401 C57401 C67401		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Saratoga Sharp TI	SSL7202 LH5497 SN74ACT7202 TACT7202		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Vitellic National AMD	V61C02 DM87S402 C57L401 C57401 C67401		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Saratoga Sharp TI	SSL7202 LH5497 SN74ACT7202 TACT7202		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Vitellic National AMD	V61C02 DM87S402 C57L401 C57401 C67401		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Saratoga Sharp TI	SSL7202 LH5497 SN74ACT7202 TACT7202		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Vitellic National AMD	V61C02 DM87S402 C57L401 C57401 C67401		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Saratoga Sharp TI	SSL7202 LH5497 SN74ACT7202 TACT7202		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Vitellic National AMD	V61C02 DM87S402 C57L401 C57401 C67401		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Saratoga Sharp TI	SSL7202 LH5497 SN74ACT7202 TACT7202		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Vitellic National AMD	V61C02 DM87S402 C57L401 C57401 C67401		8088	Intel	8088 8088	(3493) (3513)
				67C4013 67C402	IDT AMD IDT Weitek	IDT72404 67413 IDT72413 WTL1065 WTL1265		67L4502	Saratoga Sharp TI	SSL7202 LH5497 SN74ACT7202 TACT7202		8088	Intel	8088 8088</	

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Advanced Micro Devices (Cont'd)				(Cont'd)											
• 82C284	Newbridge	CA82C284	(Cont'd)	• 8251	OKI	MSM82C51	(Cont'd)	• BCM21C14	Mitsubishi	M5L2114	(3513)	• SCL4007	SGS-Thomson	HCC4007	(3513)
	Samsung	KS82C284		• 8257	S-MOS	SMC82C51AC			Motorola	M5L2114				HCF4007	
82C54	UMC	UM82C284		• 8279-5	Intel	8257		• BCM21C14	OKI	NMC2114A		• SCL4007	Signetics	HEF4007	
	AMD	D82C54			Intel	8279			Rockwell	MSM2114		• SCL4008	Toshiba	TC4007UB	
	Harris	CP82C54		8287	NEC	μPD8279			Sharp	R6514			Harris	CD4008B	
		82C54			Harris	82C87H		• BCM2114	Toshiba	LH2114			Motorola	MC14008	
	Intel	82C54				82C87			UMC	TMM2114A			National	CD4008	
		82C54				8287			AMD	UM6114		• SCL4008		F4008	
	Mitsubishi	M5M82C54			NEC	μPD71087			Intel	AM9114			SGS-Thomson	MM74C83	
		8254			OKI	MSM82C87			Krueger	2114A				HCC4008	
		M5M82C54P		• 8304	Harris	82C86H				2114-150 (3513)				HCF4008	
	NEC	μPD71054			Intel	82C86		• BCM2114	Mitsubishi	2114-200 (3513)		• SCL4008	Signetics	HEF4008	
	Newbridge	CA82C54	(3569)	• 8304	National	8286			Motorola	M5L2114		• SCL4009	Toshiba	TC4008B	
	OKI	MSM82C54		• 8304	NEC	DP8304			National	F2114			Harris	MC14009	
	Samsung	KS82C54			OKI	μPD71086		• BCM2114		NMC2114A			National	CD4009	
	VLSI Tech	VL82C54		• 87097	AMD	MSM82C86			OKI	MSM2114			SGS-Thomson	HCC4009	
	Harris	CP82C52			National	PAL16L8A			Rockwell	R6514		• SCL4009		HCF4009	
• 82C82		82C82		• 87097		PAL16L8A			Sharp	LH2114		• SCL4010	Toshiba	TC4009UB	
• 82C82	Intel	82C82		• 87097	Samsung	16P882			Toshiba	TMM2114A			Harris	CD4009UB	
• 82C82		8282			TI	CPL16L8-25		• BCM5101	UMC	UM6114			Motorola	MC14010	
• 82C82	NEC	μPD71082				TIBPAL16L8-30			Harris	HA5101			National	CD4010	
• 82C83	OKI	MSM82C82				TIBPAL16L8A			Intel	5101			SGS-Thomson		
• 82C83	Harris	82C83H		• 9264	Microchip	RO9464			MicroNet	MN5101 (3547)				HCC4010	
• 82C83	Intel	82C83			National	MM52164			Mitsubishi	M5L5101		• SCL4010	Toshiba	HCF4010	
		8283			Signetics	26S64			Motorola	MCM51L01		• SCL4011	Motorola	TC4010B	
• 82C83	NEC	μPD71083		• 9280		2664				MCM145101			National	MC14011	
• 82C86	OKI	MSM82C83			Fujitsu	MB7118		• BCM5101	National	MM74C920			SGS-Thomson	CD4011	
• 82C86	Harris	82C86H			Signetics	N82LS135			Panasonic	MNS101				HCC4011	
• 82C86	Intel	82C86		• 99C60	TI	28L22			Sharp	LH5101				HCF4011	
		8286			Motorola	MCM6271		• BCM6167	AMD	AM2167		• SCL4011	Signetics	HEF4011	
• 82C86	National	DP8304			SGS-Thomson				Cypress	CY7C167A		• SCL4012	Harris	CD4012B	
	NEC	μPD71086				MK4170			Harris	HM65262			Motorola	MC14012	
• 82C87	OKI	MSM82C86		• 99C88	VLSI Tech	CT2078			Hitachi	HM6267			National	CD4012	
• 82C87	AMD	8287			Cypress	VT2079			IDT	IDT6167		• SCL4012		F4012	
	Harris	82C87H		• 99C88		CY7C182			Intel	51C66			SGS-Thomson		
	Intel	82C87				CY7C185		• BCM6167	LogicDev	51C67				HCC4012	
		8287		• 99C88	EDI	CY7C186			MicronTech	L7C167		• SCL4012		HCF4012	
• 82C87	NEC	μPD71087				EDI8808			Mitsubishi	MT5C1601			Signetics	HEF4012	
• 82C88	OKI	MSM82C87		• 99C88	Fujitsu	MB82B79		• BCM6167		M5M21C67		• SCL4012	Toshiba	TC4012B	
• 82C88	AMD	D82C288			Harris	HM65642			Motorola	MCM2167		• SCL4013	Harris	CD4013B	
	Harris	MD82C288			IDT	DS9264			NEC	μPD4311			Motorola	MC14013	
	Intel	82C288				IDT7164		• BCM6167	S-MOS	SRM2267			National	CD4013	
		82288		• 99C88		IDT7164S				SRM6167				F4013	
• 82C88	Samsung	KS82C288			MicronTech	MT5C6408			Saratoga	SSM6167		• SCL4013	OKI	MM74C74	
• 82005	UMC	UM82C288			Mitsubishi	M5M5179			SGS-Thomson				SGS-Thomson	MSM4013	
• 82025	Intel	82005		• 99C88	Mosel	MS6264				IMS1403				HCC4013	
• 8216	SEEQ	82005			Motorola	MCM6264		• BCM6167	Sharp	MK41H66		• SCL4013	Signetics	HCF4013	
	Intel	82025				MCM6265			Motorola	MK41H67		• SCL4014	Harris	CD4013B	
	National	8216			National	μPD4364		• SCL4000		LH5167			Motorola	CD4014B	
		DP8216			NEC	P4C164			National	MC14000		• SCL4014	Signetics	HEF4013	
• 8224		INS8216			Performance			• SCL4000		MC14000B		• SCL4014	Harris	CD4014B	
	Intel	8224			SGS-Thomson					CD4000			Motorola	MC14014	
	National	DP8224				IMS1630		• SCL4000	SGS-Thomson	CD4000B			National	CD4014	
• 8224		INS8224				CKX55863				HCC4000		• SCL4014		F4014	
• 8226	Intel	S8224			Toshiba	TMM2088P		• SCL4000		HCC4000B			SGS-Thomson	HCC4014	
	Mitsubishi	8226			UMC	UM6164			Signetics	HCF4000		• SCL4014	Signetics	HCF4014	
	National	M5L8226			Vitellic	V63C64P			Toshiba	HCF4000B			Toshiba	HEF4014	
		DP8226			VLSI Tech	VT20C98		• SCL4000		HEF400		• SCL4015	Harris	TC4014B	
• 8228		INS8226								TC4000B			Motorola	CD4015B	
	Intel	8228						• SCL4001		CD4001UB		• SCL4015	National	MC14015	
	National	DP8228							Motorola	MC14001UB				CD4015	
• 8228	TI	INS8228							National	CD4001UB		• SCL4015		F4015	
		SN74S428						• SCL4001		F4001			OKI	MM74C164	
8237A	AMD	TIM8228							OKI	MM74C02		• SCL4015	SGS-Thomson	MSM4015	
		AM8237A								MSM4001				HCC4015	
	Harris	D8237A						• SCL4002	Toshiba	TC4001UB				HCF4015	
		CP82C37A							Harris	CD4002B		• SCL4015	Signetics	HEF4015	
		82C37A			SGS-Thomson				Motorola	MC14002			Toshiba	TC4015B	
	Intel	8037A				TDA2002		• SCL4002	National	CD4002		• SCL4016	Harris	CD4016B	
		82C37A				ML510				F4002			Motorola	MC14016	
		8237			MicroLinear				SGS-Thomson					MC14066	
		8237A-4				TDA2030		• SCL4002		HCC4002		• SCL4016	National	CD4016	
		8237A-5			National	TDA2030			Signetics	HCF4002				CD4066	
	Mitsubishi	M5M82C37A			National	TDA2591		• SCL4002	Toshiba	HEF4002				F4016	
		M5M82C37AP			Plessey	TDA2593			Harris	TC4002B		• SCL4016		F4066	
	NEC	μPD71037			SGS-Thomson	TDA2593		• SCL4006		CD4006B			SGS-Thomson		
		μPD8237A				TDA2593			Motorola	MC14006		• SCL4016		HCC4016	
	Newbridge	CA82C37A	(3569)		Signetics	TDA2593			National	CD4006				HCF4016	
	OKI	MSM82C37A		• U417B	AEG Corp	TDA1083				F4006		• SCL4016	Signetics	HEF4016	
	S-MOS	SMC82C37A			Allegro	ULN2204		• SCL4006		F4006B				HEF4066	
	Samsung	KS82C37A			Micro				SGS-Thomson			• SCL4016	Toshiba	TC4016B	
		KS8237A								HCC4006				TC4066B	
	Toshiba	TMP82C37						• SCL4006	Signetics	HCF4006		• SCL4016		CD4066	
• 8251	VLSI Tech	VL82C37A		• BCM21C14	AMD	AM9114			Toshiba	TC4006B		• SCL4016	Unitrode	PIC7516	
	Intel	P8251			Intel	2114A		• SCL4007	Harris	CD4007B		• SCL4017	Motorola	MC14017	
		82C51			Krueger	2114-150 (3513)			Motorola	MC14007			National	CD4017	
• 8251	National	INS8251				2114-200 (3513)			National	CD4007				F4017	
	NEC	μPD8251A				2114-450 (3513)				F4007					
			(Continued)				(Continued)				(Continued)				(Continued)

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Allegro Micro Systems (Cont'd)				SCL4027	SGS-Thomson	(Cont'd)		SCL4047	Harris National	CD4047B CD4047 F4047		SCL4069	OKI SGS-Thomson	MSM4069 HCC4069 HCF4069	
SCL4017	SGS-Thomson	HCC4017 HCF4017		SCL4027	Signetics	HCC4027B HCF4027B HEF4027		SCL4047	SGS-Thomson	HCC4047 HCF4047		SCL4069	Signetics	TC4069UB	
SCL4017	Signetics	TC4017B		SCL4027	Toshiba	CD4027B		SCL4047	Signetics	HEF4047		SCL4070	Toshiba	CD4070B	
SCL4018	Motorola	MC14018		SCL4028	Harris	CD4028B		SCL4049	Harris	CD4049UB		SCL4070	Motorola	MC14070	
	National	CD4018 F4018			Motorola	CD4028 F4028			Motorola	MC14049			National	CD4070 F4070	
SCL4018	SGS-Thomson	HCC4018 HCF4018			National	CD4028 F4028			National	CD4049 F4049				MM74C86	
SCL4018	Signetics	HEF4018		SCL4028	OKI	MM74C42 MSM4028		SCL4049	OKI	MSM4049		SCL4070	SGS-Thomson	HCC4070 HCF4070	
SCL4019	Toshiba	TC4018B			SGS-Thomson	HCC4028 HCF4028			SGS-Thomson	HCC4049 HCF4049		SCL4070	Signetics	HEF4070	
SCL4019	Harris	CD4019B		SCL4028	Signetics	HEF4028		SCL4049	Signetics	HEF4049		SCL4071	Harris	CD4071B	
	National	CD4019 F4019			Toshiba	CD4028B			Toshiba	TC4049B			Motorola	MC14071	
SCL4019	OKI	MSM4019		SCL4029	Harris	CD40192B CD4029B		SCL4050	Harris	CD4050B		SCL4071	National	CD4071B	
	SGS-Thomson	HCC4019 HCF4019			Motorola	MC14029 CD40192			Motorola	MC14050				CD4071B	
SCL4019	Signetics	HEF4019		SCL4029	National	CD4029 F40192			National	CD4050 F4050			OKI	MM74C32	
SCL4020	Toshiba	TC4019B				F4029		SCL4050	SGS-Thomson	HCC4050 HCF4050		SCL4071	SGS-Thomson	MSM4071	
SCL4020	Harris	CD4020B		SCL4029	SGS-Thomson	HCC40192 HCC4029 HCF40192		SCL4050	Signetics	HEF4050				HCC4071	
	Motorola	MC14020				HCF4029		SCL4051	Toshiba	TC4050B				HCC4071B	
	National	CD4020 F4020				HCF4029			Harris	CD4051B				HCF4071	
SCL4020	SGS-Thomson	HCC4020 HCF4020		SCL4029	Signetics	HEF40192 TC40192B		SCL4051	Motorola	MC14051		SCL4071	Signetics	HEF4071	
SCL4020	Signetics	HEF4020			Toshiba	TC4029B			National	CD4051 F4051		SCL4072	Toshiba	TC4071B	
SCL4021	Toshiba	TC4020B		SCL4030	Harris	CD4030B CD4030		SCL4051	Signetics	HCC4051 HCF4051			AD	DAC08	
SCL4021	Harris	CD4021B			National	F4030		SCL4051	Toshiba	HEF4051			Fujitsu	MB4072	
	Motorola	MC14021		SCL4030	SGS-Thomson	HCC4030 HCF4030		SCL4052	Harris	TC4051B			Harris	CD4072B	
	National	CD4021 F4021				HCF4030			Motorola	MC14052		SCL4072	Motorola	MC14072	
SCL4021	SGS-Thomson	HCC4021 HCF4021		SCL4030	Signetics	HEF4030		SCL4052B	Harris	CD4052B			National	CD4072 F4072	
SCL4021	Signetics	HEF4021			Toshiba	TC4030B			National	CD4052 F4052				HCC4072	
SCL4022	Harris	CD4022B		SCL4033	Harris	CD4033B		SCL4052B	SGS-Thomson	HCC4052 HCF4052		SCL4072	Signetics	HCF4072	
	Motorola	MC14022			SGS-Thomson	HCC4033 HCF4033				HEF4052		SCL4073	Toshiba	TC4072B	
	National	CD4022 F4022		SCL4034	Harris	CD4034B		SCL4052B	Signetics	HEF4052			Harris	CD4073B	
SCL4022	SGS-Thomson	HCC4022 HCF4022			Motorola	MC14034		SCL4053	Motorola	MC14053		SCL4073	Motorola	MC14073	
SCL4022	Signetics	HEF4022		SCL4034	SGS-Thomson	HCC4034 HCF4034			National	CD4053 F4053			National	CD4073 F4073	
SCL4023	Toshiba	TC4022B				HCF4034		SCL4053	SGS-Thomson	HCC4053 HCF4053		SCL4073	Signetics	HEF4073	
SCL4023	Harris	CD4023B		SCL4034	Toshiba	TC4034B				HEF4053		SCL4075	Toshiba	TC4073B	
	Motorola	MC14023		SCL4040	Harris	CD4040B		SCL4053	Signetics	HEF4053			Harris	CD4075B	
	National	CD4023 F4023			Motorola	MC14040			Toshiba	TC4053B			Motorola	MC14075	
SCL4023	SGS-Thomson	MM74C10		SCL4040	National	CD4040 F4040		SCL4060	Harris	CD4060B			National	CD4075 F4075	
SCL4023	Signetics	HCC4023 HCF4023		SCL4040	SGS-Thomson	HCC4040 HCF4040			Motorola	MC14060		SCL4075	SGS-Thomson	HCC4075	
SCL4023	Toshiba	TC4023B				HCF4040			National	CD4060			Signetics	HCF4075	
SCL4024	Harris	CD4024B		SCL4041	Signetics	HEF4040		SCL4060	Signetics	HEF4060		SCL4076	Toshiba	TC4075B	
	Motorola	MC14024			Toshiba	TC4040B		SCL4066	Harris	CD4016B			Harris	CD4076B	
SCL4024	National	MC4024 CD4024 F4024		SCL4041	National	CD4041 F4041			Motorola	MC14016 MC14066		SCL4077	Motorola	MC14076	
SCL4024	SGS-Thomson	HCC4024 HCF4024			SGS-Thomson	HCC4041 HCF4041		SCL4066	National	CD4016 CD4066			National	CD4077	
SCL4024	Signetics	HEF4024		SCL4041	Signetics	HEF4041				F4016 F4066		SCL4076	Signetics	HEF4076	
SCL4025	Toshiba	TC4024B		SCL4042	Harris	CD4042B		SCL4066	SGS-Thomson	HCC4016 HCC4066			Toshiba	TC4076B	
	Motorola	MC14025			Motorola	MC14042				HCF4016		SCL4077	Harris	CD4077B	
	National	CD4025 F4025		SCL4042	National	CD4042 F4042				HCF4066			Motorola	MC14077	
SCL4025	SGS-Thomson	HCC4025 HCF4025			SGS-Thomson	HCC4042 HCF4042		SCL4066	Signetics	HEF4016 HEF4066		SCL4077	National	CD4077 F4077	
SCL4025	Signetics	HEF4025		SCL4042	Signetics	HEF4042			Toshiba	TC4016B TC4066B			SGS-Thomson	HCC4077	
SCL4026	SGS-Thomson	TC4025B			Harris	CD4043B		SCL4066	Unitorde	PIC7516				HCC4077B	
SCL4027	Harris	CD4027B		SCL4043	Motorola	MC14043		SCL4068	Harris	CD4068B				HCF4077	
	Motorola	MC14027B			National	CD4043			Motorola	MC14068		SCL4077	Signetics	HEF4077	
SCL4027	National	CD4027 F4027		SCL4046	SGS-Thomson	HCC4043 HCF4043		SCL4068	National	F4068			Toshiba	TC4077B	
	OKI	MSM4027				HCF4043			SGS-Thomson	HCC4068 HCF4068		SCL4078	Harris	CD4078B	
	SGS-Thomson	HCC4027		SCL4046	Signetics	HEF4043				HEF4068			Motorola	MC14078	
					Toshiba	TC4043B		SCL4068	Signetics	TC4068B			National	F4078	
					Harris	CD4046B			Toshiba	TC4069UB			SGS-Thomson	HCC4078	
					Motorola	MC14046		SCL4069	Harris	MC14069		SCL4078	Signetics	HEF4078	
					National	CD4046 F4046			Motorola	CD4069			Toshiba	CD4078B	
					SGS-Thomson	HCC4046 HCF4046			National	F4069		SCL4081	Harris	CD4081B	
										MM54C04 MM74C04			Motorola	MC14081	
													National	CD4081	

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Allegro Micro Systems (Cont'd)				(Cont'd)											
• SCL4081	National	F4081	(Cont'd)	• SCL4161	SGS-Thomson	HCF40161		• SCL4502	SGS-Thomson	HCC4502		• SCL4520	OKI	MSM4520	
• SCL4081	OKI	MM74C08		• SCL4161	Signetics	HCF40161B		• SCL4502B	HCC4502B	HCC4520		• SCL4520	SGS-Thomson	HCC4520	
• SCL4081	SGS-Thomson	MSM4081		• SCL4161	Toshiba	TC40161B		• SCL4502B	HCF4502	HCF4520		• SCL4520	Signetics	HEF4520	
• SCL4081	Signetics	HCC4081		• SCL4162	Harris	CD40162B		• SCL4502	Signetics	HEF4502		• SCL4522	Toshiba	TC4520B	
• SCL4081	Toshiba	HEF4081		• SCL4162	Motorola	MC140162B		• SCL4504B	Toshiba	TC4502B		• SCL4522	Motorola	MC14522B	
• SCL4082	Harris	TC4081B		• SCL4162	National	CD40162		• SCL4504B	Harris	CD4504B		• SCL4522	National	CD4522	
• SCL4082	Motorola	CD4082B		• SCL4162	SGS-Thomson	CD40162B		• SCL4508	Motorola	MC14504		• SCL4522	Toshiba	TC4522B	
• SCL4082	National	MC14082		• SCL4162	SGS-Thomson	F40162		• SCL4508	Harris	CD4508B		• SCL4526	Motorola	MC14526	
• SCL4082	SGS-Thomson	CD4082		• SCL4162	SGS-Thomson	MC14508		• SCL4526	Motorola	MC14508		• SCL4526	National	CD4526	
• SCL4082	SGS-Thomson	F4082		• SCL4162	SGS-Thomson	HCC40162		• SCL4526	Signetics	HEF4526		• SCL4526	Signetics	HEF4526	
• SCL4082	SGS-Thomson	HCC4082		• SCL4162	SGS-Thomson	HCC40162B		• SCL4527	Toshiba	TC4526B		• SCL4527	Toshiba	TC4526B	
• SCL4082	SGS-Thomson	HCF4082		• SCL4162	SGS-Thomson	HCF40162		• SCL4527	Harris	CD4527B		• SCL4527	Harris	CD4527B	
• SCL4082	Signetics	HEF4082		• SCL4163	Signetics	HEF40162		• SCL4527	Motorola	MC14527		• SCL4527	Motorola	MC14527	
• SCL4082	Toshiba	TC4082B		• SCL4163	Toshiba	TC40162B		• SCL4527	National	CD4527		• SCL4527	National	CD4527	
• SCL4085B	SGS-Thomson	TC4082B		• SCL4163	Harris	CD40163B		• SCL4527	SGS-Thomson	HCC4527		• SCL4527	SGS-Thomson	HCC4527	
• SCL4085B	SGS-Thomson	HCC4085		• SCL4163	Motorola	MC140163B		• SCL4527	SGS-Thomson	HCF4527		• SCL4527	Signetics	HEF4527	
• SCL4085B	SGS-Thomson	HCC4085B		• SCL4163	National	CD40163		• SCL4527	Signetics	HEF4527B		• SCL4527	Toshiba	TC4527B	
• SCL4085B	Signetics	HCF4085		• SCL4163	SGS-Thomson	CD40163B		• SCL4528	Motorola	MC14528		• SCL4528	Motorola	MC14528	
• SCL4085B	Signetics	HCC4085B		• SCL4163	SGS-Thomson	F40163		• SCL4528	National	CD4528		• SCL4528	National	F4528	
• SCL4085B	Signetics	HEF4085		• SCL4163	SGS-Thomson	HCC40163B		• SCL4528	SGS-Thomson	MM74C221		• SCL4528	SGS-Thomson	HCC4098	
• SCL4086B	Toshiba	TC4085B		• SCL4163	SGS-Thomson	HCF40163B		• SCL4528	Signetics	HEF4098		• SCL4528	Signetics	HEF4528	
• SCL4086B	Harris	CD4086B		• SCL4163	Signetics	HEF40163		• SCL4528	Toshiba	TC4528B		• SCL4531	Toshiba	TC4528B	
• SCL4086B	Motorola	MC14506		• SCL4174B	Toshiba	TC40163B		• SCL4531	Motorola	MC14531		• SCL4531	Motorola	MC14531	
• SCL4086B	SGS-Thomson	HCC4086		• SCL4174B	Harris	CD40174B		• SCL4531	National	F4511		• SCL4531	National	F4531	
• SCL4086B	SGS-Thomson	HCC4086B		• SCL4174B	Motorola	MC140174B		• SCL4531	SGS-Thomson	μPD4511		• SCL4531	SGS-Thomson	HCC40101	
• SCL4086B	Signetics	HCF4086		• SCL4174B	National	CD40174B		• SCL4531	SGS-Thomson	HCC4511		• SCL4531	SGS-Thomson	MCF40101	
• SCL4086B	Signetics	HCF4086B		• SCL4174B	SGS-Thomson	F40174B		• SCL4531	Signetics	HEF4511		• SCL4531	Signetics	HEF4531	
• SCL4093B	Toshiba	TC4086B		• SCL4174B	SGS-Thomson	HCC40174		• SCL4531	Toshiba	TC4511B		• SCL4532	Toshiba	TC4531B	
• SCL4093B	Harris	CD4093B		• SCL4174B	SGS-Thomson	HCF40174		• SCL4532	Harris	CD4512B		• SCL4532	Harris	CD4532B	
• SCL4093B	Motorola	MC14093		• SCL4174B	SGS-Thomson	HCF40174B		• SCL4532	Motorola	MC14512		• SCL4532	Motorola	MC14532	
• SCL4093B	National	CD4093B		• SCL4174B	SGS-Thomson	TC40174B		• SCL4532	National	CD4512		• SCL4532	National	F4532	
• SCL4093B	SGS-Thomson	F4093B		• SCL4192	Signetics	CD40192B		• SCL4532	SGS-Thomson	HCC4512		• SCL4532	SGS-Thomson	HCC4532	
• SCL4093B	SGS-Thomson	HCC4093		• SCL4192	Toshiba	CD40192B		• SCL4532	SGS-Thomson	HCF4512		• SCL4532	Signetics	HEF4532	
• SCL4093B	SGS-Thomson	HCC4093B		• SCL4192	Harris	CD40192B		• SCL4532	Toshiba	TC4512B		• SCL4532	Signetics	HEF4532	
• SCL4093B	Signetics	HCF4093		• SCL4192	Motorola	CD40192		• SCL4532	Harris	CD4514B		• SCL4532	Toshiba	TC4532B	
• SCL4093B	Signetics	HCF4093B		• SCL4192	National	CD4029		• SCL4532	Motorola	MC14514		• SCL4532	Harris	CD4543B	
• SCL4093B	Signetics	HEF4093		• SCL4192	SGS-Thomson	F40192		• SCL4532	National	CD4514		• SCL4532	Motorola	MC14543	
• SCL4094B	Toshiba	TC4093B		• SCL4192	SGS-Thomson	F4029		• SCL4532	SGS-Thomson	F4514		• SCL4532	National	CD4543B	
• SCL4094B	Harris	CD4094B		• SCL4192	SGS-Thomson	HCC40192		• SCL4532	SGS-Thomson	HCC4514		• SCL4532	National	CD4543	
• SCL4094B	Motorola	MC14094		• SCL4192	SGS-Thomson	HCC4029		• SCL4532	SGS-Thomson	HCF4514		• SCL4532	Signetics	HEF4543	
• SCL4094B	SGS-Thomson	MC14094B		• SCL4192	SGS-Thomson	HCF40192		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	Toshiba	TC4543B	
• SCL4094B	SGS-Thomson	CD4094B		• SCL4192	SGS-Thomson	HCF4029		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	Harris	CD4555B	
• SCL4094B	SGS-Thomson	HCC4094		• SCL4192	SGS-Thomson	HEF40192		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	Motorola	MC14555	
• SCL4094B	SGS-Thomson	HCC4094B		• SCL4192	SGS-Thomson	TC40192B		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	National	F4555	
• SCL4094B	Signetics	HCF4094		• SCL4192	SGS-Thomson	TC4029B		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HCC4555	
• SCL4094B	Signetics	HCF4094B		• SCL4192	SGS-Thomson	CD40193B		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HCF4555	
• SCL4094B	Signetics	HEF4094		• SCL4192	SGS-Thomson	CD40193		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4099B	Toshiba	TC4094B		• SCL4192	SGS-Thomson	F40193		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4099B	Harris	CD4099B		• SCL4192	SGS-Thomson	MM54C193		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4099B	Motorola	MC14099		• SCL4192	SGS-Thomson	MM74C193		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4099B	Motorola	MC14099B		• SCL4192	SGS-Thomson	HCC40193		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4099B	National	CD4099B		• SCL4192	SGS-Thomson	HCF40193		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4099B	SGS-Thomson	CD4099B		• SCL4192	SGS-Thomson	HEF40193		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4099B	SGS-Thomson	HCC4099		• SCL4192	SGS-Thomson	TC40193B		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4099B	SGS-Thomson	HCC4099B		• SCL4192	SGS-Thomson	CD4048		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4099B	Signetics	HCF4099		• SCL4192	SGS-Thomson	HCC4048		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4099B	Signetics	HCF4099B		• SCL4192	SGS-Thomson	HCF4048		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4099B	Signetics	TC4099B		• SCL4192	SGS-Thomson	CD4521B		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4160	Harris	CD40160B		• SCL4192	SGS-Thomson	MC14521		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4160	Motorola	MC14160		• SCL4192	SGS-Thomson	F4521		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4160	Motorola	MC40160B		• SCL4192	SGS-Thomson	HCC4045		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4160	National	CD40160		• SCL4192	SGS-Thomson	HCF4045		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4160	National	CD40160B		• SCL4192	SGS-Thomson	HEF4521		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4160	SGS-Thomson	F40160		• SCL4192	SGS-Thomson	TC4521B		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4160	SGS-Thomson	HCC40160		• SCL4192	SGS-Thomson	CD4069UB		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4160	SGS-Thomson	HCC40160B		• SCL4192	SGS-Thomson	MC14069		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4160	SGS-Thomson	HCF40160		• SCL4192	SGS-Thomson	CD4069		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4160	Signetics	HCF40160B		• SCL4192	SGS-Thomson	F4069		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4160	Signetics	HEF40160		• SCL4192	SGS-Thomson	MM54C04		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4160	Toshiba	TC40160B		• SCL4192	SGS-Thomson	MM74C04		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4161	Harris	CD40161B		• SCL4192	SGS-Thomson	MSM4069		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4161	Motorola	MC14016B		• SCL4192	SGS-Thomson	HCC4069		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4161	Motorola	MC14161		• SCL4192	SGS-Thomson	HCF4069		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4161	Motorola	MC14161B		• SCL4192	SGS-Thomson	HEF4069		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4161	National	CD40161		• SCL4192	SGS-Thomson	TC4069UB		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4161	National	CD40161B		• SCL4192	SGS-Thomson	CD4502B		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4161	Panasonic	F40161		• SCL4192	SGS-Thomson	MC14502		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4161	SGS-Thomson	MCN40161		• SCL4192	SGS-Thomson	MC14502B		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4161	SGS-Thomson	HCC40161		• SCL4192	SGS-Thomson	MC14502B		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4161	SGS-Thomson	HCC40161B		• SCL4192	SGS-Thomson	MC14502B		• SCL4532	SGS-Thomson	HEF4514		• SCL4532	SGS-Thomson	HEF4555	
• SCL4161	SGS-Thomson	(Continued)		• SCL4192	SGS-Thomson	(Continued)		• SCL4532	SGS-Thomson	HEF					

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Allegro Micro Systems (Cont'd)				• SPL20XC10	Cypress	(Cont'd)		• SS54HCT161	Harris	CD54HCT161		• SS54HCT574	Harris	CD54HCT574	
• SPL18LC4	TI	TIBPAL18L4		• SPL20XC10	National	Samsung		• SS54HCT163	Harris	CD54HCT163		• SS54HCT640	Harris	CD54HCT640	
• SPL20LC10	Cypress	TIBPAL22V10						• SS54HCT174	Harris	CD54HCT174		• SS54HCT643	Harris	CD54HCT643	
	Samsung	TIBPAL22V10A		• SPL20XC10	TI	TIBPAL20X10-25		• SS54HCT181	Harris	54HCT181		• SS54HCT646	Harris	CD54HCT646	
	TI	PLDC20G10						• SS54HCT182	Harris	54HCT182		• SS54HCT648	Harris	CD54HCT648	
• SPL20LC2	AMD	AMPAL22V10		• SPL20XC4	AMD	AMPAL22V10		• SS54HCT192	Harris	CD54HCT192		• SS54HCT646	Harris	CD54HCT646	
		AMPAL22V10A						• SS54HCT237	Marconi	54HCT237		• SS54HCT648	Harris	CD54HCT648	
• SPL20LC2	Cypress	CYPALC22V10L-35		• SPL20XC4	Cypress	AMPAL22V10		• SS54HCT238	Harris	SN54HCT237		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10						• SS54HCT240	Harris	CD54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10-25		• SPL20XC4	Cypress	PALC22V10L-35		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10-35						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-25		• SPL20XC4	Cypress	PALC22V10L-35		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
• SPL20LC2	Gould AMI	PEEL20CG10	(3442)	• SPL20XC4	National	Samsung		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	ICT	PEEL20CG10						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Lattice	GAL20V8A		• SPL20XC4	TI	TIBPAL20X4-25		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	National	PAL20L2						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Samsung	CPL22V10-25		• SPL20XC4	TI	TIBPAL22V10		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
• SPL20LC2	TI	TIBPAL20L2						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		TIBPAL22V10		• SPL20XC8	AMD	AMPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
• SPL20LC8	AMD	PAL20L8						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Cypress	PLDC20G10		• SPL20XC8	Cypress	CYPALC22V10L-35		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Fujitsu	MB81C88						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Gould AMI	PEEL20CG10	(3442)	• SPL20XC8	National	Samsung		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Hitachi	HM7688HP						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	ICT	PEEL20CG10		• SPL20XC8	TI	TIBPAL22V10		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Lattice	GAL20V8A						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	LogicDev	L7C164		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Mitsubishi	M5M5188AP						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	National	F100165		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
• SPL20LC8	NEC	μPD4362C						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	OKI	MSM5188A		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Samsung	CPL20L8						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
• SPL20LC8	Sharp	LH5262		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Sony	CXK5464AP						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	TI	TIBPAL20L8		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
• SPL20LC8	VLSI Tech	VT64KS4						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
• SPL20RC4	AMD	PLD20R4		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Cypress	PLDC20G10						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Gould AMI	PEEL20CG10	(3442)	• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	ICT	PEEL20CG10						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Lattice	GAL20V8A		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	National	F100179						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	TI	TIBPAL20R4		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
• SPL20RC6	AMD	PAL20R6						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Cypress	PLDC20G10		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Gould AMI	PEEL20CG10	(3442)					• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	ICT	PEEL20CG10		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Lattice	GAL20V8A						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	National	F100170		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
• SPL20RC6	Samsung	PAL20R6						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
• SPL20RC6	Signetics	CPL20R6-35		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	TI	100170						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
• SPL20RC8	AMD	TIBPAL20R6-20		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Cypress	PAL20R8						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Gould AMI	PEEL20CG10	(3442)	• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	ICT	PEEL20CG10						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Lattice	GAL20V8A		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	National	F100166						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
• SPL20RC8	Samsung	CPL20R8-35		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
	Signetics	PLUS20R8						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
• SPL20RC8	TI	TIBPAL20R8		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		TIBPAL20R8-20						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
• SPL20XC10	AMD	AMPAL22V10		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		AMPAL22V10A						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
• SPL20XC10	Cypress	CYPALC22V10L-35		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10-25		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10-35						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35						• SS54HCT240	Harris	54HCT238		• SS54HCT648	Harris	CD54HCT648	
		PALC22V10L-35		• SPL20XC8	TI	TIBPAL22V10A		• SS54HCT240	Harris	54HCT238		• SS54HCT6			

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
Allegro Micro Systems (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)				
• SS54HC251	Harris	CD54HC251		• SS74HCT04	SGS-Thomson	M74HCT04		• SS74HCT244	Marconi	74HCT244		• SS74HCT540	Motorola	MC74HCT540		
	Motorola	MC54HC251			Signetics	74HCT04			Motorola	MC74HCT244			National	MM74HCT540		
	National	MM54HC251			TI	SN74HCT04			National	MM74HCT244			Plessey	MV74HCT540		
	TI	SN54HC251A			Toshiba	TC74HCT04A	(3674)		Plessey	MV74HCT244			SGS-Thomson	M74HCT540		
• SS54HC253	Harris	CD54HC253		• SS74HCT137	Harris	CD74HCT137		• SS74HCT245	Hitachi	HD74HCT245		• SS74HCT541	Hitachi	HD74HCT541		
	Motorola	MC54HC253			Marconi	74HCT137			Marconi	74HCT245			Marconi	74HCT541		
	National	MM54HC253			Plessey	MV74HCT137			TI	SN74HCT244			National	MM74HCT541		
	TI	SN54HC253			SGS-Thomson	M74HCT137			Toshiba	TC74HCT244A	(3674)		Plessey	MV74HCT541		
• SS54HC27	Harris	CD54HC27			Signetics	74HCT137		• SS74HCT245	Marconi	74HCT245			SGS-Thomson	M74HCT541		
	Motorola	MC54HC27			TI	SN74HCT137			Motorola	MC74HCT245			Signetics	74HCT541		
	National	MM54HC27			Toshiba	TC74HCT137A	(3674)		National	MM74HCT245			TI	SN74HCT541		
• SS54HC273	Harris	CD54HC273		• SS74HCT138	Harris	CD74HCT138		• SS74HCT245	Plessey	MV74HCT245			Toshiba	TC74HCT541A	(3674)	
	Marconi	54HC273			Marconi	74HCT138			SGS-Thomson	M74HCT245						
	Motorola	MC54HC273			National	MM74HCT138			Signetics	74HCT245			Marconi	74HCT563		
	National	MM54HC273			Plessey	MV74HCT138			TI	SN74HCT245			National	MM74HCT563		
• SS54HC354	Harris	CD54HC354			SGS-Thomson	M74HCT138		• SS74HCT251	Toshiba	TC74HCT245A	(3674)		Plessey	MV74HCT563		
	Motorola	MC54HC354			Signetics	74HCT138			Hitachi	HD74HCT245			SGS-Thomson	M74HCT563		
	National	MM54HC354			TI	SN74HCT138		• SS74HCT253	National	MM74HCT251			Signetics	74HCT563		
• SS54HC365	Harris	CD54HC365			Toshiba	TC74HCT138A	(3674)		Hitachi	HD74HCT251			TI	SN74HCT563		
	Motorola	MC54HC365		• SS74HCT139	Harris	CD74HCT139			Marconi	MM74HCT253			Toshiba	TC74HCT563		
	National	MM54HC365			IDT	IDT74HCT139			National	MM74HCT253			Harris	CD74HCT564		
	Signetics	74HC365			Marconi	74HCT139		• SS74HCT253	Signetics	74HCT253			Marconi	74HCT564		
• SS54HC373	Harris	CD54HC373			National	MM74HCT139			National	MM74HCT253			Motorola	MC74HCT564		
	Motorola	MC54HC373			Plessey	MV74HCT139		• SS74HCT27	Harris	CD74HCT27			National	MM74HCT564		
	National	MM54HC373			Signetics	74HCT139			Signetics	CD74HCT27			Plessey	MV74HCT564		
• SS54HC374	Harris	CD54HC374		• SS74HCT147	Harris	CD74HCT147			Harris	CD74HCT273			SGS-Thomson	M74HCT564		
	Motorola	MC54HC374			Signetics	74HCT147			Harris	CD74HCT273			Signetics	74HCT564		
	National	MM54HC374		• SS74HCT157	Harris	CD74HCT157		• SS74HCT273	National	MM74HCT273			TI	SN74HCT564		
• SS54HC377	Harris	CD54HC377			National	MM74HCT157			Signetics	74HCT273						
	Motorola	MC54HC377			Signetics	74HCT157			TI	SN74HCT273			Signetics	74HCT564		
	TI	SN54HC377			Toshiba	TC74HCT157A		• SS74HCT354	Toshiba	TC74HCT273A			TI	SN74HCT564		
• SS54HC533	Harris	CD54HC533		• SS74HCT161	Harris	CD74HCT161			Harris	CD74HCT354			Toshiba	TC74HCT564		
	Motorola	MC54HC533			Signetics	74HCT161			Signetics	74HCT354			Harris	CD74HCT573		
	National	MM54HC533		• SS74HCT163	Harris	CD74HCT163			Harris	CD74HCT365			Marconi	74HCT573		
• SS54HC534	Harris	CD54HC534			Signetics	74HCT163			Signetics	74HCT365			National	MM74HCT573		
	Motorola	MC54HC534		• SS74HCT174	Harris	CD74HCT174			Harris	CD74HCT373			Plessey	MV74HCT573		
	National	MM54HC534			Signetics	74HCT174			Hitachi	HD74HCT373			SGS-Thomson	M74HCT573		
• SS54HC540	Harris	CD54HC540		• SS74HCT175	Harris	CD74HCT175			Marconi	74HCT373			Signetics	74HCT573		
	Motorola	MC54HC540			Signetics	74HCT175			Motorola	MC74HCT373			TI	SN74HCT573		
	National	MM54HC540		• SS74HCT192	Harris	CD74HCT192			National	MM74HCT373			Toshiba	TC74HCT573		
• SS54HC541	Harris	CD54HC541			Signetics	74HCT192		• SS74HCT373	Plessey	MV74HCT373			Harris	CD74HCT574		
	Motorola	MC54HC541		• SS74HCT237	Harris	CD74HCT237			SGS-Thomson	M74HCT373			Marconi	74HCT574		
	National	MM54HC541			Signetics	74HCT237			Signetics	74HCT373			National	MM74HCT574		
• SS54HC563	Harris	CD54HC563		• SS74HCT238	Harris	CD74HCT238			TI	SN74HCT373			Plessey	MV74HCT574		
	Motorola	MC54HC563			Marconi	74HCT238			Toshiba	TC74HCT373A	(3674)		SGS-Thomson	M74HCT574		
	National	MM54HC563			Plessey	MV74HCT238		• SS74HCT374	Harris	CD74HCT374			Signetics	74HCT574		
• SS54HC564	Harris	CD54HC564			Signetics	74HCT238			Hitachi	HD74HCT374			TI	SN74HCT574		
	Motorola	MC54HC564		• SS74HCT240	Hitachi	HD74HCT240			LinearTech	LTC1044			Toshiba	TC74HCT574		
	National	MM54HC564			Marconi	74HCT240			Marconi	74HCT374			Harris	CD74HCT640		
• SS54HC573	Harris	CD54HC573			Motorola	MC74HCT240			Motorola	MC74HCT374			Motorola	MC74HCT640		
	Motorola	MC54HC573			National	MM74HCT240			National	MM74HCT374			National	MM74HCT640		
	National	MM54HC573			Plessey	MV74HCT240		• SS74HCT374	Plessey	MV74HCT374			SGS-Thomson	M74HCT640		
• SS54HC574	Harris	CD54HC574			SGS-Thomson	74HCT240			SGS-Thomson	M74HCT374			Signetics	74HCT640		
	Motorola	MC54HC574			Signetics	74HCT240			Signetics	74HCT374			TI	SN74HCT640		
	National	MM54HC574			TI	SN74HCT240			Toshiba	TC74HCT374A	(3674)		Toshiba	TC74HCT640A	(3674)	
• SS54HC640	Harris	CD54HC640		• SS74HCT241	Harris	CD74HCT241										
	Motorola	MC54HC640			Hitachi	HD74HCT241		• SS74HCT377	Harris	CD74HCT377			Signetics	74HCT643		
	National	MM54HC640			Marconi	74HCT241			Signetics	74HCT377			TI	SN74HCT643		
• SS54HC643	Harris	CD54HC643			Motorola	MC74HCT241			TI	SN74HCT377			Toshiba	TC74HCT643A	(3674)	
	Motorola	MC54HC643			National	MM74HCT241		• SS74HCT533	Hitachi	HD74HCT533						
	National	MM54HC643			Plessey	MV74HCT241			Marconi	74HCT533			Signetics	75HCT645		
• SS54HC645	Harris	CD54HC645			SGS-Thomson	74HCT241			Motorola	MC74HCT533			TI	SN74HCT645		
	Motorola	MC54HC645			Signetics	74HCT241			National	MM74HCT533			SGS-Thomson	CD74HCT646		
	National	MM54HC645			TI	SN74HCT241		• SS74HCT534	Plessey	MV74HCT533						
• SS54HC646	Harris	CD54HC646			Toshiba	TC74HCT241A	(3674)		Signetics	74HCT533			Signetics	74HCT646		
	Motorola	MC54HC646							TI	SN74HCT533			TI	SN74HCT646		
• SS54HC648	Harris	CD54HC648		• SS74HCT242	Harris	CD74HCT242			Toshiba	TC74HCT533A	(3674)		Toshiba	TC74HCT646A	(3674)	
	Motorola	MC54HC648			Hitachi	HD74HCT242			Harris	CD74HCT534						
	National	MM54HC648			Signetics	74HCT242		• SS74HCT540	Marconi	74HCT534			SGS-Thomson	M74HCT648		
• SS74HCT00	Harris	CD74HCT00			TI	SN74HCT242			Motorola	MC74HCT534			Signetics	74HCT648		
	National	MM74HCT00		• SS74HCT243	Harris	CD74HCT243			National	MM74HCT534			TI	SN74HCT648		
	Signetics	74HCT00			Hitachi	HD74HCT243			Plessey	MV74HCT534			Toshiba	TC74HCT648A	(3674)	
• SS74HCT02	Harris	CD74HCT02			Signetics	74HCT243			Signetics	74HCT534						
	Motorola	MC74HCT02			TI	SN74HCT243			Toshiba	TC74HCT534A	(3674)		• SS74HCT00	Harris	CD74HCT00	
• SS74HCT04	Harris	CD74HCT04		• SS74HCT244	Harris	CD74HCT244								Hitachi	HD74HCT00	
	National	MM72HCT04	(Continued)		Hitachi	HD74HCT244	(Continued)		Marconi	74HCT540	(Continued)			Motorola	MC74HCT00	
														National	MM74HCT00	(Continued)

Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Allegro Micro Systems (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
• SS74HC00	SGS-Thomson	M74HC00	(3674)	• SS74HC163	TI	SN74HC163	(3674)	• SS74HC244	SGS-Thomson	M74HC244	(3674)	• SS74HC374	TI	SN74HC374	(3674)
	Signetics	74HC00			Toshiba	TC74HC163A			Signetics	74HC244			Toshiba	TC74HC374A	
	TI	SN74HC00		• SS74HC174	Harris	CD74HC174			TI	SN74HC244		• SS74HC377	Harris	CD74HC377	
	Toshiba	TC74HC00A	(3674)		Hitachi	HD74HC174			Toshiba	TC74HC244A	(3674)		Hitachi	HD74HC377	
• SS74HC02	Harris	CD74HC02			Motorola	MC74HC174		• SS74HC245	Harris	CD74HC245			Motorola	MC74HC377	
	Hitachi	HD74HC02			National	MM74HC174			Hitachi	HD74HC245			SGS-Thomson	M74HC377	
	Motorola	MC74HC02			SGS-Thomson	M74HC174			Motorola	MC74HC245			Signetics	74HC377	
	National	MM74HC02			Signetics	74HC174			National	MM74HC245			TI	SN74HC377	
	SGS-Thomson	M74HC02			TI	SN74HC174			SGS-Thomson	M74HC245		• SS74HC533	Harris	CD74HC533	
	Signetics	74HC02		• SS74HC175	Harris	CD74HC175			Signetics	74HC245			Hitachi	HD74HC533	
	TI	SN74HC02			Hitachi	HD74HC175		• SS74HC251	TI	SN74HC251	(3674)		Motorola	MC74HC533	
	Toshiba	TC74HC02A	(3674)		Motorola	MC74HC175			Toshiba	TC74HC251A			National	MM74HC533	
• SS74HC04	Harris	CD74HC04			National	MM74HC175			Harris	CD74HC251			SGS-Thomson	M74HC533	
	Hitachi	HD74HC04			SGS-Thomson	M74HC175			Hitachi	HD74HC251			Signetics	74HC533	
	National	MM74HC04			Signetics	74HC175			Motorola	MC74HC251			TI	SN74HC533	
	SGS-Thomson	M74HC04			TI	SN74HC175		• SS74HC253	SGS-Thomson	M74HC251		• SS74HC534	Harris	CD74HC534	
	Signetics	74HC04		• SS74HC192	Harris	CD74HC192			Signetics	74HC251			Hitachi	HD74HC534	
	TI	SN74HC04			Hitachi	HD74HC192			TI	SN74HC251			Motorola	MC74HC534	
	Toshiba	TC74HC04A	(3674)		National	MM74HC192			Toshiba	TC74HC251A	(3674)		National	MM74HC534	
• SS74HC137	Harris	CD74HC137			SGS-Thomson	M74HC192			Harris	CD74HC253			SGS-Thomson	M74HC534	
	Hitachi	HD74HC137			Signetics	74HC192		• SS74HC253	Hitachi	HD74HC253			Signetics	74HC534	
	Motorola	MC74HC137			TI	SN74HC192			Motorola	MC74HC253			TI	SN74HC534	
	National	MM74HC137			Toshiba	TC74HC192A	(3674)		National	MM74HC253			Toshiba	TC74HC534A	(3674)
	SGS-Thomson	M74HC137							SGS-Thomson	M74HC253		• SS74HC540	Harris	CD74HC540	
	Signetics	74HC137		• SS74HC237	Harris	CD74HC237			Signetics	74HC253			Hitachi	HD74HC540	
	TI	SN74HC137			Motorola	MC74HC237			TI	SN74HC253			Motorola	MC74HC540	
	Toshiba	TC74HC137A	(3674)		National	MM74HC237		• SS74HC27	Toshiba	TC74HC253A	(3674)		National	MM74HC540	
• SS74HC138	Harris	CD74HC138			SGS-Thomson	M74HC237			Harris	CD74HC27			SGS-Thomson	M74HC540	
	Hitachi	HD74HC138			Signetics	74HC237			Hitachi	HD74HC27			Signetics	74HC540	
	Motorola	MC74HC138			TI	SN74HC237			Motorola	MC74HC27		• SS74HC541	Harris	CD74HC541	
	National	MM74HC138			Toshiba	TC74HC237A	(3674)		National	MM74HC27			Hitachi	HD74HC541	
	SGS-Thomson	M74HC138		• SS74HC238	Harris	CD74HC238			SGS-Thomson	M74HC27			Motorola	MC74HC541	
	Signetics	74HC138			Motorola	MC74HC238			Signetics	74HC27		• SS74HC541	Hitachi	HD74HC541	
	TI	SN74HC138			National	MM74HC238			TI	SN74HC27			Motorola	MC74HC541	
	Toshiba	TC74HC138A	(3674)		SGS-Thomson	M74HC238		• SS74HC273	Toshiba	TC74HC27A	(3674)		National	MM74HC541	
• SS74HC139	Harris	CD74HC139			Signetics	74HC238			Harris	CD74HC273			SGS-Thomson	M74HC541	
	Hitachi	HD74HC139			TI	SN74HC238			Hitachi	HD74HC273			Signetics	74HC541	
	Motorola	MC74HC139			Toshiba	TC74HC238A	(3674)		Motorola	MC74HC273		• SS74HC563	Harris	CD74HC563	
	National	MM74HC139							National	MM74HC273			Hitachi	HD74HC563	
	SGS-Thomson	M74HC139		• SS74HC240	Harris	CD74HC240			SGS-Thomson	M74HC273			Motorola	MC74HC563	
	Signetics	74HC139			Hitachi	HD74HC240			Signetics	74HC273			National	MM74HC563	
	TI	SN74HC139			Motorola	MC74HC240		• SS74HC354	TI	SN74HC273	(3674)		SGS-Thomson	M74HC563	
	Toshiba	TC74HC139A	(3674)		National	MM74HC240			Hitachi	HD74HC354			Signetics	74HC563	
• SS74HC147	Harris	CD74HC147			SGS-Thomson	M74HC240			Motorola	MC74HC354		• SS74HC564	Harris	CD74HC564	
	Hitachi	HD74HC147			Signetics	74HC240			National	MM74HC354			Hitachi	HD74HC564	
	Motorola	MC74HC147			TI	SN74HC240			SGS-Thomson	M74HC354			Motorola	MC74HC564	
	National	MM74HC147			Toshiba	TC74HC240A	(3674)		Signetics	74HC354			National	MM74HC564	
	SGS-Thomson	M74HC147		• SS74HC241	Harris	CD74HC241			TI	SN74HC354			SGS-Thomson	M74HC564	
	Signetics	74HC147			Hitachi	HD74HC241			Toshiba	TC74HC354A	(3674)		Signetics	74HC564	
	TI	SN74HC147			Motorola	MC74HC241		• SS74HC365	Harris	CD74HC365		• SS74HC564	Hitachi	HD74HC564	
	Toshiba	TC74HC147A	(3674)		National	MM74HC241			Hitachi	HD74HC365			Motorola	MC74HC564	
• SS74HC157	Harris	CD74HC157			SGS-Thomson	M74HC241			Motorola	MC74HC365			National	MM74HC564	
	Hitachi	HD74HC157			Signetics	74HC241			National	MM74HC365			SGS-Thomson	M74HC564	
	Motorola	MC74HC157			TI	SN74HC241			SGS-Thomson	M74HC365			Signetics	74HC564	
	National	MM74HC157			Toshiba	TC74HC241A	(3674)		Signetics	74HC365		• SS74HC573	Harris	CD74HC573	
	SGS-Thomson	M74HC157		• SS74HC242	Harris	CD74HC242			TI	SN74HC365			Hitachi	HD74HC573	
	Signetics	74HC157			Hitachi	HD74HC242			Toshiba	TC74HC365A	(3674)		Motorola	MC74HC573	
	TI	SN74HC157			Motorola	MC74HC242		• SS74HC373	Harris	CD74HC373			National	MM74HC573	
	Toshiba	TC74HC157A	(3674)		National	MM74HC242			Hitachi	HD74HC373			SGS-Thomson	M74HC573	
• SS74HC161	Harris	CD74HC161			SGS-Thomson	M74HC242			Motorola	MC74HC373			Signetics	74HC573	
	Hitachi	HD74HC161			Signetics	74HC242			National	MM74HC373		• SS74HC574	Harris	CD74HC574	
	Motorola	MC74HC161			TI	SN74HC242			SGS-Thomson	M74HC373			Hitachi	HD74HC574	
	National	MM74HC161			Toshiba	TC74HC242			Signetics	74HC373			Motorola	MC74HC574	
	SGS-Thomson	M74HC161		• SS74HC243	Harris	CD74HC243			TI	SN74HC373			National	MM74HC574	
	Signetics	74HC161			Hitachi	HD74HC243			Toshiba	TC74HC373A	(3674)		SGS-Thomson	M74HC574	
	TI	SN74HC161			Motorola	MC74HC243		• SS74HC374	Harris	CD74HC374			Signetics	74HC574	
	Toshiba	TC74HC161A	(3674)		National	MM74HC243			Hitachi	HD74HC374			TI	SN74HC574	
• SS74HC163	Harris	CD74HC163			SGS-Thomson	M74HC243			Motorola	MC74HC374			Toshiba	TC74HC574A	(3674)
	Hitachi	HD74HC163			Signetics	74HC243			National	MM74HC374					
	Motorola	MC74HC163			TI	SN74HC243			SGS-Thomson	M74HC374					
	National	MM74HC163			Toshiba	TC74HC243			Signetics	74HC374					
	SGS-Thomson	M74HC163		• SS74HC244	Harris	CD74HC244			TI	SN74HC374					
	Signetics	74HC163	(Continued)		Hitachi	HD74HC244			Toshiba	TC74HC374A	(3674)				
					Motorola	MC74HC244									
					National	MM74HC244	(Continued)								

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Allegro Micro Systems (Cont'd)				UDN5712	Motorola	MC1472		UDN6164A	UMC	UM6264A		ULN2003	Motorola	ULN2003	(Cont'd)
• SS74HC640	Harris	CD74HC640		UDN5713	TI	UDN5712		UDN6164A	Vitellic	V61C62		ULN2004	SiliconG	SG2003	(3643)
	Hitachi	HD74HC640		UDN5714	Toshiba	TD62477		UDN6164A	VLSI Tech	V62C64			Allegro	ULS2004	
	Motorola	MC74HC640			Toshiba	TD62478		UDN6510	Dionics	VT20C99			Micro	XR2204	
	National	MM74HC640			Motorola	MC1374		UDN7180	Dionics	DI510B			Exar	ULN2004	
	SGS-Thomson	M74HC640			TI	SN75479				DI300			Motorola	ULN2004	
	Signetics	74HC640				UDN5714				DI302			SGS-Thomson	ULN2004	
	Toshiba	SN74HC640		UDN6116	Toshiba	TD62479		UDN7183	Allegro	UDN7180		ULN2005	SiliconG	SG2004	(3643)
		TC74HC640A	(3674)		Hitachi	HM6116			Micro	DI300			TI	ULN2004A	
• SS74HC643	Harris	CD74HC643			Mitsubishi	M5M5517		UDN7184	Dionics	DI302				ULN2004A	
	Hitachi	HD74HC643			National	MMC2116			Allegro	UDN7180		ULN2011	Exar	XR2205	
	National	MM74HC643			OKI	MSM2128			Micro	DI300			Samsung	KA2659	
	SGS-Thomson	M74HC643				MSM5126		UDN7186	Dionics	DI302			TI	ULN2005	
	Signetics	74HC643			S-MOS	MSM5128			Allegro	UDN7180					
	TI	SN74HC643			SGS-Thomson	MSM5129			Micro	DI302		ULN2012	Allegro	ULS2011	
	Toshiba	TC74HC643A	(3674)			SRM2016C			Dionics	DI302			Exar	XR2011C	(3642)
• SS74HC645	Harris	CD74HC645				ET2128		UGN3040U	Allegro	UGN3140U	(3207)	ULN2013	Allegro	ULS2012	(3642)
	National	MM74HC645				MK2817			Micro	TL175C			Micro	ULS2012	
	TI	SN74HC645			Sharp	MK6116		UGN3076	TI	TL175C			SiliconG	SG2012	(3642)
• SS74HC646	Harris	CD74HC646				LH5115		UGN3119U	National	DN6837			Allegro	ULS2013	
	Motorola	MC74HC646			Signetics	LH5116				DN6839		ULN2014	Exar	XR2013C	(3642)
	National	MM74HC646			Sony	NE5517			Panasonic	DN6837			SiliconG	SG2013	
	SGS-Thomson	M74HC646			UMC	CKX5816				DN6839			Allegro	ULS2014	
	Signetics	74HC646		UDN6116A	Vitellic	V61C16			Siemens	SAS261			Micro	XR2014C	
	TI	SN74HC646		UDN6116A-1	Dionics	DI513BR			TI	TL172C		ULN2021	Exar	SG2014	(3642)
	Toshiba	TC74HC646A	(3674)	UDN6116A-2	Allegro	DI512BR			National	DN6838			SiliconG	SG2014	
• SS74HC648	Harris	CD74HC648			Dionics	UDN6118		UGN3201K	Panasonic	DN6838			Allegro	ULS2021	(3642)
	Motorola	MC74HC648			National	DI513B			TI	DN834		ULN2022	Micro	SG2021	
	National	MM74HC648				DM8887				DN837			Allegro	ULS2022	
	SGS-Thomson	M74HC648		UDN6118	Samsung	KA2651			Panasonic	DN834			Micro	ULS2022	
	Signetics	74HC648			Sanyo	LB1290				DN837		ULN2023	Fujitsu	MB40578	(3643)
	TI	SN74HC648			Allegro	UDN6116A-2			Siemens	DN839			SiliconG	SG2002	(3642)
	Toshiba	TC74HC648A	(3674)		Dionics	DI513B		UGN3203K		SAS241			Allegro	ULQ2003	
TPQ3904	Elantec	EL2015			National	DM8887			National	SAS250		ULN2024	Exar	ULS2023	
	Harris	CA3045				DS8887			Panasonic	SAS251			SiliconG	XR2003	(3642)
	Motorola	MPQ3904		UDN6128	Samsung	KA2651		UGN3275K	Siemens	DN838			Allegro	SG2023	
• UCN4801	Allegro	UCN5801			Sanyo	LB1290				SAS251S4		ULN2025	Micro	ULS2024	(3642)
UCN4807	Micrel	MIC4807	(3540)	• UDN6144A	Exar	XR6128		• UGN3501	National	SAS251S5			SiliconG	SG2024	
• UCN4810	Allegro	UCN5810		• UDN6164A	Toshiba	TD62782				DN6835		ULN2026	TI	SN75465	
	Micro	S4534			Dionics	DI502B		• UGN3501	Panasonic	DN6835		ULN2054	Harris	CA3046	
	Gould AMI	HEF4534			Exar	XR8464		UGN3503	TI	DN6836			Allegro	ULN3054	
	Signetics	TL4810			Fujitsu	MB88464				TL173C			Micro	μA3054	
	TI	UCN4810A		• UDN6164A	GoldStar	MB81C78A		UGN3604	Allegro	TL1731			National	LM3054	
UCN5810	Gould AMI	S4534			Harris	GM76C88L			Micro	UGN3605K		ULN2064	SGS-Thomson	SFC2054	
	Signetics	HEF4534			Hitachi	CDM6264		UGN3605K	Siemens	KS10			Mitsubishi	M54532	
	TI	UCN4810A				HM6264			Toshiba	THS102			Motorola	ULN2064	
UCN5812	TI	TL5812		• UDN6164A	Hyundai	MB6264			Allegro	UGN3604			SGS-Thomson	ULN2064	
UCN5818	Gould AMI	S4535			IDT	HY6264		UHD508	Siemens	KS10		ULN2065	TI	SN75064	
UCN5851	TI	SN75518			Krueger	DPS9264	(3513)		Toshiba	THS102				ULN2064	
	Siliconix	SI9551				6264-100	(3513)	• UHP480	National	μA212A			Toshiba	TA75064	
	TI	SN75551				6264-150	(3513)	• UHP481	Dionics	DI480				TD62064	
UCN5852	Siliconix	SI9552				6264LP-100	(3513)	• UHP482	Dionics	DI482		ULN2065	Motorola	ULN2065	
	TI	SN75552				6264LP-120	(3513)	• UHP490	Dionics	DI507B			SGS-Thomson	ULN2065	
UCN5853	Siliconix	SI9553				6264LP-150	(3513)	• UHP491	Dionics	DI507B				ULN2065	(3642)
	TI	SN75553						• UHP495	National	DM8891			SiliconG	SG2065	
UCN5854	Siliconix	SI9554								DS8891			TI	SN75065	
• UC3842	Motorola	UC3842		• UDN6164A	MicroLinear	ML8464		ULN2001	Allegro	ULQ2001		• ULN2066	Motorola	ULN2066	
	SGS-Thomson	UC3842			Mitsubishi	AM99C88			Micro	ULS2001			SGS-Thomson	ULN2066	
	SiliconG	SG3842	(3642)	• UDN6164A	Motorola	M5M5178				XR2001				ULN2066	
	TeledyneS	TSC38C42				MCM6064			Exar	XR2001C		• ULN2067	SiliconG	SG2066	(3642)
UDN2580A	Unitrode	UC3842				MCM6164C				XR2201			TI	SN75066	
UDN2588A	Samsung	KA2580A		• UDN6164A	National	DP8464			Motorola	ULN2001				ULN2066	
UDN2841	Samsung	KA2588A			OKI	MSM5164			SGS-Thomson	ULN2001			Motorola	ULN2067	
UDN2935	Motorola	UDN2841				MSM5165				ULN2001		• ULN2067	SGS-Thomson	ULN2067	
UDN2950	SiliconG	SG6365	(3642)	• UDN6164A	S-MOS	MSM5188			SiliconG	SG2001	(3643)			ULN2067	
	TI	SN75605				SRM2064		ULN2002	Allegro	ULN2001			SiliconG	SG2067	(3642)
	Unitrode	UC2950		• UDN6164A	Samsung	SRM2064			Micro	ULS2002		ULN2068	TI	SN75067	
UDN3611	National	DS3611				KM6264			Exar	XR2002C				ULN2068	
		LM3611		• UDN6164A	Sharp	LH5164				XR2202			Motorola	ULN2068	
UDN3612	National	DS3612				LH5165			Motorola	ULN2002			SGS-Thomson	ULN2068	
		DS3632		• UDN6164A	Sony	CKX5164P			SGS-Thomson	ULN2002				ULN2068	(3642)
		LM3612				CKX5863P				ULN2002		ULN2069	SiliconG	SG2068	
UDN3613	National	DS3613				CKX5864				SG2002	(3643)		TI	SN75068	
		LM3613		• UDN6164A	Toshiba	CKX5865		ULN2003	SiliconG	ULN2002				ULN2068	
UDN3614	National	DS3614				CKX5865P			TI	ULN2002			Motorola	ULN2069	
		LM3614				TC5563			Allegro	ULS2003			SGS-Thomson	ULN2069	
UDN5711	TI	UDN5711		• UDN6164A		TC5565A	(3682)		Micro	XR2003C				SG2069	(3642)
	Toshiba	TD62476				TC5588			Exar	XR2203			TI	SN75069	
			(Continued)				(Continued)				(Continued)			ULN2069	(Continued)

• Discontinued

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Allegro Micro Systems (Cont'd)				ULN2805	SGS-Thomson	ULN2805		ULN8194	TI	TL494		ULS2021	Allegro Micro	ULN2021	
• ULN2070	SGS-Thomson	ULN2070		ULN2811	SiliconG	SG2805 (3642)		• ULN8194A	Cherry Semi	CS494M		ULS2022	SiliconG	SG2021 (3642)	
• ULN2071	SiliconG	SG2070 (3642)		ULN2812	Allegro	ULN2811 (3642)			Exar	XR494			Allegro	ULN2022	
ULN2074	SGS-Thomson	ULN2071 (3642)		ULN2813	SiliconG	SG2812 (3642)		ULQ2001	Motorola	TL494			Micro	MB40578	
	Motorola	ULN2074		ULN2814	SiliconG	SG2813 (3642)			Samsung	KA7500			Fujitsu	SG2002 (3643)	
	SGS-Thomson	ULN2074		ULN2815	Plessey	SG2814 (3642)			TI	TL494M			SiliconG	SG2022 (3642)	
ULN2075	SiliconG	SG2074 (3642)		ULN2821	Allegro	ULN2812 (3642)			Allegro	ULN2001		ULS2023	Allegro	ULN2023	
	TI	ULN2074		ULN2822	Micro	ULN2813 (3642)			Micro	ULN2001			Micro	ULQ2003	
	Toshiba	TD62074		ULN2823	SiliconG	ULN2814 (3642)			Exar	XR2001			Exar	XR2003	
	Motorola	ULN2075		ULN2824	Allegro	ULN2815 (3642)			Motorola	XR2001C		ULS2024	SiliconG	SG2023 (3642)	
	SGS-Thomson	ULN2075		ULN2825	Plessey	ULN2821 (3642)			SGS-Thomson	ULN2001			Allegro	ULN2024	
	SiliconG	SG2075 (3642)		ULN2826	Micro	ULN2822 (3642)				ULN2001		ULS2045	Micro	SG2024 (3642)	
• ULN2076	TI	ULN2075		ULN2827	SiliconG	ULN2823 (3642)			SiliconG	ULN2001A	(3643)		SiliconG	LM3045	
	SGS-Thomson	ULN2076		ULN2828	Allegro	ULN2824 (3642)		ULQ2002	TI	ULN2001A			National	LM3045	
	SiliconG	SG2076 (3642)		ULN2829	Micro	ULN2825 (3642)		ULQ2003	Exar	XR2002			SGS-Thomson	LM3045	
ULN2081	Harris	CA3081		ULN2830	Allegro	ULN2826 (3642)			Allegro	ULN2023		ULS2801	Motorola	ULN2801	
ULN2082	Harris	CA3082		ULN2831	Micro	ULN2827 (3642)			Micro	ULN2023			SGS-Thomson	ULN2801	
ULN2083	Harris	CA3083		ULN2832	SiliconG	ULN2828 (3642)			Exar	ULN2023			SiliconG	SG2801 (3642)	
ULN2086	SGS-Thomson	SFC2086		ULN2833	Allegro	ULN2829 (3642)			SiliconG	XR2003		ULS2802	Allegro	ULN2802	
ULN2111	Harris	CA2111A		ULN2834	Micro	ULN2830 (3642)		ULQ2004	Exar	SG2024			Micro	ULN2802	
	National	LM2111		ULN2835	Plessey	ULN2831 (3642)		• ULQ8125	Unitrode	UC2525			SGS-Thomson	ULN2802	
		LM2113		ULN2836	Allegro	ULN2832 (3642)		• ULQ8126	LinearTech	LT1526			SiliconG	SG2802 (3642)	
		N5111		ULN2837	Micro	ULN2833 (3642)			Motorola	SG1526		ULS2803	Allegro	ULN2803	
• ULN2124	Signetics	CA3070		ULN2838	SGS-Thomson	ULN2834 (3642)		• ULQ8126		SG3526			Micro	ULN2803	
ULN2172	Harris	CA3070		ULN2839	SiliconG	ULN2835 (3642)			SiliconG	SG1526	(3642)		SGS-Thomson	ULN2803	
	Allegro	ULN2174		ULN2840	Allegro	ULN2836 (3642)		• ULQ8126	Unitrode	UC1526			SiliconG	SG2803 (3642)	
	Micro	AD507		ULN2841	Micro	ULN2837 (3642)				UC1526A		ULS2804	Allegro	ULN2804	
	AD	3508		ULN2842	National	ULN2838 (3642)		• ULQ8127	LinearTech	LT2526			Micro	ULN2804	
	Burr-Brown	AM462-2		ULN2843	SGS-Thomson	ULN2839 (3642)			Motorola	SG2526			Motorola	ULN2804	
	Datel	EHA2620		ULN2844	Allegro	ULN2840 (3642)			SiliconG	SG2526	(3642)		SGS-Thomson	ULN2804	
	Elantec	EHA2625		ULN2845	Micro	ULN2841 (3642)		• ULQ8194	Unitrode	UC2526			SiliconG	SG2804 (3642)	
		HA2622		ULN2846	SGS-Thomson	ULN2842 (3642)		• ULQ8195	TI	TL494		ULS2811	Toshiba	TD62084	
	Harris	CA3100		ULN2847	National	ULN2843 (3642)			TI	TL495			Allegro	ULN2811	
		HA2620		ULN2848	SGS-Thomson	ULN2844 (3642)		ULS2001	Allegro	ULN2001			Micro	ULN2811	
		HA2622		ULN2849	Cherry Semi	ULN2845 (3642)			Micro	ULN2001		ULS2812	SiliconG	ULN2812	
		HA2625		ULN2850	SGS-Thomson	ULN2846 (3642)			Exar	ULN2001			Micro	ULN2812	
		SP2620		ULN2851	SiliconG	ULN2847 (3642)				XR2001C		ULS2821	SiliconG	ULN2821	
ULN2174	Sipex-HSD	ULN2172		ULN2852	National	ULN2848 (3642)			Motorola	XR2201			Micro	ULN2821	
	Allegro	AD507		ULN2853	SGS-Thomson	ULN2849 (3642)			SGS-Thomson	ULN2001		ULS2822	SiliconG	ULN2822	
	AD	3508		ULN2854	Allegro	ULN2850 (3642)				ULN2001A			Micro	ULN2822	
	Burr-Brown	AM462-2		ULN2855	Micro	ULN2851 (3642)		ULS2002	Allegro	ULN2002		ULS2823	Allegro	ULN2823	
	Datel	EHA2620		ULN2856	SGS-Thomson	ULN2852 (3642)			Micro	ULN2002			Micro	ULN2823	
	Elantec	EHA2625		ULN2857	SiliconG	ULN2853 (3642)			Exar	XR2002C		ULS2824	Allegro	ULN2824	
		HA2622		ULN2858	TI	ULN2001A				XR2202		• ULS8124	SiliconG	SG2824 (3642)	
	Harris	CA3100		ULN2859	SGS-Thomson	ULN2001A			Allegro	ULN2002			Exar	XR1524	
		HA2620		ULN2860	Cherry Semi	ULN2002			Micro	ULN2002		• ULS8124	LinearTech	LT1524	
		HA2622		ULN2861	SGS-Thomson	ULN2002			Exar	ULN2002			National	LM1524	
		HA2625		ULN2862	SiliconG	ULN2002				ULN2002		• ULS8124	SGS-Thomson	SG1524	
		SP2620		ULN2863	Allegro	ULN2002				ULN2002			SiliconG	SG1524	
ULN2204	Sipex-HSD	ULN2172		ULN2864	Micro	ULN2002		ULS2003	Allegro	ULN2003		• ULS8124	SGS-Thomson	SG1524	
• ULN2217	AEG Corp	ULN2172		ULN2865	SGS-Thomson	ULN2003			Micro	ULN2003			SiliconG	SG1524	
	Motorola	ULN2172		ULN2866	Allegro	ULN2003			Exar	ULN2003		• ULS8124	Unitrode	UC1524	
	TI	ULN2172		ULN2867	Micro	ULN2003				ULN2003			Cherry Semi	CS494M	
• ULN2243	ROHM	ULN2172		ULN2868	SiliconG	ULN2003			Allegro	ULN2003		• ULS8194	Exar	XR494	
	Samsung	ULN2172		ULN2869	TI	ULN2003			Micro	ULN2003			Motorola	TL494	
	Sanyo	ULN2172		ULN2870	SGS-Thomson	ULN2003			SGS-Thomson	ULN2003			Samsung	KA7500	
	Toshiba	ULN2172		ULN2871	Allegro	ULN2003				ULN2003		• ULS8195	TI	TL494M	
• ULN2270	AEG Corp	ULN2172		ULN2872	Micro	ULN2003				ULN2003			TI	TL494M	
	National	ULN2172		ULN2873	SGS-Thomson	ULN2003				ULN2003			Unitrode	UC495A	
• ULN2278	TI	ULN2172		ULN2874	Allegro	ULN2003				ULN2003					
• ULN2280	National	ULN2172		ULN2875	Micro	ULN2003				ULN2003					
• ULN2290	Samsung	ULN2172		ULN2876	SGS-Thomson	ULN2003				ULN2003					
	SGS-Thomson	ULN2172		ULN2877	Allegro	ULN2003				ULN2003					
		ULN2172		ULN2878	Micro	ULN2003				ULN2003					
		ULN2172		ULN2879	SGS-Thomson	ULN2003				ULN2003					
		ULN2172		ULN2880	Allegro	ULN2003				ULN2003					
		ULN2172		ULN2881	Micro	ULN2003				ULN2003					
		ULN2172		ULN2882	SGS-Thomson	ULN2003				ULN2003					
		ULN2172		ULN2883	Allegro	ULN2003				ULN2003					
		ULN2172		ULN2884	Micro	ULN2003				ULN2003					
		ULN2172		ULN2885	SGS-Thomson	ULN2003				ULN2003					
		ULN2172		ULN2886	Allegro	ULN2003				ULN2003					
		ULN2172		ULN2887	Micro	ULN2003				ULN2003					
		ULN2172		ULN2888	SGS-Thomson	ULN2003				ULN2003					
		ULN2172		ULN2889	Allegro	ULN2003				ULN2003					
		ULN2172		ULN2890	Micro	ULN2003				ULN2003					
		ULN2172		ULN2891	SGS-Thomson	ULN2003				ULN2003					
		ULN2172		ULN2892	Allegro	ULN2003				ULN2003					
		ULN2172		ULN2893	Micro	ULN2003				ULN2003					
		ULN2172		ULN2894	SGS-Thomson	ULN2003				ULN2003					
		ULN2172		ULN2895	Allegro	ULN2003				ULN2003					
		ULN2172		ULN2896	Micro	ULN2003				ULN2003					
		ULN2172		ULN2897	SGS-Thomson	ULN2003				ULN2003					
		ULN2172		ULN2898	Allegro	ULN2003				ULN2003					
		ULN2172		ULN2899	Micro	ULN2003				ULN2003					
		ULN2172		ULN2900	SGS-Thomson	ULN2003				ULN2003					
		ULN2172		ULN2901	Allegro	ULN2003				ULN2003					
		ULN2172		ULN2902	Micro	ULN2003				ULN2003					
		ULN2172		ULN2903	SGS-Thomson	ULN2003				ULN2003					
		ULN2172		ULN2904	Allegro	ULN2003				ULN2003					
		ULN2172		ULN2905	Micro	ULN2003				ULN2003					
		ULN2172		ULN2906	SGS-Thomson	ULN2003				ULN2003					
		ULN2172		ULN2907	Allegro	ULN2003				ULN2003					
		ULN2172		ULN2908	Micro	ULN2003				ULN2003					
		ULN2172		ULN2909	SGS-Thomson	ULN2003				ULN2003					
		ULN2172		ULN2910	Allegro	ULN2003				ULN2003					
		ULN2172		ULN2911	Micro	ULN2003				ULN2003					
		ULN2172		ULN2912	SGS-Thomson	ULN2003				ULN2003					
		ULN2172		ULN2913	Allegro	ULN2003				ULN2003					
		ULN2172		ULN2914	Micro	ULN2003				ULN2003					
		ULN2172		ULN2915	SGS-Thomson	ULN2003				ULN2003					
		ULN2172		ULN2916	Allegro	ULN2003				ULN2003					
		ULN2172		ULN2917	Micro	ULN2003				ULN2003					
		ULN2172		ULN2918	SGS-Thomson	ULN2003				UL					

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Altera (Cont'd)				ADADC85S (Cont'd)				ADG507A (Cont'd)			
EP320	Intel	5C320		Sipex-HSD	ADC581	ADDAC100	AD	DAC100	ADG507A	Siliconix	DG507A
	Lattice	GAL16V8A			ADC581B	ADDAC71	Burr-Brown	DAC700		Burr-Brown	H1508A
		GAL18V10			ADC85B			DAC701			MPC8S
EP330	Lattice	GAL16V8A			HSADC85			DAC702		Datel	MX808
		GAL18V10			HSADC85C			DAC703		Harris	DG508A
	TI	EP330		TeledyneS	TP4189			DAC71			H1508A
EP512	Intel	5AC312		Adv Analog	ADC84			DAC72			IH5108
EP600	Intel	5C060			ADC85			MNDAC71			IH6108
EP610	TI	EP610			ADC87			MN3290	(3549)	Lin Int Sys	LS508A
EP900	Intel	5C090			ADADC84			DAC80		Maxim	DG508A
EP910	TI	EP910			ADADC85	(3228)		DAC800			H1508A
					ADADC85S	(3228)		ICM7216			MAX358
					ADC85S			ICM7226			MP7508DI
					AD5240			DAC80	(3549)	MicroPwr	DG508A
Analog Devices					ADC84	(3346)		DAC1280		Siliconix	MUX24
ADADC80	Burr-Brown	ADC80			ADC85			HSADC80		Burr-Brown	H1509A
	Datel	ADCHT			ADC87			DAC85		Fujitsu	MB5208
	MicroNet	MNADC80			ADCHX			DAC850		Harris	DG509A
ADADC84	Adv Analog	ADC84			ADCHX12B			DACHZ			H1509A
		ADC85			ADCHZ			DACHZ12B			IH5208
		ADC87			ADCHZ12B			HIDAC80V			IH6208
		ADC87			ADCHZ12BGZ			HIDAC85V			DG509A
	AD	ADADC85	(3228)		MNADC84			H156851		Maxim	IH509A
		ADADC85S	(3228)		MNADC85			DAC85			IH6208
		ADADC87			MNADC87			DAC85V			MAX359
		ADC85S			MN5240	(3547)		DAC1285			DG509A
		AD5240			ADC581			DAC9356			DG526
	Burr-Brown	ADC85	(3346)		ADC581B			DAC851		ADG526A	Siliconix
		ADC87			ADC85B			DAC87			DG526
		ADC87			HSADC85			HIDAC87V		ADG527A	Siliconix
	Datel	ADCHX			HSADC85C			MNDAC87			DG527
		ADCHX12B			TP4189			DAC335		ADG528A	Siliconix
		ADCHZ			CYAD10			HSADC87			DG528
		ADCHZ12B			ADC1100			SPDAC87		ADG529A	Harris
		ADCHZ12BGZ			ADC1111			DG200			DG529
	MicroNet	MNADC84			ADC12			H1200		ADI471	ADV471
		MNADC85			ADC141			DG200A			ADV7141
		MNADC87			ADC16			PIC7513			AV3677
		MNADC87			ADC171			SW201			BT471
		MN5240	(3547)		ADC72			MB47201		ADI478	EL471CE6
	Sipex-HSD	ADC581			ADC8			DG201			ADV478
		ADC581B			ADC800			DG201A			ADV7148
		ADC85B			ADC85			H1201			BT478
		HSADC85			ADC87			LS201		ADLH0032	EL478CE6
		HSADC85C			ADADC84			DG201A			HOS050
	TeledyneS	TP4189			ADADC85	(3228)		MAX331			HOS060
ADADC85	Adv Analog	ADC84			ADADC85S	(3228)		MP201			MOS050
		ADC85			ADADC87			LF11201			ELH0032
		ADC87			AD5240			LF13201			EL2006
		ADC87			ADADC84	(3346)		DG201A			HA2542
	AD	ADADC85S	(3228)		ADC85			TSC4201		ADLH0033	HA2542
		ADADC87			ADC87			TSC4202			TP0032
		ADC85S			ADCHX			H1201HS			HOS100
		AD5240			ADCHX12B			DG271			OP4633
	Burr-Brown	ADC84	(3346)		ADCHZ			DG202			EHOS100
		ADC85			ADCHZ12B			DG309			ELH0033
		ADC87			ADCHZ12BGZ			DG212			ELH2004
	Datel	ADCHX			MNADC84			DG309			ELH2005
		ADCHX12B			MNADC85			TSC4201			EL2001
		ADCHZ			MNADC87			DG221			EL2004
		ADCHZ12B			MN5240	(3547)		TSC441			EL2005
		ADCHZ12BGZ			ADC581			TSC442			EL2031
	MicroNet	MNADC84			ADC581B			CY6116			EL2033
		MNADC85			ADC85B			ED18802			HA5033
		MNADC87			ADC85B			DG506A			LH0033
		MN5240	(3547)		HSADC85			HM6516			MAX460
	Sipex-HSD	ADC581			HSADC85C			HM65162			MAX460
		ADC581B			TP4189			HM6716			MP0033C
		ADC85B			AD7574			HM6719			MP2004
		HSADC85			PM7574			IDT6116			LH0033
		HSADC85C			AD7574			IDT6116A			LH4001
	TeledyneS	TP4189			MAX160			IDT6116L			LM6121
ADADC85S	Adv Analog	ADC84			MP7574			IDT6116S			LM6321
		ADC85			AD571			81C28			TP1359
		ADC87			AD573			L76116			VA033
		ADADC84			MCE571			DG506A			AD201
	AD	ADADC85	(3228)		μ A571			MT51C1608		ADOP07	OP06
		ADADC87			μ PC571			MCM2018A			OP77
		ADC85S			NE571			MCM6116			CA0201
		AD5240			DAC1508			P4C116			CA0301
	Burr-Brown	ADC84	(3346)		DAC1C88C			SSM6116			CA3193
		ADC85			DAC08B			CXK5814P			CA3493
		ADC87			DAC08			TC2018			HA5130
	Datel	ADCHX			DAC08			UMC			HA5135
		ADCHX12B			DAC0801			Vitelc			HA5177
		ADCHZ			DAC0802			VT20C19			μ A207
		ADCHZ12B			μ PC624			H1507A			LH0044
		ADCHZ12BGZ			DAC08			MPC8D	(3344)		OP77
	MicroNet	MNADC84			KDA0800			DG507A			AD510
		MNADC85			KDA0801			H1507A			AD517
		MNADC87			KDA0802			DG507A			OP77
		MN5240	(3547)		DAC08			IH6216			(Continued)
			(Continued)								(Continued)

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Analog Devices (Cont'd)				ADSP1016/7A	Weitek	WTL1016/7 WTL2516/7D		AD108A	AD Harris LinearTech Motorola National Raytheon SGS-Thomson	PM108A LM108A LM108A LM108A LM108A LM108A LM108A		AD2700	Thaler Maxim Sipex-HSD	VRE100 AD2701 HS2701 R675-5 VRE101 HS2702 R675-3	(Cont'd)
ADOP27	Burr-Brown Lin Int Sys LinearTech	OPA27 OP27 LT1007 OP27 OP27 MPOP27 OP27 OP27 Raytheon TI AD OP37 Burr-Brown Harris	(Cont'd)	ADSP1017	AMD Cypress Harris LogicDev	AM29517 CY7C517 HMU17 LMU17 LMU217		AD111	TI AD Raytheon SGS-Thomson	LM108A LM108A PM111 LM111 LM111		AD2710	Thaler Maxim Thaler	VRE102 AD2710 VRE100	
ADOP37	Maxim MicroPwr Motorola Raytheon TI AD OP37 Burr-Brown Harris	OP27 OP27 OP27 OP27 OP27 OP27 OP27 OP37 OPA37 HA5137 HA5147		ADSP1024	Weitek Harris LogicDev	WTL2517 HMU17 LMU18		AD1148	Signetics Sipex-HSD	LM111 LM111 SP1148		AD2712	Thaler AD	VRE102 OP77	
ADREF01	Lin Int Sys LinearTech	OP37 LT1037 OP37 OP37 MPOP37 OP37 OP37 OP37 AD REF01AZ REF02	(3238) (3238)	ADSP1080	AD LogicDev	ADSP1081 LMU08 LMU8		AD1175	Thaler	ADC100	(3226, 3229)	AD301	Harris	CA0301A LM301	
	Maxim MicroPwr Motorola Raytheon TI AD REF01AZ REF02	OP37 OP37 OP37 OP37 OP37 OP37 OP37 OP37 OP37 REF01 REF01A REF01 MPREF01 MP5531		ADSP1081	TRWLSI	TMC28KU LMU8U		AD1376	AD	AD1380			LinearTech	LM301 LM301A	
	Motorola	MC1400AG10 MC1400AU10 MC1404 MC1504		ADSP1101	AD Harris LogicDev	ADSP1110 ISP9210 LMA1010 LMA2010			Analogic Burr-Brown	ADC376 ADC4300 ADC71 ADC76 AD76			Motorola National	LM301 LM301 LM301 LM301A LM301A	
	Raytheon TeledyneS	REF01 REF01 TSC9495 TSC9496 VRE100		ADSP1110	TRWLSI VLSI Tech AD Harris LogicDev	TMC2110 VL2010 ADSP1101 ISP9210 LMA1010 LMA2010	(3255)		MicroNet	MN5296 MN6290	(3547)		NEC Samsung SGS-Thomson	LM301 LM301A SG301	
ADREF02	Thaler AD Maxim MicroPwr Raytheon TeledyneS	REF02 REF02 MPREF02 REF02 REF02 TSC9495	(3238)	ADS1012	TRWLSI VLSI Tech LogicDev	TMC2110 VL2010 LMU08		AD1380	AD	AD1376 AD376 ADC4300	(3229)	AD308	AD	PM1008 PM1012 PM308	
ADSHC85	Burr-Brown	SHC85	(3345)	ADVFC32	Burr-Brown Maxim MCE	VFC32 VFC32 MCEVFC32	(3348)		Analogic Burr-Brown	ADC71 ADC76 AD76				LM308 LM308 LM308	
ADSP1008	TRWLSI	TDC1008		ADV471	Plessey AD ADI471 ADV7141	ADVFC32 ADI471 ADV7141			MicroNet	MN5296 MN6290	(3547)			LM308A LM308A LM308A	
ADSP1009	LogicDev	LM1009 LMA2009		ADV476	Avasem Brooktree EdsunLabs ATMEL	AV3677 BT471 EL471CE6 AT76C176		AD1403	Motorola SiliconG TI	MC1403 SG3503 TMS416C74		AD308A	LinearTech Motorola National	LM308A LM308A LM308A	
ADSP1010	AD Cypress Harris Intel TRWLSI Waferscale	ADSP1010A CY7C510 HMA510 IM29C510 TMC2210 WS59510	(3255) (3717)	ADV478	Avasem Brooktree EdsunLabs AD ADI471 ADV471	IMSG176 ADI478 ADV7148 BT478 EL478CE6 ADI471 ADV471	(3222)	AD1408	AD Hitachi	DAC1408 HA17008 HA17408		AD311	AD Harris LinearTech Motorola National	PM211 CA0311 LM311 LM311 LM311	
ADSP1010A	AD Cypress Harris Intel TRWLSI Waferscale	ADSP1010 CY7C510 HMA510 IM29C510 TMC2210 WS59510	(3717)	ADV7141	Avasem Brooktree EdsunLabs AD ADI471 ADV471	IMSG176 ADI478 ADV7148 BT478 EL478CE6 ADI471 ADV471	(3222)		Motorola National	MC1408 MC1408 DAC0806 DAC0807 DAC0808 MA0802M KDA0806 KDA0807 KDA0808		AD3445	AD	AD386 AD389	(3235) (3235)
ADSP1012	IDT	ADSP1012 IDTTPY12 IDT7112 IMIMPY12		ADV7146	Avasem Brooktree EdsunLabs National	AV3676 BT476 EL171CE6 DAC0630 DAC0631 DP85176 77C171		AD201	AD	ADOP07	(3243, 3245)		Analogic Burr-Brown Sipex-HSD	SHA2410 SHC76 HS9714 HS9716	(3345)
ADSP1016	AMD Cypress Harris LogicDev TI TRWLSI	AM29C516A CY7C516 HMU16 LMU16 LMU216 SN741616 MPY012HJ TMC216H WTL1016 WTL1516 WTL2516		ADV7148	Brooktree EdsunLabs Burr-Brown TeledyneS	BT478 EL478CE6 3554 TP3554	(3332)		Harris	CA0201 CA0301 CA3193 CA3493 HA5130 HA5135 HA5177 HA5207 LH0044		AD3542	Burr-Brown	OPA111 3542 SP111 SP111 HS362 AD371	
	Weitek	WTL1010 WTL2010 WTL2245		AD0042	AD OP41 National SGS-Thomson	AD503 OP41 LH0042		AD2020	Raytheon Harris TeledyneS	OP77 CA3162 TSC04 OP97		AD371	AD MicroNet	AD370 MN370 MN371	(3549) (3549)
	ADSP1012	IMI LogicDev TRWLSI		AD101	SGS-Thomson	LM101 LS101		AD208A	Motorola National	PM208A LM208A LM208A		AD376	AD	AD1376 AD1380	(3229) (3226, 3229)
	ADSP1016	AMD Cypress Harris LogicDev TI TRWLSI		AD108	AD	AD705 OP97 PM1008 PM108 LM108 LM108 LM108		AD211	AD Motorola National SGS-Thomson	PM211 LM211 LM211			Analogic Burr-Brown	ADC4300 ADC71 ADC76 AD76	
	Weitek	WTL1016 WTL1516 WTL2516			LinearTech	LM108 LT1097 LM108 LM108 LM108		AD2700	Signetics SiliconG TI AD Maxim Sipex-HSD	LM211 LM211 LM211 REF01 AD2700 HS2700 R675-4	(3643) (3238)	AD381	AD	AD544 OP15	(3547)

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Analog Devices (Cont'd)				Analog Devices (Cont'd)				Analog Devices (Cont'd)				Analog Devices (Cont'd)			
AD381	AD	OP43 PM155 OPA606 LF155 LT1022 LT1055 LT1056 OP15 LF155 LF353 LF411 LM110 LM210 LM310	(Cont'd)	AD518	Signetics	NE538 SE530 SE531 LM318	(Cont'd)	AD544	National	LF155 LF353 LF411 LM110 LM210 LM310	(Cont'd)	AD574	Adv Analog	ADC574 ADC574A 574	
	Burr-Brown LinearTech			AD5200	TI	MicroNet MN5200							AD		
				AD5201	MicroNet	MicroNet MN5201							Burr-Brown		ADC574A
				AD5202	MicroNet	MicroNet MN5202							Datel		ADC574Z
				AD5203	MicroNet	MicroNet MN5203							Harris		HI574
				AD5204	MicroNet	MicroNet MN5204									HI574A
				AD5205	MicroNet	MicroNet MN5205							Honeywell		HADC574
				AD5206	MicroNet	MicroNet MN5206		AD545	Burr-Brown	OPA103			Maxim		MAX574
				AD5207	MicroNet	MicroNet MN5207		AD547	AD	OP41			MCE		MCE574
				AD521	AD	AD624 AMP05	(3250)			OP43			MicroNet		MN574A
										OPA121			MicroPwr		MP574A
										CA3140			Sipex-HSD		HS574
										CA3160					HS574A
										MC34001			TeledyneS		TP574A
										MC34071			Maxim		AD578
										LH0052		AD580	AD		REF03
										SP121			Hitachi		HA17012
										OP80			Maxim		AD580
										OPA128			SiliconG		SG1503
										AD839			AD		REF10
										AD849	(3240)	AD581	Burr-Brown		REF10
										EL2038			LinearTech		LT1021
										EL2039			Maxim		AD581
										MC5539			Thaler		VRE100
										LM5539					VRE105
										LM6365		AD582	AD		AD583
										NE5539					SMP11
										SE5539			Datel		SHMIC-1
										ICL7631			Harris		HA2420
										ZN558			National		LH0023
										AD1408			TeledyneS		TP4856
										DAC1408		AD583	AD		AD582
										HA17008					SMP11
										HA17408			Datel		SHMIC-1
										MC1408			Harris		HA2420
										μA0801			National		LH0023
										DAC0806			TeledyneS		TP4856
										DAC0807		AD584	Maxim		MAX673
										DAC0808		AD586	Maxim		MAX673
										MA0802M		AD589	Harris		ICL8069
										KDA0806			Lin Int Sys		LS5010
										KDA0807			LinearTech		LT1004
										KDA0808			Maxim		ICL8069
										MC1408			MicroPwr		MP5010
										DAC562			National		LM113
										HI562A					LM313
										SP562			Plessey		ZN404
										SP565			TeledyneS		ZN423
										AD565J	(3219)		TSC04		TSC05
										HI565A			TSC06		TSC069
										AD565A			TSC9491		TSC9491
										MCE565A			TI		LT1004
										MN565A		AD590	AD		REF03
										μA565			Harris		AD590
										LM565			Maxim		AD590
										NE565		AD594	Maxim		AD594
										SE565			Maxim		AD595
										AD565A		AD596	Maxim		AD596
										AD565A		AD597	Maxim		AD597
										AD565A		AD6012	AMD		AM6012
										HI565A			AD		DAC312
										AD565A					PM6012
										MCE565			NEC		μPC6012
										MN565A			Plessey		ZN6012
										μA565			Signetics		AM6012
										LM565		AD624	AD		AD521
										NE565					AMP05
										SE565			Burr-Brown		INA110
										AD566A			National		LM148
										AD566					LM163
										AD566A			TI		LM148
										MCE566			Burr-Brown		AD632
										AD566		AD632	AD		SS175T981
										AD566		AD636	SiliconSys		SS175T981
										AD566A			Telton		M980
										MCE566					M981
										MCE570			Maxim		AD650
										ADC910		AD650	Burr-Brown		ADC674A
										AD573		AD674	Datel		ADC674
										MCE571					ADC674Z
										μA571			Harris		HI674A
										μPC571			Hitachi		HA17824
										NE571			Honeywell		HADC674
										ADC910			Sipex-HSD		SP674A
										AD571		AD705	AD		AD108
										MCE571					OP97
										μA571					PM1008
										μPC571					PM108
										NE571			LinearTech		LM108
															LT1097

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Analog Devices (Cont'd)				AD7506	AD	MUX16		AD7537	AD	DAC8248		AD7824			(Cont'd)
AD705	Motorola National	LM108	(Cont'd)		Datel	MV1606	(3360)	AD7538	Maxim	AD7537		AD7828	Samsung	MC7824	
					Harris	MX1606			Maxim	AD7538			SGS-Thomson	μ A7824	
AD706	Raytheon SiliconSys AD	LM108	(3243, 3248)	AD7507	MicroPwr	DG506	(3360)	AD7541	AD	AD7521		AD790	TI	LM340-24	
		RC4097			Motorola	HI506			Burr-Brown	AD7531			Toshiba	TA78024	
AD707	AMD AD	SSI32R108	(3243, 3248)		AD	MC7506		AD7542	MicroPwr	MP7541			Maxim	AD7828	
		AD708			Datel	MUX28			National	DAC1220			AMD	AM686	
AD708	National AMD AD	LM158	(3243, 3248)	AD7510	Harris	MXD807	(3360)	AD7543	Sipex-HSD	HS7541		AD8007	National	LM161	
		AD7225			MicroPwr	HI507			AD	PM7542			AD	LM260	
AD712	LinearTech Motorola AD	DAC8408	(3262)	AD7511	MicroPwr	MP7507		AD7544	Maxim	AD7542		AD839		LM261	
		OP221			AD	SW7510			MicroPwr	MP7542			AD	LM263	
AD7224	Maxim AD	OP297	(3243, 3248)	AD7512	TeledyneS	MP7510DI		AD7545	Signal Proc	HDAC7542		AD840	Signetics	NE5105	
		MC1458			AD	TSC445			AD	PM7543				NE527	
AD7225	National AD	MC1558	(3243, 3248)	AD7520	Unitrode	PIC7510		AD7546	Maxim	AD7543		AD841		SE5105	
		LM158			AD	AD7590			MicroPwr	MP7543				SE527	
AD7226	Harris LinearTech Motorola TI	LM158	(3262)	AD7521	AD	AD7591		AD7547	Signal Proc	HDAC7543		AD842	VTC	VA7696	
		OP249			MicroPwr	SW7511			AD	PM7545			AD	OP41	
AD741	Maxim AD	SSM2300	(3243, 3248)	AD7522	Maxim	MP7511DI	(3341)	AD7548	Burr-Brown	DAC7545	(3341)	AD843	AD	AD5539	(3240)
		CA4051			National	DM7590			Harris	AD7545				AD	
AD741S	MicroPwr Motorola National	LT1057	(3243, 3248)	AD7523	TeledyneS	TSC445		AD7549	Maxim	AD7545		AD844	Elantec	EL2038	(3240)
		MC34082			Unitrode	PIC7511			MicroPwr	MP7545				EL2039	
AD7501	TI	LT072	(3243, 3248)	AD7524	AD	MP7512DI		AD7550	Signal Proc	HDAC7545		AD845	Motorola	MC5539	
		PM7224			Unitrode	PIC7512			Sipex-HSD	HS7545			National	LM5539	
AD7502	Maxim AD	AD7224	(3243, 3248)	AD7525	TeledyneS	TSC444		AD7551	Maxim	AD7547		AD846	Signetics	NE5539	
		AD706			AD	AD7533			AD	PM7548				NE5539	
AD7503	MicroPwr Motorola National	AD708	(3243, 3248)	AD7526	Datel	PM7533		AD7552	Maxim	AD7548		AD847	Elantec	EHAS190	
		DAC8408			Harris	AD7533			MicroPwr	MP7550				EL2020	
AD7504	LinearTech Motorola	OP221	(3262)	AD7527	AD	DAC7533		AD7553	Sanyo	LA7550M		AD848	EL2040		
		OP297			AD	AD7533			AD	AD7572				EL2190	
AD7505	National AD	MC1458	(3262)	AD7528	Maxim	MX7533		AD7554	Signal Proc	HADC7572		AD849	Harris	HA2540	
		LM158			MicroPwr	MP7533			AD	ADC908				HA5190	
AD7506	Maxim AD	OP249	(3243, 3248)	AD7529	Maxim	MP7533		AD7555	Maxim	AD7574		AD850	Sipex-HSD	SP2540	(3241)
		SSM2300			AD	MP7533			MicroPwr	MP7574			AD	TP1341	
AD7507	Harris LinearTech Motorola	CA4051	(3243, 3248)	AD7530	National	PIC7533		AD7556	Maxim	AD7574		AD851	AD	AD842	(3241)
		LT1057			AD	AD7541			MicroPwr	MP7574				OP44	
AD7508	TI	MC34082	(3243, 3248)	AD7531	AD	AD7541		AD7557	Maxim	AD7575		AD852	Elantec	EL2041	
		LT072			Maxim	MX7541			Siemens	SDA3203				HA2522	
AD7509	Maxim AD	PM7224	(3243, 3248)	AD7532	Burr-Brown	DAC7541		AD7558	Toshiba	TD6316		AD853	Harris	HA5160	
		AD7224			MicroPwr	MP7541			Maxim	AD7576				HA5162	
AD7510	AD	AD706	(3243, 3248)	AD7533	National	DAC1220		AD7559	Plessey	SP4632		AD854	National	μ A715	
		AD708			AD	DAC1221			SEEQ	8023			VTC	CA705	
AD7511	LinearTech Motorola	DAC8408	(3243, 3248)	AD7534	Sipex-HSD	HS7541		AD7560	Siemens	SDA4212		AD842	AD	VA706	(3241)
		OP221			MicroPwr	MP7522			Siemens	SDA4212				VA706	
AD7512	National AD	OP297	(3262)	AD7535	Unitrode	PIC7522		AD7561	Maxim	S062P		AD843	OP44		
		LT1013			Datel	DAC7523			AD	AD7581				EL2041	
AD7513	LinearTech Motorola	MC1458	(3262)	AD7536	Harris	AD7523		AD7562	Maxim	MAX161		AD844	Harris	HA2522	
		MC1558			Maxim	MX7523			MicroPwr	MP7581				HA5160	
AD7514	National AD	LM158	(3262)	AD7537	MicroPwr	MP7523		AD7563	AD	AD7511		AD845	National	HA5162	
		PM7226			Motorola	MC7523			AD	AD7591			VTC	μ A715	
AD7515	Maxim AD	AD7226	(3243, 3248)	AD7538	National	LM7523		AD7564	MicroPwr	SW7511		AD846	AD	CA705	(3240, 3243)
		OP02			Unitrode	PIC7523			TeledyneS	TSC445				VA706	
AD7516	MicroPwr Motorola	OP77	(3243, 3248)	AD7539	AD	PM7524		AD7565	National	MP7511DI		AD847	AD	AD846	(3240, 3243)
		MP0P02			Maxim	MX7524			Unitrode	PIC7511				OP160	
AD7517	National AD	MC1741	(3243, 3248)	AD7540	MicroPwr	MP7524		AD7566	AD	AD7511		AD848	Burr-Brown	HFA0005	(3332)
		μ A741M			Motorola	MC7524			AD	AD7590				OP620	
AD7518	Raytheon Samsung	LM741	(3243, 3248)	AD7541	TI	TLC7524		AD7567	MicroPwr	SW7511		AD849		3554AM	(3332)
		LM741			AD	PM7528			National	MP7511DI				3554BM	
AD7519	SGS-Thomson	LM741	(3243, 3248)	AD7542	Maxim	AD7528		AD7568	TeledyneS	TSC445		AD850	Harris	HA5004	(3332)
					MicroPwr	MC7528			AD	MP7528				HA5195	
AD7520	Signetics SiliconG TI	μ A741	(3243, 3248)	AD7543	Motorola	CLC7528		AD7569	Unitrode	PIC7511		AD851	Comlinear	CLC400	
		SG741			AD	AD7520			AD	AD7512				CLC400AID	
AD741S	AD	μ A741	(3243, 3248)	AD7544	AD	AD7533		AD7570	MicroPwr	MP7512DI		AD852	Elantec	ELA5195	
		μ A741M			TeledyneS	TSC444					ELA5195				
AD7501	National Raytheon TI	PM741	(3243, 3248)	AD7545	Datel	DAC7533		AD7571	Unitrode	PIC7512		AD853		EL2020	
		LH741A			Harris	AD7533			AD	AD7512				EL2030	
AD7502	Maxim MicroPwr	RC741	(3243, 3248)	AD7546	Maxim	MX7533		AD7572	Dionjcs	DI604A		AD854		EL2195	
		SN74154			MicroPwr	MP7533			Maxim	AD7628				EL2195	
AD7503	AD	MUX08	(3243, 3248)	AD7547	AD	PM7633		AD7573	MicroPwr	MP7628		AD855	Harris	HA5004	
		AD7501			National	PIC7533			Motorola	MC12020				HA5195	
AD7504	Maxim MicroPwr	AD7501	(3243, 3248)	AD7548	Unitrode	PIC7533		AD7574	SGS-Thomson			AD856		HFA0001	
		MP7501			AD	AD7521			AD	AD7512				MAX452	
AD7505	Unitrode Toshiba	PIC7501	(3243, 3248)	AD7549	AD	AD7541		AD7575	Siemens	SO41P		AD857	Maxim	LM6161	(3332)
		MP7502			AD	PM7541			Cypress	CY7C192				SP2542	
AD7506	AD	TA7502	(3243, 3248)	AD7550	Burr-Brown	DAC7541		AD7576	IDT	IDT71282		AD858	Sipex-HSD	TP1321	(3332)
		PIC7502			MicroPwr	AD7541			LogicDev	L7C192				TP1321	
AD7507	Unitrode AD	MUX88	(3243, 3248)	AD7551	Burr-Brown	AD7541		AD7577	Burr-Brown	ADC774		AD859	TeledyneS	VA707	
		AD7501			National	DAC1220			Harris	HI774				VA708	
AD7508	Burr-Brown Datel	MPC8S	(3243, 3248)	AD7552	AD	DAC1221		AD7578	MicroNet	MN774		AD860	AD	AD844	(3240, 3243)
		MUX808			Sipex-HSD	HS7541			Crystal	CS7820				OP160	
AD7509	Harris	DG505A	(3243, 3248)	AD7553	AD	AD7520		AD7579	Maxim	AD7820		AD861	Burr-Brown	HFA0005	(3332)
		DG508			AD	AD7530			AD	MAX150				OP620	
AD7510	Maxim	HI508	(3243, 3248)	AD7554		PM7533		AD7580	National	μ A7820		AD862		3554AM	(3332)
		MAX358			Datel	DAC7533			AD	KAD0820				3554BM	
AD7511	MicroPwr Motorola	MAX368	(3243, 3248)	AD7555	Harris	AD7533		AD7581	Siliconix	SI7820		AD863	Comlinear	3554SM	(3332)
		MP7508DI			Maxim	MX7533			TI	μ A7820				CLC400	
AD7512	National AD	MC6108	(3243, 3248)	AD7556	MicroPwr	MP7533		AD7582		SN55182		AD864	CLC400AID		
		LF11508			AD	MP7633			AD	TLC0820				CLC401	
AD7513	TeledyneS	LF13508	(3243, 3248)	AD7557	National	AD7533		AD7583	GoldStar	GL7824		AD865	Elantec	ELA5195	
		TP4554			Unitrode	PIC7533			Maxim	AD7824				ELA5195	
(Continued)				(Continued)				(Continued)				(Continued)			

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Analog Devices (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
AD846	Elahtec	(Cont'd)		CMPO4	Harris	CA339		DMX88	Maxim	MAX358		MAT02EH	AD	MAT01AH	
		EL2020			NEC	μPC339			MicroPwr	MAX368			Lin Int Sys	MAT01GH	
		EL2030		CMPO5	Raytheon	RC4805		DMX88	Motorola	MP7508DI			MicroPwr	MAT02AH	
		EL2195		DAC01C	Plessey	SP9680			National	MC6108			Motorola	LS312	
	Harris	HA5004		DAC02C	NEC	μPC603		DMX88	TeledyneS	LF11508		MOD1020	TRWLSI	MP312	
		HA5195			NEC	μPC610		HDS0805	Adv Analog	LF13508		MOS050	AD	LM114A	
		HFA0001			Fujitsu	MB4072		HOS050	AD	TP4554				LM114AH	
	Maxim	MAX452			Harris	CD4072B				0805H				TAC1020	
	National	LM6161			Motorola	MC14072				ADLH0032				ADLH0032	
	Sipex-HSD	SP2542			National	CD4072				HOS060				HOS050	
	TeledyneS	TP1321				F4072				MOS050				HOS060	
	VTC	VA707			SGS-Thomson	HCC4072				ELH0032				ELH0032	
		VA708				HCF4072				EL2006				EL2006	
AD847	Harris	HA2544			Signetics	HEF4072				HA2542				HA2542	
	National	LM6361			Toshiba	TC4072B				LH0032				LH0032	
AD849	AD	AD5539	(3240)	DAC10	Datel	DAC1C10B		HOS060	TeledyneS	TP0032		MPX8	AD	TP0032	
		AD839			Raytheon	DAC10			AD	ADLH0032		MUX08	AD	192	
	Elahtec	EL2038		DAC100	AD	ADDAC100				HOS050			Maxim	AD7501	
		EL2039		DAC1136	Adv Analog	CYDAC1136				MOS050			MicroPwr	MP7501	
	Motorola	MC5539		DAC1138	Adv Analog	CYDAC1138				ELH0032			Unitrode	PIC7501	
	National	LM5539		DAC12	Adv Analog	CYDAC12				EL2006		MUX16	AD	AD7506	
	Signetics	NE5539		DAC14	Adv Analog	CYDAC14				HA2542			Datel	AD7506	
		SE5539		DAC1408	AD	AD1408				LH0032				AD7506	
AD8531	Harris	AD7531			Hitachi	HA17008		HOS100	TeledyneS	TP0032			Harris	AD7506	(3360)
	Maxim	MX7531			Motorola	MC1408			AD	ADLH0033				AD7506	(3360)
	MicroPwr	MP7531			National	μA0801			Burr-Brown	OPA633				AD7506	
	National	AD7531				μA0802			Elahtec	EHOS100		MUX24	MicroPwr	AD7506	
	Unitrode	PIC7531				DAC0806				ELH0033			Motorola	MC7506	
AD9000	MicroNet	MN5903				DAC0807				ELH2004			AD	ADG509A	(3237)
AD9002	STC	SCA5008				DAC0808				ELH2005			Burr-Brown	MB5208	
AD9048	Datel	AD304	(3358)			MA0802M				EL2001			Fujitsu	DG509A	
	IDT	IDT75C48			Samsung	KDA0806				EL2004			Harris	AD7506	
	Sony	CXA1096P				KDA0807				EL2005				AD7506	
AD9521	Plessey	SL521				KDA0808				EL2031			Maxim	DG509A	
AD9610	Sipex-HSD	SP9610		DAC1508	Signetics	MC1408				EL2033				AD7506	
AD96687	AMD	AM6687			AD	AD1508				HA5033				AD7506	
	AD	AD9687			Datel	DAC1C8BM				LH0033				AD7506	
	Brooktree	BT687			Motorola	MC1508				MAX460				AD7506	
	Honeywell	HCMP9687			National	MC1508				MAX460				AD7506	
		HCMP96870			Signetics	MC1508				MP0033		MUX28	AD	AD7506	
	Plessey	SP9687			Adv Analog	CYDAC16				MP0033C			Datel	AD7506	
	VTC	VC9687		DAC16	AMD	AM6012				MP2004				AD7506	
AD9685	AMD	AM6685		DAC312	AD	AD6012				LH0033				AD7506	
		AM6685				PM6012				LH4001				AD7506	
		AM6685				μPC6012				LM6121				AD7506	
	Honeywell	HCMP96850				ZN6012				LM6321				AD7506	
	Motorola	MCM93415		DAC80	Plessey	AD6012				TP1359				AD7506	
	National	93415			Signetics	AD6012				VA033	(3713)			AD7506	
	Plessey	SP9683			AD	ADDAC80				EHOS200				AD7506	
	Signal Proc	HCMP96850			Burr-Brown	DAC80				SH376				AD7506	
AD9686	AMD	AM6686				DAC800				SHA2200				AD7506	
	AD	AD790	(3239)		Harris	ICM7216				SHC804	(3345)			AD7506	
	National	LM161				ICM7226				SHM45				AD7506	
		LM260				DAC80	(3549)			SHM45M				AD7506	
		LM261			MicroNet	DAC1280				SHM4860				AD7506	
		LM263			National	HSDAC80				THA05203				AD7506	
	Signetics	NE5105		DAC8043	Sipex-HSD	MAX543				THA05210				AD7506	
		NE527		DAC8212	Maxim	AD7547				MicroNet	MN0300A	(3548)			
		SE5105			AD	AD7547				MN376		(3548)			
		SE527			Maxim	AD7547				MN377					
		SE527		DAC8248	AD	AD7537	(3224)			HS9720					
	VTC	VA7696		DAC8408	Maxim	AD7537				TP4860					
AD9687	AMD	AM6687			AD	AD706				4860					
	AD	AD96687	(3239, 3260)			AD708	(3243, 3248)								
						AD7225									
	Brooktree	BT687				OP221									
	Honeywell	HCMP9687				OP297									
		HCMP96870				LT1013									
	Plessey	SP9687			LinearTech	MC1458									
	VTC	VC9687			Motorola	MC1558									
	Honeywell	HDAC97000				LM158									
AD9700	AD	AD521		DAC86	National	AM6070									
AMPO5		AD624			AD	AD707	(3245)								
	Burr-Brown	INA110				OP177									
	National	LM148				MAX400									
		LM163				LM607									
		LM148				RC4077									
BUF03	Elahtec	ELH0002		DAC88	Raytheon	XR541									
		EL2001			Exar	ADAM824B									
		EL2002			Analogic	ADAM825B									
		EL2003			Analogic	ADAM834B									
	Harris	HA5002			Analogic	ADAM835B									
	LinearTech	LT1010			Analogic	ADC4110									
	National	LH0002			AD	AD7503									
	TeledyneS	LH0002				MUX88									
B100	Adv Analog	A401				MUX88									
CMPO1	Lansdale	ML5492			Burr-Brown	MC8S									
	National	DM5492			Datel	MUX808									
	TI	SN5492A				MX808	(3360)								
CMPO4	AD	PMI139			Harris	DG505A									
	Fujitsu	MB4204				DG508									
			(Continued)			HI508									

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Analog Devices (Cont'd)				Analog Devices (Cont'd)				Analog Devices (Cont'd)				Analog Devices (Cont'd)			
OP11	Motorola	MC33174	(Cont'd)	OP160	Elantec	EL2020	(Cont'd)	OP221	LinearTech	LT1013	(Cont'd)	OP420	SGS-Thomson	TL064	(Cont'd)
		MC4741				EL2030			Motorola	MC1458				TL064	
	National	μA148			Harris	EL2195				MC1558			TI	TL044	
		LM148				HA5004		OP227	National	LM158		OP421		TL064	
	Raytheon	LM148				HA5195			LinearTech	OP227			AD	OP420	
		RC4741			Maxim	HFA0001			MicroPwr	MPOP227			Fujitsu	MB3615	
	SGS-Thomson				National	MAX452		OP249	TI	OP227			Harris	HA5144	
		LM148			Sipex-HSD	LM6161			AD	AD712				HA5154	
	TI	LM148			TeledyneS	SP2542				SSM2300	(3262)		SGS-Thomson		
	AD	OP97			VTC	TP1321			Harris	CA4051				TL064	
		PM1012		OP17	Motorola	VA707			LinearTech	LT1057			TI	TL044	
OP12		LT1012			National	VA708		OP27	Motorola	MC34082		OP43	AD	TL064	
	LinearTech	MPOP12				LF357			TI	LT072				AD544	
	MicroPwr	LM112		OP177	AMD	LF357		OP270	Harris	HA5127				OP16	
	National	LM212			AD	AM6070			OKI	MSM5127				PM156	
		LM312				AD707	(3245)		AD	OP14	(3245, 3248)			PM156A	
	Raytheon	LT1012				DAC86			Harris	HA2102			Burr-Brown	OPA156A	(3329, 3331)
	TI	LT1012			Maxim	MAX400				HA5102					
		OP12		OP20	National	LM607			MicroPwr	MPOP14			Harris	HA5170	
	AD	OP215			Raytheon	RC4077			National	μA1458HC				HA5180	
OP14		OP270			Harris	HA5141				LF412			LinearTech	LF156	
	Exar	XR1458				HA5151			NEC	LM1458				LF156A	
		XR4558			TI	TL061			Raytheon	μPC251			National	LF156	
	Fujitsu	MB3607		OP207	Toshiba	TA75061				RC4207				LF156A	
	Harris	CA1458			LinearTech	LT1002			Samsung	RC4227				OPA101	
		CA1558			MicroPwr	MP207			SGS-Thomson	MC1458			SGS-Thomson		
	Hitachi	HA17458		OP21	TI	TLE2021				μA1458		OP44	AD	LF156	
	Motorola	MC4558		OP215	AD	OP14	(3245, 3248)			MC1458				AD841	(3241)
		SE4558				OP270			Signetics	NE5512				AD842	(3241)
	National	μA1458			Exar	XR1458				SA1458			Elantec	EL2041	
		LM1558				XR4558				SE5512			Harris	HA2522	
	Raytheon	RC4558			Fujitsu	MB3607			TI	LF412				HA5160	
		RM4558			Harris	CA1458			Toshiba	TA75458			National	μA715	
	Samsung	MC4558				CA1558		OP271	Harris	HA2650			VTC	CA705	
	SGS-Thomson	LS4558			Hitachi	HA17458				HA2655				VA706	
		MC4558			Motorola	MC4558			Motorola	MC3307		OP470	Harris	HA4600	
	Signetics	MC1458			National	μA1458			SGS-Thomson	TS27L2				HA5104	
		MC1558				LM1558		OP290		TLC27L2			Raytheon	RC4156	
		NE4558			Raytheon	RC4558			TI	AD706				RM4156	
		SA4558				RM4558		OP297	AD	AD708	(3243, 3248)		Signetics	NE5514	
		SE4558			Samsung	MC4558				AD7225			TI	SE5514	
	TI	MC1458			SGS-Thomson	LS4558				DAC8408				TL136	
		MC1558				MC4558				OP221		OP471	Burr-Brown	XR4156	
		MC4558C			Signetics	MC1458			LinearTech	LT1013			NEC	OPA404	
		RC4558				MC1558			Motorola	MC1458		OP490	SGS-Thomson	μPC4574	
		RM4558				NE4558				MC1558					
		TL4558				SA4558		OP37	National	LM158			TI	TS27L4	
	Toshiba	TA75458				SE4558			AD	ADOP37				TLC1079	
		TA75558			TI	MC1458			Burr-Brown	OPA37				TLC27L4	
OP15	AD	AD381				MC1558			Harris	HA5137		OP61	TI	TLC27L9	
		AD544				MC4558C				HA5147		OP64	Harris	TL0082	
		OP43				RC4558			Lin Int Sys	OP37				HA2539	
		PM155				RM4558			LinearTech	LT1037			Sipex-HSD	HA5190	
	Burr-Brown	OPA606				TL4558				OP37			TeledyneS	SP2539	
	LinearTech	LF155				TA75458				OP37		OP77	AD	TP1342	
		LT1022				TA75558			Maxim	OP37				ADOP07	(3243, 3245)
		LT1055				OP43			MicroPwr	MPOP37				AD201	
		LT1056		OP22	AD	ICL7611			Motorola	OP37				OP06	
		OP15			Harris	ICL8021			Raytheon	OP37			Harris	CA0201	
	National	LF155				LM4250			TI	OP37				CA0301	
		LF353				ICL7611			Exar	XR3403				CA3193	
		LF411			Maxim	MC1776				XR3503				CA3493	
		LM110			Motorola	MC3476			Harris	HA5134				HA5130	
		LM210			National	μA776			Motorola	LM3403				HA5135	
		LM310				LF441				MC33174				HA5177	
	SGS-Thomson				SGS-Thomson	μA776			National	μA324			National	μA207	
		LF155				TS271				μA3403				LH0044	
	TI	LF353				LM224			Samsung	LM323			Raytheon	OP77	
		LF411			TI	TLC251				MC3403		OP80	AD	AD549	
OP16	LinearTech	LF356				TLC271			Signetics	LM324			Burr-Brown	OPA128	
	Motorola	LF356				TL061				LM324		OP97	AD	AD108	
	National	LF356				MB47358			TI	MC3403				AD705	
	SGS-Thomson			OP220	Fujitsu	CA358A			AD	TLE2024				PM1008	
		LF356			Harris	CA5260AX				AD547				PM108	
OP160	AD	AD844	(3240, 3243)			HA5142		OP41		OP43			LinearTech	LM108	
		AD846	(3240, 3243)		Motorola	MC3358			Burr-Brown	OPA121				LT1097	
					SGS-Thomson	TS272			Harris	CA3140			Motorola	LM108	
	Burr-Brown	HFA0005				NE532				CA3160			National	μA108	
		OPA620	(3332)		Signetics	TLC252			Motorola	MC34001				LM108	
		3554AM	(3332)		TI	TLC272			National	MC34071			Raytheon	RC4097	
		3554BM	(3332)			TLE2022			Sipex-HSD	LH0052			SiliconSys	SS32R108	
		3554SM	(3332)			AD706		OP42	Elantec	SP121			AD	CMP04	
	Comlinear	CLC400		OP221	AD	AD708	(3243, 3248)		Harris	EHA2510		PM1139	Fujitsu	MB4204	
		CLC400AID				AD7225			Sipex-HSD	SP2510			Harris	CA339	
		CLC401				DAC8408		OP420	AD	OP421			NEC	μPC339	
	Elantec	EHA5195				OP297			Fujitsu	MB3615		PM0820	Maxim	ADC0820	
		ELA5195							Harris	HA5144			MicroPwr	MP0820	
										HA5154			National	ADC0820	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Analog Devices (Cont'd)				PM148	Motorola	MC33174	(Cont'd)	PM219	AD	PM319	• PM355	LinearTech	LF355		
PM0820		KAD0820	(Cont'd)		National	MC4741			National	LM219	Motorola	LF355			
PM1008	Samsung	ADC0820			Raytheon	LM148			Samsung	KA219	National	LF355			
	AD	AD108				RC4741			SGS-Thomson	KA319	SGS-Thomson	LF355			
		AD705			SGS-Thomson	LM148		• PM2208A	Signetics	LM219	PM355A	LinearTech	LF355A		
	LinearTech	OP97			TI	LM148		• PM2308	National	LH2208A	• PM356	National	LF355A		
		PM108		PM155	AD	PM255		• PM2308A	National	LH2308		LinearTech	OP16		
		LM108			MicroPwr	MP255		PM239	National	LH2308A		Motorola	LF356		
	Motorola	LT1097			National	LF255			Harris	CA0239		National	LF356		
	National	LM108			SGS-Thomson	LM255			Motorola	LM239		SGS-Thomson	LF356		
		μA108		PM155A	LinearTech	LF155A			National	μA239	PM356A	AD	OP16	(3329)	
		μA208			National	LF155A				μA250		Burr-Brown	OPA356A		
	Raytheon	RC4097				LM239			Samsung	LM239		LinearTech	LF356A		
	SiliconSys	SSI32R108		PM156	AD	AD544			SGS-Thomson	LM239	• PM357	National	LF356A		
	AD	OP12				OP16				LM239		AD	OP17		
		OP97				OP43			Signetics	LM239		Motorola	LF357		
	LinearTech	LT1012				PM156A		• PM239A	TI	LM239	PM4136	National	LF357		
	MicroPwr	MPOP12			Burr-Brown	OPA156A	(3329, 3331)		Harris	CA0239A		AD	OP09		
	National	LM112				HA5170			Motorola	LM239A		Exar	XR4136M		
		LM212			Harris	HA5180		PM248	National	LM239A		Raytheon	RM4136		
		LM312			LinearTech	LF156			AD	OP11		TI	RM4136		
	Raytheon	LT1012				LF156A			Exar	XR4751	PM562	Lansdale	ML562		
	TI	OP12			National	LF156			GoldStar	GL348	PM6012	AD	AM6012		
PM108	AD	AD108				LF156A			Harris	LM348			AD6012		
		AD705				OPA101			Motorola	LM348		NEC	DAC312		
		OP97			SGS-Thomson	LF156			National	LM348		Plessey	μPC6012		
	LinearTech	PM1008		PM156A	AD	AD544		PM255	Samsung	LM348		Signetics	AM6012		
		LM108				OP16			TI	LM348		AD	AD7224		
		LT1097				OP43			AD	PM155	PM7226	AD	AD7224		
	Motorola	LM108				PM156			MicroPwr	MP255		Maxim	AD7226		
	National	μA108			Burr-Brown	OPA156A	(3329, 3331)	• PM256	National	LF255	PM741	AD	AD7226		
		μA208				HA5170			SGS-Thomson	LM255		National	AD741S	(3245)	
		LM108			Harris	HA5180			SGS-Thomson	LM256	• PM747	TI	AD741S		
	Raytheon	RC4097			LinearTech	LF156				LM256		AD	OP04		
	SiliconSys	SSI32R108				LF156A		PM308	AD	AD308		Harris	CA0747		
	AD	AD108A			National	LF156				OP97		Hitachi	HA17747		
	Harris	LM108A				LF156A			Motorola	PM1008		MicroPwr	MPOP04		
	LinearTech	LM108A				LF156A				PM1012		Motorola	MC1747		
	Motorola	LM108A			SGS-Thomson	OPA101			National	LM308		National	μA747		
	National	μA108A				OP15				μA308	• PM747	NEC	LM747		
		LM108A				PM157			Motorola	LM308		Raytheon	μPC1418		
	Raytheon	LM108A				OP15		• PM308A	National	AD308A		RC747	RM747		
	SGS-Thomson	LM108A				PM157A			AD	LM308A	• PM747	Signetics	μA747		
		LM108A				HL7649			LinearTech	LM308A		TI	μA747		
PM111	AD	AD111			Lansdale	LF351			Motorola	LM308A			μA747M		
	Raytheon	LM111			Motorola	LF157A			National	LM308A		AD	AD7524		
	SGS-Thomson	LM111			National	LF351		PM319	AD	LM219		Maxim	MX7524		
		LM111				LF353			National	LM219		MicroPwr	MP7524		
PM119	Signetics	LM119				μPC157				LM319		Motorola	MC7524		
	LinearTech	LT119			NEC	29621			Samsung	KA219		TI	TLC7524		
		LM119			Raytheon	KF351				KA319	PM7528	AD	AD7528		
	National	LM119			Samsung	PLS157			SGS-Thomson	LM219		Maxim	AD7528		
	Signetics	LM119				LF353		• PM339	Signetics	LM219		MicroPwr	MP7528		
	IDT	IDT39C01				OP15			GoldStar	GL339		Motorola	MC7528		
	Motorola	LM2901				PM157			Harris	CA0339		TI	TLC7528		
		MC3302				HL7649		• PM339	Motorola	LM339	PM7533	AD	AD7520		
	National	μA2901				LF351			National	μA339			AD7530		
		μA3302				LM2901				LM339			AD7533		
		LM2901				LM3302		• PM339	NEC	μPC137		Datel	DAC7533		
		LM3302				LM2901				μPC177		Harris	AD7533		
	Samsung	LM3302				LM3302		• PM339	Raytheon	LM339		Maxim	MX7533		
		LM3302				LM3302			Samsung	LM339		MicroPwr	MP7533		
	SGS-Thomson	LM2901				LM3302		• PM339	SGS-Thomson	LM339		National	MP7633		
		LM2901				LM3302				LM339	PM7541	AD	AD7533		
		MC3302				LM3302			TI	LM339		Unitrode	PIC7533		
	Signetics	LM2901				LM3302		• PM339	Toshiba	TA75339			AD7521		
		MC3302				LM3302			GoldStar	GL339			AD7531		
		LM3302				LM3302		• PM339A	Harris	CA0339A		Burr-Brown	DAC7541		
	TI	TA75339				LM3302			Motorola	LM339	PM7542	National	MP7541		
PM139A	Harris	CA0139A				LM3302			National	μA339			DAC1220		
	Motorola	LM139A				LM3302		• PM339A		LM339		Sipex-HSD	DAC1221		
		LM3302				LM3302				μA339	PM7542	AD	HS7541		
	National	LM139A				LM3302		• PM339A	NEC	μPC137		Maxim	AD7542		
	Raytheon	LM139A				LM3302				μPC177	PM7543	MicroPwr	AD7542		
	SGS-Thomson	LM139A				LM3302		• PM339A	Raytheon	LM339		Signal Proc	HDAC7542		
		LM139A				LM3302			Samsung	LM339		AD	AD7543		
	Signetics	LM339				LM3302				LM339A		Maxim	AD7543		
PM148	AD	OP11	(3247)	PM2108	LinearTech	LH2108		• PM339A	SGS-Thomson	LM339		MicroPwr	MP7543		
		OP400			National	LH2108				LM339	PM7545	AD	AD7545		
		OP470		PM2108A	National	LH2108A			TI	LM339		Burr-Brown	DAC7545	(3341)	
		PM248			Raytheon	LH2108A		• PM339A	Toshiba	TA75339		Harris	AD7545		
	Exar	XR4741			AD	AD211			AD	OP15		Maxim	AD7545		
	Harris	HA4741		PM211	Motorola	LM211		• PM339A		OP43		MicroPwr	MP7545		
	LinearTech	LT1014			National	LM211									
	MicroPwr	MPOP11			SGS-Thomson	LM211									
	Motorola	LM148				LM211	(3643)	• PM355							
		LM248			Signetics	SG211									
					SiliconG	LM211									
					TI	LM211									
			(Continued)				(Continued)				(Continued)			(Continued)	

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
Analog Devices (Cont'd)				(Cont'd)				Analog Systems				Apex Microtechnology				
PM7545			(Cont'd)	SMP11	Datel	SHMIC-1	(Cont'd)	44	AD	142		ADC4300	MicroNet	MN5296	(3547)	
	Signal Proc	HDAC7545			Harris	HA2420		440	Adv Analog	590				MN6290		
	Sipex-HSD	HS7545			National	LH0023		45	Adv Analog	A45			Sipex-HSD	HS9516		
PM7548	AD	AD7548		SSM2139	TeledyneS	TP4856		5360	Adv Analog	AMP801		AH20016	Burr-Brown	SCH804		
	Maxim	AD7548			Exar	OP270		574	Adv Analog	ADC574				HS9576		
PM7574	AD	ADC908				XR5532				ADC574A				SCH702	(3345)	
		AD7574				XR5532A			AD	AD574				SCH803	(3345)	
	Maxim	AD7574			MicroPwr	MP5532			Burr-Brown	ADC574A			Sipex-HSD	HS9720		
		AD7574			Signetics	NE5532			Datel	ADC574Z				ADC701	(3347)	
		MAX160				NE5532A			Harris	HI574		AM41216	Burr-Brown	A221		
		MP7574				SE5532				HI574A		MP221	Adv Analog	AM227		
PM7645	MicroPwr	MAX7645				SE5532A			Honeywell	HADC574		MP227A	Datel	ADC2714-6		
	Maxim	MP7645			TI	NE5532			Maxim	MAX574		MP2734	Adv Analog	AD8016		
	MicroPwr	MP7645				NE5532A			MCE	MCE574		MP8016	Adv Analog	VDAC8308		
REF01	AD	AD2700		SSM2210	AD	LMAT02			MicroNet	MN574A	(3547)	MP8308	Adv Analog	SH376		
	Maxim	AD2700			National	LM194			MicroPwr	MP574		SHA2200	Adv Analog	HTC0300A	(3235)	
	Sipex-HSD	HS2700				LM394				MP574A			AD	SCH804	(3345)	
		R675-4				LM394B			Sipex-HSD	HS574			Burr-Brown	SHM45		
REF01AZ	Thaler	VRE100		SSM2300	AD	LM394C				HS574A			Datel	SHM45M		
	AD	ADREF01				AD712			TeledyneS	TP574A				SHM4860		
		REF02	(3238)			OP249		603	Adv Analog	A202			ILC-DDC	THA05203		
	LinearTech	LT1019-10				CA4051		755	Adv Analog	A730				THA05210		
		REF01			Harris	LT1057				A731			MicroNet	MN0300A	(3548)	
		REF01A			LinearTech	MC34082		902	Adv Analog	A902				MN376	(3548)	
	Maxim	REF01			Motorola	TL072		903	Adv Analog	A903				HS9720		
	MicroPwr	MPREF01		SW05	TI	ADG200		904	Adv Analog	A904			Sipex-HSD	TP4860		
		MP5531			Harris	DG200		905	Adv Analog	A905			TeledyneS	4860		
	Motorola	MC1400AG10				HI200			Analog Systems					4860		
		MC1400AU10			Siliconix	DG200A			MA332	Raytheon	RM5534	SHA2410	AD	AD346	(3235)	
		MC1404			Unitorde	PIC7513				Signetics	NE531			AD386	(3235)	
		MC1504			National	LF11333					NE5534			AD389	(3235)	
	Raytheon	REF01		SW06		LF12333					NE5534A		Burr-Brown	SCH76	(3345)	
	TeledyneS	REF01				LF13333					SE5534		Sipex-HSD	HS9714		
		TSC9495				ADG201					SE5534A			HS9716		
		TSC9496		SW201	AD	MB47201					SE5534					
	Thaler	VRE100			Fujitsu	DG201					NE5534					
REF01EZ	LinearTech	REF01E			Harris	DG201A			MA333	AD	OP15		PA01	Apex	PA10	(325)
	Motorola	MC1400AU10				HI201				National	μA771		PA02	Apex	PA07	(325)
REF02	AD	ADREF02				LS201				TI	TL071			Elantec	ELH0101	
	Maxim	REF02			Lin Int Sys	DG201A					TL081C			Maxim	LH0101	
	MicroPwr	MPREF02			Maxim	MAX331					TA75071		PA07	National	LH0101	
	Raytheon	REF02			MicroPwr	MP201					CA3240			Apex	PA12	(325)
	TeledyneS	REF02			National	LF11201			MA336	Toshiba	ICL8043			Burr-Brown	OPA512	
		TSC9495				LF13201				Harris	OP215				3571	
REF02AZ	LinearTech	REF02A			Siliconix	DG201A					MC34002		PA09	TeledyneS	TP1468	
REF02EZ	AD	ADREF02			TeledyneS	TSC4201					MC34072		PA10	TeledyneS	TP1449	
		REF02	(3238)			TSC4202					μA772			Apex	PA01	(325)
	LinearTech	LT1019-5				SW02					TL072		PA11	Burr-Brown	OPA511	
		REF02			AD	SW02					TL082C			Apex	PA12	(325)
		REF02E			Maxim	DG202					TA75072			Burr-Brown	OPA512	
	Maxim	REF02				MAX332					TA75074		PA12	Burr-Brown	OPA512	
	MicroPwr	MPREF02			National	LF11202					CA3410			TeledyneS	TP1447	
	Raytheon	REF02				LF13202					MC33074		PA51	Apex	PA61	(325)
	TeledyneS	TSC9496			Siliconix	DG202					MC34004			Burr-Brown	OPA501	
REF03	AD	REF43	(3238)	SW7510	AD	AD7510					MC34004A		PA61	Apex	PA51	(325)
	Cherry Semi	CS1009			MicroPwr	MP7510DI			MA374	Harris	μA774			Burr-Brown	OPA501	
	Lin Int Sys	LS1009			TeledyneS	TSC445				Motorola	TL074		PA73	Burr-Brown	3573	
	LinearTech	LT1009			Unitorde	PIC7510					TL084BC		PA80	Burr-Brown	3580	
	Motorola	MC1400		SW7511	AD	AD7511					ZN459		PA81	Burr-Brown	3581	
		MC1500				AD7590							PA82	Burr-Brown	3582	
		LM185-2.5				AD7591							PA83	Burr-Brown	3583	
		LM236				MP7511DI								TeledyneS	TP1480	
		LM285-2.5			MicroPwr	DM7590							PA84	Burr-Brown	3584	
		LM385-2.5			National	TSC445										
		LM385-2.5			TeledyneS	PIC7511										
REF10	TeledyneS	TSC05			AD	AD44			MA459	Plessey	ZN459					
	AD	AD581		142		A137										
	Burr-Brown	REF10	(3340)	146	Adv Analog	A148										
	LinearTech	LT1021		148	Adv Analog	A185										
	Maxim	AD581		180	Adv Analog	A188										
	Thaler	VRE100		184	Adv Analog	A226										
		VRE105		210	AD	211										
REF43	AD	REF03	(3238)		AD	A226										
	Cherry Semi	CS1009		211	Adv Analog	210										
	Lin Int Sys	LS1009			AD	A230										
	LinearTech	LT1009		230	Adv Analog	233										
	Motorola	MC1400			AD	3293										
		MC1500			Burr-Brown	A230										
		LM185-2.5		233	Adv Analog	360										
		LM236			AD	A99										
		LM285-2.5			Burr-Brown	A124										
		LM385-2.5			Adv Analog	A702										
		LM385-2.5		260	AD	429										
		TSC05		40	Adv Analog	551										
RPT82	TeledyneS	TSC05			Adv Analog	A702										
	AD	RPT83	(3263)	41J	Adv Analog	A128										
	Exar	XRC277		422	Adv Analog	A734										
	Harris	CA22301			Adv Analog	KA2263										
RPT83	AD	RPT82	(3263)	428	Adv Analog	TA7343AP										
	Exar	XRC277		429	AD	540										
	Harris	CA22301			AD											
SMP10	LinearTech	LF198		43	Adv Analog											
	National	LF198		434	Adv Analog											
	Signetics	LF198			Samsung											
SMP11	AD	AD582			Toshiba											
		AD583		436	Adv Analog											
(Continued)				(Continued)				(Continued)				(Continued)				

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page		
AT&T (Cont'd)				ATMEL				AT27C1024 (Cont'd)				AT27HC1024 (Cont'd)					
• M411024	MicronTech Mitsubishi	MT4C1024 MH25608 MH25609 M5M4C1000 M5M41000S M5M410000		AT22V10	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8		National	μPD27C1024 NMC27C1024 μPD27C1024A MSM27C1024			Krueger	27C210 27C1024 μPD27C1024 NMC27C1024				
• M411024	Motorola NEC	MCM511000A μPD421000 MC421000			ATMEL Cypress	AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35		SGS-Thomson	M27C1024 27C1024 27C210 AM27C128 27128-200 (3513) 27128-250 (3513) 27128-300 (3513) 27128A-450 (3513)			NEC OKI SGS-Thomson	μPD27C1024A MSM27C1024 M27C1024 27C1024 27C210 AT27256				
• M411024	OKI Samsung	MSM41000 KM41C1000 KM41256A				PEEL22CV10	(3442)	National	NMC27128 MSM27128			Signetics ATMEL Catalyst Semi Hitachi Intel Krueger	M27C1024 27C1024 27C210 AT27256 CAT27HC256 HN27C256 27C256 (3501) 27C256-200 (3513) 27C256-250 (3513) 27C256-300 (3513)				
• M411024	SGS-Thomson	MKB45F56 HYB511000 TMS4C1024 TM4256FC1 TM5256			ICT Lattice	PEEL22CV10 GAL16V8A GAL18V10 GAL20V8A GAL22V10 PAL14L8 CPL20L8-35 CPL22V10 CPL22V10-25 CPL22V10-35 CPL22V10L-25 CPL22V10L-35 PLS173		Sharp ATMEL	M27128 LH57128 AT28C16 AT28HC16			Microchip	RO9256 27C256 M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256 TMS27PC256 TC54256 TC57256 VT27C256 WS27C256L				
• M411024	Toshiba	TC511000 TC511000C TC511001C DPD411M MB81C1000			National	GAL22V10 PAL14L8 CPL20L8-35 CPL22V10 CPL22V10-25 CPL22V10-35 CPL22V10L-25 CPL22V10L-35 PLS173						Microchip	RO9256 27C256 M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256 TMS27PC256 TC54256 TC57256 VT27C256 WS27C256L				
• M411024XP	Dense-Pac Fujitsu	MB81C1000 TH22568			Samsung	CPL22V10 CPL22V10-25 CPL22V10-35 CPL22V10L-25 CPL22V10L-35			Catalyst Semi EXEL Harris IDT Microchip National	CAT28C16A XL2816A HM6617 IDT78C16A 28C16A NMC2816 NMC9816A NM9816 R2816A KM2816A M2816A 2816 X2816 X2816A			Microchip Mitsubishi OKI Ricoh SEEQ TI Toshiba VLSI Tech Waferscale ATMEL Cypress Fujitsu	R09256 27C256 M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256 TMS27PC256 TC54256 TC57256 VT27C256 WS27C256L AT27C641 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F AM27S49 27S49 AT27HC642 CY7C261 CY7C263 CY7C264 MBM7144 MB7144 MB7144E 27HC641 27C565 932665 932667 932667C μPD27HC65 LH5749 LH5749J N82HS641 27HC641 27HC642 82HS641 SS1203 TMS278C49 WS57C49 WS57C49B AM27S49 27S49 AT27HC641 CY7C261 CY7C263 CY7C264 MBM7144 MB7144 MB7144E 27HC641 27C565 932665 932667C			
• M411024XP	GoldStar Hitachi	GM71C1000 HB561003 HM511000 HM51101 HM51102 HM561003 HY51C1000 HY51C1002			Signetics TI	TIBPAL22V10 TIBPAL22V10A TICPAL22V10 PALC22V10C AMPAL22V10 PALCE22V10 PAL14L8			Rockwell Samsung SEEQ	R2816A KM2816A M2816A 2816 X2816 X2816A			Microchip National Samsung Sharp	RO9256 27C256 M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256 TMS27PC256 TC54256 TC57256 VT27C256 WS27C256L AT27C641 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F AM27S49 27S49 AT27HC642 CY7C261 CY7C263 CY7C264 MBM7144 MB7144 MB7144E 27HC641 27C565 932665 932667 932667C μPD27HC65 LH5749 LH5749J N82HS641 27HC641 27HC642 82HS641 SS1203 TMS278C49 WS57C49 WS57C49B AM27S49 27S49 AT27HC641 CY7C261 CY7C263 CY7C264 MBM7144 MB7144 MB7144E 27HC641 27C565 932665 932667C			
• M411024XP	Hyundai	HY51C1000 HY51C1002		AT22V10L AT22V210	Cypress AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8							Microchip VLSI Tech Waferscale ATMEL Cypress Fujitsu	RO9256 27C256 M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256 TMS27PC256 TC54256 TC57256 VT27C256 WS27C256L AT27C641 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F AM27S49 27S49 AT27HC642 CY7C261 CY7C263 CY7C264 MBM7144 MB7144 MB7144E 27HC641 27C565 932665 932667 932667C μPD27HC65 LH5749 LH5749J N82HS641 27HC641 27HC642 82HS641 SS1203 TMS278C49 WS57C49 WS57C49B AM27S49 27S49 AT27HC641 CY7C261 CY7C263 CY7C264 MBM7144 MB7144 MB7144E 27HC641 27C565 932665 932667C			
• M411024XP	MicronTech Mitsubishi	MT4C1024 MH25608 MH25609 M5M4C1000 M5M41000S M5M410000			ATMEL Cypress	AT22V10 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35			Xicor	X2816 X2816A			Microchip National Samsung Sharp	RO9256 27C256 M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256 TMS27PC256 TC54256 TC57256 VT27C256 WS27C256L AT27C641 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F AM27S49 27S49 AT27HC642 CY7C261 CY7C263 CY7C264 MBM7144 MB7144 MB7144E 27HC641 27C565 932665 932667 932667C μPD27HC65 LH5749 LH5749J N82HS641 27HC641 27HC642 82HS641 SS1203 TMS278C49 WS57C49 WS57C49B AM27S49 27S49 AT27HC641 CY7C261 CY7C263 CY7C264 MBM7144 MB7144 MB7144E 27HC641 27C565 932665 932667C			
• M411024XP	Motorola NEC	MCM511000A μPD421000 MC421000				PEEL22CV10	(3442)		AMD	AM27C256 Intel Microchip National SEEQ SGS-Thomson	27C256 M27C256 27256 NMC27C256 27256 M27C256B 27C256 SMJ27C256 WS27C256 WS57C256 WS57C256F AM27C512 MD27C512 27C512 SMJ27C512 WS27C512L N27513 P27513 27513 27C513 RD27C64 VT28H64 AT27HC64 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F CS203 CY7C264 CD22203 27CX642			Microchip National Samsung Sharp	RO9256 27C256 M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256 TMS27PC256 TC54256 TC57256 VT27C256 WS27C256L AT27C641 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F CS203 CY7C264 CD22203 27CX642		
• M411024XP	OKI Samsung	MSM41000 KM41C1000 KM41256A			Gould AMI ICT Lattice	PEEL22CV10 GAL16V8A GAL18V10 GAL20V8A GAL22V10 PAL14L8 CPL20L8-35 CPL22V10 CPL22V10-25 CPL22V10-35 CPL22V10L-25 CPL22V10L-35 PLS173			Signetics TI	TIBPAL22V10 TIBPAL22V10A TICPAL22V10 PALC22V10C AMPAL22V10 PALCE22V10 PAL14L8			Microchip National Samsung Sharp	RO9256 27C256 M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256 TMS27PC256 TC54256 TC57256 VT27C256 WS27C256L AT27C641 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F CS203 CY7C264 CD22203 27CX642			
• M411024XP	SGS-Thomson	MKB45F56 HYB511000 TMS4C1024 TM4256FC1 TM5256 TC511000 TC511000C TC511001C			ICT Lattice	PEEL22CV10 GAL16V8A GAL18V10 GAL20V8A GAL22V10 PAL14L8 CPL20L8-35 CPL22V10 CPL22V10-25 CPL22V10-35 CPL22V10L-25 CPL22V10L-35 PLS173			Wafer scale	WS27C256 WS57C256 WS57C256F AM27C512 MD27C512 27C512 SMJ27C512 WS27C512L N27513 P27513 27513 27C513 RD27C64 VT28H64 AT27HC64 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F CS203 CY7C264 CD22203 27CX642			Microchip National Samsung Sharp	RO9256 27C256 M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256 TMS27PC256 TC54256 TC57256 VT27C256 WS27C256L AT27C641 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F CS203 CY7C264 CD22203 27CX642			
T7513A	Intel NEC TI	29C13 μPD9513AD TCM29C13 TCM2913 2133			National	GAL22V10 PAL14L8 CPL20L8-35 CPL22V10 CPL22V10-25 CPL22V10-35 CPL22V10L-25 CPL22V10L-35 PLS173			AMD	AM27C512 MD27C512 27C512 SMJ27C512 WS27C512L N27513 P27513 27513 27C513 RD27C64 VT28H64 AT27HC64 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F CS203 CY7C264 CD22203 27CX642			Microchip National Samsung Sharp	RO9256 27C256 M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256 TMS27PC256 TC54256 TC57256 VT27C256 WS27C256L AT27C641 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F CS203 CY7C264 CD22203 27CX642			
• WCM41256	Fujitsu Hitachi	MB81256 HM50256 HM50257 HY51C256 HY53C256			Samsung	CPL22V10 CPL22V10-25 CPL22V10-35 CPL22V10L-25 CPL22V10L-35 PLS173							Microchip National Samsung Sharp	RO9256 27C256 M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256 TMS27PC256 TC54256 TC57256 VT27C256 WS27C256L AT27C641 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F CS203 CY7C264 CD22203 27CX642			
• WCM41256	Hyundai	HM50257 HY51C256 HY53C256				AM27C010 AT27C1024							Microchip National Samsung Sharp	RO9256 27C256 M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256 TMS27PC256 TC54256 TC57256 VT27C256 WS27C256L AT27C641 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F CS203 CY7C264 CD22203 27CX642			
• WCM41256	Mitsubishi	MSM4257 M5M4256 M5M4257			ATMEL Catalyst Semi	CAT27C210 CAT27010 MBM27C1001 HN27C010 HN27C010G HN27C101 HN27C101G HN27C301G							Microchip National Samsung Sharp	RO9256 27C256 M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256 TMS27PC256 TC54256 TC57256 VT27C256 WS27C256L AT27C641 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F CS203 CY7C264 CD22203 27CX642			
• WCM41256	Motorola NEC OKI	MT1259 μPD41256 MSM37256 MSM37257A MSM41256			Fujitsu Hitachi	MBM27C1001 HN27C010 HN27C010G HN27C101 HN27C101G HN27C301G							Microchip National Samsung Sharp	RO9256 27C256 M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256 TMS27PC256 TC54256 TC57256 VT27C256 WS27C256L AT27C641 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F CS203 CY7C264 CD22203 27CX642			
• WCM41256	Samsung	KM41256 KM41256A				CAT27C210 CAT27010 MBM27C1001 HN27C010 HN27C010G HN27C101 HN27C101G HN27C301G							Microchip National Samsung Sharp	RO9256 27C256 M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256 TMS27PC256 TC54256 TC57256 VT27C256 WS27C256L AT27C641 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F CS203 CY7C264 CD22203 27CX642			
• WCM41256	Vitellic	V51C257 V53C256			Intel	27010 27210 27C210 M5M27C101K M5M27C102 M5M27C102K NMC27C010 μPD27C1001A SMM63100 TC571001 WS27C010L							Microchip National Samsung Sharp	RO9256 27C256 M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256 TMS27PC256 TC54256 TC57256 VT27C256 WS27C256L AT27C641 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F CS203 CY7C264 CD22203 27CX642			
• WCM41256	Western 41LF	WCM41256 AM26LS32 AM26LS32A 26LS32			Krueger Mitsubishi	27C210 M5M27C101K M5M27C102 M5M27C102K NMC27C010 μPD27C1001A SMM63100 TC571001 WS27C010L							Microchip National Samsung Sharp	RO9256 27C256 M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256 TMS27PC256 TC54256 TC57256 VT27C256 WS27C256L AT27C641 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F CS203 CY7C264 CD22203 27CX642			
• WCM41256	Motorola National	AM26LS32 μA26LS32 DM26LS32 DS26LS32 AM26LS32A AM26LS32AM 26L631 DS8923A			National NEC S-MOS Toshiba Waferscale	NMC27C010 μPD27C1001A SMM63100 TC571001 WS27C010L							Microchip National Samsung Sharp	RO9256 27C256 M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256 TMS27PC256 TC54256 TC57256 VT27C256 WS27C256L AT27C641 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F CS203 CY7C264 CD22203 27CX642			
• WCM41256	TI	AM26LS32A AM26LS32AM 26L631 DS8923A			AMD ATMEL Catalyst Semi Dense-Pac Fujitsu Hitachi	AM27C1024 AT27HC1024 CAT27C210 DPV27C1024A MBM27C1024 HN27C1024 HN27C1024G							Microchip National	RO9256 27C256 M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256 TMS27PC256 TC54256 TC57256 VT27C256 WS27C256L AT27C641 CY7C266 MBM27C64 MBM2764 27HC64 NM27C64 KA2153 LH5762J LH5763 LH5764J TMS27C49 TA7644BP WS57C49B WS57C64F CS203 CY7C264 CD22203 27CX642			
41LG 41LK	AMD National	26L631 DS8923A				CAT27C210 DPV27C1024A MBM27C1024 HN27C1024 HN27C1024G							Microchip National	RO9256 27C256 M5M27C256 			

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted

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◆ Discontinued

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Catalyst Semiconductor (Cont'd)				CAT71C256L		(Cont'd)		CS117	Fujitsu	MB4117-4 MB4117-6		CS494M	Exar	XR494 TL494	
CAT59C11A	Microchip National	ER5911 COP495 NMC93C46 NMC93C46 NMC9346 9346	(Cont'd)		Samsung	KM62256 KM68257 LH52256 LH52259			MicroLinear National	ML117 SSI117		CS511	Motorola	KA7500 TL494M	
	OKI	MSM16811 MSM16811RS MSM16911		CAT93C46	Sharp	CKX58256 TC55257 TC55257A UM62256A		CS189	SiliconSys	SSI32R117 (3645)			Cherry Semi	CS511R XR511	
	ROHM	BR93C46			Sony			CS2000	Exar	XRE100 MCEA20E MOE		CS511R	Exar	ML511	
	SGS-Thomson	M9346 ST93C46 ST93C47 TS93C46A SC22011		EXEL	UMC Catalyst Semi	CAT59C11A (3351) CAT93C46A (3351) XL93C46 (3396) XL93C46 (3396) HY93C46 (3475) 93C46 (3505) 93C46C (3505)		CS201A	Plessey	VTC VM201 (3714)			Cherry Semi	CS511 XR511	
CAT71C256	Sierra Catalyst Semi	CAT71C256L CY7C197 DPS92256L DPS92256L GM76C256 HM61256 HM62256 HM64456			Hyundai ICT			CS2017	Elantec	EHA2017		CS514	MicroLinear	ML511	
	GoldStar Hitachi	GM76C256 HM61256 HM62256 HM64456		OKI	MSM16811 MSM16811RS MSM16911			CS2500	Exar	XRG100 MCEA20G MOG		CS514R	SiliconSys	SSI32R511 (3645)	
	Hyundai	HY62C256 HY63C256 HY63C256L S32K8		ROHM	BR93C46			CS2706	Plessey	UC2706			Cherry Semi	CS514R SSI32R514 (3645)	
	Inova	IDT7M856S IDT71256L IDT71256S IDT8M824		SGS-Thomson	M9346 ST93C46 ST93C47 TS93C46A SC22011			CS2842A	UMC	UC2706 LS2842		CS541	SiliconSys	SSI32P541	
	LogicDev	L7C199		Sierra Catalyst Semi	CAT59C11A (3351) CAT93C46 (3351) XL93C46 (3396) XL93C46 (3396) HY93C46 (3475) 93C46 (3505) 93C46C (3505)				SGS-Thomson	UC2842 SG2842 (3642)		• CS555	Exar	XR555M XR555	
	MicronTech	MT5C2568		EXEL	XL93C46 (3396) XL93C46 (3396) HY93C46 (3475) 93C46 (3505) 93C46C (3505)			CS2843A	TeledyneS	TSC28C42 UC2842		• CS555	GoldStar Harris	GLC555 CA0555	
	Mitsubishi	M5M5256							SiliconG	UC2843 SG2843 (3642)		• CS555	Mitsubishi	M5E555 M51841 M51848	
	Mosel	MS62256		Hyundai				CS2844	TeledyneS	TSC28C43 UC2843		• CS555	Motorola National	MC1455 μA555	
	Motorola	MCM60256A		ICT					Unitrode	UC2844 TSC28C44		• CS555	Samsung	LM555 NE555	
	National	NM44251		Microchip National	ER5911 COP495 NMC93C46 NMC9346 NMC9346 9346			CS2845	UMC	UC2845			SGS-Thomson	NE555 NE555	
	NEC	μPD43256B			OKI	MSM16811 MSM16811RS MSM16911		CS2907-D14	National	LM2907		• CS555	Signetics	SE555 SE555	
	OKI	MSM51257JS MSM51257LRS MSM51257RJ MSM51257RS		ROHM	BR93C46			CS2917	Exar	XR2917			TI	TA7555S TA7555	
	Performance S-MOS	P4C1256 SRM20256 SRM20256C SRM2257		SGS-Thomson	M9346 ST93C46 ST93C47 TS93C46A SC22011			CS293D	National	LM2917				SSI32R570 TL493	
	Samsung	KM62256 KM68257 LH52256 LH52259		OKI	MSM16811 MSM16811RS MSM16911			CS298	SGS-Thomson	LM2917		• CS555	Toshiba	TA7555 TA7555S	
	Sharp	CKX58256 TC55257 TC55257A UM62256A		ROHM	BR93C46			CS299D	UMC	UC3610		CS570	SiliconSys	SSI32R570 TL493	
	Sony	TC55257						CS3000	Exar	XRF100		CS593C	Motorola	TL493CN UC493ACJ	
	Toshiba	TC55257A		Sierra	SC22011				MCE	MCEA20F			UMC	UC493ACN UC493A	
	UMC	UM62256A						CS3200	Plessey	MCF MOF		CS594C	Unitrode	DI514B DI514BR	
CAT71C256L	Catalyst Semi	CAT71C256 CY7C197 DPS92256 DPS92256L GM76C256 HM61256 HM62256 HM64456							MCE	MCEA20L			Dionics	DI514B XR6118	
	Cypress	CY7C197						CS3524	Plessey	MOL			Exar	MSL912	
	Dense-Pac	DPS92256 DPS92256L GM76C256 HM61256 HM62256 HM64456							Exar	XR3524			OKI	NE594 SA594	
	GoldStar	GM76C256						• CS3525A	Harris	CA3524		CS8205	Signetics	TL594C TL594M	
	Hitachi	HM61256 HM62256 HM64456							National	LM3524		CS925	TI	TD62781 TL495CJ	
	Hyundai	HY62C256 HY63C256 HY63C256L S32K8						• CS3525A	SGS-Thomson	SG3524 SG3524 SG3524C		CS820A	Toshiba	TL495CJ UC495ACN	
	Inova	IDT7M856S IDT71256L IDT71256S IDT8M824							Signetics	SG3524 SG3524C			UMC	MV8204 KA2410	
	LogicDev	L7C199							SiliconG	SG3524 (3642) SG3524B (3642)		CS8205	Plessey	XR28205 KA2411	
	MicronTech	MT5C2568							Unitrode	UC3524 UC3524A		CS925	Samsung	LM2925 LM2935	
	Mitsubishi	M5M5256							Ericsson	RL3525A XR3525A		CS935	National	LM2935 LM2935	
	Mosel	MS62256							Exar	LT3525 SG3525			SGS-Thomson	LM2935 LM2945	
	Motorola	MCM60256A							LinearTech	UC3525A MC34066		CS945	National	LM2945 LM2955	
	National	NM44251										ML510A	National	ML510A	
	NEC	μPD43256B											SiliconSys	SSI32R510A (3645)	
	OKI	MSM51257JS MSM51257LRS MSM51257RJ MSM51257RS													
	Performance S-MOS	P4C1256 SRM20256 SRM20256C SRM2257													
	Samsung	KM62256 KM68257 LH52256 LH52259													
	Sharp	CKX58256 TC55257 TC55257A UM62256A													
	Sony	TC55257													
	Toshiba	TC55257A													
	UMC	UM62256A													
	Catalyst Semi	CAT71C256 CY7C197 DPS92256 DPS92256L GM76C256 HM61256 HM62256 HM64456													
	Cypress	CY7C197													
	Dense-Pac	DPS92256 DPS92256L GM76C256 HM61256 HM62256 HM64456													
	GoldStar	GM76C256													
	Hitachi	HM61256 HM62256 HM64456													
	Hyundai	HY62C256 HY63C256 HY63C256L S32K8													
	Inova	IDT7M856S IDT71256L IDT71256S IDT8M824													
	LogicDev	L7C199													
	MicronTech	MT5C2568													
	Mitsubishi	M5M5256													
	Mosel	MS62256													
	Motorola	MCM60256A													
	National	NM44251													
	NEC	μPD43256B													
	OKI	MSM51257JS MSM51257LRS MSM51257RJ MSM51257RS													
	Performance S-MOS	P4C1256 SRM20256 SRM20256C SRM2257													
	Samsung	KM62256 KM68257 LH52256 LH52259													
	Sharp	CKX58256 TC55257 TC55257A UM62256A													
	Sony	TC55257													
	Toshiba	TC55257A													
	UMC	UM62256A													
	Catalyst Semi	CAT71C256 CY7C197 DPS92256 DPS92256L GM76C256 HM61256 HM62256 HM64456													
	Cypress	CY7C197													
	Dense-Pac	DPS92256 DPS92256L GM76C256 HM61256 HM62256 HM64456													
	GoldStar	GM76C256													
	Hitachi	HM61256 HM62256 HM64456													
	Hyundai	HY62C256 HY63C256 HY63C256L S32K8													
	Inova	IDT7M856S IDT71256L IDT71256S IDT8M824													
	LogicDev	L7C199													
	MicronTech	MT5C2568													
	Mitsubishi	M5M5256													
	Mosel	MS62256													
	Motorola	MCM60256A													
	National	NM44251													
	NEC	μPD43256B													
	OKI	MSM51257JS MSM51257LRS MSM51257RJ MSM51257RS													
	Performance S-MOS	P4C1256 SRM20256 SRM20256C SRM2257													
	Samsung	KM62256 KM68257 LH52256 LH52259													
	Sharp	CKX58256 TC55257 TC55257A UM62256A													
	Sony	TC55257													
	Toshiba	TC55257A													
	UMC	UM62256A													
	Catalyst Semi	CAT71C256 CY7C197 DPS92256 DPS92256L GM76C256 HM61256 HM62256 HM64456													
	Cypress	CY7C197													
	Dense-Pac	DPS92256 DPS92256L GM76C256 HM61256 HM62256 HM64456													
	GoldStar	GM76C256													
	Hitachi	HM61256 HM62256 HM64456													
	Hyundai	HY62C256 HY63C256 HY63C256L S32K8													
	Inova	IDT7M856S IDT71256L IDT71256S IDT8M824													
	LogicDev	L7C199													
	MicronTech	MT5C2568													
	Mitsubishi	M5M5256													
	Mosel	MS62256													
	Motorola	MCM60256A													
	National	NM44251													
	NEC	μPD43256B													
	OKI	MSM51257JS MSM51257LRS MSM51257RJ MSM51257RS													
	Performance S-MOS	P4C1256 SRM20256 SRM20256C SRM2257													
	Samsung	KM62256 KM68257 LH52256 LH52259													
	Sharp	CKX58256 TC55257 TC55257A UM62256A													
	Sony	TC55257													
	Toshiba	TC55257A													
	UMC	UM62256A													
	Catalyst Semi	CAT71C256 CY7C197 DPS92256 DPS92256L													

♦ Discontinued

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Cypress Semiconductor (Cont'd)				CY2147	Intel	2147 2147H 2147-35 (3513) 2147-45 (3513) 2147-55 (3513) 2147-70 (3513)	(Cont'd)	CY6116	Sony Toshiba UMC Vitellic VLSI Tech Fujitsu	CXK5814P TC2018 UM6116-35 (3688) V16C16 VT20C19 MB81C74 MB82B74 HM6288 HM6788 DPS9264 IDT7188 Mitsubishi Motorola NEC Performance Saratoga SGS-Thomson	(Cont'd)	CY7C144	Vitellic VLSI Tech IDT Performance Harris	V63C328 VT62A168 IDT71421 P4C147 HA5114 HM6514 5114 M58981 MSM5114 SRM2114C LC3514 5114 AMD Hitachi Performance Saratoga UMC VLSI Tech	(Cont'd)
CYPALC22V10L-35	ATMEL	AT22V10 AT22V210 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)	(Cont'd)	CY2148	AMD Cypress	ET2147 AM2148 CY21L49 CY7C148 CY7C149 HM6148H HM6148HL 2148H 2148-35 (3513) 2148-45 (3513) 2148-70 (3513)		CY7B164	Hitachi IDT Mitsubishi Motorola NEC Performance Saratoga SGS-Thomson	IMS1620 TC55416 VLSI Tech CY7C166 Fujitsu Hitachi IDT LogicDev		CY7C150	AMD Hitachi Performance Saratoga UMC VLSI Tech	VT20C50 IDT71981 L7C161 MT5C6406 F100183 Performance Saratoga VLSI Tech	
CYPAL16R6	AMD Cypress Gazelle	PAL16R6 PALC16R6 GA23SV8 GA23S8 GA23S8 HPL16RC6 HPL16RC6-5 HPL16R6 5C031 5C032 GAL16V8A GAL18V10 PAL16R6 CPL16R6 CPL16R6-35 CPL16R6L-35 PLUS16R6 TIBPAL16R6 TIBPAL16R6-20 TIBPAL16R6-30 PAL16R6Q-25 PALC46R6 DPS92256 DPS92256L		CY2149	AMD Intel	ET2148 AM2149 2149H 2149HL 2149-35 (3513) 2149-45 (3513) 2149-70 (3513)		CY7B166	Hitachi IDT LogicDev	IMS1620 TC55416 VLSI Tech CY7C166 Fujitsu Hitachi IDT LogicDev		CY7C162	AMD Hitachi Performance Saratoga	AM99C6404 DPS8M464 EDI HM6288 IDT7188L M51C98 L7C164 L7C166	
CYPAL46R6	AMD Cypress Dense-Pac	PALC46R6 DPS92256 DPS92256L		CY27LS03M	AMD	AM27LS03 AM27S03 SN74S189 CY27S03 CY7C189 CY74S189 DM74S189 DM7599 DM8599 54F189 AM27LS03 AM27S03 SN74S189 CY27LS03M CY7C189 CY74S189 DM74S189		CY7B185	Hitachi IDT LogicDev	IMS1624 T54LS152 CXK5465P TC55417 V61C62 VLSI Tech Fujitsu Toshiba AMD Performance		CY7C122	AMD Performance	MT5C6404 DPS8M289 F100181 1621 S-MOS Toshiba VLSI Tech IDT LogicDev	
CYPAL46R6	GoldStar Samsung	GM76C256 CPL16R6L-35 MBM10474A		CY27S07	AMD Cypress National	AM27S07 CY7C190 DM75S07 54F219 74F219 74F219A CY7C901 IDT39C01		CY7C128A	GoldStar LogicDev MicronTech Sony Vitellic VLSI Tech AD Cypress EDI Harris	P93U422 GM76C28 L6116 MT5C1608 CXK5814 V61C16 VT20C18 ADG506A (3237) CY6116 EDI8802 DG506A HM6516 HM65162 HM6716 HM6719 IDT6116 IDT6116A IDT6116L IDT6116S		CY7C166	LogicDev	MT5C6405 MCM6290 F100182 F1622 μPD4363 P4C198 P4C198A SSM7166 SSM7198	
CY10E47L	Fujitsu Hitachi National	HM10474 DM10474 F10474		CY2901	Signetics Cypress	SN74S189 CY27LS03M CY7C189 CY74S189 DM74S189 DM7599 DM8599 54F189 AM27S07 CY7C190 DM75S07 54F219 74F219 74F219A CY7C901 IDT39C01		CY7C129	Hitachi IDT	HM65162 HM6716 HM6719 IDT6116 IDT6116A IDT6116L IDT6116S		CY7C167A	Vitellic AMD Harris Hitachi IDT Intel LogicDev	V61C62 AM2167 HM65262 HM6267 IDT6167 51C66 51C67 L7C167	
CY100E47L	Saratoga Fujitsu Hitachi Motorola National	SSM10474 MBM100474A HM100474 MCM100474 DM100474 F100474		CY2901C	SGS-Thomson	TDA1220 W55901 (3717)		CY7C129	Intel LogicDev Maxim MicronTech Motorola	81C28 L76116 DG506A MT51C1608 MCM2018A MCM6116		CY7C168A	Sharp Hitachi IDT Mitsubishi Motorola NEC Performance SGS-Thomson	MSM2168 MCM6268 μPD4314C P4C168 MK41H68 CXK5416 CXK5416D UMC Vitellic VLSI Tech	
CY21L48	NEC	μPB100474 μPB100474A SSM100474		CY2909	Waferscale	2910A		CY7C129	Performance Saratoga Sony Toshiba UMC Vitellic VLSI Tech IDT Mosel IDT Vitellic VLSI Tech IDT VLSI Tech Cypress MicronTech Performance Sony Toshiba UMC	P4C116 SSM6116 CXK5814P TC2018 UM6116-35 (3688) V16C16 VT20C19 IDT7130 MS6130 IDT7132 IDT7132 IDT7142 VT7142 CY7C183 MT56C0816 P4C163 CXK7701 TC55188 (3682) UM61168		CY7C130	Hitachi	HM6516 HM65162 HM6716 HM6719 IDT6116 IDT6116A IDT6116L IDT6116S	
CY21L49	AMD	AM21L49 AM27S25 AM27S25A CY7C225 MCM27S25 DM77SR25 DM77SR25B DM77SR476 DM77SR476B DM87SR25 DM87SR25B DM87SR474 DM87SR476 DM87SR476B		CY2910A	AMD	2910A		CY7C129	Performance Saratoga Sony Toshiba UMC Vitellic VLSI Tech IDT Mosel IDT Vitellic VLSI Tech IDT VLSI Tech Cypress MicronTech Performance Sony Toshiba UMC	P4C116 SSM6116 CXK5814P TC2018 UM6116-35 (3688) V16C16 VT20C19 IDT7130 MS6130 IDT7132 IDT7132 IDT7142 VT7142 CY7C183 MT56C0816 P4C163 CXK7701 TC55188 (3682) UM61168		CY7C132	Hitachi	HM6516 HM65162 HM6716 HM6719 IDT6116 IDT6116A IDT6116L IDT6116S	
CY2147	AMD Cypress Fujitsu Intel	AM2147 CY7C147 MBM2147 M2147H		CY3341	Lansdale National	NL3341 CY3341AC 3341		CY7C144	Performance Saratoga Sony Toshiba UMC	P4C116 SSM6116 CXK5814P TC2018 UM6116-35 (3688) V16C16 VT20C19 IDT7130 MS6130 IDT7132 IDT7132 IDT7142 VT7142 CY7C183 MT56C0816 P4C163 CXK7701 TC55188 (3682) UM61168		CY7C168A	Sharp Hitachi IDT Mitsubishi Motorola NEC Performance SGS-Thomson	MSM2168 MCM6268 μPD4314C P4C168 MK41H68 CXK5416 CXK5416D UMC Vitellic VLSI Tech	

* Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Cypress Semiconductor (Cont'd)				CY7C186			(Cont'd)	CY7C197			(Cont'd)	CY7C261			(Cont'd)
CY7C168A	VLSI Tech	(Cont'd)			MicronTech	MT5C6408			SGS-Thomson	IMS1800			SiliconSys	SS1203	
		VT20C68			Mitsubishi	M5M5179			Sharp	LH52251			TI	TMS278C49	
		VT20C69			Mosel	MS6264			Cypress	CY7C199			Waferscale	WS57C49	
CY7C169A	Fujitsu	MB81C69A			Motorola	MCM6264			Dense-Pac	DPS92256L			CY7C263	AMD	AM27S49
	MicronTech	MT5C1604			National	NMC6164				EDPS92256L				ATMEL	AT27HC641
	Motorola	MCM6269			NEC	μPD4364			EDI	ED18833C					AT27HC642
	Performance	P4C169			Performance	P4C164			Fujitsu	MB8298				Cypress	CY7C261
	Saratoga	SSM6168			SGS-Thomson	IMS1630			Hitachi	HM62832					CY7C264
	SGS-Thomson								IDT	IDT71256				Fujitsu	MBM7144
		MK41H69			Sony	CKX55863			Lattice	SR256K8					MB7144
CY7C170A	IDT	IDT61970			Toshiba	TMM2088P			Motorola	MCM6206				ICT	MB7144E
	MicronTech	MT5C1605			UMC	UM6164			NEC	μPD43256A					27CX641
	SGS-Thomson				Vitellic	V63C64P			SGS-Thomson					Microchip	27HC641
		MK41H79			VLSI Tech	VT20C98				IMS1830				National	32Z565
	VLSI Tech	VT20C79			EDI	EDI8164				IMK48230					93Z665
CY7C171A	IDT	IDT71681			IDT	IDT7187				IMK58255					93Z665C
	LogicDev	LC171			IDT	IDT7187L				TC55328					93Z667
	MicronTech	MT5C1606			LogicDev	L7C187			CY7C199						93Z667C
	Performance	P4C1681			MicronTech	MT5C6401			Cypress	CY7C198				NEC	μPD27HC65
	Saratoga	SSM6171			Mosel	MS6287			Dense-Pac	DPS92256				Sharp	LH5749
CY7C172A	IDT	IDT71682			Motorola	MCM6187				DPS92256L					LH5749J
	LogicDev	LC172			National	MCM6287			EDI	ED18833C				Signetics	N82HS641
	MicronTech	MT5C1607				F1600			Fujitsu	MB8298					27HC641
	Performance	P4C1682				F1602			Hitachi	HM62832					27HC642
	Saratoga	SSM6172			NEC	μPD4361			IDT	IDT71256					82HS641
	VLSI Tech	VT20C72			Performance	P4C187			Lattice	SR256K8				SiliconSys	SS1203
CY7C182	Cypress	CY7C185			SGS-Thomson	IMS1600			Motorola	MCM6206				TI	TMS278C49
		CY7C186				IMS1601			NEC	μPD43256A				Waferscale	WS57C49
		EDI8808				TC5561			SGS-Thomson					AMD	AM27S49
	Fujitsu	MB82B79			Toshiba	TC5562				IMS1830					27S49
	Harris	HM65642				AM27LS03				IMK48230				ATMEL	AT27HC641
	IDT	DPS9264				AM27S03				CKX58255					AT27HC642
		IDT7164				SN74S189				TC55328				Cypress	CY7C261
		IDT7164S				CY27LS03M				VT62832					CY7C263
		MT5C6408			Cypress	CY27S03			CY7C225	AMD	AM21L49				MBM7144
		M5M5179				CY74S189					AM27S25				MB7144
		MS6264				DM74S189					CY21L49				MB7144E
		MCM6264			National	DM7599				Cypress	MCM27S25				ICT
		MCM6265				DM8599				Motorola	DM77SR25				Microchip
		NMC6164				54F189				National	DM77SR25B				National
	NEC	μPD4364				AM27S07					DM77SR476				93Z665
	Performance	P4C164				CY27S07					DM77SR476B				93Z665C
	SGS-Thomson					DM75S07					DM87SR25				93Z667
		IMS1630				54F219					DM87SR25B				93Z667C
		CKX55863				74F219A					DM87SR474				μPD27HC65
	Toshiba	TMM2088P				74F219					DM87SR476				Sharp
	UMC	UM6164				IDT	IDT71281				DM87SR476B				LH5749J
	Vitellic	V63C64P				LogicDev	L7C191			CY7C235	AMD	AM27S35			Signetics
	VLSI Tech	VT20C98				AD	AD7672	(3227)				AM27S37			27HC641
	Cypress	CY7C144				IDT	IDT71282				Motorola	MCM27S35			27HC642
	MicronTech	MT56C0816				LogicDev	L7C192				National	DM87SR181			82HS641
	Performance	P4C163				EDI	EDI8465C				AMD	AM27S45			82HS642
	Sony	CKX7701				Fujitsu	MB8184					AM27S45A			SS1203
	Toshiba	TC55188	(3682)				MB82B84					AM27S47			TI
	UMC	UM61168					HM6208					MB7238			Waferscale
	Vitellic	V63C328					HM6708					WS57C45			WS57C49B
	VLSI Tech	VT62A168					IDT71258					CY7C245A			ATMEL
CY7C184	MicronTech	MT56C4816					IDT71258					CY7C245A			AT27HC64
CY7C185	Cypress	CY7C182					MT5C2564					CY7C251			Fujitsu
		CY7C186					M5M5258								MBM27C64
		EDI8808					MCM6208								27HC64
		MB82B79					μPD43254								NM27C64
		HM65642					SGS-Thomson								KA2153
		DPS9264					IMS1820								LH5762J
		IDT7164					CKX54256								LH5763
		IDT7164S					TMS6708								LH5764J
		MT5C6408					TC55464								TMS27C49
		M5M5179					VT6208								Toshiba
		MS6264					IDT61298								Waferscale
		MCM6264					L7C195								WS57C49B
		MCM6265					L7C196								WS57C64F
		NMC6164					MicronTech	MT5C2565							MBM27C256A
		μPD4364					Toshiba	TC55465							MBM27C256H
		Performance	P4C164				Dense-Pac	DPS92256							LH57254J
	SGS-Thomson							DPS92256L							LH57255J
		IMS1630						MB81C81A							LH57256J
		CKX55863						MB82B81							AM27S281
		TMM2088P						HM6207							AM27S181
		UM6164						HM6707							S25089
		V63C64P						IDT71257							Hitachi
		VT20C98						IDT71257L							HN25089
		CY7C182						IDT71257S							HL7681
		CY7C185						L7C197							DM77LS181
		EDI8808						MT5C2561							DM77S281
		MB82B79						M5M5257							DM87S181
		HM65642						MCM6207							DM87S281
		DPS9264						μPD46251							93Z451
		IDT7164						Performance	P4C1257						29631
		IDT7164S						Samsung	KM61257						29631AM
			(Continued)												N82S181
															S82S181
															(Continued)

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Cypress Semiconductor (Cont'd)				CY7C292AL		(Cont'd)		CY7C510	Harris	HMA510		CY93422M		(Cont'd)	
				TI	TBP38L166			National	F100180			National	93422AM		
					TMS27C291			Signetics	100180			Performance	P4C422-15		
					TMS27C292			Waferscale	WS59510	(3717)		Vitesse	VS12G422TM		
CY7C282M		STC	STC5089	Waferscale	WS57C191				WS59610			PALC16L8	AMD	PAL16L8	
		TI	28586-60		WS57C291B			AMD	AM29517					PAL16L8	
		AMD	AM27S191		AT28HC291			AD	ADSP1017					PAL16L8	
			AM27S191A		AT28HC291L			Harris	HMU17					PAL16L8	
			AM27S191SA		EPMS064			LogicDev	LMU17					PAL16L8	
			27S191		EPMS128				LMU217					PAL16L8	
		ATMEL	AT28HC191		EPMS032				WTL2517					PAL16L8	
			AT28HC191L		EPMS127				CY2901					PAL16L8	
			AT28HC191L		C57L401				IDT39C01					PAL16L8	
		Cypress	CY7C292		C57401				IDM2909					PAL16L8	
			CY7C292A		C67401				AM2910A					PAL16L8	
			CY7C292AL		57401				IDT39C10					PAL16L8	
		Hitachi	HN25169		67C401				WS5910A	(3717)				PAL16L8	
		Motorola	MCM76101		IDT72401				WS5910B	(3717)				PAL16L8	
			MCM76160		DM77S401				L29C01					PAL16L8	
		National	DM77S191		74F413				CY2911					PAL16L8	
			DM87S191		C57402				AM29C116					PAL16L8	
			DM87S291		C57402A				AM29C116A					PAL16L8	
			DM87S291A		C67402				AM29116					PAL16L8	
			DM87S291B		C67402A				CY7C9117					PAL16L8	
			93Z510		57402				ICT					PAL16L8	
			93Z511		67C402				Raytheon					PAL16L8	
			93Z512		IDT72402				TI					PAL16L8	
			93Z511		DM77S402				TMS27C292					PAL16L8	
		Signetics	N82S191		DM77S402A				AMD	AM29C116				PAL16L8	
			N82S191A		DM87S402A					AM29C116A				PAL16L8	
			82S191		67C4013					AM29116				PAL16L8	
			TBP38L166		IDT72403					CY7C9116				PAL16L8	
			TMS27C291		67C4023					ICT				PAL16L8	
			TMS27C292		IDT72404					R29671S				PAL16L8	
		Waferscale	WS57C191		LH5481					Raytheon				PAL16L8	
			WS57C291B		LH5491					TI				PAL16L8	
			DM87S291		AM67C4501					AMD	AM27LS03			PAL16L8	
			TMS27C292		AM7201						AM27S03			PAL16L8	
		Waferscale	WS57C191		67C4501						SN74S189			PAL16L8	
			WS57C291B		DS2009						CY27LS03M			PAL16L8	
			AM27S191		IDT7201						CY27S03			PAL16L8	
			AM27S191A		IDT7201A						CY7C189			PAL16L8	
			AM27S191SA		IDT7201LA						DM74S189			PAL16L8	
			27S191		IDT7201SA						DM7599			PAL16L8	
		ATMEL	AT28HC191		MT52C9005						DM8599			PAL16L8	
			AT28HC191L		KM75C01A						54F189			PAL16L8	
			CY7C291		SSL7201						AM93L422			PAL16L8	
			CY7C292								AM93L422A			PAL16L8	
			CY7C292AL								CY93L422A			PAL16L8	
			HN25169		MK4501						CD22212			PAL16L8	
			MCM76101		LH5496						93L422			PAL16L8	
			MCM76160		SN74ACT7201						93L422A			PAL16L8	
			DM77S191		TACT7201						AM93L422			PAL16L8	
			DM87S191		V61C01						AM93L422A			PAL16L8	
			DM87S291		LH5496D						CY93L422			PAL16L8	
			DM87S291A		AM67C4502						CD22212			PAL16L8	
			DM87S291B		AM7202						93L422			PAL16L8	
			93Z510		67C4502						93L422A			PAL16L8	
			93Z511		DS2010						AM93422A			PAL16L8	
			93Z512		IDT7202						CY93422A			PAL16L8	
			93Z511		IDT7202A						AM93422A			PAL16L8	
			N82S191		IDT7202LA						CY93422			PAL16L8	
			N82S191A		IDT7202SA						AM93422			PAL16L8	
			82S191		MT52C9010						AM93422AC			PAL16L8	
			TBP38L166		MS7202A						CY93422C			PAL16L8	
			TMS27C291		MV61901						93422AC			PAL16L8	
			TMS27C292		KM75C02						93422C			PAL16L8	
			WS57C191		KM75C02A						P4C422			PAL16L8	
			WS57C291B		SSL7202						P4C422-10C			PAL16L8	
			AM27S191		LH5497						P4C422-8C			PAL16L8	
			AM27S191A		SN74ACT7202						VS12G422T			PAL16L8	
			AM27S191SA		TACT7202						AM93422AM			PAL16L8	
			27S191		V61C02						AM93422M			PAL16L8	
			AT28HC191		LH5497D						CY93422M			PAL16L8	
			AT28HC191L		AM7203						ICL8212			PAL16L8	
			CY7C291		DS2011						MAX8212			PAL16L8	
			CY7C292		IDT7203						93422AM			PAL16L8	
			CY7C292A		IDT7203LA						93422M			PAL16L8	
			HN25169		IDT7203SA						P4C422-15			PAL16L8	
			MCM76101		MT52C9020						VS12G422TM			PAL16L8	
			MCM76160		MS7203						AM93422			PAL16L8	
			DM77S191		KM75C03						AM93422AC			PAL16L8	
			DM87S191		KM75C102A						CY93422AC			PAL16L8	
			DM87S291		SSL7203						93422AC			PAL16L8	
			DM87S291A								93422C			PAL16L8	
			DM87S291B		MK4503						P4C422			PAL16L8	
			93Z510		LH5498						P4C422-10C			PAL16L8	
			93Z511		LH5498D						P4C422-8C			PAL16L8	
			93Z512		AM7204						VS12G422T			PAL16L8	
			93Z511		CY7C433						AM93422AM			PAL16L8	
			N82S191		MS7204						AM93422M			PAL16L8	
			N82S191A		AM7204						CY93422AM			PAL16L8	
			82S191		CY7C432						ICL8212			PAL16L8	
			(Continued)		MS7204						MAX8212			PAL16L8	
					(Continued)						(Continued)			(Continued)	

• Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page		
Cypress Semiconductor (Cont'd)				PALC22V10-35 (Cont'd)				PALC22V10L-35 (Cont'd)				PAL20L10 (Cont'd)					
PALC16R8	TI	(Cont'd)		Lattice		GAL16V8A GAL18V10 GAL20V8A GAL22V10		Gould AMI		PEEL22CV10 (3442)		Gould AMI		PEEL20CG10 (3442)			
PALC16R8-25	Samsung	TIBPAL16R8 TIBPAL16R8-20 TIBPAL16R8-30 TICPAL16R8		National		CPL20L8-35 CPL22V10 CPL22V10-25 CPL22V10-35 CPL22V10L-25 CPL22V10L-35		Lattice		PEEL22CV10 GAL16V8A GAL18V10 GAL20V8A GAL22V10 PAL14L8 CPL20L8-35 CPL22V10 CPL22V10-25 CPL22V10-35 CPL22V10L-25 CPL22V10L-35		ICT		PEEL20CG10 PAL12L10 PAL20L10 CPL20L10 CPL20L10-35 PEEL173 TIBPAL12L10 TIBPAL20L10 TIBPAL20L10A-2 PAL20L8 MB81C88 PEEL20CG10 (3442)			
PALC18G8	AMD	AMPAL18U8 GA23SV8 GA22VP10		Samsung		CPL22V10-25 CPL22V10-35 CPL22V10L-25 CPL22V10L-35		National		PEEL22CV10 GAL16V8A GAL18V10 GAL20V8A GAL22V10 PAL14L8 CPL20L8-35 CPL22V10 CPL22V10-25 CPL22V10-35 CPL22V10L-25 CPL22V10L-35		Signetics TI		Fujitsu Gould AMI			
PALC20G10	Gazelle			Signetics TI		PLS173 TIBPAL22V10 TIBPAL22V10A TICPAL22V10		Samsung		PLDC20G10	AMD	Hitachi ICT Lattice LogicDev Mitsubishi National NEC OKI Samsung Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10-25 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10-25	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-25	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp Sony TI		PLDC20RA10	VLSI Tech AMD Lattice National	VT64KS4 PAL20RA10 GAL20RA10 PAL20RA10	
PALC22V10L-35	AMD	AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-35 PALC22V10B PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		AMPAL22V10 AMPAL22V10A PALCE22V10 PAL14L8 AT22V10 AT22V210 CYPALC22V10L-35 PALC22V10 PALC22V10-25 PALC22V10-35 PALC22V10L-25 PALC22V10L-35 PEEL22CV10 (3442)		AMD		PLDC20RA10	AMD	Sharp					

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Dallas Semiconductor (Cont'd)				ADCHX12B		(Cont'd)		ADCHZ12BGZ		(Cont'd)		ADC856	Plessey	ZN433	
DS2010	AMD	AM67C4502		AD	ADADC84			MicroNet	MNADC84			ADC885	Adv Analog	ADC84	
		AM7202			ADADC85	(3228)			MNADC85					ADC85	
		67C4502			ADADC85S	(3228)			MNADC87					ADC87	
	IDT	IDT7202			ADADC87			Sipex-HSD	ADC581			ADC885	AD	ADADC84	
		IDT7202A			ADC85S				ADC581B					ADADC85	(3228)
		IDT7202LA		Burr-Brown	AD5240				ADC85B					ADADC87	
		IDT7202SA			ADC84	(3346)			HSADC85					ADC85S	
	MicronTech	MT52C9010			ADC85				HSADC85C					AD5240	
	Mosel	MS7202A		Datel	ADC87			TeledyneS	TP4189			ADC885	Burr-Brown	ADC84	(3346)
	Plessey	MV61901			ADCHX			Adv Analog	CYAD12					ADC85	
	Samsung	KM75C02			ADCHZ			AD	ADC12					ADC87	
		KM75C02A			ADCHZ12B			Plessey	ZN425			ADC885	Datel	ADCHX12B	
	Saratoga	SSL7202			ADCHZ12BGZ			MicroNet	MN5902					ADCHZ	
	Sharp	LH5497		MicroNet	MNADC84			Sony	CX20052A					ADCHZ12B	
	TI	SN74ACT7202			MNADC85			Sony	CXA1016P					ADCHZ12BGZ	
		TACT7202			MNADC87			Sony	CXA1056P					MNADC84	
	Vitellic	V61C02			MN5240	(3547)		ADC303	Plessey	SP97508		ADC885	MicroNet	MNADC85	
DS2011	AMD	AM7203		Sipex-HSD	ADC581				Signal Proc	HADC77100				MNADC87	
	Cypress	CY7C428			ADC581B			ADC304	AD	AD9048	(3230)			MN5240	(3547)
	IDT	IDT7203			ADC85B				IDT	IDT75C48		ADC885	Sipex-HSD	ADC581	
		IDT7203LA			HSADC85				Sony	CXA1096P				ADC581B	
		IDT7203SA			HSADC85C				Harris	HA5101				ADC85B	
	MicronTech	MT52C9020		ADCHZ	TP4189				Intel	5101				HSADC85	
	Mosel	MS7203		Adv Analog	ADC84				MicroNet	MN5101	(3547)			HSADC85C	
	Samsung	KM75C03			ADC85				Mitsubishi	M5L5101		ADC885	TeledyneS	TP4189	
		KM75C102A			ADADC84				Motorola	MCMS1L01		AMC8013	AD	AD530	
	Saratoga	SSL7203		AD	ADADC85	(3228)				MCM145101				AD533	
	SGS-Thomson	MK4503			ADADC85S	(3228)		ADC5101	National	MM74C920		AMC8013	Burr-Brown	MPY100	(3338)
	Sharp	LH5498			ADADC87				Panasonic	MNS101				4203	
DS2012	IDT	IDT7204			ADC85S			ADC5210	Sharp	LH5101		AMC8013	Harris	ICL8013	
DS2180	Crystal	CS2180		Burr-Brown	AD5240				Adv Analog	ADC5210			Analogic	MP227A	
DS232	Dallas	DS1228			ADC84	(3346)			AD	AD5210	(3228)	AM450-2	AD	AD540	
	Harris	ICL232			ADC85				Fujitsu	MB5210			Elantec	EHA2505	
	LinearTech	LT108		Datel	ADC87				MicroNet	MN5210	(3547)		Harris	HA2505	
		LT1081			ADCHX				Sipex-HSD	HS5210			Sipex-HSD	SP2505	
	Maxim	MAX232			ADCHX12B				AD	AD5211		AM450-2M	Elantec	EHA2502	
	Sipex-HSD	SP232			ADCHZ12B				MicroNet	MN5211	(3547)		Harris	HA2502	
	TeledyneS	TSC232			ADCHZ12BGZ				Adv Analog	ADC5212			Sipex-HSD	SP2502	
DS6151	XECOM	XE1251		MicroNet	MNADC84				AD	AD5212		AM452	Burr-Brown	3507	
DS6153	XECOM	XE1253			MNADC85				MicroNet	MN5212	(3547)		Intronics	ASE60	
					MNADC87				AD	AD5213		AM452-2M	Elantec	EHA2522	
					MN5240	(3547)			MicroNet	MN5213	(3547)		Sipex-HSD	HA2522	
				Sipex-HSD	ADC581				AD	AD5214				SP2522	
					ADC581B				MicroNet	MN5214	(3547)	AM453-2C	AnalogSys	MA332	
					ADC85B				Sipex-HSD	MN5214			Raytheon	RM5534	
					HSADC85				TeledyneS	TP5214			Signetics	NE531	
					HSADC85C				AD	AD5215				NE534	
				ADCHZ12B	TP4189				MicroNet	MN5215	(3547)			NE5334A	
				Adv Analog	ADC84				MicroNet	MN5216	(3547)			SE5534	
					ADC85				Sipex-HSD	HS5216				SE5534A	
					ADC87			ADC574Z	Adv Analog	ADC574		AM453-2C	TI	SE5534	
					ADADC84					ADC574A				NE5534A	
					ADADC85	(3228)			AD	AD574				SE5534	
					ADADC85S	(3228)				574				SE5534A	
					ADADC87				Burr-Brown	ADC574A		AM460-2	Burr-Brown	3506	
					ADC85S				Harris	HI574			Elantec	EHA2605	
					AD5240					HI574A			Harris	HA2605	
				Burr-Brown	ADC84	(3346)			Honeywell	HADC574			Motorola	MC1456	
					ADC85				Maxim	MAX574			Sipex-HSD	SP2605	
					ADC87				MCE	MCE574			TI	MC1456	
				Datel	ADCHX				MicroNet	MN574A	(3547)	AM460-2M	Elantec	EHA2602	
					ADCHX12B				MicroPwr	MP574			Harris	HA2602	
					ADCHZ					MP574A			Sipex-HSD	SP2602	
					ADCHZ12BGZ				Sipex-HSD	HS574		AM462-1	Allegro	ULN2172	
					MNADC84					HS574A			Micro	ULN2174	
					MNADC85				TeledyneS	TP574A				AD507	
					MNADC87			ADC674	AD	AD674		AM462-1	AD	3508	
					MN5240	(3547)			Burr-Brown	ADC674A			Burr-Brown	AM462-2	
				Sipex-HSD	ADC581				Datel	ADC674Z			Datel	EHA2620	
					ADC581B				Harris	HI674A			Elantec	EHA2625	
					ADC85B				Hitachi	HA1782A				HA2622	
					HSADC85				Honeywell	HADC674		AM462-1	Harris	CA3100	
					HSADC85C				Sipex-HSD	SP674A				HA2620	
					TP4189				AD	AD674				HA2622	
				ADCHZ12BGZ	ADC84				Burr-Brown	ADC674A		AM462-1	Sipex-HSD	SP2620	
				Adv Analog	ADC85				Datel	ADC674				HA2625	
					ADC87				Harris	HI674A		AM462-2	Micro	ULN2172	
					ADADC84				Hitachi	HA1782A				ULN2174	
					MNADC85				Honeywell	HADC674				AD507	
					ADADC85S	(3228)			Sipex-HSD	SP674A				3508	
					ADADC87				Harris	ICL7109				EHA2620	
					ADC85S			ADC7109	Maxim	ICL7109			Burr-Brown	EHA2625	
					AD5240				Siliconix	TSC7109A			Elantec	HA2622	
					ADC84	(3346)			TeledyneS	TSC7109				CA3100	
					ADC85				MicroNet	MN5825	(3547)			HA2620	
				Burr-Brown	ADC87				TeledyneS	TSC8701				HA2622	
				Datel	ADCHX				Plessey	ZN449				HA2625	
					ADCHX12B				Plessey	ZN447E				HA2620	
					ADCHZ				Plessey	ZN447J				HA2625	
					ADCHZ12B				Plessey	ZN449E				SP2620	

* Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

QUALI: SOURCE DIRECTORY

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ALT CAMPUS REPRESENTATIVE

2447

◆ Discontinued

ALT SOURCE DIRECTORY

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IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Eltantec (Cont'd)				HA2622 Harris (Cont'd)				EDH816H64C-35 Dense-Pac DPS1026-35				EDI8M8128C (Cont'd)			
EL2038	AD	AD5539 (3240)		HA2622		HA2622		EDH816H64C-45	Dense-Pac	DPS1026-45		EDI8M8128C100	Sony	CKX581000P	
		AD839		HA2625		HA2625		EDH816H64C-70	Dense-Pac	DPS1026-70			Toshiba	CKX581001P	
		AD849 (3240)		SP2620	Sipex-HSD	SP2620		EDH816H64C-70	EDI	EDIM1664C45			UMC	UM621024	
	Eltantec	EL2039		Electronic Designs Inc. (EDI)				EDH84H64C	Dense-Pac	IDT7M624S-85			Dense-Pac	DPS128M8	
	Motorola	MC5539		EDH8M8128	Cypress	CYM1421		EDH8808	IDT	IDT7MP456				DPS128M8L	
	National	LM5539			Dense-Pac	DPS128M8			Harris	HM8808				DPS41288 (3376)	
		LM6365				DPS128M8L			National	DS8808				DPS41288LP (3376)	
	Signetics	NE5539				DPS41288 (3376)				DS8808				DPS41288P (3376)	
		SE5539				DPS41288LP (3376)				DS8808				Hitachi	HM66204-100
EL2039	AD	AD5539 (3240)				DPS41288P (3376)		EDH8832	Cypress	CYM1421				HM66204L-100	
		AD839				DPS41288P (3376)				CYM1421HD				IDT8M824S-100	
		AD849 (3240)				DPS41288P (3376)			Dense-Pac	DPS128M8		EDI8M8128C120	Dense-Pac	DPS128M8	
	Eltantec	EL2038				DPS41288P (3376)				DPS128M8L				DPS128M8L	
	Motorola	MC5539				DPS41288LP (3376)				DPS41288 (3376)				DPS41288 (3376)	
	National	LM5539				DPS41288LP (3376)				DPS41288LP (3376)				DPS41288LP (3376)	
		LM6365				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	Signetics	NE5539				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		SE5539				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
EL2040	AD	AD840 (3240)				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	Eltantec	EHA5190				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		EL2020				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		EL2190				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	Harris	HA2540				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		HA5190				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	Sipex-HSD	SP2540				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	TeledyneS	TP1341				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	AD	AD518				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		AD841 (3241)				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		AD842 (3241)				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		OP44				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	Harris	HA2522				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		HA5160				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		HA5162				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	LinearTech	LM318				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		LT1023				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	National	μA715				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		LM118				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		LM318				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	SGS-Thomson	LM318				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		NE530				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	Signetics	NE538				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		SE530				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		SE531				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	TI	LM318				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	VTC	CA705				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		VA706				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
EL2190	AD	AD840 (3240)				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	Eltantec	EHA5190				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		EL2020				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		EL2040				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	Harris	HA2540				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		HA5190				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	Sipex-HSD	SP2540				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	TeledyneS	TP1341				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	AD	AD844 (3240, 3243)				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		AD846 (3240, 3243)				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		OP160				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	Burr-Brown	HFA0005				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		OPA620 (3332)				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		3554AM (3332)				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		3554BM (3332)				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		3554SM (3332)				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	Comlinear	CLC400				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		CLC400AID				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		CLC401				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	Eltantec	EHA5195				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		ELA5195				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		EL2020				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		EL2030				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	Harris	HA5004				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		HA5195				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		HFA0001				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	Maxim	MAX452				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	National	LM6161				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	Sipex-HSD	SP2542				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	TeledyneS	TP1321				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		VA707				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	VTC	VA708				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
HA2622	Allegro	ULN2172				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	Micro	ULN2174				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	AD	AD507				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	Burr-Brown	3508				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		AM462-2				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	Eltantec	EHA2620				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		EHA2625				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
	Harris	CA3100				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
		HA2620				DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
						DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
						DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	
						DPS41288P (3376)				DPS41288P (3376)				DPS41288P (3376)	

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Electronic Designs Inc. (EDI) (Cont'd)				EDI88130C-100				EDI88130C-70				PBD352304			
(Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
EDI8802			(Cont'd)												
	Hitachi	HM6716				EDI88130C			Toshiba	TC551001PL			SGS-Thomson	L202	
		HM6719				EDI88130C-55			UMC	UM621024			TI	SN75477	
	IDT	IDT6116				EDI88130C-70			Cypress	CYM1421			Toshiba	TD62002	
		IDT6116A			Harris	EDI88130C-90				CYM1421HD			TI	SN75466	
		IDT6116L			Hyundai	HM8832			Dense-Pac	DPS128M8			TI	SN75469	
		IDT6116S			Inova	HY63C256				DPS128M8L			TI	SN75467	
	Intel	81C28				S128K8				DPS41288 (3376)			Toshiba	TD62081	
	LogicDev	L76116				S32K8				DPS41288LP (3376)			Toshiba	TD62083	
	Maxim	DG506A			IDT	IDT7M856S				DPS41288P (3376)			Toshiba	TD62082	
	MicronTech	MT51C1608				IDT71024			EDI	EDH8M8128			AD	ADSP1080	
	Motorola	MCM2018A				IDT8M824				EDH8M8128C			LogicDev	LMU08	
		MCM6116			LogicDev	IDT8M824L				EDH8832			TRWLSI	TMC208K	
	Performance	P4C116			Mitsubishi	L7C199				EDH8M8128C			PBL3717	SGS-Thomson	
	Saratoga	SSM6116			Mosaic	M5M51008P				EDI88130C				PBL3717	
	Sony	CKX5814P			Mosel	MSM8128S				EDI88130C-100			Unitrode	UC3717	
	Toshiba	TC2018				MS88128				EDI88130C-55			Maxim	ICL8069	
	UMC	UM6116-35 (3688)			Peps	S128KX8 (3573)				EDI88130C-70			MicroPwr	MP5010	
	Vitelc	V16C16			Samsung	KM681000L				EDI88130C-70			Motorola	LM285	
	VLSI Tech	VT20C19			Sony	CKX581000P			Harris	HM8832			National	LM285	
	Cypress	CY7C182				CKX581001P			Hyundai	HY63C256			Samsung	KA2412A	
		CY7C185			Toshiba	TC551001PL			Inova	S128K8				LS285A	
		CY7C186			UMC	UM621024				S32K8			SGS-Thomson	LS285A	
		CY7C186							IDT	IDT7M856S				LS285A	
	Fujitsu	MB82B79			Cypress	CYM1421				IDT71024			PBL3736	AMD	AM7950
	Harris	HM65642				CYM1421HD				IDT8M824			PBL3770	Cherry Semi	CS3770
	IDT	DPS9264				DPS128M8				IDT8M824L				Unitrode	UC3770
		IDT7164S			Dense-Pac	DPS128M8L			LogicDev	L7C199			PBL3770A	Unitrode	PBL3770A
		IDT7164S				DPS41288 (3376)			Mitsubishi	M5M51008P			PBL3781	Samsung	KA2425B
	MicronTech	MT506408				DPS41288LP (3376)			Mosaic	MSM8128S				SGS-Thomson	
	Mitsubishi	M5M5179				DPS41288P (3376)			Mosel	MS88128				LS356	
	Mosel	MS6264			EDI	EDH8M8128			Peps	S128KX8 (3573)			RL3525A	Exar	XR3525A
	Motorola	MCM6264				EDH8M8128C			Samsung	KM681000L				LinearTech	LT3525
		MCM6265				EDH8M8128C			Sony	CKX581000P				SG3525	
	National	NMC6164				EDH8832				CKX581001P				Motorola	SG3525A
	NEC	μPD4364				EDI88130C			Toshiba	TC551001PL				SGS-Thomson	
	Performance	P4C164				EDI88130C-100			UMC	UM621024				SG3525A	
	SGS-Thomson					EDI88130C-70			Cypress	CY7C198			SiliconG	SG3525A (3642)	
		IMS1630				EDI88130C-90				CY7C199			TeledyneS	TSC35C25A	
		CKX58863				EDI88130C-55			Dense-Pac	DPS92256			TI	SG3525	
	Toshiba	TMM2088P			Harris	HM8832				DPS92256L			Unitrode	UC3525	
	UMC	UM6164			Hyundai	HY63C256			Fujitsu	MB8298				UC3525A	
	Vitelc	V63C64P			Inova	S128K8			Hitachi	HM62832					
	VLSI Tech	VT20C98				S32K8			IDT	IDT71256					
	Cypress	CYM1421			IDT	IDT7M856S			Lattice	SR256K8					
		CYM1421HD				IDT71024			Motorola	MCM6206					
	Dense-Pac	DPS128M8				IDT8M824			NEC	μPD43256A					
		DPS128M8L				IDT8M824L			SGS-Thomson						
		DPS41288 (3376)			LogicDev	L7C199				IMS1830					
		DPS41288LP (3376)			Mitsubishi	M5M51008P				MK48230					
		DPS41288P (3376)			Mosaic	MSM8128S			Sony	CKX58255					
		DPS41288P (3376)			Mosel	MS88128			Toshiba	TC55328					
	EDI	EDH8M8128			Peps	S128KX8 (3573)			VLSI Tech	VT62832					
		EDH8M8128C			Samsung	KM681000L									
		EDH8832			Sony	CKX581000P									
		EDH8M8128C				CKX581001P									
		EDI88130C-100				TC551001PL									
		EDI88130C-55			Toshiba	UM621024									
		EDI88130C-70			UMC										
		EDI88130C-90													
	Harris	HM8832													
	Hyundai	HY63C256													
	Inova	S128K8													
		S32K8													
	IDT	IDT7M856S													
		IDT71024													
		IDT8M824													
		IDT8M824L													
	LogicDev	L7C199													
	Mitsubishi	M5M51008P													
	Mosaic	MSM8128S													
	Mosel	MS88128													
	Peps	S128KX8 (3573)													
	Samsung	KM681000L													
	Sony	CKX581000P													
		CKX581001P													
	Toshiba	TC551001PL													
	UMC	UM621024													
EDI88130C-100															
	Cypress	CYM1421													
		CYM1421HD													
	Dense-Pac	DPS128M8													
		DPS128M8L													
		DPS41288 (3376)													
		DPS41288LP (3376)													
		DPS41288P (3376)													
	EDI	EDH8M8128													
		EDH8M8128C													
		EDH8832													
		EDH8M8128C													
		EDI88130C-100													
		EDI88130C-55													
		EDI88130C-70													
		EDI88130C-90													
	Harris	HM8832													
	Hyundai	HY63C256													
	Inova	S128K8													
		S32K8													
	IDT	IDT7M856S													
		IDT71024													
		IDT8M824													
		IDT8M824L													
	LogicDev	L7C199													
	Mitsubishi	M5M51008P													
	Mosaic	MSM8128S													
	Mosel	MS88128													
	Peps	S128KX8 (3573)													
	Samsung	KM681000L													
	Sony	CKX581000P													
		CKX581001P													
	Toshiba	TC551001PL													
	UMC	UM621024													
EDI88130C-100															
	Cypress	CYM1421													
		CYM1421HD													
	Dense-Pac	DPS128M8													
		DPS128M8L													
		DPS41288 (3376)													
		DPS41288LP (3376)													
		DPS41288P (3376)													
	EDI	EDH8M8128													
		EDH8M8128C													
		EDH8832													
		EDH8M8128C													
		EDI88130C-100													
		EDI88130C-55													
		EDI88130C-70													
		EDI88130C-90													
	Harris	HM8832													
	Hyundai	HY63C256													
	Inova	S128K8													
		S32K8													
	IDT	IDT7M856S													
		IDT71024													
		IDT8M824													
		IDT8M824L													
	LogicDev	L													

◆ Discontinued

The manufacturers report their devices can be used as direct replacements. Performance details often differ, so compare the specifications considering your requirements.

IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Exar (Cont'd)				XR1488 (Cont'd)				XR2011C (Cont'd)				XR2525A (Cont'd)			
XRL567	Sharp	IR3N05	(Cont'd)	XR1488	TI	MC1488	(Cont'd)	XR2011C	SiliconG	SG2011	(Cont'd)	XR2525A	SGS-Thomson	SG2525A	(Cont'd)
	Signetics	NE567		XR1489A	SiliconG	SN75188	(3643)	XR2013C	Allegro	ULN2013	(3642)		SiliconG	SG2525A	(3642)
XRM100	Exar	SE567		XR1524	LinearTech	LT1524			Micro	ULS2013			Sipex-HSD	SP2525	
	MCE	XRA100			National	SG1524		XR2014C	SiliconG	SG2013	(3642)		TeledyneS	TSC25C25A	
		MCEA20				μ A1524			Allegro	ULN2014			TI	SG2525A	
	Plessey	MCEA20A			SGS-Thomson	LM1524			Micro	ULS2014				TL2525	
		MOA				SG1524				SG2014	(3642)	XR2527A	Unitrode	UC2525A	
		MOM			SiliconG	SG1524	(3642)	XR2126	SiliconG	RM5632A			LinearTech	LT2527A	
XRT5600	Harris	CD22301			Unitrode	UC1524	(3642)		EG&G-Reticon	R5632			Motorola	SG2527A	(3642)
XRT5620	STC	TEL5221				UC1524A				XR2127			SiliconG	SG2527A	
XRT5681	Exar	XRT5681		XR1525A	LinearTech	LT1525			Exar	S35212A			TeledyneS	TSC25C27A	
	STC	TEL5220				LT1525A			Gould AMI	HA17815			TI	SG2527A	
	STC	XRT5620			Motorola	SG1525A			Hitachi	MT35212A				UC2527	
	STC	TEL5220			SiliconG	SG1525A	(3642)		Mitel	SC11000			Unitrode	UC2527A	
XRT8205	Cherry Semi	CS8205			TeledyneS	TSC15C25A			Sierra	SC11005		XR2543	SiliconG	SG2543	(3642)
	Samsung	KA2411			TI	TL1525		XR2127	EG&G-Reticon	RM5632A			Unitrode	UC2543	
XR082	Fujitsu	MB40547-7			Unitrode	UC1525				R5632		XR2567	Exar	XRL567	
		MB47082				UC1525A				XR2126				XR567	
	SGS-Thomson	LF353		XR1543	SiliconG	SG1543	(3642)		Exar	XR2126			MCE	MCE567	
		TL082			Unitrode	UC1543			Gould AMI	S35212A			National	LM567	
		HA17082		XR1568	Motorola	MC1568			Hitachi	HA17815			Samsung	LM567C	
		TL082			SiliconG	SG1501A	(3642)		Mitel	MT35212A				LM567L	
XR083	TI	TL083				SG1568	(3642)		Sierra	SC11000				IR3N05	
XR084	National	μ AF774		XR16C450	GoldStar	16C450		XR2128		SC11005			Sharp	NE567	
	SGS-Thomson	TL084			Harris	CP82C50A		XR2201	Sierra	SC11001			Signetics	SE567	
		TL084				82C50A			Allegro	ULN2001		XR2917	Cherry Semi	CS2917	
		MF10-100			National	INS82C50A			Micro	ULQ2001			National	LM2917	
XR1001	TI	MF4				NS16C450				ULS2001		XR3403	AD	OP400	
	National	MF10-50				NS16450			Exar	XR2001			Exar	XR3503	
XR1002	LinearTech	LT1060			Newbridge	CA82C50A	(3569)			XR2001C			Harris	HA5134	
XR1010	Maxim	MF10			Samsung	KS82C50			Motorola	ULN2001			Motorola	LM3403	
	MicroLinear	ML2110				KS82C50			SGS-Thomson	ULN2001				MC33174	
	Sierra	SC11122			SiliconSys	SI73M450	(3647)		SiliconG	SG2001	(3643)		National	μ A324	
XR117	Elantec	ELH0002			UMC	UM8250A	(3690)		TI	ULN2001			Samsung	μ A3403	
	Harris	HA5002			VLSI Tech	VL16C450	(3702)			ULN2001A				LM323	
	MicroLinear	ML117				VL82C50A		XR2202	Allegro	ULN2002			Signetics	MC3403	
	VTC	VM117	(3714)		Western	WD16C450			Micro	ULN2002				LM224	
XR1310	National	LM1310				WD82C50A				ULS2002				LM324	
	TI	SN76115		XR2001	Allegro	ULN2001			Exar	XR2002C			TI	MC3403	
XR13600	National	LM13600			Micro	ULQ2001			Motorola	ULN2002		XR3403M	Raytheon	TLE2024	
XR14412	Motorola	MC14412				ULS2001			SGS-Thomson	ULN2002		XR3464	National	RM3403	
XR1458	AD	OP14 (3245, 3248)			Exar	XR2001C				ULN2002		XR3470	Motorola	NS8464	
		OP215				XR2201			SiliconG	SG2002	(3643)	XR3503	AD	OP400	
		OP270			Motorola	ULN2001			TI	ULN2002			Exar	XR3403	
	Exar	XR4558			SGS-Thomson	ULN2001		XR2203	Allegro	ULN2003			Harris	HA5134	
	Fujitsu	MB3607				ULN2001			Micro	ULS2003			Motorola	LM3403	
	Harris	CA1458			SiliconG	SG2001	(3643)			ULS2003C				MC33174	
		CA1558			TI	ULN2001			Exar	XR2003C			National	μ A324	
	Hitachi	HA17458				ULN2001A			Motorola	ULN2003				μ A3403	
	Motorola	MC4558		XR2001C	Allegro	ULN2001			SiliconG	SG2003	(3643)		Samsung	LM323	
		SE4558			Micro	ULQ2001		XR2204	Allegro	ULN2004			Signetics	MC3403	
	National	μ A1458				ULS2001			Micro	ULS2004				LM224	
		μ A4558				ULS2001				ULS2004				LM324	
		LM1558			Exar	XR2001			Motorola	ULN2004				MC3403	
	Raytheon	RC4558				XR2201			SGS-Thomson	ULN2004			TI	TLE2024	
		RM4558			Motorola	ULN2001				ULN2004		XR3524	Cherry Semi	CS3524	
	Samsung	MC4558			SGS-Thomson	ULN2001			SiliconG	SG2004	(3643)		Harris	CA3524	
	SGS-Thomson	LS4558				ULN2001			TI	ULN2004A			National	LM3524	
		MC4558			SiliconG	SG2001	(3643)	XR2205	Allegro	ULN2005			SGS-Thomson	SG3524	
		MC1458			TI	ULN2001			Micro	ULN2005				SG3524C	
	Signetics	MC1558				ULN2001A			Samsung	KA2659			Signetics	SG3524C	
		NE4558		XR2002	Allegro	ULQ2002			TI	ULN2005			SiliconG	SG3524	(3642)
		SA4558			Micro	ULQ2002		XR2207	Raytheon	RC2207				SG3524B	(3642)
		SE4558		XR2002C	Allegro	ULN2002		XR2211	Raytheon	RC2211			Unitrode	UC3524A	
		MC1458			Micro	ULS2002			Siemens	SDA2211				RL3525A	
	TI	MC1558				ULS2002		XR2240	Harris	ICL8240				UC3525A	
		MC4558C			Exar	XR2202			National	μ A2240		XR3525A	Ericsson	LT3525	
		RC4558			Motorola	ULN2002			TI	μ A2240			LinearTech	SG3525	
		RM4558			SGS-Thomson	ULN2002			Maxim	ICM7242				SG3525A	
		TL4558				SG2002	(3643)	XR2242	National	LM246			Motorola	SG3525A	
		TA7558			SiliconG	ULN2002		XR246	SGS-Thomson	LM246			SGS-Thomson	SG3525A	
	Toshiba	TA7558			TI	ULN2002				LM246				SG3525A	(3642)
XR146	National	LM140		XR2003	Allegro	ULN2023				LT2524			SiliconG	SG3525A	(3642)
XR1468	GoldStar	GD75189			Micro	ULQ2003		XR2524	LinearTech	SG2524			TeledyneS	TSC35C25A	
	Motorola	MC1468				ULS2023				μ A2524			TI	SG3525	
	Raytheon	RC4195				SG2023	(3642)		National	LM2524			Unitrode	UC3525	
XR1488	Motorola	MC1488		XR2003C	SiliconG	ULN2003			SGS-Thomson	SG2524				UC3525A	
	National	μ A1488			Allegro	ULS2003				SG2524C		XR3527A	LinearTech	LT3527	
		μ A212A			Micro	XR2203			Signetics	SG2524	(3642)			SG3527	
		μ A750				ULN2003			SiliconG	SG2524B	(3642)		Motorola	SG3527A	
		DS1488			Exar	ULN2003				SG2524			SGS-Thomson	SG3527A	
		MC1488			Motorola	SG2003	(3643)		TI	UC2524			SiliconG	SG3527A	(3642)
		MC1488		XR2004	SiliconG	ULQ2004			Unitrode	UC2524A			TeledyneS	TSC35C27A	
	Samsung	MC1488			Micro					UC2524A			TI	SG3527	
	SGS-Thomson	MC1488		XR2011C	Allegro	ULN2011		XR2525A	Harris	HA2525			Unitrode	UC3527A	
		MC1488			Micro	ULS2011			LinearTech	LT2525A		XR3543	SiliconG	SG3543	(3642)
	Signetics	SG1488	(3643)			ULS2011			Motorola	SG2525A			Unitrode	UC3543	
	SiliconG		(Continued)				(Continued)				(Continued)				(Continued)

* Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Exar (Cont'd)				XR5532 (Cont'd)				XR8464 (Cont'd)				XLS93C46 (Cont'd)			
XR400	MCE	MCEAD15C			Signetics	NE5532			GoldStar	GM76C88L			EXEL	XL93CS46	(3396)
XR4136M	AD	OP09				NE5532A			Harris	CDM6264				XL93C46	(3396)
		PM4136				SE5532			Hitachi	HM6264			Hyundai	HY93C46	(3475)
	Raytheon	RM4136			TI	SE5532A				HM6464			ICT	93C46	(3505)
XR4151	TI	RM4136				NE5532				MB6264				93C46C	(3505)
XR4194	Raytheon	RC4151		XR5532A	AD	NE5532A			Hyundai	HY6264			Microchip	ER5911	
	TI	XR4151				OP270			IDT	DP59264			National	COP495	
XR4194	MCE	MCE4194			Exar	SSM2139	(3242)		Krueger	6264-100	(3513)			NMC93CS46	
	Raytheon	RC4194			MicroPwr	XR5532				6264-120	(3513)			NMC93C46	
		RM4194			Signetics	MP5532				6264-150	(3513)			NMC9345	
XR4202	Plessey	TAB1042				NE5532				6264LP-100	(3513)			NMC9346	
XR4558	AD	OP14 (3245, 3248)				NE5532A				6264LP-120	(3513)			9346	
		OP215				SE5532				6264LP-150	(3513)		OKI	MSM16811	
		OP270			TI	NE5532					(3513)			MSM16811RS	
	Exar	XR1458				NE5532A					(3513)			MSM16911	
	Fujitsu	MB3607		XR5533	Signetics	NE5533			MicroLinear	ML8464			ROHM	BR93C46	
	Harris	CA1458				NE5533A			Mitsubishi	AM99C88			SGS-Thomson	M9346	
		CA1558			TI	NE5533				M5M5178				ST93CS46	
	Hitachi	HA17458				NE5533				MCM6064				ST93CS47	
	Motorola	MC4558		XR5534	Motorola	MC5534			Motorola	MCM61L64				TS93C46A	
		SE4558			National	LM5534				MCM6164C				SC22011	
	National	μA1458				MC5534				DP8464			Sierra	AT28C04	
		μA4558		XR555	Raytheon	RC5534			National	MSM5164		XL2804	ATMEL	AT2804	
		LM1558			Exar	XR555M			OKI	MSM5165					
	Raytheon	RC4558			GoldStar	GLC555				MSM5188					
		RM4558			Harris	CA0555			S-MOS	SRM2064			Catalyst	28C04	
	Samsung	MC4558				NE555				SRM2264			Rsch	28C04	
	SGS-Thomson	LS4558			Mitsubishi	M5E555			Samsung	KM6264			Microchip	28C04A	
		MC4558				M51841				LM6264A				μPD28C04	
		MC1458				M51848			Sharp	LH5164			NEC	2804	
	Signetics	MC1558				MC1455				LH5165			Xicor	2804A	
		MC1558				μA555			Sony	CXK5164P				X24C04	(3736)
		NE4558				LM555				CXK5863P				X2804	
		SA4558				NE555				CXK5864			XL2816A	ATMEL	
		SE4558				NE555				CXK5865				AT27C16	
	TI	MC1458				NE555				CXK5865P				AT28C16	
		MC1558				SE555								AT28HC16	
		MC4558C				SE555			Toshiba	TC5563					
		RC4558			TI	SE555				TC5565A	(3682)		Catalyst	CAT28C16A	
		RM4558				SE555M				TC5588			Semi	HM6617	
		TL4558				TA75555				UM6264A			Harris	IDT78C16A	
	Toshiba	TA75458		XR555M	Toshiba	TA7555			UMC	V61C62			IDT	28C16A	
		TA75558			Exar	XR555			Vitelic	V62C64			Microchip	NMC2816	
		TC4560B			GoldStar	GLC555				V63C64			National	NMC9816A	
XR4560	Toshiba	μA739			Harris	CA0555			VLSi Tech	VT20C99				NM9816	
XR4739	National	μA749				NE555			XR88C681	Motorola	MC2681			R2816A	
		LM1303			Mitsubishi	M5E555				Signetics	SCN2681			KM2816A	
	SGS-Thomson	TBA231				M51841			EXEL Microelectronics					M2816A	
		OP11				M51848			XLS2864A					2816	
XR4741	AD	OP400				MC1455			AMD	AM2864A				2816A	
		OP470				μA555				AM9864			Xicor	X2816	
		PM148				LM555				AT28C64			XL2817A	ATMEL	
		PM248	(3247)			NE555				AT28HC64				AT28C16	
	Harris	HA4741				NE555				AT28PC64				AT28C17	
	LinearTech	LT1014			Signetics	NE555				AT2864				AT28HC16	
	MicroPwr	MPOP11				NE555							Catalyst	28C17	
	Motorola	LM148			TI	SE555				CAT28C64A			Rsch	CAT28C16A	
		LM248				SE555M				CAT28C65A			Catalyst	CAT28C17A	
		MC33174				TA75555				XL2864A			Semi	28C17A	
		MC4741				TA7555				MBM28C64			Microchip	NMC9817	
	National	μA148				SE558			EXEL	HM58064			National	NM9817	
		LM148				XR558			Fujitsu	HN58C64				MSM2816	
		LM148			XR567	XRL567			Hitachi	HN58C65			OKI	KM2817A	
	Raytheon	LM148				XR2567				HN58C66			Samsung	DQ2817A	
		RC4741				MCE567				HN58C66			SEEQ	2817A	
	SGS-Thomson	LM148				LM567				HN58064					
		LM148				LM567C				IDT	IDT7M7864		XL2864A	AMD	AM2864A
XR4751	AD	OP11				LM567L				IDT78C64A				ATMEL	AM9864
		OP11				IR3N05				I2864A					AT28C64
		PM248	(3247)			NE567				28C64A					AT28HC64
	GoldStar	GL348				SE567				M5M28C64					AT28PC64
	Harris	LM348				CS594C				NMC98C64					AT2864
	Motorola	LM348				DI514B				μPD28C64					CAT28C64A
	National	μA348				DI514BR				MSM28C64					CAT28C65A
		LM348				MSL912				MSM28C64				EXEL	XLS2864A
	Samsung	LM348				NE594				KM28C64				Fujitsu	MBM28C64
	TI	LM348				SA594				KM2864A				Hitachi	HM58064
XR494	Cherry Semi	CS494M				TL594C				QD2864					HN58C64
	Motorola	TL494				TL594M				QD2864H					HN58C65
	Samsung	KA7500				TD62781				QD52B33					HN58C66
	TI	TL494M								28C64					HN58064
XR500	MCE	MCED15B				UDN6128				2864					IDT
XR511	Cherry Semi	CS511				TD62782				2864A					IDT7M7864
		CS511R				ICL8038				2865A					IDT78C64A
	MicroLinear	ML511				Z8038				X28C64	(3744)				I2864A
XR541	SiliconSys	SS132R511	(3645)			Z8038				X28C64M	(3744)				28C64A
XR5532	AD	DAC88				DPS8BH08				X2864A	(3741)				M5M28C64
		OP270				MB8B464				CAT59C11A	(3351)				NMC98C64
		SSM2139	(3242)			MB81C78A				CAT93C46	(3351)				μPD28C64
	Exar	XR5532A				MB8464A				CAT93C46A	(3351)				MSM28C64
	MicroPwr	MP5532													MSM2864
(Continued)				(Continued)				(Continued)				(Continued)			

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
EXEL Microelectronics (Cont'd)				Fujitsu				MBL8288				MBM10480			
XL2864A	Samsung	KM28C64	(Cont'd)	• MBL80C31	Intel	P80C31		• MBL8288	AMD	D8288		MBM10480	Inova	S32K8	
	SEEQ	KM2864A		• MBL80C31	OKI	P80C31BH			Harris	CP82C88		MBM10484	NEC	μPBI0480	
		DQ2864			Signetics	80C31		• MBL8288	Intel	82C88			Fujitsu	MB10484	
		DQ2864H		MBL80C51	Intel	M80C31			Mitsubishi	82C88			National	F10484	
		DQ52B33				SC80C31		• MBL8288	NEC	MSL82885			NEC	μPBI0484	
		28C64			OKI	P80C51BH				μPB8288D		MBM10490	Saratoga	SSM10484	
		2864			Signetics	80C51		• MBL8288	Newbridge	μPD71088			GoldStar	GM82C171	
		2864A				SCC80C51B (3613)			OKI	71088			IDT	IDT10490	
		2865A		• MBL80186	AMD	80186		• MBL8288		CA82C88 (3569)		MBM10490-15	IDT	IDT10490-15	
	Xicor	X28C64 (3744)			Intel	80186		• MBL8288	Samsung	MSM82C88			Saratoga	SSM10490-15	
		X28C64M (3744)			Krueger	80186		• MBL8289	Harris	KS82C88		MBM10494	IDT	IDT10494	
		X2864A (3741)			Siemens	SAB80186			Intel	82C89		MBM2147	AMD	AM2147	
XL2865A	Samsung	KM28C65		• MBL80188	AMD	80188		MBL8392A	National	8289			Cypress	CY2147	
		KM2865AH			Intel	80188			Signetics	DP8392			Intel	M2147H	
XL46C15	Cypress	CY7C291		• MBL8031	Siemens	SAB80188		MBM10C500	NEC	NEB392A (3591)				2147	
	Harris	HM6617		• MBL8031	Intel	AMD8031		MBM100C500	Fujitsu	μPBI00500D			Krueger	2147H	
		IM6716		• MBL8031	Siemens	P8031AH		• MBM100422	Hitachi	MBM100422A				2147-35 (3513)	
	Lansdale	HL76161		• MBL8031	Signetics	SAB8031			National	HM100422				2147-45 (3513)	
	National	DM77S291		• MBL8031	Intel	SAB8031A				DM100422			National	2147-55 (3513)	
		DM77S291A		• MBL8035	Intel	SCN8031A				F100422				2147-70 (3513)	
		932511M			8035	SCN8031AH		• MBM100422	NEC	F100422C				NMC2147	
	Raytheon	29681		• MBL8048	National	8035			Signetics	NMC5295				NMC2147H	
		29681A			Siemens	INS8035		• MBM100422		100422A			SGS-Thomson	NM2147	
		29683			Toshiba	SAB8031A			Vitesse	100422B				ET2147	
		29683A			Intel	TMP8035		• MBM100422A		VS12G422E		• MBM2147H	AMD	AM2147	
	Waferscale	WS57C191		• MBL8049	National	8048			Hitachi	HM100422			Cypress	CY2147	
		WS57C291B			Signetics	INS8048			National	DM100422		• MBM2147H	Fujitsu	CY7C147	
XL61C16	Hyundai	HY6116A		• MBL8051	Intel	SCN8048				F100422			Intel	MBM2147	
	Krueger	2128		• MBL8051	National	TMP8048				F100422C				M2147H	
		6116		• MBL8051	Signetics	8049			NEC	NMC5295				2147	
• XL68C681	Exar	XR88C681 (3393)		• MBL8051	Toshiba	INS8049			Signetics	μPBI00422		• MBM2147H	Krueger	2147H	
	Motorola	MC68681		• MBL8051	Intel	SCN8049				100422A				2147-35 (3513)	
	Signetics	SCN68681		• MBL8051	Siemens	TMP8049				100422B				2147-45 (3513)	
XL93CS46	Catalyst			• MBL8051		P8051			Vitesse	VS12G422E				2147-55 (3513)	
	Semi	CAT59C11A (3351)		• MBL8051	Signetics	P8051AH		MBM100470A	Hitachi	HM100470		• MBM2147H	National	2147-70 (3513)	
		CAT93C46 (3351)		• MBL8088	AMD	SAB8051A			Hyundai	HY53C256				NMC2147	
	EXEL	CAT93C46A (3351)		• MBL8088	EDI	SCN8051AH			Motorola	MCM100470				NMC2147H	
		XL93C46		• MBL8259	Intel	8088			National	DM100470		• MBM2147H	SGS-Thomson	NM2147	
	Hyundai	HY93C46 (3475)		• MBL8259	Intel	EDH8088CL		• MBM100474	NEC	μPBI00470				ET2147	
	ICT	93C46 (3505)		• MBL8259	Krueger	8088 (3493)			Vitelc	V51C257		• MBM2148	AMD	AM2148	
		93C46C (3505)		• MBL8259	Harris	8088 (3513)				V53C256			Cypress	CY2149	
	Microchip	ER5911		• MBL8259	Intel	CP82C59A			Cypress	CY100E474L				CY2148	
	National	COP495		• MBL8259	MicronTech	82C59A			Fujitsu	MBM100474A		• MBM2148	Hitachi	CY7C148	
		NMC93CS46		• MBL8259	Mitsubishi	8259A			Hitachi	HM100474				CY7C149	
		NMC93C46		• MBL8259		MT8259			National	MCM100474		• MBM2148	Intel	HM6148H	
		NMC9345		• MBL8259	National	M5M82C59				DM100474			Krueger	2148H	
		NMC9346		• MBL8259	NEC	M5M8259AP				F100474		• MBM2148		2148-35 (3513)	
	OKI	MSM16811		• MBL8259		INS8259			NEC	μPBI00474A				2148-45 (3513)	
		MSM16811RS		• MBL8259		μPD71059		• MBM100474	Saratoga	SSM100474				2148-70 (3513)	
		MSM16911		• MBL8259		μPD8259A			Cypress	CY100E474L		• MBM2148	National	NMC2148	
	ROHM	BR93C46		• MBL8259	Newbridge	CA82C59A (3569)			Hitachi	HM100474		• MBM2148	Performance	NM2148	
	SGS-Thomson	M9346		• MBL8259	OKI	MSM82C59			Motorola	MCM100474			Saratoga	P4C149	
		ST93CS46		• MBL8259	Samsung	MSM82C59A			National	DM100474			SGS-Thomson	SSM2148	
		ST93CS47		• MBL8282	Toshiba	KS82C59A				F100474		• MBM2149	AMD	ET2148	
		TS93C46A		• MBL8282	UMC	TMP82C59			Saratoga	μPBI00474A			Cypress	AM2149	
XL93C46	Sierra	SC22011		• MBL8282	VLSI Tech	UM8259A			Fujitsu	SSM100474			Intel	CY2149	
	Catalyst	CAT59C11A (3351)		• MBL8282	Harris	VL82C59A			NEC	μPBI00480		• MBM2149		2149HL	
	Semi	CAT93C46 (3351)		• MBL8282	Intel	CP82C52		MBM100480	NEC	SSM100480			Krueger	2149-35 (3513)	
		CAT93C46A (3351)		• MBL8282	NEC	82C82		MBM100484	Saratoga	μPBI00484				2149-45 (3513)	
	EXEL	XL93C46		• MBL8282	OKI	8282				μPBI00484A		• MBM2149	Saratoga	2149-70 (3513)	
		XL93C46 (3396)		• MBL8282	AMD	μPD71082		MBM100490	SMC	HDC9224		MBM27C1000		SSM2149	
	Hyundai	HY93C46 (3475)		• MBL8284	AMD	MSM82C82			IDT	IDT100490-15			Mitsubishi	M5M23C1000	
	ICT	93C46 (3505)		• MBL8284	Harris	D8284A			Saratoga	SSM100490-15			National	NMC27C1023	
		93C46C (3505)		• MBL8284	Intel	CP82C84A		• MBM100494	IDT	IDT100494			OKI	MSM271000	
	Microchip	ER5911		• MBL8284	Mitsubishi	82C84A			Motorola	MCM10146			TI	MSM271024	
	National	COP495		• MBL8284		82C84A			National	DM10415				TMS27C210	
		NMC93CS46		• MBL8284	NEC	8284A			Siemens	GXB10415			Toshiba	TMX27PC010	
		NMC93C46		• MBL8284		M5L8284A		MBM10422A	Hitachi	HM10422			Waferscale	TC571024	
		NMC9345		• MBL8284	Newbridge	M5L8284AP			National	DM10422				WS27C210L	
		NMC9346		• MBL8284	OKI	μPD71084			NEC	μPBI0422		MBM27C1001	AMD	AM27C010	
	OKI	MSM16811		• MBL8284		71084			Hitachi	HM10470			ATMEL	AT27C010	
		MSM16811RS		• MBL8284	Samsung	CA82C84A (3569)			National	DM10470				AT27C1024	
		MSM16911		• MBL8284	Intel	MSM82C84A		MBM10474A	Saratoga	μPBI0470			Catalyst	CAT27C210	
	ROHM	BR93C46		• MBL8286		UC82C84A			Cypress	CY10E47L			Semi	CAT27010	
	SGS-Thomson	M9346		• MBL8286	Harris	KS82C84A			Hitachi	HM10474				HN27C010	
		ST93CS46			Intel	82C86H			National	DM10474			Hitachi	HN27C010G	
		ST93CS47		• MBL8286	National	82C86				F10474				HN27C101	
		TS93C46A			OKI	DP8304			NEC	μPBI0474				HN27C101G	
	Sierra	SC22011				μPD71086			Saratoga	μPBI0474A				HN27C301G	
						MSM82C86				SSM10474					

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
Fujitsu (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)				
MBM27C1001	Intel	27010	(Cont'd)	MBM27C64	ATMEL	AT27C641		MBM2764	ATMEL	AT27C641		MBM8418	Allegro	SCM20C16		
		27210				AT27HC64			Cypress	AT27HC64			Micro	SRM2018		
	Krueger	27C210			Cypress	CY7C266			Fujitsu	MBM27C64		MBM93419	National	F93419		
	Mitsubishi	M5M27C101K			Fujitsu	MBM2764			Microchip	27HC64				93419		
		M5M27C102			Microchip	27HC64			National	NM27C64		MB100149	National	1002416		
		M5M27C102K			National	NM27C64			Samsung	KA2153			Signetics	100149		
	National	NMC27C010			Samsung	KA2153			Sharp	LH5762J				100149A	(3608)	
	NEC	μPD27C1001A			Sharp	LH5762J				LH5763		• MB100470	Fujitsu	MBM100470A		
	S-MOS	SMM63100				LH5763			TI	TMS27C49			Hitachi	HM100470		
	Toshiba	TC571001				LH5764J			Toshiba	TA7644BP			Hyundai	HY53C256		
	Waferscale	WS27C010L			TI	TMS27C49		MBM28C64	Waferscale	WS57C64F			Motorola	MCM100470		
MBM27C1024					Toshiba	TA7644BP			AMD	AM2864A			National	DM100470		
	AMD	AM27C1024		• MBM27128	Waferscale	WS57C49B				AM9864			NEC	μPB100470		
	ATMEL	AT27C1024				WS57C64F			ATMEL	AT28C64		• MB100474	Vitelc	V51C257		
		AT27HC1024			AMD	AM27C128				AT28HC64			Cypress	CY100E474L		
	Catalyst	CAT27C210			ATMEL	AT27C128				AT28PC64			Fujitsu	MBM100474A		
	Semi	DPV27C1024A			Krueger	27128-200 (3513)				AT2864			Hitachi	HM100474		
	Dense-Pac	HN27C1024				27128-250 (3513)			Catalyst	CAT28C64A		• MB100474	National	MCM100474		
	Hitachi	HN27C1024G				27128-300 (3513)			Semi	CAT28C65A				DM100474		
						27128A-450 (3513)				XL2864A		• MB100474	NEC	F100474		
	Krueger	27C210		• MBM27128	National	NMC27128			EXEL	XL2864A				μPB100474A		
	Microchip	27C1024			OKI	MSM27128			Hitachi	HM58064		• MB100474	Saratoga	SSM100474		
	National	μPD27C1024			SGS-Thomson	M27128				HN58C64		MB100480	NEC	μPB100480		
		NMC27C1024				LH57128				HN58C65			Saratoga	SSM100480		
	NEC	μPD27C1024A		• MBM2716	Sharp	LH57128				HN58C66		• MB10470	Fujitsu	MBM10470A		
	OKI	MSM27C1024			Harris	HM6617				HN58064			Hitachi	HM10470		
	SGS-Thomson				Krueger	2716-350 (3513)			IDT	IDT7M7864			National	DM10470		
						2716-450 (3513)				IDT78C64A			NEC	μPB10470		
						2716T-350 (3513)				IDT78C64A		• MB10474	Saratoga	SSM10470		
						2716T-450 (3513)			Intel	I2864A			Cypress	CY10E47L		
MBM27C128	Signetics	27C210		• MBM2716	National	MM2716			Microchip	28C64A			Fujitsu	MBM10474A		
	ATMEL	AT27C128			OKI	MSM2716			Mitsubishi	M5M28C64			Hitachi	HM10474		
	Intel	M27C128			SGS-Thomson	M2716			National	NMC98C64			National	DM10474		
		27C128A				CY7C274			NEC	μPD28C64		• MB10474	NEC	F10474		
	Microchip	27C128		• MBM27256	Cypress	MBM27C256A			OKI	MSM28C64				μPB10474		
	OKI	MSM27C128			Fujitsu	MBM27C256H			Samsung	KM28C64		• MB10474	Saratoga	SSM10474		
	S-MOS	SPM27129C				LH57254J				KM2864A		• MB10474	Fujitsu	MBM10484		
	SGS-Thomson					LH57255J			SEEQ	DQ2864		MB10484	National	F10484		
• MBM27C256	Waferscale	M27128A		• MBM27256	Sharp	LH57256J				DQ2864H			NEC	μPB10484		
	ATMEL	WS27C128L			Intel	M2732				DQ52B33				μPB10484A		
		AT27HC256		• MBM2732		2732				28C64		• MB2716	Saratoga	SSM10484		
		AT27256				2732A				2864			Harris	HM6617		
• MBM27C256	Catalyst	CAT27HC256		• MBM2732	Krueger	2732-250 (3513)				2864A			Krueger	2716-350 (3513)		
	Semi	HN27C256				2732-300 (3513)				2865A				2716-450 (3513)		
	Hitachi	27C256	(3501)			2732-350 (3513)			Xicor	X28C64 (3744)				2716T-350 (3513)		
	Intel	27C256-200	(3513)			2732-450 (3513)				X28C64M (3744)				2716T-450 (3513)		
	Krueger	27C256-250	(3513)			2732A-250 (3513)				X2864A (3741)		• MB2716	National	MM2716		
		27C256-300	(3513)			2732A-300 (3513)			MBM28C65	AM9864			OKI	MSM2716		
		27C256-300	(3513)			2732A-350 (3513)			MBM7144	AM27S49			SGS-Thomson	M2716		
		27C256-300	(3513)			2732A-450 (3513)				27S49				μA741		
• MBM27C256	Microchip	RO9256		• MBM2732	National	MM2732				ATMEL	AT27HC641		MB3603	National	WS57C257	
		27C256				NMC2732				Cypress	AT27HC642			Waferscale	WS57C257	
• MBM27C256	Mitsubishi	M5M27C256		• MBM2732	OKI	MSM2732					CY7C261		MB3607	AD	OP14 (3245, 3248)	
	OKI	MSM27C256			SGS-Thomson	M2732A					CY7C263				OP215	
	Ricoh	RD27C256				TMS2732A				Fujitsu	CY7C264			Exar	OP270	
	SEEQ	27C256				M2732					MB7144				XR1458	
	TI	TMS27C256		• MBM2732A	Intel	2732				Microchip	MB7144E				XR4558	
		TMS27PC256				2732A			ICT	27CX641			Harris	CA1458		
• MBM27C256	Toshiba	TC54256				2732-250 (3513)				27HC641				CA1558		
		TC57256		• MBM2732A	Krueger	2732-300 (3513)				322565			Hitachi	HA17458		
		WS27C256L				2732-350 (3513)			Microchip	932665			Motorola	MC4558		
• MBM27C256	VLSI Tech	VT27C256				2732-450 (3513)			National	932665C				SE4558		
	Waferscale	WS27C256L				2732A-250 (3513)				932667C			National	μA1458		
MBM27C256A						2732A-300 (3513)				μPD27HC65				μA4558		
	Cypress	CY7C274				2732A-350 (3513)				LH5749			Raytheon	LM1558		
	Fujitsu	MBM27C256H				2732A-450 (3513)				LH5749J				RC4558		
	Sharp	LH57254J		• MBM2732A	National	MM2732				N82HS641			Samsung	RM4558		
		LH57255J				NMC2732				27HC641			SGS-Thomson	MC4558		
		LH57256J		• MBM2732A	OKI	TMS2732A				27HC642				LS4558		
MBM27C256H					SGS-Thomson	M2732A				82HS641				MC4558		
	Cypress	CY7C274				27512			SiliconSys	SS1203			Signetics	MC1458		
	Fujitsu	MBM27C256A		• MBM27512	Catalyst	HN27512			TI	TMS278C49				MC1558		
	Sharp	LH57254J			Rsch	N27512			Waferscale	WS57C49				NE4558		
		LH57255J			Hitachi	HN27512				WS57C49B				SA4558		
		LH57256J			Intel	N27512		• MBM8114	AMD	AM9114				SE4558		
MBM27C512	Hitachi	HN27C512G				P27512			Intel	2114A			TI	MC1458		
	IDT	IDT7M856S				27512			Krueger	2114-150 (3513)				MC1558		
		IDT8M824				27512-200 (3513)				2114-200 (3513)				MC4558C		
	Krueger	27C512-200	(3513)			27512-250 (3513)				2114-450 (3513)				RC4558		
		27C512-250	(3513)	• MBM27512	Mitsubishi	M27512		• MBM8114		M5L2114				RM4558		
		27C512-250	(3513)		OKI	MSM27512			Mitsubishi	M5L2114				TL4558		
						M27512			Motorola	F2114				TA75458		
				• MBM27512	SGS-Thomson	M27512			National	NMC2114A				TA75558		
						TMS27C512		• MBM8114	OKI	MSM2114				μPC151		
									Rockwell	R6514				TA7504		
				• MBM27512-412	TI	TMS27C512			Sharp	LH2114				PIC7504		
					Intel	27512-30			Toshiba	TMM2114A				LM324		
					Mitsubishi	M27512-30			UMC	UM6114				CA0224		

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Fujitsu (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
MB3614	Harris	CA0324 LM324	(Cont'd)	MB47082	SGS-Thomson	LF353 TL082		MB61461	Hyundai IDT Krueger	HY53C464 DPS9264 4464-100 4464-120 4464-150	(3513) (3513) (3513)	MB7138E	Waferscale	WS57C191 WS57C291B	
	Hitachi	HA17324			TI	HA17082 TL082						MB7138H	AMD	AM27S191 AM27S291 AM27S291A	
	Motorola	LM324		MB47201	AD	ADG201 SW201			MicronTech Mitsubishi	MT4067 MCM41464 MSM4464P M5M4C264 M5M4464		MB7138H	Cypress	CY7C291	
	National	LM224 LM324			Harris	DG201 DG201A							Fujitsu	MB7138	
	Raytheon	LM324				HI201							Motorola	MCM76	
	Samsung	LM324			Lin Int Sys	LS201				Motorola	MCM41464	MB7138H	Raytheon	DM878291	
	SGS-Thomson	LM324			Maxim	DG201A MAX331			NEC	μPD41264 μPD41464			TI	932511	
	TI	LM324			MicroPwr	MP201			OKI	MSM41464		MB7138H	Waferscale	29683A	
MB3615	AD	OP420 OP421			National	LF11201 LF13201			Samsung	μPD41464 KM41464				TBP38A166	
	Harris	HA5144 HA5154			Siliconix	DG201A				MSM41464A			Waferscale	TBP38S166	
	SGS-Thomson	TL064			TeledyneS	TSC4201 TSC4202		MB7111	Vitellic	V53C464		MB7142	AMD	WS57C191 WS57C291B	
	TI	TL044		MB47358	AD	OP220		MB7112	National	DM74S188				AM27S43	
	TI	TL064			Harris	CA358A CA5260AX			AMD	AM27LS19 AM27S19 27S19				27S43	
MB3752	Fujitsu	MB723				HA5142			Lansdale	HL7603			ICT	27CX321	
	Harris	CA723			Motorola	MC3358			National	DM74S288			Lansdale	HL76321	
		LM723			SGS-Thomson					DM8578			National	DM77S321	
MB3759	GoldStar	GL494			Signetics	TS272			Signetics	N82S123			Raytheon	R29671D	
	National	μA494			TI	NE532		MB7113		N82US123		MB7143	Signetics	29671A	
	TI	TL494				TLC252		MB7114	National	82S123			Waferscale	N82H321	
	Toshiba	TA76494				TLC272			AMD	DM74S387 AM27S21 27S21		MB7143	AMD	WS57C43B	
	Unitrode	UC494A			MB47393	LM393				DM74S287			ATMEL	AT27HC641	
MB3769A	Unitrode	UC384			NEC	μPC277			Signetics	N82S129A		MB7143	Cypress	CY7C261	
MB38200	Toshiba	TC538200			Toshiba	TA75393				S82S129				CY7C263	
MB4001	Motorola	MC710C			National	LM833				S82S5129		MB7143	Fujitsu	CY7C264	
	National	μA710			MB47833	ADG509A	(3237)	MB7115	National	DM74S570				MBM7144	
		LM710		MB5208	AD	MUX24			Signetics	N82S130		MB7143		MB7144E	
		KA710C			Burr-Brown	HI509A				S82S130			ICT	27CX641	
MB4053	Motorola	MC14447			Harris	DG509A		MB7118	Signetics	N82LS135			Microchip	27HC641	
MB40547-7	Exar	XR082				HI509A			TI	28L22			National	32Z565	
	Fujitsu	MB47082				IH5208		MB7121	TI	SN54251				93Z665	
	SGS-Thomson	LF353				IH6208		MB7122	AMD	AM27S33				93Z665C	
		TL082				DG509A			Lansdale	HL7643		MB7143	NEC	93Z667	
	TI	HA17082				HI509A			National	DM74S573			Sharp	93Z667C	
MB40576	Sony	CXD1172P				IH6208		MB7123	National	DM54S473		MB7143	Signetics	μPD27HC65	
	TI	TL5501			Siliconix	MAX359		MB7124	AMD	AM27S29				LH5749J	
	Toshiba	TD6712			Adv Analog	DG509A			National	DM74S472		MB7143		LH5749J	
MB40578	Allegro	ULN2022			AD	AD5210	(3228)		Raytheon	29623			Signetics	N82HS641	
	Micro	ULS2022			MicroNet	MS5210	(3547)		Signetics	N82S147 N82S147A				27HC641	
	SiliconG	SG2002	(3643)	MB6021	Sipex-HSD	HS5210				S82S147		MB7143		27HC642	
		SG2022	(3642)	MB6022	Hitachi	HD44234		MB7128	AMD	S82S147			SiliconSys	82HS641	
				MB6025	Hitachi	HD44233				AM27S185			TI	SS1203	
MB4063	Harris	CD4063B			Hitachi	HD44232			Hitachi	27S185			Waferscale	TMS278C49	
	Motorola	MC14443			Hitachi	HD44231			Lansdale	HN25085				WS57C49	
	National	μA9708		MB6026	Hitachi	CA3054			National	HL7685		MB7144	AMD	WS57C49B	
	SGS-Thomson	HCC4063		MB6041	Harris	CD22354			Raytheon	DM87S185				AM27S49	
		HCF4063				CD22354A				29651			ATMEL	27S49	
		TC4063B			Intel	2916			Signetics	29651A				AT27HC641	
MB4072	Toshiba	DAC08			Motorola	CA3054				N82S185			Cypress	AT27HC642	
	AD	CD4072B			National	TP3054		MB7131	TI	S82S185				CY7C261	
	Harris	MC14072			Samsung	KT8554			National	24S81-55				CY7C263	
	Motorola	CD4072			SGS-Thomson	ETC5054				DM87S180			Fujitsu	CY7C264	
	National	F4072				CD22357		MB7132	Mosel	DM87S229				MBM7144	
	SGS-Thomson	HCC4072		MB6042	Harris	CD22357A			Vitellic	MS6132		MB7137	ICT	MB7144E	
		HCF4072				2917			Harris	V61C32			Microchip	27CX641	
	Signetics	HEF4072			Intel	μA3057			Maxim	ICL7137		MB7138	National	32Z565	
	Toshiba	TC4072B			National	TP3057			AMD	ICL7137				93Z665	
	TI	TL5601			Samsung	KT8557				AM27S191				93Z665C	
MB40776		TL5602			SGS-Thomson	ETC5057				AM27S291				93Z667	
MB40778	TI	TL5632				SC11302				AM27S291A				93Z667C	
MB40978	TI	SSI32R104				SC11302				AM27S291SA			NEC	μPD27HC65	
MB4111	SiliconSys	CS117		MB6045	Sierra	2913			Cypress	CY7C291			Sharp	LH5749J	
MB4117-4	Cherry Semi	MB4117-6			Motorola	MC14400-5			Motorola	MCM76				LH5749J	
	Fujitsu	ML117			National	TP3064			National	DM878291			Signetics	27HC641	
	MicroLinear	SSI117			Samsung	KT8564			Raytheon	932511				27HC642	
	National	SSI117			SGS-Thomson	ETC5064			TI	29683A				82HS641	
	SiliconSys	SSI32R117	(3645)			SC11311				TBP38A166			SiliconSys	SS1203	
	Cherry Semi	CS117		MB6046	Sierra	SC11311			Waferscale	TBP38S166			TI	SS1203	
	Fujitsu	MB4117-4			National	TP3067		MB7138E	AMD	WS57C191 WS57C291B			Waferscale	TMS278C49	
	MicroLinear	ML117			Samsung	KT8567				AM27S191				WS57C49	
	National	SSI117			SGS-Thomson	ETC5067				AM27S291		MB7144E	AMD	WS57C49B	
	SiliconSys	SSI32R117	(3645)			SC11312				AM27S291A				AM27S49	
MB4118-4	Fujitsu	MB4118-6				SC11312				AM27S291SA			ATMEL	27S49	
MB4118-6	Fujitsu	MB4118-4		MB6051A	Hitachi	HD44238		MB7138E	Cypress	CY7C291				AT27HC641	
MB4204	AD	CMP04			NEC	μPD9602AD			Fujitsu	MB7138			Cypress	AT27HC642	
		PMI139		MB6052A	Hitachi	HD44237C			Motorola	MCM76				CY7C263	
	Harris	CA339			Hitachi	HD44236C			National	DM878291				CY7C264	
	NEC	μPC339		MB6056A	Hitachi	HD44235C				932511			Fujitsu	MBM7144	
	Exar	XR082		MB61461	Fujitsu	MB81464		MB7138E	Raytheon	29683A				MB7144	
	Fujitsu	MB40547-7			Hitachi	HM50464 HM53461			TI	TBP38A166 TBP38S166			ICT	27CX641	
			(Continued)				(Continued)				(Continued)		Microchip	27HC641	(Continued)

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Fujitsu (Cont'd)				MB8B464 (Cont'd)				MB81C4251 (Cont'd)				MB81C68 (Cont'd)			
MB7144E	National	322565 932665 932665C 932667 932667C μPD27HC65 LH5749 LH5749J N82HS641 27HC641 27HC642 82HS641 SS1203 TMS278C49 WS57C49 WS57C49B AM27S49 27S49	(Cont'd)		MicroLinear Mitsubishi Motorola National OKI S-MOS Samsung Sharp Sony	ML8464 AM99C88 M5M5178 MCM6064 MCM61L64 MCM6164C DP8464 MSM5164 MSM5165 MSM5188 SRM2064 SRM2264 KM6264 KM6264A LH5164 LH5165 CXK5164P CXK5863P CXK5864 CXK5865 CXK5865P	(Cont'd)		Mitsubishi NEC OKI Samsung TI Toshiba Hitachi Fujitsu Hitachi	M5M442256 μPD42273 μPD42274 MSM514251 MSM514252 MSM5					

• Discontinued

The manufacturers report their devices can be used as direct replacements.
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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Fujitsu (Cont'd)				MB81C81A	Cypress	CY7C197		MB811000	OKI	MSM41000		MB81257	National	MSM41257A	
• MB81C78	Krueger	(Cont'd)		Dense-Pac	DPS92256			Samsung	MSM41000			OKI	MSM41257A		
		6264LP-100	(3513)	Fujitsu	MB82B81			SGS-Thomson	KM41256A			Samsung	KM41257		
		6264LP-120	(3513)	Hitachi	HM6207				MKB45F56			Toshiba	TMS4257		
		6264LP-150	(3513)	IDT	HM6707			Siemens	HYB511000			Vitellic	V51C257		
• MB81C78	MicroLinear	ML8464		LogicDev	MT5C2561			TI	TMS4C1024			• MB8128	Allegro	UDN6116	
• MB81C78	Mitsubishi	AM99C88		Mitsubishi	M5M5257				TM4256FC1			Micro	HM6116		
• MB81C78	Motorola	MCM6064		Motorola	MCM6207				TM5256			Hitachi	M5M5517		
		MCM61164		NEC	μPD46251				TC511000C			Mitsubishi	MMC2116		
• MB81C78	National	DP8464		Performance	P4C1257			• MB811001	Dense-Pac	DPD411M		OKI	MSM2128		
	OKI	MSM5164		Samsung	KM61257			Fujitsu	MB81C1000				MSM5126		
		MSM5165		SGS-Thomson					TH22568				MSM5128		
• MB81C78	S-MOS	SRM2064		Sharp	IMS1800			• MB811001	GoldStar	GM71C1000		• MB8128	S-MOS	SMC6116	
• MB81C78	Samsung	SRM2264		Hitachi	LH52251			Hitachi	HB561003				SRM2016C		
• MB81C78	Sharp	KM6264		MB81C8128	HM658128				HM511000			• MB8128	SGS-Thomson	ET2128	
• MB81C78	Sharp	KM6264A			658128				HM51102					MK2817	
• MB81C78	Sony	LH5164		Krueger	658128	(3513)		• MB811001	Hyundai	HY51C1000		• MB8128	Sharp	MK6116	
• MB81C78	Sony	CXK5164P		NEC	μPD48128				HY51C1002					LH5115	
		CXK5863P		Toshiba	TC518128			• MB811001	MicronTech	MT4C1024		• MB8128	Signetics	NE5517	
		CXK5864		IDT	IDT71258L			Mitsubishi	MH25608				Sony	CXK5816	
• MB81C78	Toshiba	TC5565A	(3682)	LogicDev	IDT71258S				MH25609				UMC	UM6116	
• MB81C78	UMC	TC5588		OKI	L7C194				MSM4C1000				Vitellic	V61C16	
• MB81C78	Vitellic	UM6264A		Performance	MSM52464			• MB811001	Motorola	MSM41000S		MB814100	Dense-Pac	DPD4MM1	
		V61C62		S-MOS	P4C1258			NEC	MSM41000A				Hitachi	HM514100	
		V62C64		Samsung	SRM21256				μPD421000				MicronTech	MT4C1004	
• MB81C78	VLSI Tech	VT20C99		Sharp	KM64257				MC421000				Mitsubishi	M5M441000	
MB81C78A	Dense-Pac	DPS88H08		• MB81C86	Cypress	LH52252		• MB811001	OKI	MSM41000			Mosaic	MDM14000	
	Exar	XR8464		IDT	CY7C196			Samsung	KM41C1000			Motorola	MCM514100		
	Fujitsu	MB8B464		LogicDev	IDT61298				KM41256A			NEC	μPD424100		
		MB8464A			L7C195			• MB811001	SGS-Thomson	MKB45F56			OKI	MSM514100	
	GoldStar	GM76C88L		• MB81C86	MicronTech	MT5C2565			Siemens	HYB511000			Panasonic	MN41C4000	
	Harris	CDM6264		Toshiba	TC55465				TMS4C1024			Samsung	KM41C4000		
	Hitachi	HM6264		Hitachi	MB81C71A			• MB811001	Toshiba	TC511000		MB814101	Toshiba	TC51401	
		HM6464		LogicDev	HM6287				TC511000C			• MB81416	Mitsubishi	M5M4416	
	Hyundai	HS9264		Mitsubishi	HM6787			• MB8114	Cypress	CY7C148		MB814400	Hitachi	HM514400	
	IDT	DPS9264		• MB81C87	OKI	MSM5187AP			Harris	HA5114			MicronTech	MT4C4001	
	Krueger	6264-100	(3513)	• MB81C87	S-MOS	MSM5187P		• MB8114	Intel	5114			Mitsubishi	MSM44400	
		6264-120	(3513)	SGS-Thomson	SRM2261				Mitsubishi	M58981			Mosaic	MDM41000	
		6264-150	(3513)		SSM7187			• MB8114	OKI	MSM5114			Motorola	MCM514400	
		6264LP-100	(3513)	Sharp	MK41H87				S-MOS	SRM2114C			NEC	μPD24400	
		6264LP-120	(3513)	Signetics	LH5261				Sanyo	LC5314			OKI	MSM514400	
		6264LP-150	(3513)	AMD	74HC4515			• MB8116	Signetics	5114			Panasonic	MN41C41000	
				Cypress	PLDC20G10				Krueger	4116-120	(3513)		Samsung	KM44C1000	
				Gould AMI	PEEL20CG10	(3442)				4116-150	(3513)		Siemens	HYB514400	
				Hitachi	HM7688HP			• MB8116	National	4116-200	(3513)	MB81461	TI	TMS44400	
				ICT	PEEL20CG10					F16K			Toshiba	TC514400	
				Lattice	GAL20V8A			• MB8116	OKI	F4116			Hitachi	HM53462	
				LogicDev	L7C164				Siemens	MM5290		MB81464	MicronTech	MT42C4064	
				Mitsubishi	M5M5188AP				Signetics	MM53716			Mitsubishi	MB81461	
				National	F100165				Fujitsu	MBM100422A			Vitellic	V53C261	
				NEC	μPD4362C			• MB8118	Hitachi	HM100422			Fujitsu	MB61461	
				OKI	MSM5188A				National	DM100422			Hitachi	HM50464	
				Samsung	CPL20L8					F100422				HM53461	
				Sharp	CPL20L8-35					F100422C			Hyundai	HY53C464	
				Sony	LH5262					NMC5295			IDT	DPS9264	
				TI	CXK5464AP			• MB8118	NEC	μPB100422			Krueger	4464-100	(3513)
					TIBPAL20L8				Signetics	100422A				4464-120	(3513)
					TIBPAL20L8-20					100422B				4464-150	(3513)
				VLSI Tech	VT64K54			• MB8118	Vitesse	VS12G422E				MT4067	
• MB811000	Dense-Pac	DPD411M		• MB811000	GoldStar	GM71C1000		• MB8118	Hitachi	HM50256			MicronTech	MCM41464	
	Fujitsu	MB81C1000		Hitachi	HB561003				Hyundai	HY51C256			NEC	μPD41264	
• MB811000	GoldStar	TH22568			HM511000					HY53C256				μPD41464	
	Hitachi	HM511001			HM51101					MSM4257			OKI	MSM41464	
		HM51102			HM51103					MSM4256			Samsung	KM41464A	
		HM561003			HY51C1000					MT1259		• MB8167	Vitellic	V53C464	
• MB811000	Hyundai	HY51C1000			HY51C1002					μPD41256			AMD	AM2167	
• MB811000	MicronTech	MT4C1024			MT4C1024					MSM37256			Cypress	CY7C167A	
	Mitsubishi	MH25608			MH25609					MSM37257A			Harris	HM65262	
		M5M4C1000			M5M4C1000S					MSM41256			Hitachi	HM6267	
		M5M41000S			M5M410000					KM41256A			IDT	IDT6167	
• MB811000	Motorola	MCM511000A			μPD421000					V51C257		• MB8167	LogicDev	L7C167	
	NEC	μPD421000			MC421000					V53C256			MicronTech	MT5C1601	
										WCM41256			Mitsubishi	M5M21C67	
										HM50257			Motorola	MCM2167	
										MSM4257			NEC	μPD4311	
										MSM4257A			S-MOS	SRM2267	
														SRM2367	

• Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Fujitsu (Cont'd)				MB82B75 (Cont'd)				MB8264A				MB834200 (Cont'd)			
• MB8167	Saratoga	SSM6167		Motorola	MCM6290			• MB8264A	Cypress	CY7C167A		MB834200	UMC	UM23C4000	
	SGS-Thomson			National	54LS152				Intel	51C67		MB8401	Harris	HM6508	
		IMS1403		NEC	μPD4363				LogicDev	L7C167				IM6508-1	
		MK41H66		Performance	P4C190				MicronTech	MT5C1601			National	MM74C929	
		MK41H67		S-MOS	SRM2275				SGS-Thomson					6508	
• MB8167	Sharp	LH5167		Saratoga	SSM7166							• MB8404	Cypress	CY7C147	
• MB8167A	AMD	AM2167		SGS-Thomson				• MB8265	Sharp	MK41H66			Harris	HM6504	
	Cypress	CY7C167A							Vitellic	LH5167			Hitachi	HM4315	
	Harris	HM65262						• MB8265	Intel	V61C67			Intel	5104	
	Hitachi	HM6267		Sony	CKX5465P				Krueger	DPS9264		• MB8404	Mitsubishi	M58981	
	IDT	IDT6167		Toshiba	TC55417					IDT7164L			National	NMC6504	
	Intel	51C66		Vitellic	V61C62					M2164A			OKI	MSM5104	
• MB8167A	LogicDev	51C67		VLSI Tech	VT65KS4			• MB8265	National	F4164		MB841000	Rockwell	R6504	
	MicronTech	L7C167		Cypress	CY7B185					F64K			Hitachi	HM628128	
	Mitsubishi	MT5C1601		Toshiba	TC55B88			• MB8265	OKI	NMC4164			Mitsubishi	M5M510008	
	Motorola	M5M21C67		Cypress	CY7C182				Panasonic	MSM3764			NEC	M5M51008	
	NEC	μPD4311			CY7C185			• MB8265		MN4164				μPD431000	
	S-MOS	SRM2267		EDI	ED18808					MM4864				μPD431000A	
	SGS-Thomson	SRM2367		Harris	HM65642			• MB8265	Samsung	KM4164A			Samsung	KM681000	
				IDT	DPS9264					KM4164B			Sony	CKX581000	
• MB8167A	Saratoga	SSM6167			IDT7164			• MB8265	Siemens	HYB4164				CKX581001	
	SGS-Thomson				IDT7164S				TI	SM4164			TI	TM562828	
		IMS1403			MT5C6408			• MB8265A	IDT	DPS9264			Toshiba	TC551001	
		MK41H66			M5M5179					IDT7164L		• MB8411	Harris	HM6561	
		MK41H67			Mosel	M6264		• MB8265A	Intel	M2164A		• MB8414	Cypress	CY7C148	
• MB8167A	Sharp	LH5167			Motorola	MCM6264			Krueger	4164-120	(3513)		Harris	HA5114	
• MB8168	Mitsubishi	M5M21C68				MCM6265				4164-150	(3513)			HA5114	
	Motorola	MCM1423				MCM6265				4164-200	(3513)			HM6514	
		MCM61L164		National	NMC6164			• MB8265A	National	F4164		• MB8414	Intel	5114	
• MB8168	NEC	μPD4134		NEC	μPD4364					F64K			Mitsubishi	M58981	
	S-MOS	SRM2268		Performance	P4C164			• MB8265A		NMC4164			OKI	MSM5114	
	VLSI Tech	CT64KS4		SGS-Thomson						MSM3764			S-MOS	SRM2114C	
		VT2068						• MB8265A	OKI	MSM3764				LC3514	
• MB8171	Hitachi	HM6287							Panasonic	MN4164			Signetics	5114	
	SGS-Thomson							• MB8265A	Samsung	KM4164A		• MB84256	Catalyst	Semi	
		MK41H87								KM4164B				CAT71C256	
		VT64KD1						• MB8265A	Siemens	HYB4164				CAT71C256L	
MB8184	VLSI Tech	CY7C194							TI	SM4164		• MB84256	Cypress	CY7C197	
	Cypress	EDI8465C						• MB8266A	Lansdale	ML8266			Dense-Pac	DPS92256	
	Fujitsu	MB82B84								SL8266				DPS92256L	
	Hitachi	HM6208						• MB8266A	Signetics	S8266		• MB84256	GoldStar	GM76C256	
		HM6708						MB8298	Cypress	CY7C198			Hitachi	HM61256	
	IDT	IDT71258								CY7C199				HM62256	
	MicronTech	MT5C2564								DPS92256		• MB84256	Hyundai	HY62C256	
	Mitsubishi	M5M5258								DPS92256L				HY63C256	
	Motorola	MCM6208								EDI8833C				HY63C256L	
	NEC	μPD43254								Hitachi	HM62832		• MB84256	Inova	S32K8
	SGS-Thomson									IDT	IDT71256			IDT7M856S	
		IMS1820								Lattice	SR256K8			IDT71256L	
		CKX54256								Motorola	MCM6206			IDT71256S	
		TMS6708								NEC	μPD43256A			IDT8M824	
		TC55464								SGS-Thomson		• MB84256	LogicDev	L7C199	
		VT6208								IMS1830				MT5C2568	
MB82B001	Intel	MT5C1001								MK48Z30				M5M5256	
	Mitsubishi	M5M51001								CKX58255				MS62256	
	NEC	μPD431001								TC55328				MCM60256A	
MB82B005	Samsung	KM611001						MB8299		VLSI Tech	VT62832			National	NM44251
	Hitachi	HM624256								IDT	IDT71259			NEC	μPD43256B
	Intel	MT5C1005								Toshiba	TC55329			OKI	MSM51257JS
	MicronTech	MT5C1005								Fujitsu	MB831124				MSM51257RS
	Mitsubishi	M5M51004								Hitachi	HM62301		• MB84256	Performance	P4C1256
	NEC	μPD431004								NCR	NCR23C1000			S-MOS	SRM20256C
	Samsung	KM641001								Toshiba	TC571000			SRM2257	
	TI	TMS62456								Fujitsu	MB831000		• MB84256	Samsung	KM62256
MB82B006	Hitachi	HM624257								Hitachi	HM62301			Sharp	LH52256
	TI	TMS62457								NCR	NCR23C1000		• MB84256		LH52259
MB82B74	Cypress	CY7B164								Toshiba	TC571000			SONY	CKX58256
	Fujitsu	MB81C74								Toshiba	TC5316200		• MB84256	Toshiba	TC55257
	Hitachi	HM6288								Catalyst					TC55257A
		HM6788								Semi	CAT71C256		• MB84256		UM62256A
	IDT	DPS9264								Gould AMI	S23256			Dense-Pac	DPS92256L
		IDT7188								NCR	NCR23257		• MB84256		HM62256L
		M5M5188									NCR23257				M5M5256-L
	Motorola	MCM6188									MSM38256		• MB84256	Hitachi	MCM60L256A
		MCM6288									MN23257			NEC	μPD43256-L
	NEC	μPD4362									SMM23256		• MB84256A		μPD43256-L
	Performance	P4C188									SMM6326				TC55257AL
	Saratoga	SSM7188									23256				TC55257AL
	SGS-Thomson										23256A				TC55257AL
		IMS1620									TC53257		• MB8464	IDT	IDT71C65
		TC55416									VT23256			Mitsubishi	M5M5164
MB82B75	VLSI Tech	VT6288									VT23257			NEC	μPD4464
	Cypress	CY7B166									HN62404		MB8464A	Dense-Pac	DPS88H08
		CY7C166									M5M23C400			Exar	XR8464
	Hitachi	HM6789P									μPD23C4000			Fujitsu	MB88464
	IDT	IDT6198									LH534000				MB81C78A
	LogicDev	L7C164									TC534000 (3678)				
		L7C165									TC534000P (3678)				
		L7C166									TC534200				
		M5M5189													
		M5M5189AP													
			(Continued)								(Continued)				

• Discontinued

The manufacturers report their devices can be used as direct replacements.
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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Fujitsu (Cont'd)				MB85204	Dense-Pac	DPD44256		MB85235		(Cont'd)		MLB8031AH	Signetics	SCN8031	
MB8464A		(Cont'd)			Peps	PEP4256EC4			Toshiba	THM91000		MLB8051AH	Intel	SCN8031AH	
	GoldStar	GM76C88L		MB85211	Dense-Pac	TM4256EC4		MB85236	MicronTech	THM91000A		MLB8051AH	Siemens	P8051	
	Harris	CDM6264			TI	DPD5124			Mitsubishi	MT8C9025M				P8051AH	
	Hitachi	HM6264		MB85214	Dense-Pac	TM4256H4			NEC	MH1M09B1J				SAB8051	
		HM6464			Fujitsu	DPD411M		MB85237	TI	MC421000B9		MLB8051AH	Signetics	SAB8051A	
		MB6264				MB81C1000			TI	TM0256AD9				SCN8051	
	Hyundai	HY6264		MB85214	GoldStar	TH22568		MB85260	NEC	MC421000C9		P51C68	Hitachi	SCN8051AH	
	IDT	DP59264			Hitachi	GM71C1000			Hitachi	HB56A18AT			Intel	P51C68	
	Krueger	6264-100 (3513)				HB561003			MicronTech	MT8C024DMN		P51C69	Commodore	MP52332	
		6264-120 (3513)				HM511001			Peps	1MX8LP			Hitachi	P51C69	
		6264-150 (3513)				HM511002			Samsung	KMM594000			Intel	UM2168	
		6264LP-100 (3513)		MB85214	Hyundai	HM561003		MB85265	Toshiba	THM81020A				51C69	
		6264LP-120 (3513)				HY51C1000			Hitachi	THM81020AL				RO9432	
		6264LP-150 (3513)		MB85214		HY51C1002			MicronTech	HB56A19AT				M58333	
					Mitsubishi	MT4C1024			Peps	PEP1MX9LP				F3532	
						MH25608				4MX9LP				NM52132	
	MicroLinear	ML8464				MH25609		MB85280	Toshiba	THM91020A				NCR	NCR2332
	Mitsubishi	AM99C88				M5M4C1000			Hitachi	THM91020AL				Panasonic	NC2332
		AM59178				M5M41000S			OKI	HB56A48B				Sharp	LH2332
	Motorola	MCM6064		MB85214	Motorola	M5M410000		MB85285	Samsung	MSC2341AYS8				Siemens	SAB8332
		MCM61L64			NEC	MCM511000A			Hitachi	KMM584000A					SAB8332
		MCM6164C				μPD421000		MB85287	OKI	HB56A49A				Signetics	2332
	National	DP8464				MC421000			Hitachi	MSC2340YSA					2632A
	OKI	MSM5164		MB85214	OKI	MSM41000			OKI	HB56A48A				TI	D51C69
		MSM5165			Samsung	KM41C1000		MB85290	Samsung	MSC2341YS8					P51C69
		MSM5188		MB85214	SGS-Thomson	KM41256A		MB85336	Peps	4MX8LP				VLSI Tech	VT2332
	S-MOS	SRM2064				MKB45F56			Hitachi	HB56D25636B		TH22568	Dense-Pac	DPD411M	
		SRM2264			Siemens	HYB511000			IBM	6450603			Fujitsu	MT8C1000	
	Samsung	KM6264			TI	TMS4C1024			MicronTech	MT8C36256M			GoldStar	GM71C1000	
		KM6264A				TM4256FC1				MT8C36256MN			Hitachi	HB561003	
	Sharp	LH5164		MB85214	Toshiba	TM5256			Mitsubishi	MH25636AJ				HM511000	
		LH5165				TC511000C			NEC	MC424256A36B				HM51101	
	Sony	CKX5164P				TC511001C			OKI	MCC2320AYS9				HM51102	
		CKX5863P		MB85225	NEC	MC41256A8			Peps	MH25636A				HM561003	
		CKX5864			Peps	PEP4256EL8			Samsung	KMM536256B			Hyundai	HY51C1000	
		CKX5865				DPD42569		MB85337	TI	TM256K8C36				HY51C1002	
		CKX5865P		MB85227	Dense-Pac	MT9259			Toshiba	THM362500AS			MicronTech	MT4C1024	
	Toshiba	TC5563			MicronTech	MH25609A			Hitachi	HB56D51236B			Mitsubishi	MH25608	
		TC5565A (3682)			Mitsubishi	MH25609J			IBM	6450604				MH25609	
	UMC	TC5588		MB85227	NEC	MC41256A9			MicronTech	MT8C36512				M5M4C1000	
	Vitellic	UM6264A			OKI	MSC2304KS9				MT8C36512DM				M5M41000S	
		V61C62		MB85227	Peps	MSC2304YS9			Mitsubishi	MH51236AJ			Motorola	MCM511000A	
		V62C64			Samsung	PEP4256EL9			NEC	MC424512A36B			NEC	μPD421000	
		V63C64				KMM49256			OKI	MSC2321AYS18				MC421000	
	VLSI Tech	VT200C99		MB85227		KMM59256			Peps	MH51236A			OKI	MSM41000	
MB8464A-L	Hitachi	HM6264L		MB85227	TI	TMM4256EL9			Samsung	KMM536512B			Samsung	KM41C1000	
	IDT	DP59264				TMM4256GU9			TI	TM512KBC36				KM41256A	
		IDT8M864L				TMM4256GU9			Toshiba	THM36512AS			SGS-Thomson		
MB8464A-L	Mitsubishi	M5M5165-L		MB85230	Hitachi	TM4256EL9			Hitachi	THM36512AS				MKB45F56	
	Motorola	MCM60L64				TM4256GU9			IBM	HB56D136B			Siemens	HYB511000	
	NEC	μPD4364-L				HB56A18B			MicronTech	34F2933			TI	TMS4C1024	
	Samsung	KM6264AL			MicronTech	MT8C8024M			Mitsubishi	MT9D136M				TM4256FC1	
	Toshiba	TC5565AL (3682)			Mitsubishi	MH1M08A			NEC	MH1M36BQJ				TM5256	
MB85201	Dense-Pac	DPD411M				MH1M08B0J			OKI	MC421000A36FH			Toshiba	TC511000	
	Fujitsu	MB81C1000			Motorola	MCM81000			Peps	MSC2350YS12				TC511000C	
		TH22568			NEC	MC421000A8			Samsung	MH1MX36					
MB85201	GoldStar	GM71C1000			OKI	MSC231148		MB85347	Hitachi	KMM5361000					
	Hitachi	HB561003				MSC2313AYS8			NEC	THM361020					
		HM511000				1MX8			Hitachi	THM361020C					
		HM511002			Peps	KMM581000A			NEC	HB56D236B					
		HM561003			Samsung	MPR68CTE64			Peps	MC422000A36FH					
MB85201	Hyundai	HY51C1000			TI	TM024GADB			Toshiba	MH2MX36					
		HY51C1002				TM024GADB				THM362020					
MB85201	MicronTech	MT4C1024			Toshiba	THM81000		MB86901	LSI Logic	THM362020S					
	Mitsubishi	MH25608				THM81000A				L64801CPGA					
		MH25609			UTMC	UT67164				(3533)					
		M5M4C1000				UT7164		MB86902	LSI Logic	L648010FP (3533)					
		M5M41000S				HB56B18B		MB87017A	CMD Micro	G8870					
		M5M410000		MB85231	Hitachi	MT8C8025M			Crystal	CS8870					
					MicronTech	MH1M08B1J			Mitel	MT8870					
MB85201	Motorola	MCM511000A			Mitsubishi	MC421000B8				MT8870-1					
	NEC	μPD421000				TM0256AD8			Plessey	MV8870					
		MC421000			TI	HB56A19			Samsung	KT3170					
MB85201	OKI	MSM41000		MB85235	Hitachi	HB56A19B			Sierra	SC11270					
	Samsung	KM41C1000				HB58A19				SC11271					
		KM41256A				MT8C9024		MB89321BP	Teltona	M8870					
					MicronTech	MT8C9024M			Motorola	MCM6845					
MB85201	SGS-Thomson	MKB45F56			Mitsubishi	MH1M09		MLB80C51	Fujitsu	MBL80C51					
	Siemens	HYB511000				MH1M09B0J			Intel	P80C51					
	TI	TMS4C1024				MCM91000				P80C51BH					
		TM4256FC1			Motorola	MC421000A9		MLB80C51	OKI	80C51					
		TM5256			OKI	MSC2310Y59			Signetics	SCC80C51B (3613)					
MB85201	Toshiba	TC511000				MSC2317AYS9				80C51					
		TC511000C			Peps	PEP1MX9		MLB8031AH	Intel	AMD8031					
		TC511001C			Samsung	KMM591000A				P8031AH					
MB85203	Dense-Pac	DPD44256			Siemens	HYM910005		MLB8031AH	Siemens	SAB8031A					
	Peps	PEP4256EC4				TM024GAD9				SAB8031A					
	TI	TM4256EC4				(Continued)				(Continued)					

Gazelle Microcircuits				
GA22VP10	TI	TIBPAL22VP10		
GA23SV8	AMD	AMPAL23S8		
	Gazelle	GA23S8		
GA23S8	AMD	AMPAL23S8		
	Gazelle	GA23SV8		

Gennum				
GC810	LinearTech	LM10		
	MCE	MCELM10		
	National	LM10		
GP605	Cherry Semi	CS3805		
		CS3805A		
LS2842	Cherry Semi	CS2842A		
	SGS-Thomson	UC2842		
	SiliconG	SG2842		(3642)
	TeledyneS	TSC28C42		
	Unitrode	UC2842		

GoldStar Technology				
GD74LS590	Samsung	KS74AHCT590		
	TI	SN74LS590		
		TL5006		
GD74LS590	UMC	UM74HCT590		
GD74LS612	TI	SN74LS612		
GD75188	Exar	XR1488		
	Motorola	MC1488		
	National	μA1488		(Continued)

* Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
GoldStar Technology (Cont'd)				GL339			(Cont'd)	GL5526			(Cont'd)	GL7445				
GD75188	National	(Cont'd)		Motorola	LM339			Sanyo	LA3600			Lansdale	ML7445			
		μA212A		National	μA339			Toshiba	TA7796P			National	7445			
		μA750			LM339			Motorola	MC5529			Signetics	7445			
		DS1488		NEC	μPC137			National	LM5529			TI	SN7445			
GD75188	Samsung	MC1488		Raytheon	μPC177			Exar	XR555			Sanyo	LB1661			
SGS-Thomson		MC1488		Samsung	LM339			GoldStar	XR555M			Toshiba	TA7288			
		MC1488			LM339A			Harris	GLC555			National	LM340-5			
		MC1488		SGS-Thomson					CA0555			Samsung	MC7805			
		MC1488			LM339				NE555			SGS-Thomson	μA7805			
		SG1488	(3643)	TI	LM339			GL555	M5E555			Toshiba	L7805			
		MC1488		Toshiba	TA75339				M51841				TA78005			
		SN75188		Hitachi	HA11423			Motorola	M51848				TA79005			
GD75189	Exar	XR1468		AD	OP11	(3247)		GL555	MC1455			GL7806	Samsung	MC7806		
	Motorola	MC1468			PM248			National	μA555			SGS-Thomson	μA7806			
	Raytheon	RC4195		Exar	XR4751				LM555				L7806			
GLC555	Exar	XR555		Harris	LM348			GL555	NE555			GL7808	Toshiba	TA78006		
		XR555M		Motorola	LM348			SGS-Thomson	NE555				Motorola	MC08		
		CA0555		National	LM348				SE555				Samsung	MC7808		
		NE555			LM348			Signetics	SE555			SGS-Thomson	μA7808			
	Mitsubishi	M5E555		Samsung	LM348			GL555	TI	SE555			L7808			
		M51841		TI	LM348				SE555M				TA78008			
		M51848		Harris	CA0358A			GL555	TA75555			GL7809	Toshiba	HA17809		
	Motorola	MC1455			LM358			GL5560	Toshiba	TA7555			Hitachi	MC7809		
	National	μA555		Hitachi	HA17358			GL5561	Signetics	NE5560			Motorola	μA7809		
		LM555		Motorola	LM358				Signetics	NE5561			National	LM7809		
	Samsung	NE555		National	LM358			GL567	Exar	SE5561			TI	μA7809		
	SGS-Thomson	NE555			LM358A				XRL567			GL7812	Toshiba	TA78009		
		NE555		Samsung	LM358				XR2567				National	LM340-12		
	Signetics	NE555			LM358A			GL567	XR567				Samsung	MC7812		
		SE555		Sanyo	LA6358				MCE	MCE567			SGS-Thomson	μA7812		
		SE555		SGS-Thomson	LM358				National	LM567				L7812		
	TI	SE555M		Signetics	LM358			GL567	Samsung	LM567C				TA78012		
		TA75555			NE532				Sharp	LM567L			GL7815	Toshiba	LA51515	
GLC556	Toshiba	TA7555		TI	LM348				Signetics	IR3N05				Lambda	KA340T15	
	NCR	NCR65C00-1	(3575)		LM358			GL5676	NE567				Samsung	MC7815		
	Rockwell	R65C10		Toshiba	TA75358			GL574	LA3376				SGS-Thomson	μA7815		
	TI	NE556		Sanyo	LA7911				ADC574					L7815		
GL1150	Sanyo	LA7850		Sanyo	LA7016			GL574	ADC574A				Toshiba	TA78015		
GL1151	Samsung	KA2138		Motorola	LM393				AD574				AD	AD7824		
	Sanyo	LA7851		NEC	μPC393C			GL574	574				Maxim	AD7824		
GL1170	AEG Corp	TDA1170		Samsung	LM393A				ADC574A			GL7824	Samsung	MC7824		
	National	μA7327			LA6393			GL574	Datel	ADC574Z				SGS-Thomson		
GL1223	ROHM	BA546		GL393	Sanyo	LM393			Harris	HI574				μA7824		
		BA6124			SGS-Thomson	LM393				HI574A				L7824		
		BA6137				LM393		GL574	HADCS74				TI	LM340-24		
GL1223	Samsung	KA2284		Signetics	LM393				MAX574			GL7909	Toshiba	TA78024		
		KA2285		TI	LM393				MCE	MCE574			National	μA7909		
GL1223	Sanyo	LB1403N		Toshiba	TA75393				MicroNet	MN574A	(3547)			μPC7909		
		LB1423N		AD	OP14 (3245, 3248)				MP574				SGS-Thomson	L7909		
GL1223	Toshiba	TA7366P		GL4558	Exar	XR1458			MP574A				TI	μA7909		
GL3101A	Hitachi	HA11440A				XR4558		GL574	Sipex-HSD	HS574				μA7909		
GL3130	National	μA705		GL4558	Fujitsu	MB3607				HS574A			GL7912	Toshiba	TA79009	
		LM1800			Harris	CA1458		GL574	TeledyneS	TP574A				Motorola	MC79M12	
GL3130	Signetics	μA758		GL4558	Hitachi	CA1558		GL5750	Sanyo	LA4550				National	μA79M12	
GL3165	Mitsubishi	MB1365SP			Motorola	MC4558		GL5808	ROHM	BA4260					μA79M12M	
GL317	SGS-Thomson			GL4558		SE4558			Samsung	KA2247					μA7912	
		TDB0117				MC4558C		GL5835	Samsung	KA22461					LM79M12	
GL3201	Harris	CA3065		GL4558	National	μA1458			Sanyo	LA1135					MC79M12C	
	Motorola	LSC1008				LM1558		GL5840	ROHM	BA4110					MC7912	
	Samsung	KA2101		GL4558	Raytheon	RC4558			Samsung	KA22441						
	Toshiba	TA7176				RM4558			Sanyo	LA1140						
GL324	AD	OP400		GL4558	Samsung	MC4558		GL5845	Sanyo	LA1145						
	Hitachi	HA17902			SGS-Thomson	LS4558		GL5901	Cypress	CY2901C						
	Motorola	LM2902				MC4558			SGS-Thomson	TDA1220						
		MC33174		GL4558	Signetics	MC1458				W55901	(3717)					
	National	μA324				MC1558		GL5910	Waferscale	KA2272			GL7915	Samsung	MC7915	
	NEC	μPC451				NE4558			Samsung	LA2110				SGS-Thomson	μA7915	
	SGS-Thomson	LM2902		GL4558	TI	SA4558				W55910					L7915	
		LM324				SE4558		GL6801	Hitachi	HD6801				Toshiba	TA79015	
	Signetics	LM2902				MC1458			SGS-Thomson	EF6801				Unitrode	UC320-15	
	TI	TA75902		GL4558		MC1558		GL6840	Hitachi	HD6840				Hitachi	HD74LS195A	
GL3301	Hitachi	HA11446				RC4558			Motorola	MC6840				Motorola	MC719924	
GL3320	ATMEL	AT27C641				LM4558			SGS-Thomson	EF6840					MC7924	
		AT27HC64		GL4558	Toshiba	TA75458		GL6981		PBL3781				National	μA7924	
GL3320	Cypress	CY7C266				TA75558			Ericsson	KA2425B					DM74LS195	
	Fujitsu	MBM27C64				MB3759		GL7101	Samsung	LS356					LM7924	
		MBM2764		GL494	Fujitsu	μA494			SGS-Thomson	ML7494	(3514)				74LS195A	
GL3320	Microchip	27HC64			National	TL494		GL7401	Lansdale	DM7401	(3514)				DN74LS195A	
	National	NM27C64			TI	TA76494			Lansdale	7401					MC7924C	
	Samsung	KA2153			Toshiba	UC494A			National	SSL7401					L7924	
	Sharp	LH5762J		GL5501	Unitrode	LA3220		GL7401	Saratoga	SN7401					T74LS195A	
		LH5763		GL5526	Sanyo	M5226P			TI						μA7924	
		LH5764J			Mitsubishi	KA2223									SN74LS195A	
GL3320	TI	TMS27C49			Samsung										TA79024	
	Toshiba	TA7644BP														
	Waferscale	WS57C49B														
		WS57C64F														
GL339	Harris	CA0339A														
		CA0339A														

* Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
GoldStar Technology (Cont'd)				GM71C1000 (Cont'd)				GM76C28				Z8420 (Cont'd)			
• GL8121	National	DM74251		Hitachi	HB561003			Cypress	CY7C128A			Sharp	LH0081		
• GL8121	TI	DM8121			HM511000			LogicDev	L6116			Zilog	Z80-PIO		
• GL8121	AMD	SN74251			HM51101			MicronTech	MT5C1608				Z8420		
GM231024	Cypress	PAL16R4			HM51102			Sony	CKX5814						
		PALC16R4		Hyundai	HM561003			Vitellic	V61C16			SGS-Thomson	Z80ACTC		
	Gazelle	PAL16R4			HY51C1000			VLSI Tech	VT20C18				Z80CTC		
		GA23SV8			HY51C1002			AMD	AM9122				Z8430		
		GA23S8		MicronTech	MT4C1024			Cypress	CY7C122			Sharp	LH0082		
	Harris	HPL16R4		Mitsubishi	MH25608			Performance	P4C22			Zilog	Z80-CTC		
	Intel	5C031			MH25609				P93U422				Z8430		
		5C032			M5M4C1000			• GM76C64	Fujitsu	MB81C71A		SGS-Thomson	MK3886		
	Lattice	GAL16V8A			M5M41000S			Hitachi	HM6287						
		GAL16V8A		Motorola	M5M410000				HM6787						
		GAL18V10		NEC	MCM511000A			• GM76C64	LogicDev	L7C166					
	National	PAL16R4			μPD421000			Mitsubishi	M5M5187						
	Samsung	CPL16R4-35		OKI	MC421000				M5M5187AP						
		CPL16R4L-25		Samsung	MSM41000			• GM76C64	OKI	MSM5187		Sharp	Z8442		
	Signetics	PLUS16R4		SGS-Thomson	KM41256A			S-MOS	SRM2261				LH0084		
• GM3043	TI	TIBPAL16R4			MKB45F56			Saratoga	SSM7187				LH0085		
• GM57HC64	Samsung	KS5803B		Siemens	HYB511000			SGS-Thomson	MK41H87			Zilog	LH0086		
	ATMEL	AT27C641		TI	TMS4C1024				LH5261				Z80-SIO		
• GM57HC64	Cypress	AT27HC64			TM4256FC1			Sharp	74HC4515				Z8440		
	Fujitsu	CY7C266		Toshiba	TM5256			Signetics	DPS88H08			SGS-Thomson	Z8442		
• GM57HC64		MBM27C64			TC511000			Dense-Pac	XR8464						
	Microchip	MBM2764			TC511000C			Exar	MB88B464						
	National	27HC64			TC511001C			Fujitsu	MB81C78A						
	Samsung	NM27C64		Fujitsu	MB81C4256				MB8464A						
	Sharp	KA2153		Hitachi	HM514256				CDM6264						
		LH5762J		Hyundai	HY51C4256			Harris	HM6264						
		LH5763		MicronTech	MT4C256			Hitachi	HM6464						
		LH5764J			MT4C256				MB6264						
• GM57HC64	TI	TMS27C49		Mitsubishi	M5M44C256			Hyundai	HY6264						
	Toshiba	TA7644BP			M5M44C256A			IDT	DPS9264						
	Waferscale	WS57C49B		Motorola	μPD424256			Krueger	6264-100 (3513)						
		WS57C64F		NEC	μPD424256A				6264-120 (3513)						
GM62093	Harris	CD22M093			AAA1M104				6264-150 (3513)						
	Mitel	MT8812		NMB	MSM41005				6264LP-100 (3513)						
	SGS-Thomson	M03494		OKI	MSM414256				6264LP-120 (3513)						
		M093			MSM514256				6264LP-150 (3513)						
	SiliconSys	SS178A093A (3647)			KM44C256										
		78A093A-CP		Samsung	LH64257										
• GM6371	SGS-Thomson	MK5371		Sharp	HYB514256			MicroLinear	ML8464						
• GM6373	SGS-Thomson	MK5373		Siemens	TMS44C256			Mitsubishi	AM99C88						
• GM6375	Samsung	CPL16L8L-25		TI	TC514256				M5M5178						
• GM6375	SGS-Thomson	KS5822		Toshiba	MB81256			Motorola	MCM6064						
		MK5375		Fujitsu	HM50256				MCM61164						
• GM6376	Sharp	LR4803		Hitachi	HM50257				MCM6164C						
	Samsung	CPL16R8L-25			HY51C256			National	DP8464						
	SGS-Thomson	MK5376		Hyundai	HY53C256			OKI	MSM5164						
GM6845S	Hitachi	HD6845S		Mitsubishi	MSM4257				MSM5165						
• GM7C1024	Dense-Pac	DPD411M			MSM4257			S-MOS	SRM2064						
	Fujitsu	MB81C1000		Motorola	MT1259				SRM2264						
		TH22568		NEC	μPD41256			Samsung	KM6264						
• GM7C1024	GoldStar	GM71C1000		OKI	MSM37257A				KM6264A						
Hitachi		HB561003			MSM41256			Sharp	LH5164						
		HM511000			MSM41256A				LH5165						
		HM51101			KM41256			Sony	CKX5164P						
		HM51102			KM41256A				CKX5863P						
• GM7C1024	Hyundai	HY51C1000			V51C257				CKX5864						
		HY51C1002			V53C256				CKX5865						
• GM7C1024	MicronTech	MT4C1024			WCM41256				CKX5865P						
	Mitsubishi	MH25608			DPS9264				TC5563						
		MH25609			IDT7164L			Toshiba	TC5565A (3682)						
		M5M4C1000		Intel	M2164A				UM6264A						
		M5M41000S		Krueger	4164-120 (3513)				V61C62						
		M5M410000			4164-150 (3513)			UMC	V62C64						
• GM7C1024	Motorola	MCM511000A			4164-200 (3513)			Vitellic	V63C64						
	NEC	μPD421000			NMC4164				VT20C99						
		MC421000			MSM3764				MBM10490						
• GM7C1024	OKI	MSM41000			MN4164			GM82C171	Fujitsu	IDT10490					
	Samsung	KM41C1000			MN4864				VLSI Tech	VDA176					
		KM41256A			KM4164A			GM82C176	GoldStar	82C765					
• GM7C1024	SGS-Thomson	MKB45F56			KM4164B			GM82C765B	SMC	FDC37C65B					
		HYB511000			HYB4164				Western	WD37C65B					
	Siemens	HYB511000			SM4164			Z8400	SGS-Thomson	Z80ACPU					
	TI	TMS4C1024			L7C164					Z80ACTC					
		TM4256FC1			MCM1423					Z84C00					
		TM5256			F1620					Z8400					
• GM7C1024	Toshiba	TC511000			F1621					LH0080					
		TC511000C			SRM2274					TMP284C00					
		TC511001C			V61C62					Z84C00					
		DPD411M			PAL16R6Q-25					Z8400					
GM71C1000	Dense-Pac	TH22568			PALC46R6					Z80PIO					
	Fujitsu				DPS92256					Z8420					
					DPS92256L										
					CPL16R6L-35										

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Gould AMI (Cont'd)				PEEL22CV10 (Cont'd)				S2560 (Cont'd)				S6516 (Cont'd)			
• μA7824	Samsung SGS-Thomson	MC7824 μA7824 L7824	(Cont'd)		Signetics TI	CPL22V10-35 CPL22V10L-25 CPL22V10L-35 PLS173 TIBPAL22V10 TIBPAL22V10A TICPAL22V10			National Plessey Samsung SGS-Thomson	TDA2560 TDA2560 KS5805A MK50992 M2560 LR40992			Mitsubishi National OKI	M5M5517 MMC2116 MSM2128 MSM5126 MSM5128 MSM5129 SMC6116 SRM2016C	
• μA7824	TI	LM340-24 TA78024						• S2569	Sharp SGS-Thomson	M2569		• S6516	S-MOS	SMC6116 SRM2016C	
• μA7905	GoldStar	GL7905		PEEL22CV10Z	ICT	PEEL22CV10Z		S3506	Plessey	MV3506		• S6516	SGS-Thomson	ET2128	
• μA7909	GoldStar	GL7909		PEEL253	ICT	PEEL253		S3507	Plessey	MV3507				MK2817	
	National	μA7909 LM7909		PEEL273	ICT	PEEL273		• S35212	EG&G-Reticon	RM5632A R5632		• S6516	Sharp	MK6116 LH5115 LH5116	
• μA7909	NEC	μPC7909		• S1602	Hitachi	HD6350 HD6850		• S35212	Exar	XR2126 XR2127		• S6516	Signetics	NE5517	
	SGS-Thomson	L7909		• S1602	Motorola	MC6850 KS5824		• S35212	Gould AMI	S35212A		• S6516	Sony	CMX5816	
	TI	μA7909			SGS-Thomson	EF6850		• S35212	Hitachi	HA17815			UMC	UM6116	
• μA7912	GoldStar	TA79009 GL7912		• S1863	Hitachi	HD6350 HD6850			Mitel	MT35212A		S6551	Vitellic	V61C16	
	Motorola	MC79M12		• S1863	Motorola	MC6850 KS5824			Sierra	SC11000 SC11005			Commodore	MP6551	
	National	μA79M12 μA79M12M μA7912 LM79M12 MC79M12C MC7912			SGS-Thomson	EF6850		S35212A	EG&G-Reticon	RM5632A R5632			Harris	HM6551	
• μA7912	Samsung	μA7912		• S2114	AMD	AM9114 2114A			Exar	XR2126 XR2127		• S68A332	Panasonic	AN6551	
• μA7912	SGS-Thomson	μA7912			Intel	2114-150 2114-200 2114-450	(3513) (3513) (3513)		Hitachi	HA17815			Rockwell	R6551	
• μA7912	TI	μA79M12M		• S2114	Krueger	M5L2114			Holt	H18011 H18020		• S68A332	UMC	UM6551	
	Toshiba	TA78024 TA79012		• S2114	Mitsubishi	M5L2114		• S3525B	Gould AMI	S3525A			Commodore	MP52332	
• μA7915	GoldStar	GL7915			Motorola	NMC2114A		S4520	Gould AMI	S4521		• S68A332	Hitachi	P51C69	
	Samsung	MC7915		• S2114	National	MSM2114			Sierra	SC11000 SC11005			Intel	UM2168	
	SGS-Thomson	μA7915			OKI	R6514			Hitachi	HA17815		• S68A332	Microchip	51C69	
• μA7915	Toshiba	TA79015			Rockwell	LH2114			Micrel	MIC8011			National	RO9432	
• μA7924	Unitrode	UC320-15			Sharp	TMM2114A		S4521	Gould AMI	S4520		• S68A332	Mitsubishi	M58333	
	GoldStar	GL7924		S23128	Toshiba	UM6114			Holt	H18011 H18020			Sharp	F3532	
	Hitachi	HD74LS195A			AMD	AM9128			Micro	MIC8011		• S68A332	NCR	NCR2332	
	Motorola	MC719924			Microchip	R09128		S4534	Allegro	UCN5810		• S68A332	Panasonic	LN2332	
• μA7924	National	MC7924			NCR	NCR23128			Signetics	UCN5818			Siemens	SAB8332	
		SN74LS195A			Signetics	23128			TI	HEF4534 TL4810 UCN4810A		• S68A332	Hitachi	SAB8332	
		μA7924			UMC	UM23128						• S68A332	Signetics	2332	
		DM74LS195			VLSI Tech	VT23128		S4535	Allegro	UCN5818		• S68A332	TI	2632A	
		LM7924				VT23129			Micro	SN75518		• S68A364	NCR	D51C69	
• μA7924	Panasonic	74LS195A				VT23129A		• S5101	TI	HA5101			P51C69		
	Samsung	MC7924C				VT23130			Intel	5101			VT2332		
	SGS-Thomson	DN74LS195A		S23256	Catalyst	VT23138			MicroNet	MN5101	(3547)		NCR	NCR2364	
• μA7924	TI	L7924			Semi	CAT71C256		• S5101	Mitsubishi	M5L5101		• S6801	OKI	MSM3864	
	Toshiba	T74LS195A			NCR	NCR23256			Motorola	MCMS1L01			Plessey	SL2364C	
• μA7924	SGS-Thomson	μA7924			OKI	NCR23257			National	MM74C920			S-MOS	SMM2364	
• μA7924	TI	SN74LS195A			Panasonic	MSM38256		S614381	Panasonic	MNS101		• S6801	Sharp	LH2364A	
GA1000D	SGS-Thomson	GA1000D			S-MOS	MN23257		• S6364	Sharp	LH5101		• S6802	Signetics	2364	
GA2000D	SGS-Thomson	GA2000D			Signetics	SMM23256			MicroNet	M5L5101			TI	TMS2364	
GA3000D	SGS-Thomson	GA3000D				SMM6326			Mitsubishi	MCMS1L01		• S6801	VLSI Tech	VT2364	
GA4000D	SGS-Thomson	GA4000D				23256			National	MM74C920			Weitek	SC8164	
PEEL153	AMD	AM29C117		• S2333	Commodore	23256A		• S6364	Sharp	LH5101		• S6801	Hitachi	HD6801	
PEEL173	ICT	PEEL153			Microchip	TC53257			IDT	IDT7381		• S6802	SGS-Thomson	EF6801	
PEEL18CV8	TI	PEEL173			National	VT23256			Microchip	R039365		• S6805	Hitachi	HD6802	
PEEL20CG10	Cypress	TICPAL18V8		• S2364	Supertex	VT23257			Mitsubishi	R09864			Motorola	MC6802	
	Gazelle	PALC20G10			NCR	MPS2333			National	M5M23C64		• S6805	SGS-Thomson	EF6802	
	ICT	GA22VP10			OKI	R09433		• S6364	SGS-Thomson	F3568			Harris	CDP6805	
PEEL22CV10	AMD	PEEL20CG10			Plessey	23C32			TI	F3569		• S6808	Motorola	MC6805	
		AMPAL22V10			S-MOS	NCR2364			MicroNet	MM52264		• S6808	National	EF6805	
		AMPAL22V10A			Sharp	MSM3864			Rockwell	NMS2264		• S6809	Hitachi	F6808	
		PALCE22V10			Signetics	SL2364C		S65C51	Harris	MSM3864			Motorola	HD6809	
		PAL14L8			TI	SMM2364			Intel	MN2364			SGS-Thomson	MC6809	
	ATMEL	AT22V10			VLSI Tech	LH2364A		• S6501	MicroNet	MK37000		• S6810	Hitachi	EF6809	
		AT22V210			Weitek	2364			Mitsubishi	TMS2364			Motorola	HD6810	
	Cypress	CYPALC22V10L-35		S25089	AMD	TMS2364			Motorola	MD65SC51B	(3576)	• S6821	Hitachi	MC6810	
		PALC22V10			Cypress	VT2364		• S6514	National	M5L5101			Motorola	MC6810	
		PALC22V10-25			Hitachi	SC8164			Panasonic	MCMS1L01		• S68364	Hitachi	HD6821	
		PALC22V10-35			Lansdale	DM77LS181			Sharp	MCM145101			NCR	EF6821	
		PALC22V10B			National	DM77S181		• S6514	Cypress	MM74C920		• S68364	OKI	NCR2364	
		PALC22V10L-25				DM77S281			Harris	LH5101			Plessey	MSM3864	
		PALC22V10L-35				DM87S181		• S6514		HA5114			S-MOS	SL2364C	
	ICT	PEEL22CV10				DM87S281			Intel	HM6514			Sharp	SMM2364	
	Lattice	GAL16V8A				932451		• S6514	Mitsubishi	5114		• S684SE	Signetics	LH2364A	
		GAL18V10			Raytheon	29631			OKI	M58981			TI	2364	
		GAL20V8A				29631AM		• S6516	S-MOS	MSM5114		• S684SE	VLSI Tech	TMS2364	
	National	GAL22V10			Signetics	N82S181			SRM2114C	SRM2114C			Weitek	SC8164	
		PAL14L8				S82S181			LC3514	5114		• S684SE	Hitachi	HD6845	
	Samsung	CPL20L8-35			STC	STC5089			Allegro	UDN6116		• S684SE	Motorola	MC6845	
		CPL22V10			TI	28586-60			Micro	HM6116			National	F6845A	
		CPL22V10-25				(Continued)			Hitachi	HM6116	(Continued)		Samsung	KS68C45	
		(Continued)											UMC	UM6845	
														(3689)	

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Gould AMI (Cont'd)				AD7531	AD	AD8531		CA0239A	Motorola	LM239A		CA0339A	SGS-Thomson		(Cont'd)
♦ S6840	Hitachi	HD6840			Maxim	MX7531			National	LM239A				LM339	
	Motorola	MC6840			MicroPwr	MP7531		CA0258	Motorola	LM258			TI	LM339	
	SGS-Thomson				National	AD7531			National	LM258A				TA75339	
		EF6840		AD7533	Unitrode	PIC7531			Samsung	LM258		CA0358A	Toshiba	GL358	
♦ S6846	Hitachi	HD6846			AD	AD7520				LM258A			GoldStar	LM358	
♦ S6852	Motorola	MC6852				AD7533			SGS-Thomson	LM258			Harris	HA17358	
♦ S6854	SGS-Thomson					PM7533				LM258			Motorola	LM358	
		EF6854			Datel	DAC7533		CA0301	Signetics	LM258			National	LM358	
S7720	NEC	μPD7720			Maxim	MX7533			TI	LM258				LM358A	
S8980	Mitel	MT8980			MicroPwr	MP7533			AD	ADOP07	(3243, 3245)		Samsung	LM358	
S8981	Hitachi	HA17805				MP7633				AD201				LM358A	
	Mitel	MT8981			National	AD7533				OP06			Sanyo	LA6358	
18CV8	ICT	18CV8			Unitrode	PIC7533				OP77			SGS-Thomson	LM358	
Greenwich Instruments USA				AD7541	Burr-Brown	DAC7541A			Harris	CA0201				LM358	
GR12881	Benchmark	BQ4013			Datel	DAC7541				CA3193			Signetics	LM358	
	Dallas	DS1245			Maxim	MX7541				CA3493			TI	NE532	
GR281	Dallas	DS1220			Signal Proc	HDAC7541				HA5130				LM348	
	SGS-Thomson				Siliconix	SI7541A				HA5135				LM358	
		MK48202		AD7545	Sipex-HSD	DAC331				HA5177		CA0555	Toshiba	TA75358	
GR3281	Benchmark	BQ4011			AD	AD7545			National	μA207			Exar	XR555	
	Dallas	DS1230				PM7545				LH0044				XR555M	
	Dallas	DS1235			Burr-Brown	DAC7545	(3341)	CA0301A	Raytheon	OP77			GoldStar	GLC555	
GR881	Benchmark	BQ4010			Maxim	AD7545			AD	AD301			Harris	NE555	
	Dallas	DS1225			MicroPwr	MP7545				OP77			Mitsubishi	M5E555	
	SGS-Thomson			CA0124	Signal Proc	HDAC7545			Harris	LM301				M51841	
♦ NVR2	Dallas	DS1220			Sipex-HSD	HS7545			LinearTech	LM301			Motorola	MC1455	
	Greenwich	GR281			AD	OP400				LM301A			National	μA555	
	SGS-Thomson	MK48202			LinearTech	LT1014			Motorola	LM301				LM555	
					National	μA124			National	μA301			Samsung	NE555	
						LM124A				LM301A			SGS-Thomson	NE555	
					SGS-Thomson	LM124				LM301A				NE555	
					Signetics	LM124			NEC	μPC301			Signetics	NE555	
				CA0139	SiliconG	SG124			Samsung	KA301			TI	SE555	
♦ μA733	Adv Analog	A733			Motorola	LM139			SGS-Thomson	LM301		CA0723	Toshiba	TA75555	
	Motorola	MC1733			National	μA139				LM301A			National	μA723	
♦ μA733	National	μA733		CA0139A		LM139			SiliconG	SG301				μA723M	
♦ μA733	Signetics	μA733			Raytheon	LM139			TI	μA301				LM723	
		NE592			AD	PM139A		CA0311	AD	AD311			NEC	LM723	
♦ μA733	SiliconG	SG1401	(3643)		Motorola	LM139A			LinearTech	PM211			Samsung	LM723	
	TI	μA733M			LM3302	LM139A			Motorola	LM311			SGS-Thomson	μA723	
		NE592			National	LM139A			National	LM311				μA723	
		NE592-8		CA0158A	SGS-Thomson	LM139A				LM311			Signetics	μA723	
		SE592			Signetics	LM339			Samsung	LM311			SiliconG	SG723	(3642)
♦ ADC0801	National	ADC0801			Adv Analog	A158			SGS-Thomson	LM311		CA0741	AD	OP02	
ADC0802	National	ADC0802			Motorola	LM158		CA0324	Signetics	LM311			Burr-Brown	OPA11	
ADC0803	National	ADC0803			National	LM158A			SiliconG	SG311			MicroPwr	MPOP02	
	Signetics	ADC0803			Signetics	LM158			TI	LM311			Signetics	SA741	
ADC0804	National	ADC0804		CA0201	TI	LT1013			Toshiba	TA75393			AD	OP04	
	Signetics	ADC0804			AD	ADOP07	(3243, 3245)		AMD	LM324		CA0747	Hitachi	HA17747	
	TI	ADC0804				AD201			Fujitsu	MB3614			MicroPwr	MPOP04	
AD590	AD	AD590				OP06			Harris	CA0224			National	μA747	
		REF03	(3238)			OP77				LM324				LM747	
	Maxim	AD590			Harris	CA0301			Hitachi	HA17324			NEC	μPC1418	
AD7520	Maxim	MX7520				CA3193			Motorola	LM324			Raytheon	RC747	
	MicroPwr	MP7520				CA3493			National	LM224			Signetics	μA747	
	Motorola	MC7520				HA5130				LM324			TI	μA747M	
	National	AD7520				HA5135			Raytheon	LM324				OP06	
		DAC1020				HA5177			Samsung	LM324				OP77	
		DAC1021			National	μA207			SGS-Thomson	LM324			Motorola	PM1008	
		DAC1022				LH0044				LM324			National	MC1748	
		7520			Raytheon	OP77		CA0339	GoldStar	GL339		CA0748	SGS-Thomson	LM748	
	Samsung	KA2919			AMD	LM324			Harris	CA0339A				LS148	
	Sanyo	LA7520N			Fujitsu	MB3614			Motorola	LM339			TI	μA748	
	Unitrode	PIC7520			Harris	CA0324			National	μA339				SN72748P	
AD7521	Maxim	MX7521				LM324				LM339			AD	OP16	
	MicroPwr	MP7521			Hitachi	HA17324			NEC	μPC137			SGS-Thomson	LF351	
	Motorola	MC7521			Motorola	LM324		CA0339A		μPC177				TL081	
	National	AD7521			National	LM224				LM339			Exar	XR082	
		DAC1222			Raytheon	LM324			Raytheon	LM339			Fujitsu	MB40547-7	
		7521			Samsung	LM324			SGS-Thomson	LM339A				MB47082	
	Sipex-HSD	DAC331-12			SGS-Thomson	LM324				LM339		♦ CA081	AD	OP16	
	AD	AD7523				LM324			TI	LM339			SGS-Thomson	LF351	
	Datel	DAC7523			TI	LM324			Toshiba	TA75339				TL081	
	Maxim	MX7523			AD	PM239			GoldStar	GL339				XR082	
	MicroPwr	MP7523			Motorola	LM239			Harris	CA0339		♦ CA082		MB40547-7	
	Motorola	MC7523			National	μA239			Motorola	LM339				MB47082	
	National	LM7523				μA250			National	μA339			SGS-Thomson	LF353	
	Unitrode	PIC7523				LM239				μPC137				TL082	
AD7530	Maxim	MX7530			Samsung	LM239			NEC	μPC177		♦ CA082	TI	HA17082	
	MicroPwr	MP7530			SGS-Thomson	LM239				LM339				TL082	
	National	AD7530				LM239			Raytheon	LM339					
	Samsung	KA2923			Signetics	LM239			Samsung	LM339A					
	Sanyo	LA7530N			TI	LM239									
	Unitrode	PIC7530													

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Harris Semiconductor (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
• CA084	Exar	XR084		CA1558	Signetics	NE4558		CA3100	AD	AD507		• CA3406	Allegro	TPQ3904	
	National	μAF774			TI	SE4558			Burr-Brown	3508			Micro	EL2015	
	SGS-Thomson					MC1458			Datel	AM462-2			Elantec	CA3045	
		TL084				MC1558			Elantec	EHA2620		CA3410	Motorola	MPQ3904	
• CA101	TI	TL084				MC4558C				HA2622			AnalogSys	MA374	
	AD	AD101				RC4558			Harris	HA2620			Motorola	MC33074	
	SGS-Thomson					RM4558				HA2622				MC34004	
		LM101				TL4558				HA2625				MC34004A	
• CA107	AD	AD7415	(3245)	• CA2004	Toshiba	TA75458		CA3126	Sipex-HSD	SP2620			National	MC34074	
		PM741			National	TA75558			National	LM1829			TI	μA774	
• CA107	National	LH741A				LM2002		CA3127		LM3126		CA3493	AD	AD0P07	(3243, 3245)
	Raytheon	RC741				LM2002A		CA3140	Plessey	SL3127					
	TI	SN74154				LM383			AD	AD547					
• CA111	AD	AD111		• CA211	AD	AD211				OP41				AD201	
		PM111				PM211				OP43				OP06	
• CA111	Raytheon	LM111		• CA211	Motorola	LM211			Burr-Brown	OPA121				OP77	
	SGS-Thomson				National	LM211			Harris	CA3160				AD201	
		LM111			SGS-Thomson	LM211			Motorola	MC34001			Harris	CA0301	
• CA1190	Signetics	LM111				LM211				MC34071				CA3193	
	Samsung	KA2102A				LM211	(3643)	CA3146	National	LH0052				HA5130	
	SGS-Thomson					LM211			Sipex-HSD	SP121				HA5135	
		TDA1190Z		CA2111A	Signetics	LM211			National	μA3046				HA5177	
		TDA3190			TI	LM211				μA3086			National	μA207	
CA1391	Motorola	MC1391			Allegro	ULN2111				LM3046	(3643)			LH0044	
	National	LM1391			Micro	LM2111			SiliconG	SG3046		CA3524	Raytheon	OP77	
CA1394	National	LM1394			National	LM2113				SG3146			Cherry Semi	CS3524	
CA1458	AD	OP14 (3245, 3248)				N5111		CA3160	AD	AD547			Exar	XR3524	
		OP215		CA22301	Signetics	RPT82	(3263)			OP41			National	LM3524	
		OP270			AD	RPT83	(3263)			OP43			SGS-Thomson		
	Exar	XR1458			Exar	XRC277				OPA121				SG3524	
		XR4558		• CA2524	Exar	XR2524			Burr-Brown	CA3140			Signetics	SG3524C	
	Fujitsu	MB3607			LinearTech	LT2524			Harris	MC34001				SG3524C	
	Harris	CA1558		• CA2524	National	μA2524			Motorola	MC34071			SiliconG	SG3524	(3642)
	Hitachi	HA17458				LM2524								SG3524B	(3642)
	Motorola	MC4558		• CA2524	SGS-Thomson	SG2524		CA3162	National	LH0052			Unitrode	UC3524	
		SE4558				SG2524C			Sipex-HSD	SP121		CA358A	AD	UC3524A	
	National	μA1458			Signetics	SG2524			AD	AD2020				OP220	
		μA4558			SiliconG	SG2524	(3642)	• CA3183	TeledyneS	TSC04			Fujitsu	MB47358	
		LM1558				SG2524B	(3642)		SiliconG	SG3083			Harris	CA5260AX	
	Raytheon	RC4558		• CA2524	TI	SG2524		CA3193	AD	AD0P07	(3643) (3243, 3245)			HA5142	
		RM4558			Unitrode	UC2524							Motorola	MC3358	
	Samsung	MC4558				UC2524A				AD201			SGS-Thomson	TS272	
	SGS-Thomson			CA2904	Motorola	LM2904				OP06				NE532	
		LS4558			National	LM2904				OP77			Signetics	TLC252	
		MC4558			Samsung	LM2904			Harris	CA0201		CA4051	AD	TLC272	
	Signetics	MC1458			SGS-Thomson					CA0301				TLE2022	
		MC1558				LM2904				CA3493				AD712	
		NE4558				LM2904				HA5130				OP249	
		SA4558			TI	TA75358				HA5135				SSM2300	(3262)
		SE4558		CA3011	Toshiba	MC1590				HA5177				TS27M2	
		MC1458			Motorola	LM3011			National	μA207			LinearTech	TL072	
		MC1558		• CA3012	National	CA3011				LH0044		CA5260	Motorola	MC34082	
		MC4558C			Harris	MC1590			Raytheon	OP77			TI	TL072	
		RC4558			Motorola	LM3011			National	μA705			SGS-Thomson		
		RM4558		CA3018	National	LM3018		• CA3195		LM1800				TS27M2	
		TL4558			SGS-Thomson							CA5260AX	TI	TLC27M2	
	Toshiba	TA75458				SFC2018		• CA3195	Signetics	μA758			AD	OP220	
• CA1524	Exar	XR1524		CA3019	National	LM3019		CA3240	AnalogSys	MA336			Fujitsu	MB47358	
	LinearTech	LT1524		CA3045	Allegro	TPQ3904			Harris	ICL8043			Harris	CA358A	
• CA1524	National	SG1524			Micro	EL2015			LinearTech	OP215				HA5142	
		μA1524			Elantec	MPQ3904			Motorola	MC34002			Motorola	MC3358	
• CA1524	SGS-Thomson	LM1524			Motorola					MC34072			SGS-Thomson		
				CA3046	Allegro	ULN2046			National	μA772			Signetics	TS272	
		SG1524			Micro	SG3049			SGS-Thomson	TL072			TI	NE532	
• CA1524	SiliconG	SG1524	(3642)	• CA3049	SiliconG	MB6041				TL082C		CA5422		TLC252	
		SG1524B	(3642)	CA3054	Fujitsu	CD22354			TI	TA75072				TLC272	
	Unitrode	UC1524				CD22354A			Toshiba	TA75074		CA5470	TI	TLE2022	
		UC1524A				2916		CA3252	National	DS3669			SGS-Thomson	SN5422	
CA1558	AD	OP14 (3245, 3248)			Intel									TS274	
		OP215			Motorola	CA3054			SGS-Thomson	L9222				TLC254	
		OP270			National	TP3054				SN75440		CA723	TI	TLC274	
	Exar	XR1458			Samsung	KT8554		• CA3300	TI	CA3306			Fujitsu	MB3752	
		XR4558			SGS-Thomson	ETC5054			Harris	HA19216				MB723	
	Fujitsu	MB3607		CA3059	Motorola	LSC1008			Hitachi	MP7682		• CA758	Harris	LM723	
	Harris	CA1458		CA3065	Motorola	KA2101		CA3306	MicroPwr	HA19216			National	μA705	
	Hitachi	HA17458			Samsung	TA7176		CA3318	Hitachi	MP7682				LM1800	
	Motorola	MC4558		CA3079	Toshiba	CA3079			Hitachi	HA19209		• CA758	Signetics	μA758	
		SE4558		CA3081	Motorola	ULN2081			Motorola	MC10319		• CA810	National	TBA810	
	National	μA1458			Allegro				NEC	μPD6950			SGS-Thomson		
		μA4558		CA3082	Micro	ULN2082		CA339	AD	CMP04				TBA810	
		LM1558			Allegro					PM1139		• CA8808	EDI	EDH8808	
	Raytheon	RC4558		CA3083	Micro	ULN2083			Fujitsu	MB4204			Harris	HM8808	
		RM4558			Allegro				NEC	μPC339		• CA8808	National	DS8808	
	Samsung	MC4558		CA3086	National	LM3086		CA34002	Motorola	MC34002P				HM8808A	
	SGS-Thomson				SiliconG	SG3086	(3643)	CA3401	Motorola	MC3401				DS8808	
		LS4558		CA3100	Allegro	ULN2172			National	LM3401		• CDM5104	Cypress	CV7C147	
	Signetics	MC1458			Micro	ULN2174				LM3900			Harris	HM6504	
		MC1558							Raytheon	LM3900			Hitachi	HM4315	
									TI	LM3900			Intel	5104	
													Mitsubishi	M58981	

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Harris Semiconductor (Cont'd)				• CDM5365	Microchip	RO39365 R09864		• CDM6164	Fujitsu	MB8B464 MB81C78A MB8464A	(Cont'd)	CDM6264	Fujitsu	MB81C78A MB8464A	(Cont'd)
• CDM5104	National	NMC6504	(Cont'd)	• CDM5365	Mitsubishi National	M5M23C64 F3568 F3569 F3570		• CDM6164	GoldStar Harris Hitachi	GM76C88L CDM6264 HM6264 HM6464 MB6264			GoldStar Hitachi	GM76C88L HM6264 HM6464 MB6264	
• CDM5167	AMD	AM2167		• CDM5365	OKI	MSM52264 NM52264		• CDM6164	Hyundai IDT Krueger	HY6264 DPS9264 6264-100 (3513) 6264-120 (3513) 6264-150 (3513) 6264LP-100 (3513)			Hyundai IDT Krueger	HY6264 DPS9264 6264-100 (3513) 6264-120 (3513) 6264-150 (3513) 6264LP-100 (3513)	
• CDM5167	Cypress	CY7C167A		• CDM6116	TI	ADG506A	(3237)	• CDM6164	MicroLinear	ML8464			MicroLinear	ML8464	
• CDM5167	Harris	HM65262		• CDM6116	AD	ADG506A		• CDM6164	Mitsubishi	AM99C88			Mitsubishi	AM99C88	
• CDM5167	Hitachi	HM6267		• CDM6116	Cypress	ED18802		• CDM6164	Motorola	M5M5178			Motorola	M5M5178	
• CDM5167	IDT	IDT6167		• CDM6116	EDI	ED18802		• CDM6164	Sony	MCM6064			Motorola	MCM6064	
• CDM5167	Intel	51C66		• CDM6116	Harris	DG506A		• CDM6164	Sony	MCM6164C			Motorola	MCM6164C	
• CDM5167	LogicDev	L7C167		• CDM6116	Hitachi	HM6516		• CDM6164	National	DP8464			National	DP8464	
• CDM5167	MicronTech	MT5C1601		• CDM6116	IDT	HM6716		• CDM6164	OKI	MSM5164			OKI	MSM5164	
• CDM5167	Mitsubishi	M5M21C67		• CDM6116	Intel	IDT6116		• CDM6164	S-MOS	MSM5165			S-MOS	MSM5165	
• CDM5167	Motorola	MCM2167		• CDM6116	LogicDev	IDT6116L		• CDM6164	Samsung	MSM5188			S-MOS	MSM5188	
• CDM5167	NEC	μPD4311		• CDM6116	Maxim	IDT6116S		• CDM6164	Sharp	SRM2064			S-MOS	SRM2064	
• CDM5167	S-MOS	SRM2267		• CDM6116	MicronTech	VT20C19		• CDM6164	Sony	SRM2264			S-MOS	SRM2264	
• CDM5167	Saratoga	SSM6167		• CDM6116	Motorola	ADG506A		• CDM6164	Toshiba	CM6264A			Samsung	CM6264	
• CDM5167	SGS-Thomson	IMS1403		• CDM6116	Performance	UM6116-35 (3688)		• CDM6164	UVC	CM6264A			Sharp	CM6264A	
• CDM5167	Sharp	MK41H66		• CDM6116	Saratoga	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM52356	Catalyst	CAT71C256		• CDM6116	Sony	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM52356	Semi	S23256		• CDM6116	Toshiba	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM52356	Gould AMI	NCR23256		• CDM6116	UVC	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM52356	NCR	NCR23257		• CDM6116	Vitellic	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM52356	OKI	MM23256		• CDM6116	VLSI Tech	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM52356	Panasonic	MM23256		• CDM6116	AD	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM52356	S-MOS	SMM23256		• CDM6116	Cypress	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM52356	Signetics	23256		• CDM6116	EDI	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM52356	Toshiba	TC53257		• CDM6116	Harris	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM52356	VLSI Tech	VT23256		• CDM6116	Hitachi	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM53128	AMD	AM9128		• CDM6116	IDT	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM53128	Gould AMI	S23128		• CDM6116	Intel	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM53128	Microchip	RO9128		• CDM6116	LogicDev	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM53128	NCR	NCR23128		• CDM6116	Maxim	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM53128	Signetics	23128		• CDM6116	MicronTech	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM53128	UMC	UM23128		• CDM6116	Motorola	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM53128	VLSI Tech	VT23128		• CDM6116	Performance	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM53256	Catalyst	CAT71C256		• CDM6116	Saratoga	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM53256	Semi	S23256		• CDM6116	Sony	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM53256	Gould AMI	NCR23256		• CDM6116	Toshiba	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM53256	NCR	NCR23257		• CDM6116	UVC	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM53256	OKI	MM23256		• CDM6116	Vitellic	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM53256	Panasonic	MM23256		• CDM6116	VLSI Tech	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM53256	S-MOS	SMM23256		• CDM6116	Allegro	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM53256	Signetics	23256		• CDM6116	Micro	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM53256	Toshiba	TC53257		• CDM6116	Fujitsu	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM53256	VLSI Tech	VT23256		• CDM6116	S-MOS	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM5332	Commodore	MPS2332		• CDM6116	Micro	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM5332	Microchip	RO9433		• CDM6116	Fujitsu	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM5332	National	F3533		• CDM6116	S-MOS	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM5332	Supertex	23C32		• CDM6116	Cherry Semi	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM5332	Commodore	MPS2332		• CDM6116	Dionics	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM5332	Fujitsu	P51C69		• CDM6116	Exar	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM5332	Hitachi	P51C69		• CDM6116	OKI	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM5332	Intel	UM2168		• CDM6116	Signetics	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM5332	Microchip	RO9432		• CDM6116	TI	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM5332	Mitsubishi	M58333		• CDM6116	Toshiba	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM5332	National	F3532		• CDM6116	Cherry Semi	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM5332	NCR	NM52132		• CDM6116	Dionics	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM5332	Panasonic	NCR2332		• CDM6116	Exar	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM5332	Sharp	LM2332		• CDM6116	OKI	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM5332	Siemens	SAB8332		• CDM6116	Signetics	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM5332	Signetics	2332		• CDM6116	TI	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM5332	TI	D51C69		• CDM6116	Toshiba	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM5332	VLSI Tech	VT2332		• CDM6164	Dense-Pac	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	
• CDM5332	VLSI Tech	VT2332		• CDM6164	Exar	UM6116-35 (3688)		• CDM6164	VLSI Tech	CM6264A			Sony	CM6264A	

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Harris Semiconductor (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
CD22202	Crystal Maxim SiliconSys	CS202 IH5141 SSI75T202 (3647)		CD4001B	Signetics Toshiba Motorola National	HEF4001 TC4001B MC14001UB CD4001UB F4001 MM74C02 MSM4001 TC4001UB MC14002 CD4002 F4002		CD40106B	Signetics Toshiba SGS-Thomson	HEF40106 TC4584B HCC40107 HCF40107 TC40107B MC14580 HCC40108 HCF40108		CD40161B	Motorola National Panasonic SGS-Thomson	MC14016B MC14161 CD40161 CD40161B F40161 MN40161 HCC40161 HCC40161B HCF40161 HCF40161B HEF40161 TC40161B MC140162B MC14162 CD40162 CD40162B F40162	
CD22203	Siliconix ATMEL Crystal Cypress ICT SGS-Thomson	DG5141 AT27C642 CS203 CY7C264 27C642		CD4002B	OKI Toshiba Motorola National	MSM4001 TC4001UB MC14002 CD4002 F4002		CD40109B	SGS-Thomson	HCC40109 HCF40109 MC14011 CD4011		CD40162B	Signetics Toshiba Motorola National	HEF40161 TC40161B MC140162B MC14162 CD40162 CD40162B F40162	
CD22204	Sharp SiliconSys TI	M27HC641 LH5762 SSI75T203 (3647) TMS27C49 TMS27C64		CD4006B	Signetics Toshiba Motorola National	HCC4002 HCF4002 HEF4002 TC4002B MC14006 CD4006 F4006 F4006B		CD4011B	Motorola National SGS-Thomson	HCC4011 HCF4011 HCC4011 HCF4011 MC14011UB CD4011UB Toshiba TC4011UB Cypress CY7C264 Hitachi HM6789		CD40163B	SGS-Thomson Signetics Toshiba Motorola National	HCC40162 HCC40162B HCF40162 HCF40162B HEF40162 TC40162B MC140163B MC14163 CD40163 CD40163B F40163	
CD22212	Crystal Motorola National Signetics SiliconSys	CS204 MC145436 93Z459 N82S100 SSI204		CD4007B	SGS-Thomson Signetics Toshiba Motorola National	HCC4006 HCF4006 HEF4006 TC4006B MC14007 CD4007 F4007		CD40110	Signetics Motorola National Toshiba Cypress Hitachi SGS-Thomson	HCC40110 HCF40110 WS57C49B TC40177B MC14012 CD4012 F4012		CD40174B	SGS-Thomson Signetics Toshiba Motorola National	HCC40163B HCF40163B HEF40163 TC40163B MC140174B MC14174 CD40174B F40174B	
CD22212E	AMD	AM93L422 AM93L422A CY93L422 CY93L422A		CD4008B	SGS-Thomson Signetics Toshiba Motorola National	HCC4007 HCF4007 HEF4007 TC4007UB MC14008 CD4008 F4008 MM74C83		CD40117B	Waferscale Toshiba Motorola National	HCC40117 HCF40117 TC40177B MC14012 CD4012 F4012		CD40181B	SGS-Thomson Signetics Toshiba Motorola National	HCC40174 HCC40174B HCF40174 HCF40174B HEF40174 TC40174B MC14581 MM74C181	
CD22212E1	SiliconSys	73K212-28IP		CD4009UB	SGS-Thomson Signetics Toshiba Motorola National	HCC4008 HCF4008 HEF4008 TC4008B MC14009 CD4009		CD40118	SGS-Thomson	HCC40118 HCF40118 TC40118 MC14018 CD4018 F4018		CD40182B	Motorola National SGS-Thomson	HCC40181 HCF40181 F4582 MM74C182	
CD22212Q	IDT	DPS9264 L7C185		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4009 HCF4009 HEF4009 TC4009UB MC14010 CD4010		CD40119	SGS-Thomson	HCC40119 HCF40119 TC40119 MC14019 CD4019 F4019		CD40192B	Motorola National SGS-Thomson	HCC40192 HCF40192 TC40192 MC14019 CD4019 F4019	
CD22221	LogicDev	MCM6164		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40120	SGS-Thomson	HCC40120 HCF40120 TC40120 MC14020 CD4020 F4020		CD40193B	Motorola National SGS-Thomson	HCC40193 HCF40193 TC40193 MC14020 CD4020 F4020	
CD22223	Motorola	Saratoga SiliconSys		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40121	SGS-Thomson	HCC40121 HCF40121 TC40121 MC14021 CD4021 F4021		CD40194B	Motorola National SGS-Thomson	HCC40194 HCF40194 TC40194 MC14021 CD4021 F4021	
CD22231	Motorola	73K212-28IH		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40122	SGS-Thomson	HCC40122 HCF40122 TC40122 MC14022 CD4022 F4022		CD40195B	Motorola National SGS-Thomson	HCC40195 HCF40195 TC40195 MC14022 CD4022 F4022	
CD22233	National	DS55470 F100175		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40123	SGS-Thomson	HCC40123 HCF40123 TC40123 MC14023 CD4023 F4023		CD40196B	Motorola National SGS-Thomson	HCC40196 HCF40196 TC40196 MC14023 CD4023 F4023	
CD22235	Exar	XRT5600		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40124	SGS-Thomson	HCC40124 HCF40124 TC40124 MC14024 CD4024 F4024		CD40197B	Motorola National SGS-Thomson	HCC40197 HCF40197 TC40197 MC14024 CD4024 F4024	
CD22235A	STC	TEL5221		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40125	SGS-Thomson	HCC40125 HCF40125 TC40125 MC14025 CD4025 F4025		CD40198B	Motorola National SGS-Thomson	HCC40198 HCF40198 TC40198 MC14025 CD4025 F4025	
CD22235A	Fujitsu Harris	MB6041 CA3054 CD22354A		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40126	SGS-Thomson	HCC40126 HCF40126 TC40126 MC14026 CD4026 F4026		CD40199B	Motorola National SGS-Thomson	HCC40199 HCF40199 TC40199 MC14026 CD4026 F4026	
CD22235A	Intel	2916		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40127	SGS-Thomson	HCC40127 HCF40127 TC40127 MC14027 CD4027 F4027		CD40200B	Motorola National SGS-Thomson	HCC40200 HCF40200 TC40200 MC14027 CD4027 F4027	
CD22235A	Motorola	CA3054		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40128	SGS-Thomson	HCC40128 HCF40128 TC40128 MC14028 CD4028 F4028		CD40201B	Motorola National SGS-Thomson	HCC40201 HCF40201 TC40201 MC14028 CD4028 F4028	
CD22235A	National	TP3054		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40129	SGS-Thomson	HCC40129 HCF40129 TC40129 MC14029 CD4029 F4029		CD40202B	Motorola National SGS-Thomson	HCC40202 HCF40202 TC40202 MC14029 CD4029 F4029	
CD22235A	Samsung	KT8554		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40130	SGS-Thomson	HCC40130 HCF40130 TC40130 MC14030 CD4030 F4030		CD40203B	Motorola National SGS-Thomson	HCC40203 HCF40203 TC40203 MC14030 CD4030 F4030	
CD22235A	SGS-Thomson	ETC5054		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40131	SGS-Thomson	HCC40131 HCF40131 TC40131 MC14031 CD4031 F4031		CD40204B	Motorola National SGS-Thomson	HCC40204 HCF40204 TC40204 MC14031 CD4031 F4031	
CD22235A	Fujitsu	MB6041		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40132	SGS-Thomson	HCC40132 HCF40132 TC40132 MC14032 CD4032 F4032		CD40205B	Motorola National SGS-Thomson	HCC40205 HCF40205 TC40205 MC14032 CD4032 F4032	
CD22235A	Harris	CA3054		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40133	SGS-Thomson	HCC40133 HCF40133 TC40133 MC14033 CD4033 F4033		CD40206B	Motorola National SGS-Thomson	HCC40206 HCF40206 TC40206 MC14033 CD4033 F4033	
CD22235A	Intel	2916		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40134	SGS-Thomson	HCC40134 HCF40134 TC40134 MC14034 CD4034 F4034		CD40207B	Motorola National SGS-Thomson	HCC40207 HCF40207 TC40207 MC14034 CD4034 F4034	
CD22235A	Motorola	CA3054		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40135	SGS-Thomson	HCC40135 HCF40135 TC40135 MC14035 CD4035 F4035		CD40208B	Motorola National SGS-Thomson	HCC40208 HCF40208 TC40208 MC14035 CD4035 F4035	
CD22235A	National	TP3054		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40136	SGS-Thomson	HCC40136 HCF40136 TC40136 MC14036 CD4036 F4036		CD40209B	Motorola National SGS-Thomson	HCC40209 HCF40209 TC40209 MC14036 CD4036 F4036	
CD22235A	Samsung	KT8554		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40137	SGS-Thomson	HCC40137 HCF40137 TC40137 MC14037 CD4037 F4037		CD40210B	Motorola National SGS-Thomson	HCC40210 HCF40210 TC40210 MC14037 CD4037 F4037	
CD22235A	SGS-Thomson	ETC5054		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40138	SGS-Thomson	HCC40138 HCF40138 TC40138 MC14038 CD4038 F4038		CD40211B	Motorola National SGS-Thomson	HCC40211 HCF40211 TC40211 MC14038 CD4038 F4038	
CD22235A	Fujitsu	MB6042		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40139	SGS-Thomson	HCC40139 HCF40139 TC40139 MC14039 CD4039 F4039		CD40212B	Motorola National SGS-Thomson	HCC40212 HCF40212 TC40212 MC14039 CD4039 F4039	
CD22235A	Harris	CD22357A		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40140	SGS-Thomson	HCC40140 HCF40140 TC40140 MC14040 CD4040 F4040		CD40213B	Motorola National SGS-Thomson	HCC40213 HCF40213 TC40213 MC14040 CD4040 F4040	
CD22235A	Intel	2917		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40141	SGS-Thomson	HCC40141 HCF40141 TC40141 MC14041 CD4041 F4041		CD40214B	Motorola National SGS-Thomson	HCC40214 HCF40214 TC40214 MC14041 CD4041 F4041	
CD22235A	Motorola	CA3057		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40142	SGS-Thomson	HCC40142 HCF40142 TC40142 MC14042 CD4042 F4042		CD40215B	Motorola National SGS-Thomson	HCC40215 HCF40215 TC40215 MC14042 CD4042 F4042	
CD22235A	TP3057			CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40143	SGS-Thomson	HCC40143 HCF40143 TC40143 MC14043 CD4043 F4043		CD40216B	Motorola National SGS-Thomson	HCC40216 HCF40216 TC40216 MC14043 CD4043 F4043	
CD22235A	TP3057			CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40144	SGS-Thomson	HCC40144 HCF40144 TC40144 MC14044 CD4044 F4044		CD40217B	Motorola National SGS-Thomson	HCC40217 HCF40217 TC40217 MC14044 CD4044 F4044	
CD22235A	KT8557			CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40145	SGS-Thomson	HCC40145 HCF40145 TC40145 MC14045 CD4045 F4045		CD40218B	Motorola National SGS-Thomson	HCC40218 HCF40218 TC40218 MC14045 CD4045 F4045	
CD22235A	SGS-Thomson	ETC5057		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40146	SGS-Thomson	HCC40146 HCF40146 TC40146 MC14046 CD4046 F4046		CD40219B	Motorola National SGS-Thomson	HCC40219 HCF40219 TC40219 MC14046 CD4046 F4046	
CD22235A	Sierra	SC11302		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40147	SGS-Thomson	HCC40147 HCF40147 TC40147 MC14047 CD4047 F4047		CD40220B	Motorola National SGS-Thomson	HCC40220 HCF40220 TC40220 MC14047 CD4047 F4047	
CD22235A	Motorola	MC14000		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40148	SGS-Thomson	HCC40148 HCF40148 TC40148 MC14048 CD4048 F4048		CD40221B	Motorola National SGS-Thomson	HCC40221 HCF40221 TC40221 MC14048 CD4048 F4048	
CD22235A	National	CD4000B		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40149	SGS-Thomson	HCC40149 HCF40149 TC40149 MC14049 CD4049 F4049		CD40222B	Motorola National SGS-Thomson	HCC40222 HCF40222 TC40222 MC14049 CD4049 F4049	
CD22235A	SGS-Thomson	HCC4000		CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40150	SGS-Thomson	HCC40150 HCF40150 TC40150 MC14050 CD4050 F4050		CD40223B	Motorola National SGS-Thomson	HCC40223 HCF40223 TC40223 MC14050 CD4050 F4050	
CD22235A	HCC4000B			CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40151	SGS-Thomson	HCC40151 HCF40151 TC40151 MC14051 CD4051 F4051		CD40224B	Motorola National SGS-Thomson	HCC40224 HCF40224 TC40224 MC14051 CD4051 F4051	
CD22235A	HCF4000			CD4010B	SGS-Thomson Signetics Toshiba Motorola National	HCC4010 HCF4010 HEF4010 TC4010B MC14531 F4531		CD40152	SGS-Thomson	HCC40					

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Harris Semiconductor (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
CD40194B	SGS-Thomson	(Cont'd)		CD4029B	SGS-Thomson	HCC40192 HCC4029 HCF40192 HCF4029		CD4045	Signetics Toshiba	HEF4521 TC4521B		CD4063B	Toshiba	TC4063B	(Cont'd)
		HCC40194B HCF40194 HCF40194B			Signetics	HEF40192		CD4046B	Motorola	MC14046		CD4066B	Cherry Semi	CS101A	
	Signetics	HEF40194			Toshiba	TC40192B			National	CD4046 F4046			National	LM4250	
CD4020B	Toshiba	TC40194B		CD4030B	National	CD4029B CD4030 F4030			SGS-Thomson	HCC4046 HCF4046			SiliconSys	SSI32H101A	(3646)
	Motorola	MC14020			SGS-Thomson	HCC4030 HCF4030		CD4047B	National	CD4047 F4047		CD4067	Solitron	UC4250	
	National	CD4020 F4020		CD4031B	Signetics	HEF4030			SGS-Thomson	HCC4047 HCF4047			VTC	VM101	
	SGS-Thomson	HCC4020 HCF4020			Toshiba	TC4030B		CD4048B	National	CD4048		CD4067	Motorola	MC14067	
	Signetics	HEF4020			National	CD4031 F4031			SGS-Thomson	HCC4048 HCF4048		CD4068B	National	F4067	
CD4021B	Toshiba	TC4020B			SGS-Thomson	HCC4031 HCF4031			Signetics	HEF4047			SGS-Thomson	HCC4067 HCF4067	
	Motorola	MC14021			Signetics	HEF4731		CD4049UB	Motorola	MC14049			Signetics	HEF4067	
	National	CD4021 F4021		CD4032B	Motorola	MC14032			National	CD4049 F4049			Motorola	MC14068	
	SGS-Thomson	HCC4021 HCF4021			SGS-Thomson	HCC4032 HCF4032			OKI	MSM4049			National	F4068	
	Signetics	HEF4021			Toshiba	TC4032B			SGS-Thomson	HCC4049 HCF4049			SGS-Thomson	HCC4068 HCF4068	
CD4022B	Toshiba	TC4021B		CD4033B	SGS-Thomson	HCC4033 HCF4033		CD4050B	Signetics	HEF4049			OKI	MM54C04	
	Motorola	MC14022			SGS-Thomson	HCC4034 HCF4034			Toshiba	TC4049B			SGS-Thomson	MM74C04	
	National	CD4022 F4022			Motorola	MC14034			Motorola	MC14050				MM54C09	
	SGS-Thomson	HCC4022 HCF4022		CD4034B	National	CD4034 F4034			National	CD4050 F4050					
	Signetics	HEF4022			SGS-Thomson	HCC4034 HCF4034			SGS-Thomson	HCC4050 HCF4050		CD4070B	Signetics	HEF4069	
CD4023B	Toshiba	TC4022B			SGS-Thomson	HCC4034 HCF4034			Signetics	HEF4050			Motorola	TC4069UB	
	Motorola	MC14023			Toshiba	TC4034B		CD4051B	Toshiba	TC4050B			National	MC14070	
	National	CD4023 F4023		CD4035B	Motorola	MC14035			Motorola	MC14051				CD4070	
	SGS-Thomson	MM74C10			National	CD4035B F4035			National	CD4051 F4051				MM74C86	
	Signetics	HCC4023 HCF4023			SGS-Thomson	HCC4035 HCF4035			SGS-Thomson	HCC4051 HCF4051		CD4071B	SGS-Thomson	HCC4070 HCF4070	
	Signetics	HEF4023			Signetics	HEF4035			Signetics	HEF4051			Motorola	HEF4070	
CD4024B	Toshiba	TC4023B			Toshiba	TC4035B		CD4052B	Toshiba	TC4051B			National	MC14071B	
	Motorola	MC14024		CD4038B	Motorola	MC14038			National	CD4052				CD4071B	
	National	CD4024 F4024			SGS-Thomson	HCC4038 HCF4038			SGS-Thomson	CD4052B F4052			OKI	F4071	
	SGS-Thomson	HCC4024 HCF4024			Toshiba	TC4038B			SGS-Thomson	HCC4052 HCF4052			SGS-Thomson	MM74C32	
	Signetics	HEF4024		CD4040B	Motorola	MC14040			Signetics	HEF4052				MSM4071	
	Toshiba	TC4024B			National	CD4040 F4040		CD4053B	Motorola	MC14053					
	Motorola	MC14025			SGS-Thomson	HCC4040 HCF4040			National	CD4053 F4053		CD4072B	Signetics	HEF4071	
	National	CD4025 F4025			Signetics	HEF4040			SGS-Thomson	HCC4053 HCF4053			Toshiba	TC4071B	
	SGS-Thomson	HCC4025 HCF4025			Toshiba	TC4040B			Signetics	HEF4053			AD	DAC08	
	Signetics	HEF4025		CD4041UB	National	CD4041			Toshiba	TC4053B			Fujitsu	MB4072	
	Toshiba	TC4025B			SGS-Thomson	HCC4041 HCF4041		CD4054B	SGS-Thomson	HCC4054 HCF4054			Motorola	MC14072	
CD4026	SGS-Thomson	HCC/HCF4026			Signetics	HEF4041			Toshiba	TC4054B			National	CD4072	
				CD4042B	Motorola	MC14042			SGS-Thomson	HCC4055 HCF4055		CD4073B	Signetics	HCC4072	
	Motorola	MC14027B			National	CD4042 F4042			SGS-Thomson	HCC4055B HCF4055B			Toshiba	HEF4072	
	National	CD4027 F4027			SGS-Thomson	HCC4042 HCF4042		CD4056B	Toshiba	ML4056			Motorola	TC4072B	
	OKI	MM74C76			Signetics	HEF4042			Lansdale	ML4056			National	MC14073	
	SGS-Thomson	MSM4027			Toshiba	TC4042B			SGS-Thomson	HCC4056 HCC4056B				F4073	
				CD4043B	Motorola	MC14043			SGS-Thomson	HCF4056 HCF4056B		CD4075B	Signetics	HCC4073	
		HCC4027 HCC4027B			National	CD4043			Toshiba	TC4056B			Toshiba	TC4073B	
		HCF4027 HCF4027B			SGS-Thomson	HCC4043 HCF4043		CD4057	Harris	CD40181B			Motorola	MC14075	
	Signetics	HEF4027			Signetics	HEF4043			Motorola	MC14581			National	F4075	
CD4028B	Toshiba	TC4027B			Toshiba	TC4043B			National	MM74C181			SGS-Thomson	HCC4075	
	Motorola	MC14028		CD4044B	Motorola	MC14044			SGS-Thomson	HCC40181 HCF40181				HCF4075	
	National	CD4028 F4028			National	MC4044		CD4059	Motorola	MC14569		CD4076B	Signetics	HEF4075	
	OKI	MM74C42			SGS-Thomson	HCC4044 HCF4044			Signetics	HEF4059			Motorola	TC4075B	
	SGS-Thomson	MSM4028			Signetics	HEF4044		CD4060B	Motorola	MC14060			National	MC14076	
					SGS-Thomson	HCC4044 HCF4044			National	CD4060				CD4076	
	Signetics	HEF4028			Signetics	HEF4044			SGS-Thomson	HCC4060 HCF4060			SGS-Thomson	MM54C173	
CD4029B	Toshiba	TC4028B			Toshiba	TC4044B			Signetics	HEF4060				MM74C173	
	Harris	CD40192B			Harris	CD4521B		CD4063B	Fujitsu	MB4063			Signetics	HCC4076	
	Motorola	MC14029			Motorola	MC14521			Motorola	MC14443			Toshiba	HCF4076	
	National	CD40192 CD4029 F40192 F4029			National	F4521			National	μA9708		CD4077B	Motorola	TC4076B	
					SGS-Thomson	HCC4045 HCF4045			SGS-Thomson	HCC4063 HCF4063			National	MC14077B	
														CD4077 F4077	

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Harris Semiconductor (Cont'd)				CD4099B		(Cont'd)		CD4519	Harris	CD4519B		CD4724	National	CD4724	
CD4077B	SGS-Thomson	HCC4077			National	CD4099B			Motorola	MC14519B			SGS-Thomson	HCC4724	
		HCC4077B			SGS-Thomson	HCC4099B		CD4519	National	CD4519B		CD54AC158	Gould AMI	HCF4724	
		HCF4077				HCF4099				CD4519B			ICT	PEEL20CG10	
		HCF4077B			Toshiba	TC4099B		CD4519	Signetics	HEF4519			National	GAL20V8	(3442)
CD4078B	Motorola	MC14078		CD4502B	Motorola	MC14502B		CD4519B	Toshiba	TC4519B				54AC158	
	National	F4078				MC14502B			Motorola	MC14519B			Samsung	CPL20V8	
	SGS-Thomson	HCC4078			SGS-Thomson	HCC4502			National	CD4519			SGS-Thomson	GAL20V8	
		HCF4078				HCC4502B		CD4520B	Signetics	HEF4519		CD54HCT03	Motorola	MC54HCT03	
		HEF4078				HCF4502			Toshiba	TC4519B		CD54HCT04	National	MM54HCT04	
		TC4078B				HCF4502B			Motorola	MC14520			TI	SN54HCT04	
CD4081B	Motorola	MC14081			Signetics	MK4502		CD4520B	Motorola	CD4520		CD54HCT08	National	MM54HCT08	
	National	CD4081		CD4503B	Toshiba	TC4502B			OKI	MSM4520		CD54HCT112	National	MM54HCT112	
		F4081			Motorola	MC14503			SGS-Thomson	HCC4520		CD54HCT125	Motorola	MC54HCT125	
	OKI	MM74C08			National	CD4503				HCF4520		CD54HCT126	Motorola	MC54HCT126	
	SGS-Thomson	MSM4081				F40097B		CD4521B	Signetics	HEF4520		CD54HCT137	Marconi	54HCT137	
		HCC4081			SGS-Thomson	HCF4503			Toshiba	TC4520B			TI	SN54HCT137	
		HCF4081		CD4504B	Toshiba	TC4503B			Motorola	MC14521		CD54HCT138	Marconi	54HCT138	
		HEF4081			Motorola	MC14504B			National	F4521			Motorola	MC54HCT138	
		TC4081B		CD4508B	Motorola	MC14508			SGS-Thomson	HCC4045			National	MM54HCT138	
CD4082B	Motorola	MC14082			SGS-Thomson	HCC/HCF4508				HCF4045		CD54HCT139	Marconi	54HCT139	
	National	CD4082				HCC4508		CD4522	Signetics	HEF4521		CD54HCT151	National	MM54HCT139	
	SGS-Thomson	F4082				HCF4508			Toshiba	TC4521B		CD54HCT151	National	MM54HCT153	
		HCC4082		CD4510B	Signetics	HEF4508		CD4522	Motorola	MC14522B		CD54HCT157	Motorola	MM54HCT157	
		HCF4082			Toshiba	TC4508B			National	CD4522		CD54HCT158	National	MM54HCT158	
		HEF4082			Motorola	MC14510		CD4522		F4522		CD54HCT164	Motorola	MM54HCT164	
CD4085B	SGS-Thomson	TC4082B			National	F4510		CD4522B	Toshiba	TC4522B		CD54HCT190	National	MM54HCT190	
		HCC4085			SGS-Thomson	HCC4510			Motorola	MC14522B		CD54HCT191	National	MM54HCT191	
		HCF4085				HCF4510		CD4522B	National	CD4522		CD54HCT193	National	MM54HCT193	
		HCF4085B		CD4511B	Signetics	HEF4510				F4522		CD54HCT237	Marconi	54HCT237	
		HCF4085B			Toshiba	TC4510B		CD4522B	Toshiba	TC4522B			TI	SN54HCT237	
		HEF4085			Motorola	MC14511		CD4527B	Motorola	MC14527		CD54HCT238	Marconi	54HCT238	
CD4086B	Motorola	MC14506			National	CD4511			National	CD4527		CD54HCT240	TI	SN54HCT238	
	SGS-Thomson	HCC4086			NEC	F4511				F4527			Marconi	54HCT240	
		HCC4086B			SGS-Thomson	μPD4511			SGS-Thomson	HCC4527			Micrel	MC54HCT240	
		HCF4086		CD4512B		HCC4511				HCF4527			Motorola	MC54HCT240	
		HCF4086B				HCF4511		CD4529B	Signetics	HEF4527		CD54HCT241	National	MM54HCT240	
		TC4086B			Signetics	HEF4511			Toshiba	TC4527B			TI	SN54HCT240	
		HEF4086B			Toshiba	TC4511B		CD4532B	Motorola	MC14529		CD54HCT241	Marconi	54HCT241	
CD4089B	Motorola	MC14089			Motorola	MC14512			National	CD4529			Micrel	MC54HCT241	
	National	CD4089			National	CD4512			Motorola	MC14532				MIC54HCT241	
	SGS-Thomson	HCC4089			SGS-Thomson	F4512			National	F4532		CD54HCT241	Motorola	MM54HCT241	
		HCF4089		CD4514B		HCC4512			SGS-Thomson	HCC4532			National	SN54HCT241	
		MC14093				HCF4512		CD4541B		HCF4532		CD54HCT244	Marconi	54HCT244	
		MC14093B			Toshiba	TC4512B			Signetics	HEF4532			Micrel	MIC54HCT244	
		F4093B			Motorola	MC14514		CD4536B	Toshiba	TC4532B			Motorola	MC54HCT244	
	SGS-Thomson	HCC4093			National	F4514			Motorola	MC14536			National	MM54HCT244	
		HCC4093B			SGS-Thomson	HCC4514			SGS-Thomson	HCC4536		CD54HCT245	Marconi	SN54HCT244	
		HCF4093				HCF4514		CD4543B		HCF4536			Motorola	MC54HCT245	
		HCF4093B			Signetics	HEF4514			Motorola	MC14541			National	SN54HCT245	
CD4094B	Motorola	MC14094		CD4515B	Toshiba	TC4514B			Signetics	HEF4591		CD54HCT251	TI	MM54HCT251	
		MC14094B			Motorola	MC14515		CD4543B	Motorola	MC14543B		CD54HCT253	National	MM54HCT253	
	National	CD4094B			National	CD4515				CD4543		CD54HCT257	National	MM54HCT257	
	SGS-Thomson	HCC4094				F4515			National	F4543		CD54HCT258	Motorola	MM54HCT258	
		HCF4094			SGS-Thomson	HCC4515		CD4555B	Signetics	HEF4543		CD54HCT273	National	MM54HCT273	
		HEF4094				HCF4515			Toshiba	TC4543B		CD54HCT299	National	MM54HCT299	
		TC4094B				TC4515B			Motorola	MC14555		CD54HCT32	Marconi	MM54HCT32	
		MC14097		CD4516B	Motorola	MC14516			National	F4555		CD54HCT373	Micrel	54HCT373	
		F4097				CD4516		CD4556B	SGS-Thomson	HCC4555			Motorola	MIC54HCT373	
	SGS-Thomson	HCC4097				F4516				HCF4555		CD54HCT374	Marconi	SN54HCT373	
		HCF4097			Signetics	HEF4516			Signetics	HEF4555B			TI	54HCT374	
		MC14528			Toshiba	TC4516B			Toshiba	TC4555B			Micrel	MIC54HCT374	
		CD4528		CD4517B	Motorola	MC14517			Motorola	MC14556		CD54HCT374	Marconi	MIC54HCT374	
		F4528			National	CD4517			National	F4556			National	MM54HCT374	
		MM74C221			SGS-Thomson	HCC4517		CD4560B	Signetics	HEF4556		CD54HCT533	Marconi	54HCT533	
	SGS-Thomson	HCC4098				HCF4517			Toshiba	TC4556B			Motorola	MM54HCT533	
		HCF4098				HEF4517		CD4566B	Motorola	MC14566B		CD54HCT534	Marconi	54HCT534	
		TC4528B		CD4518B	Motorola	MC14518			Motorola	MC14572UB			Motorola	MM54HCT534	
		HEF4528			National	CD4518		CD4572UB	Motorola	MC14585		CD54HCT540	National	MM54HCT534	
		TC4528B				F4518		CD4585B	National	F40085			Marconi	MC54HCT540	
		MC14099			SGS-Thomson	HCC4518				MM74C85			Motorola	MC54HCT540	
		MC14099B				HCF4518			SGS-Thomson	HCC4585		CD54HCT541	National	SN54HCT540	
						HEF4518				HCF4585			TI	54HCT541	
					Signetics	TC4518B			Signetics	HEF4585			Motorola	MC54HCT541	
					Toshiba				Toshiba	TC4585B					

* Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Harris Semiconductor (Cont'd)				CD54HC158	Motorola National	MC54HC158 MM54HC158 SN54HC158		CD54HC258	Signetics TI	74HC258 SN54HC258		CD54HC423	Harris Motorola	CD74HC4516 MC54HC423	
CD54HCT541	National	MM54HCT541 SN54HCT541	(Cont'd)	CD54HC160	Motorola National	MC54HC160 MM54HC160 SN54HC160		CD54HC259	Motorola National	MM54HC259		CD54HC431	Motorola National	MC54HC4351 MM54HC4351	
CD54HCT563	Marconi National	54HCT563 MM54HCT563		CD54HC161	Motorola National	MC54HC161 MM54HC161 SN54HC161		CD54HC27	Motorola National	MC54HC27 MM54HC27 SN54HC27		CD54HC432	Motorola National	MC54HC4352 MM54HC4352	
CD54HCT564	Marconi National	54HCT564 MM54HCT564		CD54HC162	Motorola National	MC54HC162 MM54HC162 SN54HC162		CD54HC273	Marconi Motorola	54HC273 MC54HC273		CD54HC4353	Motorola National	MC54HC4353 MM54HC4353	
CD54HCT573	Marconi National	54HCT573 MM54HCT573		CD54HC163	Motorola National	MC54HC163 MM54HC163 SN54HC163		CD54HC280	Motorola National	MC54HC280 MM54HC280 SN54HC280		CD54HC4511	Motorola National	MC54HC4511 MM54HC4511	
CD54HCT574	Marconi National	54HCT574 MM54HCT574		CD54HC164	Motorola National	MC54HC164 MM54HC164 SN54HC164		CD54HC283	Motorola National	MC54HC283 MM54HC283 SN54HC283		CD54HC4514	Motorola National	MC54HC4514 MM54HC4514	
CD54HCT640	Motorola National	MC54HCT640 MM54HCT640		CD54HC165	Motorola National	MC54HC165 MM54HC165 SN54HC165		CD54HC299	Motorola National	MC54HC299 MM54HC299 SN54HC299		CD54HC4520	Motorola National	MC54HC4520 MM54HC4520	
CD54HCT643	Motorola National	MC54HCT643 MM54HCT643		CD54HC166	Motorola National	MC54HC166 MM54HC166 SN54HC166		CD54HC30	Motorola National	MC54HC30 MM54HC30 SN54HC30		CD54HC4538	Motorola National	MC54HC4538 MM54HC4538	
CD54HCT688	Motorola National	MC54HCT688 MM54HCT688		CD54HC173	Motorola National	MC54HC173 MM54HC173 SN54HC173		CD54HC32	Motorola National	MC54HC32 MM54HC32 SN54HC32		CD54HC533	Motorola National	MC54HC533 MM54HC533	
CD54HCT74	Motorola National	MC54HCT74 MM54HCT74		CD54HC174	Motorola National	MC54HC174 MM54HC174 SN54HC174		CD54HC328	Motorola National	MC54HC328 MM54HC328 SN54HC328		CD54HC534	Motorola National	MC54HC534 MM54HC534	
CD54HCU04	Motorola National	MC54HCU04 MM54HCU04		CD54HC175	Motorola National	MC54HC175 MM54HC175 SN54HC175		CD54HC354	Motorola National	MC54HC354 MM54HC354 SN54HC354		CD54HC540	Motorola National	MC54HC540 MM54HC540	
CD54HC00	Motorola National	MC54HC00 MM54HC00 SN54HC00		CD54HC181	Motorola National	MC54HC181 MM54HC181 SN54HC181		CD54HC356	Motorola National	MC54HC356 MM54HC356 SN54HC356		CD54HC541	Motorola National	MC54HC541 MM54HC541	
CD54HC02	Motorola National	MC54HC02 MM54HC02 SN54HC02		CD54HC182	Motorola National	MC54HC182 MM54HC182 SN54HC182		CD54HC365	Motorola National	MC54HC365 MM54HC365 SN54HC365		CD54HC563	Motorola National	MC54HC563 MM54HC563	
CD54HC03	Motorola National	MC54HC03 MM54HC03 SN54HC03		CD54HC190	Motorola National	MC54HC190 MM54HC190 SN54HC190		CD54HC366	Motorola National	MC54HC366 MM54HC366 SN54HC366		CD54HC564	Motorola National	MC54HC564 MM54HC564	
CD54HC04	Motorola National	MC54HC04 MM54HC04 SN54HC04		CD54HC191	Motorola National	MC54HC191 MM54HC191 SN54HC191		CD54HC367	Motorola National	MC54HC367 MM54HC367 SN54HC367		CD54HC573	Motorola National	MC54HC573 MM54HC573	
CD54HC08	Motorola National	MC54HC08 MM54HC08 SN54HC08		CD54HC192	Motorola National	MC54HC192 MM54HC192 SN54HC192		CD54HC368	Motorola National	MC54HC368 MM54HC368 SN54HC368		CD54HC574	Motorola National	MC54HC574 MM54HC574	
CD54HC10	Motorola National	MC54HC10 MM54HC10 SN54HC10		CD54HC193	Motorola National	MC54HC193 MM54HC193 SN54HC193		CD54HC373	Motorola National	MC54HC373 MM54HC373 SN54HC373		CD54HC597	Harris Motorola	CD74HC7038 MC54HC597	
CD54HC107	Motorola National	MC54HC107 MM54HC107 SN54HC107		CD54HC194	Motorola National	MC54HC194 MM54HC194 SN54HC194		CD54HC374	Motorola National	MC54HC374 MM54HC374 SN54HC374		CD54HC640	Motorola National	MC54HC640 MM54HC640	
CD54HC109	Motorola National	MC54HC109 MM54HC109 SN54HC109		CD54HC195	Motorola National	MC54HC195 MM54HC195 SN54HC195		CD54HC377	Motorola National	MC54HC377 MM54HC377 SN54HC377		CD54HC643	Motorola National	MC54HC643 MM54HC643	
CD54HC11	Motorola National	MC54HC11 MM54HC11 SN54HC11		CD54HC20	Motorola National	MC54HC20 MM54HC20 SN54HC20		CD54HC390	Motorola National	MC54HC390 MM54HC390 SN54HC390		CD54HC646	Motorola National	MC54HC646 MM54HC646	
CD54HC112	Motorola National	MC54HC112 MM54HC112 SN54HC112		CD54HC21	Motorola National	MC54HC21 MM54HC21 SN54HC21		CD54HC393	Motorola National	MC54HC393 MM54HC393 SN54HC393		CD54HC648	Motorola National	MC54HC648 MM54HC648	
CD54HC123	Motorola National	MC54HC123 MM54HC123 SN54HC123		CD54HC221	Motorola National	MC54HC221 MM54HC221 SN54HC221		CD54HC4002	Motorola National	MC54HC4002 MM54HC4002 SN54HC4002		CD54HC688	Motorola National	MC54HC688 MM54HC688	
CD54HC125	Motorola National	MC54HC125 MM54HC125 SN54HC125		CD54HC237	Motorola National	MC54HC237 MM54HC237 SN54HC237		CD54HC4015	Harris Signetics	CD74HC7046A 74HC7046A		CD54HC73	Motorola National	MC54HC73 MM54HC73	
CD54HC126	Motorola National	MC54HC126 MM54HC126 SN54HC126		CD54HC238	Motorola National	MC54HC238 MM54HC238 SN54HC238		CD54HC4016	Motorola National	MC54HC4016 MM54HC4016 SN54HC4016		CD54HC74	Motorola National	MC54HC74 MM54HC74	
CD54HC132	Motorola National	MC54HC132 MM54HC132 SN54HC132		CD54HC241	Motorola National	MC54HC241 MM54HC241 SN54HC241		CD54HC4017	Motorola National	MC54HC4017 MM54HC4017 SN54HC4017		CD54HC75	Motorola National	MC54HC75 MM54HC75	
CD54HC137	Motorola National	MC54HC137 MM54HC137 SN54HC137		CD54HC242	Motorola National	MC54HC242 MM54HC242 SN54HC242		CD54HC4020	Motorola National	MC54HC4020 MM54HC4020 SN54HC4020		CD54HC85	Motorola National	MC54HC85 MM54HC85	
CD54HC138	Motorola National	MC54HC138 MM54HC138 SN54HC138		CD54HC243	Motorola National	MC54HC243 MM54HC243 SN54HC243		CD54HC4024	Motorola National	MC54HC4024 MM54HC4024 SN54HC4024		CD54HC86	Motorola National	MC54HC86 MM54HC86	
CD54HC139	Motorola National	MC54HC139 MM54HC139 SN54HC139		CD54HC244	Motorola National	MC54HC244 MM54HC244 SN54HC244		CD54HC4040	Motorola National	MC54HC4040 MM54HC4040 SN54HC4040		CD54HC86	Motorola National	MC54HC86 MM54HC86	
CD54HC14	Motorola National	MC54HC14 MM54HC14 SN54HC14		CD54HC245	Motorola National	MC54HC245 MM54HC245 SN54HC245		CD54HC4046A	Motorola National	MC54HC4046 MM54HC4046 SN54HC4046		CD54HC86	Motorola National	MC54HC86 MM54HC86	
CD54HC147	Motorola National	MC54HC147 MM54HC147 SN54HC147		CD54HC251	Motorola National	MC54HC251 MM54HC251 SN54HC251		CD54HC4049	Motorola National	MC54HC4049 MM54HC4049 SN54HC4049		CD54HC86	Motorola National	MC54HC86 MM54HC86	
CD54HC151	Motorola National	MC54HC151 MM54HC151 SN54HC151		CD54HC253	Motorola National	MC54HC253 MM54HC253 SN54HC253		CD54HC4050	Motorola National	MC54HC4050 MM54HC4050 SN54HC4050		CD54HC86	Motorola National	MC54HC86 MM54HC86	
CD54HC153	Motorola National	MC54HC153 MM54HC153 SN54HC153		CD54HC257	Motorola National	MC54HC257 MM54HC257 SN54HC257		CD54HC4051	Motorola National	MC54HC4051 MM54HC4051 SN54HC4051		CD54HC86	Motorola National	MC54HC86 MM54HC86	
CD54HC154	Motorola National	MC54HC154 MM54HC154 SN54HC154						CD54HC4052	Motorola National	MC54HC4052 MM54HC4052 SN54HC4052		CD54HC86	Motorola National	MC54HC86 MM54HC86	
CD54HC157	Motorola National	MC54HC157 MM54HC157 SN54HC157						CD54HC4053	Motorola National	MC54HC4053 MM54HC4053 SN54HC4053		CD54HC86	Motorola National	MC54HC86 MM54HC86	
								CD54HC4056	Motorola National	MC54HC4056 MM54HC4056 SN54HC4056		CD54HC86	Motorola National	MC54HC86 MM54HC86	
								CD54HC4066	Motorola National	MC54HC4066 MM54HC4066 SN54HC4066		CD54HC86	Motorola National	MC54HC86 MM54HC86	
								CD54HC4075	Motorola National	MC54HC4075 MM54HC4075 SN54HC4075		CD54HC86	Motorola National	MC54HC86 MM54HC86	
								CD54HC42	Motorola National	MC54HC42 MM54HC42 SN54HC42		CD54HC86	Motorola National	MC54HC86 MM54HC86	

• Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Harris Semiconductor (Cont'd)				CD74HC00	Hitachi	HD74HC00		CD74HC123	Signetics	74HC123	(Cont'd)	CD74HC154	National	MM74HC154	(Cont'd)
CD74HCT563	Marconi	74HCT563			Motorola	MC74HC00			Toshiba	TC74HC123A	(3674)		SGS-Thomson	M74HC154	
	National	MM74HCT563				MM74HC00		CD74HC125	Hitachi	HD74HC125			Signetics	74HC154	
	Plessey	MV74HCT563							Motorola	MC74HC125			TI	SN74HC154	
	SGS-Thomson								National	MM74HC125			Toshiba	TC74HC154A	(3674)
		M74HCT563		CD74HC02	Signetics	74HC00				M74HC125		CD74HC157	Hitachi	HD74HC157	
	Signetics	74HCT563			TI	SN74HC00				74HC125			Motorola	MC74HC157	
	TI	SN74HCT563			Toshiba	TC74HC00A	(3674)			SN74HC125			National	MM74HC157	
CD74HCT564	Toshiba	TC74HCT563			Hitachi	HD74HC02				TC74HC125A	(3674)		SGS-Thomson	M74HC157	
	Marconi	74HCT564				MC74HC02		CD74HC126	Hitachi	HD74HC126			Signetics	74HC157	
	Motorola	MC74HCT564				MM74HC02			Motorola	MC74HC126			TI	SN74HC157	
	National	MM74HCT564							National	MM74HC126		CD74HC158	Hitachi	HD74HC158	
	Plessey	MV74HCT564											Motorola	MC74HC158	
	SGS-Thomson												National	MM74HC158	
		M74HCT564				M74HC02							SGS-Thomson	M74HC158	
	Signetics	74HCT564				74HC02							Signetics	74HC158	
	TI	SN74HCT564				SN74HC02							TI	SN74HC158	
	Toshiba	TC74HCT564				TC74HC02A	(3674)						Toshiba	TC74HC157A	(3674)
CD74HCT573	Toshiba	TC74HCT573		CD74HC03	Motorola	MC74HC03									
	Marconi	74HCT573				MM74HC03									
	National	MM74HCT573													
	Plessey	MV74HCT573													
	SGS-Thomson														
		M74HCT573				M74HC03									
	Signetics	74HCT573				74HC03									
	TI	SN74HCT573				SN74HC03									
	Toshiba	TC74HCT573				TC74HC03A	(3674)								
CD74HCT574	Marconi	74HCT574		CD74HC04	Toshiba	HD74HC04									
	National	MM74HCT574				MM74HC04									
	Plessey	MV74HCT574													
	SGS-Thomson														
		M74HCT574				M74HC04									
	Signetics	74HCT574				74HC04									
	TI	SN74HCT574				SN74HC04									
	Toshiba	TC74HCT574				TC74HC04A	(3674)								
CD74HCT583	Signetics	74HCT583		CD74HC08	Toshiba	HD74HC08									
CD74HCT597	Signetics	74HCT597				MC74HC08									
CD74HCT640	Motorola	MC74HCT640				MM74HC08									
	SGS-Thomson														
		M74HCT640				M74HC08									
	Signetics	74HCT640				74HC08									
	TI	SN74HCT640				SN74HC08									
	Toshiba	TC74HCT640A	(3674)			TC74HC08A	(3674)								
CD74HCT643	SGS-Thomson			CD74HC10	Hitachi	HD74HC10									
		M74HCT643				MM74HC10									
	Signetics	74HCT643													
	TI	SN74HCT643				M74HC10									
	Toshiba	TC74HCT643A	(3674)			74HC10									
CD74HCT646	SGS-Thomson					SN74HC10									
		M74HCT646				TC74HC10A	(3674)								
	Signetics	74HCT646				74HC10									
	TI	SN74HCT646				SN74HC10									
	Toshiba	TC74HCT646A	(3674)			TC74HC10A	(3674)								
CD74HCT648	SGS-Thomson			CD74HC107	Hitachi	HD74HC107									
		M74HCT648				MC74HC107									
	Signetics	74HCT648				MM74HC107									
	TI	SN74HCT648													
	Toshiba	TC74HCT648A	(3674)			M74HC107									
CD74HCT651	SGS-Thomson					74HC107									
		M74HCT651				SN74HC107									
	Signetics	74HCT651				TC74HC107A	(3674)								
	TI	SN74HCT651													
	Toshiba	TC74HCT651A	(3674)			M74HC109									
CD74HCT652	SGS-Thomson			CD74HC109	Hitachi	HD74HC109									
		M74HCT652				MC74HC109									
	Signetics	74HCT652				MM74HC109									
	TI	SN74HCT652													
	Toshiba	TC74HCT652A	(3674)			M74HC109									
CD74HCT670	Signetics	74HCT670				74HC109									
CD74HCT688	National	MM74HCT688				SN74HC109									
	Signetics	74HCT688				TC74HC109A	(3674)								
	Toshiba	TC74HCT688A	(3674)												
CD74HCT7030	Signetics	74HCT7030													
CD74HCT7038	Signetics	74HCT7038													
CD74HCT7046A	Signetics	74HCT7046													
CD74HCT73	Signetics	74HCT73													
CD74HCT74	National	MM74HCT74													
CD74HCT75	Signetics	74HCT75													
CD74HCT85	Signetics	74HCT85													
CD74HCT86	Signetics	74HCT86													
CD74HCT93	Signetics	74HCT93													
CD74HCU04	Motorola	MC74HCU04													
	National	MM74HCU04													
	SGS-Thomson														
		M74HCU04													
	Signetics	74HCU04													
	TI	SN74HCU04													
	Toshiba	TC74HCU04A	(3674)												
			(Continued)												

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ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Harris Semiconductor (Cont'd)				CD74HC21	Hitachi	HD74HC21		CD74HC253		(Cont'd)		CD74HC32	Hitachi	HD74HC32	
CD74HC173		(Cont'd)		Motorola	MC74HC21			National	MM74HC253			Motorola	MC74HC32		
	TI	SN74HC173		SGS-Thomson	M74HC21			SGS-Thomson	M74HC253			National	MM74HC32		
	Toshiba	TC74HC173A	(3674)		Signetics	74HC21			Signetics	74HC253			SGS-Thomson	M74HC32	
CD74HC174	Hitachi	HD74HC174		CD74HC221	TI	SN74HC21			TI	SN74HC253			Signetics	74HC32	
	Motorola	MC74HC174			Toshiba	TC74HC21A	(3674)		Toshiba	TC74HC253A	(3674)		TI	SN74HC32	
	National	MM74HC174			Hitachi	HD74HC221		CD74HC257	Hitachi	HD74HC257		CD74HC354	Toshiba	TC74HC32A	(3674)
	SGS-Thomson	M74HC174			National	MM74HC221			Motorola	MC74HC257			Motorola	MC74HC354	
		Signetics				MM74HC221A			National	MM74HC257			National	MM74HC354	
		74HC174			SGS-Thomson	M74HC221			SGS-Thomson	M74HC257			SGS-Thomson	M74HC354	
		SN74HC174				74HC221				74HC257				74HC354	
		TC74HC174A	(3674)			TC74HC221A	(3674)			SN74HC257				SN74HC354	
CD74HC175	Hitachi	HD74HC175		CD74HC237	Motorola	MC74HC237		CD74HC258	Hitachi	HD74HC258		CD74HC356	Hitachi	HD74HC356	
	Motorola	MC74HC175			National	MM74HC237			SGS-Thomson	M74HC258			National	MM74HC356	
	National	MM74HC175			SGS-Thomson	M74HC237				M74HC258			SGS-Thomson	M74HC356	
		Signetics				74HC237				74HC258				74HC356	
		74HC175				SN74HC237				SN74HC258				SN74HC356	
		SN74HC175				TC74HC237A	(3674)			TC74HC258A	(3674)			TC74HC356A	(3674)
		TC74HC175A	(3674)	CD74HC238	Motorola	MC74HC238		CD74HC259	Hitachi	HD74HC259		CD74HC365	Hitachi	HD74HC365	
CD74HC181	National	MM74HC181			National	MM74HC238			Motorola	MC74HC259			Motorola	MC74HC365	
	SGS-Thomson	M74HC181			SGS-Thomson	M74HC238			National	MM74HC259			National	MM74HC365	
		Signetics				74HC238				74HC259			SGS-Thomson	M74HC365	
		74HC181				SN74HC238				SN74HC259				74HC365	
		TC74HC181A	(3674)			TC74HC238A	(3674)			TC74HC259A	(3674)			TC74HC365A	(3674)
CD74HC182	National	MM74HC182		CD74HC240	Hitachi	HD74HC240		CD74HC266	National	MM74HC266		CD74HC366	Hitachi	HD74HC366	
	SGS-Thomson	M74HC182			Motorola	MC74HC240			SGS-Thomson	M74HC266			Motorola	MC74HC366	
		74HC182			National	MM74HC240				74HC266			National	MM74HC366	
		TC74HC182A	(3674)		SGS-Thomson	M74HC240				74HC266			SGS-Thomson	M74HC366	
CD74HC190	Hitachi	HD74HC190				74HC240				SN74HC266				74HC366	
	National	MM74HC190				SN74HC240				TC74HC266A				SN74HC366	
	SGS-Thomson	M74HC190				TC74HC240A	(3674)			Hitachi	HD74HC27			SN74HC366	
		74HC190								Motorola	MC74HC27			TC74HC366A	(3674)
		SN74HC190								National	MM74HC27				
		TC74HC190A	(3674)	CD74HC241	Hitachi	HD74HC241				SGS-Thomson	M74HC27				
CD74HC191	Hitachi	HD74HC191			Motorola	MC74HC241					74HC27				
	National	MM74HC191			National	MM74HC241					SN74HC27				
	SGS-Thomson	M74HC191			SGS-Thomson	M74HC241					TC74HC27A	(3674)			
		74HC191				74HC241					Hitachi	HD74HC273			
		SN74HC191				SN74HC241					Marconi	74HC273			
		TC74HC191A	(3674)			TC74HC241A	(3674)				Motorola	MC74HC273			
CD74HC192	Hitachi	HD74HC192		CD74HC242	Hitachi	HD74HC242					National	MM74HC273			
	National	MM74HC192			Motorola	MC74HC242					SGS-Thomson	M74HC273			
	SGS-Thomson	M74HC192			National	MM74HC242						74HC273			
		74HC192				74HC242						SN74HC273			
		SN74HC192				SN74HC242						TC74HC273A	(3674)		
		TC74HC192A	(3674)			TC74HC242									
CD74HC193	Hitachi	HD74HC193		CD74HC243	Hitachi	HD74HC243									
	National	MM74HC193			Motorola	MC74HC243									
	SGS-Thomson	M74HC193			National	MM74HC243									
		74HC193				74HC243									
		SN74HC193				SN74HC243									
		TC74HC193A	(3674)			TC74HC243									
CD74HC194	Hitachi	HD74HC194		CD74HC244	Hitachi	HD74HC244									
	Motorola	MC74HC194			Motorola	MC74HC244									
	National	MM74HC194			National	MM74HC244									
	SGS-Thomson	M74HC194			SGS-Thomson	M74HC244									
		74HC194				74HC244									
		SN74HC194				SN74HC244									
		TC74HC194A	(3674)			TC74HC244A	(3674)								
CD74HC195	Hitachi	HD74HC195		CD74HC245	Hitachi	HD74HC245									
	Motorola	MC74HC195			Motorola	MC74HC245									
	National	MM74HC195			National	MM74HC245									
	SGS-Thomson	M74HC195			SGS-Thomson	M74HC245									
		74HC195				74HC245									
		SN74HC195				SN74HC245									
		TC74HC195A	(3674)			TC74HC245A	(3674)								
CD74HC20	Hitachi	HD74HC20		CD74HC251	Hitachi	HD74HC251									
	Motorola	MC74HC20			Motorola	MC74HC251									
	National	MM74HC20			National	MM74HC251									
	SGS-Thomson	M74HC20			SGS-Thomson	M74HC251									
		74HC20				74HC251									
		SN74HC20				SN74HC251									
		TC74HC20A	(3674)			TC74HC251A	(3674)								
		(Continued)				(Continued)									

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The manufacturers report their devices can be used as direct replacements.
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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Harris Semiconductor (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
CD74HC390	TI Toshiba	SN74HC390 TC74HC390A	(3674)	CD74HC4050	Signetics Toshiba	74HC4050 TC74HC4050A	(3674)	CD74HC4510	National Signetics	MM54HC298 74HC4510		CD74HC541	Signetics TI	74HC541 SN74HC541	(3674)
CD74HC393	Hitachi Motorola National SGS-Thomson	HD74HC393 MC74HC393 MM74HC393		CD74HC4051	Motorola National SGS-Thomson	MC74HC4051 MM74HC4051		CD74HC4511	Motorola National SGS-Thomson	MC74HC4511 MM74HC4511		CD74HC563	Hitachi Motorola National SGS-Thomson	HD74HC563 MC74HC563 MM74HC563	
	Signetics TI Toshiba	M74HC393 74HC393 SN74HC393 TC74HC393A	(3674)		Signetics Toshiba	M74HC4051 74HC4051 TC74HC4051A	(3674)		Signetics Toshiba	M74HC4511 74HC4511 TC74HC4511A	(3674)		Signetics TI Toshiba	M74HC563 74HC563 SN74HC563 TC74HC563A	(3674)
CD74HC4002	Motorola National SGS-Thomson	MC74HC4002 MM74HC4002		CD74HC4052	Motorola National SGS-Thomson	MC74HC4052 MM74HC4052		CD74HC4514	Hitachi Motorola National SGS-Thomson	HD74HC4514 MC74HC4514 MM74HC4514		CD74HC564	Hitachi Motorola National SGS-Thomson	HD74HC564 MC74HC564 MM74HC564	
	Signetics TI Toshiba	M74HC4002 74HC4002 SN74HC4002 TC74HC4002A	(3674)		Signetics Toshiba	M74HC4052 74HC4052 TC74HC4052A	(3674)		Signetics TI Toshiba	M74HC4514 74HC4514 SN74HC4514 TC74HC4514A	(3674)		Signetics TI Toshiba	M74HC564 74HC564 SN74HC564 TC74HC564A	(3674)
CD74HC40102	SGS-Thomson	M74HC40102		CD74HC4053	Motorola National SGS-Thomson	MC74HC4053 MM74HC4053		CD74HC4515	National Signetics TI Toshiba	MM74HC4515 74HC4515 SN74HC4515 TC74HC4515A	(3674)	CD74HC573	Hitachi Motorola National SGS-Thomson	HD74HC573 MC74HC573 MM74HC573	
	Signetics Toshiba	74HC40102 TC74HC40102			Signetics Toshiba	M74HC4053 74HC4053 TC74HC4053A	(3674)						Signetics TI Toshiba	M74HC573 74HC573 SN74HC573 TC74HC573A	(3674)
CD74HC40103	SGS-Thomson	M74HC40103		CD74HC4059	National Signetics	MM54HC294 74HC4059		CD74HC4516	Harris Motorola National Signetics	CD54HC423 MC54HC423 MM54HC423A 74HC4516			Hitachi Motorola National SGS-Thomson	HD74HC573 MC74HC573 MM74HC573	
	Signetics Toshiba	74HC40103 TC74HC40103		CD74HC4060	Motorola National SGS-Thomson	MC74HC4060 MM74HC4060			IDT LogicDev Motorola SGS-Thomson	IDT71781 L7C171 MC74HC4518		CD74HC574	Hitachi Motorola National SGS-Thomson	HD74HC574 MC74HC574 MM74HC574	
CD74HC40104	Signetics	74HC40104			Signetics TI Toshiba	M74HC4060 74HC4060 SN74HC4060 TC74HC4060A	(3674)	CD74HC4518	Signetics Toshiba	M74HC4518 74HC4518 TC74HC4518			Hitachi Motorola National SGS-Thomson	HD74HC574 MC74HC574 MM74HC574	
CD74HC40105	Signetics Toshiba	74HC40105 TC74HC40105A	(3674)	CD74HC4066	Motorola National SGS-Thomson	MC74HC4066 MM74HC4066		CD74HC4520	Motorola SGS-Thomson	MC74HC4520			Hitachi Motorola National SGS-Thomson	HD74HC574 MC74HC574 MM74HC574	
CD74HC4015	National Signetics	MM54HC292 74HC4015			Signetics Toshiba	M74HC4066 74HC4066 TC74HC4066A	(3674)	CD74HC4538	Motorola National SGS-Thomson	MC74HC4538 MM74HC4538		CD74HC583	Motorola National Signetics	MC54HC58 MM54HC58 74HC583	
CD74HC4016	Motorola Signetics	MC74HC4016 74HC4016		CD74HC4067	Panasonic Signetics	MN74HC4067 74HC4067			Signetics Toshiba	M74HC4538 74HC4538 TC74HC4538A	(3674)	CD74HC597	Hitachi Motorola National SGS-Thomson	HD74HC597 MC74HC597 MM74HC597	
CD74HC4017	Motorola National SGS-Thomson	MC74HC4017 MM74HC4017		CD74HC4075	Cypress Motorola National Panasonic SGS-Thomson	CY7C167A MC74HC4075 MM74HC4075 MN74HC4075		CD74HC4543	IDT LogicDev National SGS-Thomson	IDT71782 L7C172 MM74HC4543			Hitachi Motorola National SGS-Thomson	HD74HC597 MC74HC597 MM74HC597	
	Signetics TI Toshiba	M74HC4017 74HC4017 SN74HC4017 TC74HC4017			Sharp Signetics TI Toshiba	M74HC4075 LH5167 74HC4075 SN74HC4075 TC74HC4075A	(3674)		Signetics Toshiba	M74HC4543 74HC4543 TC74HC4543A	(3674)	CD74HC640	Hitachi Motorola National SGS-Thomson	HD74HC640 MC74HC640 MM74HC640	
CD74HC4020	Hitachi Motorola National SGS-Thomson	HD74HC4020 MC74HC4020 MM74HC4020		CD74HC4094	Mitsubishi Motorola SGS-Thomson	M5M5178 MCM61L64		CD74HC4543	Hitachi Motorola National SGS-Thomson	HD74HC51 MC74HC51 MM74HC51			Hitachi Motorola National SGS-Thomson	HD74HC640 MC74HC640 MM74HC640	
	Signetics TI Toshiba	M74HC4020 74HC4020 SN74HC4020 TC74HC4020A	(3674)		Signetics Toshiba	M74HC4094 74HC4094 TC5588 TC74HC4094A	(3674)	CD74HC533	Signetics TI Toshiba Hitachi Motorola National SGS-Thomson	M74HC533 74HC533 SN74HC533 TC74HC533A	(3674)	CD74HC643	Hitachi National SGS-Thomson	HD74HC643 MM74HC643	
CD74HC4024	Hitachi Motorola National SGS-Thomson	HD74HC4024 MC74HC4024 MM74HC4024		CD74HC42	Hitachi Motorola National SGS-Thomson	HD74HC42 MC74HC42 MM74HC42			Signetics Toshiba	M74HC533 74HC533 SN74HC533 TC74HC533A	(3674)		Signetics TI Toshiba	M74HC643 74HC643 SN74HC643 TC74HC643A	(3674)
	Signetics TI Toshiba	M74HC4024 74HC4024 SN74HC4024 TC74HC4024A	(3674)		Signetics TI Toshiba	M74HC42 74HC42 SN74HC42 TC74HC42A	(3674)	CD74HC534	Hitachi Motorola National SGS-Thomson	HD74HC534 MC74HC534 MM74HC534		CD74HC645	National TI	MM74HC645 SN74HC645	
CD74HC4040	Hitachi Motorola National SGS-Thomson	HD74HC4040 MC74HC4040 MM74HC4040		CD74HC423	Motorola SGS-Thomson	MC74HC423A			Signetics Toshiba	M74HC534 74HC534 SN74HC534 TC74HC534A	(3674)	CD74HC646	Motorola National SGS-Thomson	MC74HC646 MM74HC646	
	Signetics TI Toshiba	M74HC4040 74HC4040 SN74HC4040 TC74HC4040A	(3674)		Signetics	M74HC423 74HC423		CD74HC540	Hitachi Motorola National SGS-Thomson	HD74HC540 MC74HC540 MM74HC540			Signetics TI Toshiba	M74HC646 74HC646 SN74HC646 TC74HC646A	(3674)
CD74HC4046A	Motorola National Signetics	MC74HC4046 MM74HC4046 74HC4046 74HC4046A		CD74HC4316	Motorola National	MC74HC4316 MM74HC4316			Signetics TI Toshiba	M74HC540 74HC540 SN74HC540 TC74HC540A	(3674)	CD74HC648	Motorola National SGS-Thomson	MC74HC648 MM74HC648	
CD74HC4049	Motorola National SGS-Thomson	MC74HC4049 MM74HC4049		CD74HC4351	Motorola National Signetics Toshiba	MC74HC4351 MM74HC4351 74HC4351 TC74HC4351A	(3674)		Hitachi Motorola National SGS-Thomson	HD74HC541 MC74HC541 MM74HC541			Signetics TI Toshiba	M74HC648 74HC648 SN74HC648 TC74HC648A	(3674)
	Signetics TI Toshiba	M74HC4049 74HC4049 TC74HC4049A	(3674)	CD74HC4352	Motorola National Signetics Toshiba	MC10H119 MC74HC4352 MM74HC4352 74HC4352 TC74HC4352A	(3674)	CD74HC541	Hitachi Motorola National SGS-Thomson	HD74HC541 MC74HC541 MM74HC541		CD74HC651	SGS-Thomson TI Toshiba	M74HC651 SN74HC651 TC74HC651A	(3674)
CD74HC4050	Motorola National SGS-Thomson	MC74HC4050 MC84HC4050 MM74HC4050		CD74HC4353	Motorola National Signetics Toshiba	MC74HC4353 MM74HC4353 74HC4353 TC74HC4353A			Hitachi Motorola National SGS-Thomson	HD74HC541 MC74HC541 MM74HC541			Signetics TI Toshiba	M74HC651 SN74HC651 TC74HC651A	(3674)
		M74HC4050 (Continued)				(Continued)				M74HC541 (Continued)				(Continued)	

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Harris Semiconductor (Cont'd)				CGA200-006	VLSI Tech	VG1200006 (3706)		CP82C84A	OKI	(Cont'd)		DG201A	Lin Int Sys	LS201	(Cont'd)
CD74HC652	SGS-Thomson	M74HC652		CGA200-010	VLSI Tech	VG12000010				MSM82C84A			Maxim	DG201A	
	TI	SN74HC652		CGA200-017	VLSI Tech	VG12000017		CP82C88	Samsung	KS82C84A			MicroPwr	MAX331	
	Toshiba	TC74HC652A (3674)		CGA200-024	VLSI Tech	VG12000024			AMD	D8288			National	MP201	
CD74HC670	SGS-Thomson	M74HC670		CGA200-029	VLSI Tech	VG12000029			Harris	82C88				LF11201	
	Signetics	74HC670		CGA200-033	VLSI Tech	VG12000033			Intel	82C88				LF13201	
	Toshiba	TC74HC670A (3674)		CGA200-042	VLSI Tech	VG12000042				8288			Siliconix	DG201A	
CD74HC688	Motorola	MC74HC688		CGA200-056	VLSI Tech	VG12000056			Mitsubishi	M5L82885			TeledyneS	TSC4201	
	National	MM74HC688		CGA200-073	VLSI Tech	VG12000073			NEC	μPB8288D		DG202	AD	TSC4202	
	SGS-Thomson	M74HC688		CGA200-109	VLSI Tech	VG12000109				μPD71088		DG211	Harris	ADG202	
	Signetics	74HC688		CGA200-145	VLSI Tech	VG1200145 (3706)				71088			National	DG308A	
	TI	SN74HC688		CGA200-180	VLSI Tech	VG1200180 (3706)			Newbridge	CA82C88 (3569)			Siliconix	LMC1320A	
	Toshiba	TC74HC688A (3674)		CP82C37A	AMD	AM8237A			OKI	MSM82C88			TeledyneS	TSC4201	
CD74HC7030	Motorola	MC54HC589				D8237A			Samsung	KS82C88		DG212	AD	ADG212	
	National	MM54HC589				82C37A		DG118	Siliconix	DG172			Maxim	DG212	
	Signetics	74HC7030				82C37A		♦ DG123	Siliconix	DG123		DG300A	Maxim	DG300A	
CD74HC7038	Harris	CD54HC597				8237		♦ DG125	Siliconix	DG125			Siliconix	DG300A	
	Motorola	MC54HC597				8237A-4		♦ DG126	Siliconix	DG126		DG301A	Maxim	DG301A	
	National	MM54HC597				8237A-5		♦ DG129	Siliconix	DG129			Siliconix	DG301A	
	Signetics	74HC7038				M5M82C37A		♦ DG133	Siliconix	DG133		DG302A	Lin Int Sys	LS302	
CD74HC7046A	Harris	CD54HC4015				M5M82C37AP		♦ DG134	Siliconix	DG134			Maxim	DG302A	
	Signetics	74HC7046A				μPD71037		♦ DG139	Siliconix	DG139			MicroPwr	MP302	
CD74HC7266	Motorola	MC74HC7266				μPD8237A		♦ DG140	Siliconix	DG140		DG308A	Siliconix	DG302A	
	National	MM74HC7266				CA82C37A (3569)		♦ DG141	Siliconix	DG141			Harris	DG211	
	SGS-Thomson	M74HC7266				SMC82C37A		♦ DG142	Siliconix	DG142			National	LMC1320A	
	TI	SN74HC7266				KS82C37A		♦ DG143	Siliconix	DG143			Siliconix	DG211	
	Toshiba	TC74HC7266A (3674)				KS82C37A		♦ DG144	Siliconix	DG144		DG309	TeledyneS	TSC4201	
CD74HC73	Hitachi	HD74HC73				TMP82C37		♦ DG145	Siliconix	DG145			AD	ADG212	
	Motorola	MC74HC73				VL82C37A		♦ DG146	Siliconix	DG146			Siliconix	DG212	
	National	MM74HC73				XR16C450		♦ DG154	National	AM0154				DG309	
	SGS-Thomson	M74HC73				GoldStar		♦ DG163	National	AM0163		DG505A	AD	TSC4201	
	Signetics	74HC73				16C450		♦ DG164	National	AM0164				ADU7503	
	TI	SN74HC73				82C50A		♦ DG180	Siliconix	DG180				MUX88	
	Toshiba	TC74HC73A (3674)				INS82C50A		DG181	Harris	HI381			Burr-Brown	MPC8S	
CD74HC74	Hitachi	HD74HC74				NS16C450			Maxim	HI5048			Datel	MUX808	(3360)
	Motorola	MC74HC74				NS16450				DG381A				MX808	
	National	MM74HC74				CA82C50A (3569)				IH5048			Harris	DG508	
	SGS-Thomson	M74HC74				KS82C250			Siliconix	DG181				HI508	
	Signetics	74HC74				KS82C50		DG182	Siliconix	DG381A			Maxim	MAX358	
	TI	SN74HC74				SSI73M450 (3647)		DG184	Harris	HI384A				MAX368	
	Toshiba	TC74HC74A (3674)				UM8250A (3690)				IH5149			MicroPwr	MP7508DI	
	Hitachi	HD74HC74				VLSI Tech			Maxim	DG384A			Motorola	MC6108	
	Motorola	MC74HC74				VL82C50				IH5049			National	LF11508	
	National	MM74HC74				WD16C450			Siliconix	DG384A				LF13508	
	SGS-Thomson	M74HC74				WD82C50A		DG185	Maxim	IH5045		DG506	TeledyneS	TP4554	
	Signetics	74HC74				82C82			Siliconix	DG185			AD	AD7506	
	TI	SN74HC74				82C82				DG5045				MUX16	
	Toshiba	TC74HC74A (3674)				8282			TI	TL185			Datel	MV1606 (3360)	
	Hitachi	HD74HC75				μPD71082		DG186	Siliconix	DG186				MX1606 (3360)	
	Motorola	MC74HC75				MSM82C82		DG187	Harris	HI387			Harris	HI506	
	National	MM74HC75				D82C54				HI5050			MicroPwr	MP7506	
	SGS-Thomson	M74HC75				82C54			Maxim	IH5150		DG506A	AD	MC7506	
	Signetics	74HC75				82C54				DG387A				ADG506A	(3237)
	TI	SN74HC75				82C54				IH5050			Cypress	CY6116	
	Toshiba	TC74HC75A (3674)				8254			Siliconix	DG387A			EDI	ED18802	
	Hitachi	HD74HC76				M5M82C54		DG188	Maxim	IH5042			Harris	HM65162	
	Motorola	MC74HC76				M5M82C54P			Siliconix	DG188				HM6516	
	National	MM74HC76				μPD71054				DG5042			Hitachi	HM6719	
	SGS-Thomson	M74HC76				CA82C54 (3569)		DG189	Siliconix	DG189			IDT	IDT6116	
	TI	SN74HC76				MSM82C54		DG190	Harris	HI5051				IDT6116A	
	Toshiba	TC74HC76A (3674)				KS82C54				IH5151				IDT6116L	
	Motorola	MC74HC85				VL82C54			Maxim	IH5051				IDT6116S	
	National	MM74HC85				82C59A		DG191	Siliconix	DG190			Intel	81C28	
	SGS-Thomson	M74HC85				82C59A				IH5043			LogicDev	L76116	
	Signetics	74HC85				8259A			Maxim	IH5043			Maxim	DG506A	
	TI	SN74HC85				MT8259			Siliconix	DG191			MicronTech	MT51C1608	
	Toshiba	TC74HC85A (3674)				M5M82C59				DG5043			Motorola	MCM2018A	
	Hitachi	HD74HC86				M5M82C59AP		DG200	AD	ADG200				MCM6116	
	Motorola	MC74HC86				M5M8259AP			Harris	HI200			Performance	P4C116	
	National	MM74HC86				INS8259			Siliconix	DG200A			Saratoga	SSM6116	
	SGS-Thomson	M74HC86				μPD71059			Unitrode	PIC7513			Sony	CKX5814P	
	Signetics	74HC86				μPD8259A		DG201	AD	ADG201			Toshiba	TC2018	
	TI	SN74HC86				71059				SW201			UMC	UM6116-35 (3688)	
	Toshiba	TC74HC86A (3674)				CA82C59A (3569)			Fujitsu	MB47201			Vitelc	V16C16	
	Hitachi	HD74HC86				MSM82C59			Harris	DG201A			VLSI Tech	VT20C19	
	Motorola	MC74HC86				MSM82C59A				HI201		DG507	AD	AD7507	
	National	MM74HC86				KS82C59A			Lin Int Sys	LS201				MUX28	
	SGS-Thomson	M74HC86				TMP82C59			Maxim	DG201A			Datel	MVD807 (3360)	
	Signetics	74HC86				UM8259A				MAX331				MXD807 (3360)	
	TI	SN74HC86				VL82C59A			MicroPwr	MP201			Harris	HI507	
CD82C284	Intel	82C284				D8284A			National	LF11201		DG507A	MicroPwr	MP7507	
	Newbridge	CA82C284				82C84A				LF13201			AD	ADG507A (3237)	
	Samsung	KS82C284				82C84A			Siliconix	DG201A			Burr-Brown	HI507A	
	UMC	UM82C284				8284A			TeledyneS	TSC4201				MPC8D (3344)	
CGA10-016	VLSI Tech	VG110-016				M5L8284A				TSC4202			Harris	HI507A	
CGA10-034	VLSI Tech	VG110-024				M5L8284AP		DG201A	AD	ADG201			Maxim	DG507A	
CGA10-037	VLSI Tech	VG110-037				μPD71084				SW201				IH6216	
CGA10-064	VLSI Tech	VG110-064				71084			Fujitsu	MB47201			Siliconix	DG507A	
CGA10-084	VLSI Tech	VG110-084				CA82C84A (3569)			Harris	DG201		DG508	AD	AD7503	
CGA10-106	VLSI Tech	VG110-106				MSM82C84				HI201				MUX88	
CGA200-003	VLSI Tech	VG1200003 (3706)				(Continued)				(Continued)				(Continued)	

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Harris Semiconductor (Cont'd)				HA21458	Harris	HA2102 HA5102 MPOP14 μA1458HC LF412 LM1458 μPC251 RC4207 RC4227 MC1458		HA2541	Elantec	EL2020 EL2041 TDA2541 SGS-Thomson		HA4741	MicroPwr Motorola	MPOP11 LM148 LM248 MC33174 MC4741 μA148 LM148 LM148 RC4741	(Cont'd)
DG508	Burr-Brown Datel	MPC8S MUX808 MX808	(3360)	HA21458	MicroPwr National			HA2542	Plessey SGS-Thomson						
	Harris	DG505A HI508		HA21458	NEC	RC4207 RC4227			Sipex-HSD AD	SP2541 ADLH0032 HOS050 HOS060 MOS050			National Raytheon		
	Maxim	MAX358 MAX368		HA21458	Samsung	MC1458			Elantec	ELH0032 EL2006 LH0032			SGS-Thomson	LM148	
	MicroPwr Motorola	MP7508DI MC6108		HA21458	Signetics	μA1458 MC1458 NE5512 SA1458 SE5512		HA2544	National TeledyneS AD	TP0032 AD847	(3241)	HA5002	TI AD Elantec	LM148 LM148 BUF03 ELH0002 EL2001 EL2002 EL2003	
DG508A	National	LF11508 LF13508		HA21458	TI	LF412 TA75458 TA75558		HA2600	Elantec Motorola	EHA2600 MC1556 ML1556			LinearTech National	LT1010 LH0002	
	TeledyneS	TP4554		HA2400	Elantec	EHA2400			Signetics	SE556		HA5004	TeledyneS AD	LH0002 AD844	(3240, 3243, 3243)
	AD	ADG508A	(3237)	HA2405	Sipex-HSD	SP2400			Sipex-HSD TI	SP2600 MC1556 SE556M					
	Burr-Brown	HI508A MPC8S		HA2406	Elantec	EHA2405 HA2406 EHA2405		HA2602	Elantec	AM460-2M EHA2602					
	Datel	MX808	(3360)	HA2420	Harris	HA2405 AD582 AD583 SMP11		HA2605	Elantec Motorola	SP2602 3506 AM460-2 EHA2605 MC1456			Burr-Brown	OP160 HFA0005 OPA620 3554AM 3554BM 3554SM	(3332) (3332) (3332) (3332)
	Harris	HI508A IH5108 IH6108		HA2475	National	AD583 SMP11 SHMIC-1 LH0023		HA2620	Sipex-HSD TI	SP2600 MC1456			Comlinear	CLC400 CLC400AID CLC401	
	Lin Int Sys	LS508A		HA2475	Datel	SHMIC-1 HA2420 LH0023			Allegro Micro	ULN2172 ULN2174 AD507			Elantec	EHA5195 ELA5195 EL2020 EL2030 EL2195	
	Maxim	DG508A HI508A		HA2500	National	TP4856 EHA2500			AD	AM462-2 3508			Harris	HA5195 HFA0001	
		DG508A HI508A		HA2502	Elantec	SP2500 AM450-2M			Burr-Brown	EHA2620 EHA2625 HA2622			Maxim	MAX452 LM6161 SP2542	
		HI508A IH5208 IH6208		HA2505	Sipex-HSD	AD540			Elantec	HA2625 SP2620			National Sipex-HSD	TP1321 VTC	
		DG509A HI509A IH6208		HA2510	Datel	AM450-2 EHA2505		HA2622	Sipex-HSD Allegro Micro	ULN2172 ULN2174 AD507		HA5033	AD	ADLH0033 HOS100	
		MAX359		HA2512	Elantec	SP2505 OP42			AD	AM462-2 3508			Burr-Brown	OPA633	
DG526	Siliconix	DG509A ADG526A	(3237)	HA2515	Sipex-HSD	EHA2510 SP2510			Datel	EHA2620 EHA2625			Elantec	EHOS100 ELH0033 ELH2004 ELH2005	
DG527	AD	DG526 ADG527A	(3237)	HA2520	Signetics	NE531 SP2515			Elantec	HA2622 CA3100 HA2620 HA2625 SP2620					
DG528	AD	DG527 ADG528A	(3237)	HA2520	Sipex-HSD	AD509 3507			Harris	HA2625 SP2620					
DG529	AD	DG528 ADG529A	(3237)	HA2522	AD	EHA2520 EL2020 SP2520 TP1322		HA2625	Sipex-HSD Allegro Micro	ULN2172 ULN2174 AD507			Maxim	LH0033 MAX460 MAX460 MP0033 MP0033C MP2004 LH0033 LH4001 LM6121 LM6321 TP1359	
D125	Siliconix	DG529		HA2525	Exar	XR2525A LT2525A SG2525A		HA2645	Sipex-HSD	SP2620		HA5101	TeledyneS VTC	VA033	(3713)
HAOP07	TeledyneS	CDR125		HA2525	LinearTech	LT2525A		HA2650	TeledyneS	TP1332			Intel	5101	
HAOP27	AD	OP07		HA2525	Motorola	SG2525A			Harris	OP271			MicroNet	MN5101	(3547)
HAOP27	AD	ADOP27 AD510 AD517 OP77		HA2525	SGS-Thomson				Motorola	MC3307 OP271			Mitsubishi	MSL5101	
HAOP27	Burr-Brown	OPA27		HA2525	SiiconG	SG2525A	(3642)	HA2655	AD	OP271			Motorola	MCMS1L01	
HAOP27	Lin Int Sys	OP27		HA2525	Sipex-HSD	SP2525			Harris	HA2650			National	MM74C920	
HAOP27	LinearTech	LT1007		HA2525	TeledyneS	TSC25C25A			Motorola	MC3307			Panasonic	MMS101	
		OP27		HA2525	TI	SG2525A		HA4600	AD	OP470			Sharp	LH5101	
	Maxim	OP27		HA2525	Unitrode	TL2525 UC2525A			Harris	HA5104 RC4156		HA5102	AD	OP14 (3245, 3248) OP270	
	MicroPwr	MPOP27		HA2539	AD	OP64			Raytheon	RM4156			Harris	HA2102	
	Motorola	OP27		HA2540	Harris	HA5190			Signetics	NE5514 SE5514			MicroPwr	MPOP14	
	Raytheon	OP27			Sipex-HSD	SP2539			TI	TL136			National	μA1458HC LF412	
	TI	OP27			TeledyneS	TP1342				XR4156					
	AD	OP14 (3245, 3248)			Elantec	AD840	(3240)	HA4741	AD	OP11 OP400 OP470 PM148			NEC	μPC251 RC4207 RC4227	
	Harris	HA5102				EHA5190 EL2020 EL2040 EL2190				PM248			Samsung	MC1458	
	MicroPwr	MPOP14				HA5190			Exar	XR4741			SGS-Thomson	μA1458 MC1458	
	National	μA1458HC LF412 LM1458				TP1341			LinearTech	LT1014					
	NEC	μPC251													
	Raytheon	RC4207													
	Samsung	RC4227													
	SGS-Thomson	MC1458													
		μA1458													
		MC1458													
	Signetics	NE5512													
		SA1458													
		SE5512													
	TI	LF412													
	Toshiba	TA75458													
		TA75558													
HA21458	AD	OP14 (3245, 3248)													

Discontinued

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ALF COURAGE DIRECTORY

◆ Discontinued The manufacturers report their devices can be used as direct replacements.
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IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Harris Semiconductor (Cont'd)				HI509	Harris Maxim	DG509 MAX359 MAX369 MP7509DI LF11509 LF13509		HI574A	MicroPwr	MP574 MP574A HS574 HS574A TP574A AD674	(Cont'd)	HL7649	AMD AD	27S29 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353	
HI387	Harris	DG187 HI5050 IH5150 DG387A IH5050		HI509A	AD	ADG509A MUX24 HI509A MB5208 DG509A IH5208 IH6208 DG509A HI509A IH6208 MAX359 DG509A MPC800 MX1616 MPC801 MC3410 MC3410 AD562 DAC562 SP562 AD565A AD565A MCE565 MN565A A565 LM565 NE565 SE565	(3237)	HI674A	TeledyneS AD Burr-Brown Datel	AD674 ADC674A ADC674 ADC674Z HA17824 HAD674 SP674A AD774 ADC774 MN774 HL0104 HL0168 HL0186 HL0198 HL0512 HL6600 AMD		HL7649	Lansdale Motorola National	27S29 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353	
HI390	Maxim	DG387A DG390A DG390A CD22212 IH5140 IH5140 M5140		HI516	Burr-Brown	DG509A MPC800 MX1616 MPC801 MC3410 MC3410 AD562 DAC562 SP562 AD565A AD565A MCE565 MN565A A565 LM565 NE565 SE565		HI774	Hitachi Honeywell Sipex-HSD AD Burr-Brown MicroNet Lansdale	AD674 ADC674 ADC674Z HA17824 HAD674 SP674A AD774 ADC774 MN774 HL0104 HL0168 HL0186 HL0198 HL0512 HL6600 AMD		HL7649	NEC Raytheon Samsung Signetics TI	27S29 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353	
HI5040	Siliconix	DG387A DG390A DG390A CD22212 IH5140 IH5140 M5140		HI518	Burr-Brown	DG509A MPC800 MX1616 MPC801 MC3410 MC3410 AD562 DAC562 SP562 AD565A AD565A MCE565 MN565A A565 LM565 NE565 SE565		HL1014	Hitachi Honeywell Sipex-HSD AD Burr-Brown MicroNet Lansdale	AD674 ADC674 ADC674Z HA17824 HAD674 SP674A AD774 ADC774 MN774 HL0104 HL0168 HL0186 HL0198 HL0512 HL6600 AMD		HL7649	NEC Raytheon Samsung Signetics TI	27S29 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353	
HI5043	Siliconix	DG387A DG390A DG390A CD22212 IH5140 IH5140 M5140		HI5610	Motorola	DG509A MPC800 MX1616 MPC801 MC3410 MC3410 AD562 DAC562 SP562 AD565A AD565A MCE565 MN565A A565 LM565 NE565 SE565		HL1016	Hitachi Honeywell Sipex-HSD AD Burr-Brown MicroNet Lansdale	AD674 ADC674 ADC674Z HA17824 HAD674 SP674A AD774 ADC774 MN774 HL0104 HL0168 HL0186 HL0198 HL0512 HL6600 AMD		HL7649	NEC Raytheon Samsung Signetics TI	27S29 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353	
HI5044	Harris	DG387A DG390A DG390A CD22212 IH5140 IH5140 M5140		HI562A	Datel	DG509A MPC800 MX1616 MPC801 MC3410 MC3410 AD562 DAC562 SP562 AD565A AD565A MCE565 MN565A A565 LM565 NE565 SE565		HL1018	Hitachi Honeywell Sipex-HSD AD Burr-Brown MicroNet Lansdale	AD674 ADC674 ADC674Z HA17824 HAD674 SP674A AD774 ADC774 MN774 HL0104 HL0168 HL0186 HL0198 HL0512 HL6600 AMD		HL7649	NEC Raytheon Samsung Signetics TI	27S29 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353	
HI5045	Maxim	DG387A DG390A DG390A CD22212 IH5140 IH5140 M5140		HI565A	Maxim	DG509A MPC800 MX1616 MPC801 MC3410 MC3410 AD562 DAC562 SP562 AD565A AD565A MCE565 MN565A A565 LM565 NE565 SE565	(3219)	HL1018	Hitachi Honeywell Sipex-HSD AD Burr-Brown MicroNet Lansdale	AD674 ADC674 ADC674Z HA17824 HAD674 SP674A AD774 ADC774 MN774 HL0104 HL0168 HL0186 HL0198 HL0512 HL6600 AMD		HL7649	NEC Raytheon Samsung Signetics TI	27S29 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353	
HI5048	Siliconix	DG387A DG390A DG390A CD22212 IH5140 IH5140 M5140		HI5685V	AD	DG509A MPC800 MX1616 MPC801 MC3410 MC3410 AD562 DAC562 SP562 AD565A AD565A MCE565 MN565A A565 LM565 NE565 SE565		HL1018	Hitachi Honeywell Sipex-HSD AD Burr-Brown MicroNet Lansdale	AD674 ADC674 ADC674Z HA17824 HAD674 SP674A AD774 ADC774 MN774 HL0104 HL0168 HL0186 HL0198 HL0512 HL6600 AMD		HL7649	NEC Raytheon Samsung Signetics TI	27S29 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353	
HI5049	Maxim	DG387A DG390A DG390A CD22212 IH5140 IH5140 M5140		HI5685V	Datel	DG509A MPC800 MX1616 MPC801 MC3410 MC3410 AD562 DAC562 SP562 AD565A AD565A MCE565 MN565A A565 LM565 NE565 SE565		HL1018	Hitachi Honeywell Sipex-HSD AD Burr-Brown MicroNet Lansdale	AD674 ADC674 ADC674Z HA17824 HAD674 SP674A AD774 ADC774 MN774 HL0104 HL0168 HL0186 HL0198 HL0512 HL6600 AMD		HL7649	NEC Raytheon Samsung Signetics TI	27S29 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353	
HI5050	Harris	DG387A DG390A DG390A CD22212 IH5140 IH5140 M5140		HI5685V	Harris	DG509A MPC800 MX1616 MPC801 MC3410 MC3410 AD562 DAC562 SP562 AD565A AD565A MCE565 MN565A A565 LM565 NE565 SE565		HL1018	Hitachi Honeywell Sipex-HSD AD Burr-Brown MicroNet Lansdale	AD674 ADC674 ADC674Z HA17824 HAD674 SP674A AD774 ADC774 MN774 HL0104 HL0168 HL0186 HL0198 HL0512 HL6600 AMD		HL7649	NEC Raytheon Samsung Signetics TI	27S29 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353	
HI5051	Maxim	DG387A DG390A DG390A CD22212 IH5140 IH5140 M5140		HI5685V	AD	DG509A MPC800 MX1616 MPC801 MC3410 MC3410 AD562 DAC562 SP562 AD565A AD565A MCE565 MN565A A565 LM565 NE565 SE565		HL1018	Hitachi Honeywell Sipex-HSD AD Burr-Brown MicroNet Lansdale	AD674 ADC674 ADC674Z HA17824 HAD674 SP674A AD774 ADC774 MN774 HL0104 HL0168 HL0186 HL0198 HL0512 HL6600 AMD		HL7649	NEC Raytheon Samsung Signetics TI	27S29 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353	
HI506	Siliconix	DG387A DG390A DG390A CD22212 IH5140 IH5140 M5140		HI5685V	Burr-Brown	DG509A MPC800 MX1616 MPC801 MC3410 MC3410 AD562 DAC562 SP562 AD565A AD565A MCE565 MN565A A565 LM565 NE565 SE565		HL1018	Hitachi Honeywell Sipex-HSD AD Burr-Brown MicroNet Lansdale	AD674 ADC674 ADC674Z HA17824 HAD674 SP674A AD774 ADC774 MN774 HL0104 HL0168 HL0186 HL0198 HL0512 HL6600 AMD		HL7649	NEC Raytheon Samsung Signetics TI	27S29 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353	
HI506A	Maxim	DG387A DG390A DG390A CD22212 IH5140 IH5140 M5140		HI5685V	Datel	DG509A MPC800 MX1616 MPC801 MC3410 MC3410 AD562 DAC562 SP562 AD565A AD565A MCE565 MN565A A565 LM565 NE565 SE565		HL1018	Hitachi Honeywell Sipex-HSD AD Burr-Brown MicroNet Lansdale	AD674 ADC674 ADC674Z HA17824 HAD674 SP674A AD774 ADC774 MN774 HL0104 HL0168 HL0186 HL0198 HL0512 HL6600 AMD		HL7649	NEC Raytheon Samsung Signetics TI	27S29 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353	
HI507	Harris	DG387A DG390A DG390A CD22212 IH5140 IH5140 M5140		HI5685V	Harris	DG509A MPC800 MX1616 MPC801 MC3410 MC3410 AD562 DAC562 SP562 AD565A AD565A MCE565 MN565A A565 LM565 NE565 SE565		HL1018	Hitachi Honeywell Sipex-HSD AD Burr-Brown MicroNet Lansdale	AD674 ADC674 ADC674Z HA17824 HAD674 SP674A AD774 ADC774 MN774 HL0104 HL0168 HL0186 HL0198 HL0512 HL6600 AMD		HL7649	NEC Raytheon Samsung Signetics TI	27S29 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353	
HI507A	Maxim	DG387A DG390A DG390A CD22212 IH5140 IH5140 M5140		HI5685V	AD	DG509A MPC800 MX1616 MPC801 MC3410 MC3410 AD562 DAC562 SP562 AD565A AD565A MCE565 MN565A A565 LM565 NE565 SE565		HL1018	Hitachi Honeywell Sipex-HSD AD Burr-Brown MicroNet Lansdale	AD674 ADC674 ADC674Z HA17824 HAD674 SP674A AD774 ADC774 MN774 HL0104 HL0168 HL0186 HL0198 HL0512 HL6600 AMD		HL7649	NEC Raytheon Samsung Signetics TI	27S29 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353	
HI508	Siliconix	DG387A DG390A DG390A CD22212 IH5140 IH5140 M5140		HI5685V	Burr-Brown	DG509A MPC800 MX1616 MPC801 MC3410 MC3410 AD562 DAC562 SP562 AD565A AD565A MCE565 MN565A A565 LM565 NE565 SE565		HL1018	Hitachi Honeywell Sipex-HSD AD Burr-Brown MicroNet Lansdale	AD674 ADC674 ADC674Z HA17824 HAD674 SP674A AD774 ADC774 MN774 HL0104 HL0168 HL0186 HL0198 HL0512 HL6600 AMD		HL7649	NEC Raytheon Samsung Signetics TI	27S29 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353	
HI508A	Maxim	DG387A DG390A DG390A CD22212 IH5140 IH5140 M5140		HI5685V	Datel	DG509A MPC800 MX1616 MPC801 MC3410 MC3410 AD562 DAC562 SP562 AD565A AD565A MCE565 MN565A A565 LM565 NE565 SE565		HL1018	Hitachi Honeywell Sipex-HSD AD Burr-Brown MicroNet Lansdale	AD674 ADC674 ADC674Z HA17824 HAD674 SP674A AD774 ADC774 MN774 HL0104 HL0168 HL0186 HL0198 HL0512 HL6600 AMD		HL7649	NEC Raytheon Samsung Signetics TI	27S29 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353	
HI508A-2	Harris	DG387A DG390A DG390A CD22212 IH5140 IH5140 M5140		HI5685V	Harris	DG509A MPC800 MX1616 MPC801 MC3410 MC3410 AD562 DAC562 SP562 AD565A AD565A MCE565 MN565A A565 LM565 NE565 SE565		HL1018	Hitachi Honeywell Sipex-HSD AD Burr-Brown MicroNet Lansdale	AD674 ADC674 ADC674Z HA17824 HAD674 SP674A AD774 ADC774 MN774 HL0104 HL0168 HL0186 HL0198 HL0512 HL6600 AMD		HL7649	NEC Raytheon Samsung Signetics TI	27S29 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353	

* Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Harris Semiconductor (Cont'd)				HM65642	IDT	(Cont'd)		HM7620	Signetics	N82S130 S82S130	(Cont'd)	HM76641A	Signetics	27HC642 82HS641	(Cont'd)
HM6508		(Cont'd)				IDT7164 IDT7164S									
HM6514	National	MM74C929 NM2102 CY7C148 HA5114 Intel 5114 Mitsubishi M58981 OKI MSM5114 S-MOS SRM2114C Sanyo LC3514 Signetics 5114			MicronTech MT5C6408 Mitsubishi M5M5179 Mosel MS6264 Motorola MCM6264 National MCM6265 NEC MCM6164 Performance P4C164 SGS-Thomson			HM76321	AMD	AM27S43 AM27S43A 27S43		HM76641A	SiliconSys TI	TMS278C49 WS57C49 WS57C49B DM87S180 DM87S229	
HM6516	Cypress	ADG506A (3237)						HM76321	Fujitsu	MB7142 ICT 27CX321		HM7680	National	WS57C49B DM87S181 DM87S229	
	EDI	ED18802							Lansdale	HL76321		HM7681-2	AMD	AM27S181 CY7C282M	
	Harris	DG506A HM65162 HM6719 Hitachi							National	DM77S321 R29671D			Cypress	S25089	
	IDT	IDT6116 IDT6116A IDT6116L IDT6116S							Raytheon	29671 29671A N82H321			Gould AMI	HN25089	
	Intel	81C28								WS57C43B			Lansdale	HL7681	
	LogicDev	L76116								HL7640			National	DM77S181 DM77S281 DM87S181 DM87S281	
	Maxim	DG506A								DM77S475 DM87S475				932451	
	MicronTech	MT51C1608								AM27S31 HM6642		HM7681-2	Raytheon	29631	
	Motorola	MCM2018A MCM6116								DM77S474 N82S141		HM7681-2	Signetics	29631AM N82S181 S82S181	
	Performance	P4C116								S82S141		HM7681-2	STC	STC5089	
	Saratoga	SSM6116								AM27S33		HM7685	TI	28586-60	
	Sony	CKX5814P								MB7122 HL7643		HM7685	AMD	AM27S185 27S185	
	Toshiba	TC2018								DM74S573 MCM7643M		HM7685	Fujitsu	MB7128 HN25085	
	UMC	UM6116-35 (3688)								DM54S573 DM54S573A			Hitachi	DM77S185	
	Vitellic	V16C16								AM27S33		HM7685	National	29651	
	VLSI Tech	VT20C19								MB7122 HL7643		HM7685	Signetics	29651A	
HM65162	AD	ADG506A (3237)								DM74S573 AM27S29		HM7685	TI	24S81-55	
	Cypress	CY6116								Fujitsu MB7124		HM7685-2	National	DM77S185	
	EDI	ED18802								National DM74S472			Raytheon	29651AM	
	Harris	DG506A HM6516 HM6719 Hitachi								29623 N82S147 N82S147A		HM8808	EDI	EDH8808 HM8808A	
	IDT	IDT6116 IDT6116A IDT6116L IDT6116S								S82S147 AM27S49			Harris	DS8808 HM8808	
	Intel	81C28								AT27HC641 AT27HC642		HM8808A	EDI	EDH8808 HM8808	
	LogicDev	L76116								CY7C261		HM8832	Cypress	CYM1421 CYM1421HD	
	Maxim	DG506A								CY7C263 CY7C264			Dense-Pac	DPS128M8 DPS128M8L	
	MicronTech	MT51C1608								MBM7144 MB7144E				DPS41288 (3376) DPS41288LP (3376)	
	Motorola	MCM2018A MCM6116								27CX641 27HC641				EDH8M8128 EDH8M8128C	
	Performance	P4C116								Microchip 32Z565				EDH8832	
	Saratoga	SSM6116								National 93Z665				EDH8M8128C	
	Sony	CKX5814P								93Z665C				EDH8832	
	Toshiba	TC2018								93Z667C				EDH8M8128C	
	UMC	UM6116-35 (3688)								PD27HC65				EDH88130C	
	Vitellic	V16C16								Sharp LH5749				EDH88130C-100	
	VLSI Tech	VT20C19								LH5749J				EDH88130C-55	
HM6518	National	MM74C930								N82HS641				EDH88130C-70	
HM65262	AMD	AM2167								27HC641				EDH88130C-90	
	Cypress	CY7C167A								27HC642				HY63C256	
	Hitachi	HM6267								82HS641				S128K8	
	IDT	IDT6167								S82S641				S32K8	
	Intel	51C66								SS1203				IDT77M856S	
	LogicDev	L7C167								TMS278C49				IDT8M824L	
	MicronTech	MT5C1601								WS57C49				IDT8M824L	
	Mitsubishi	M5M21C67								WS57C49B				L7C199	
	Motorola	MCM2167								AM27S49				M5M51008P	
	NEC	PD4311								27S49				MSM8128S	
	S-MOS	SRM2267								AT27HC641				MS88128	
	Saratoga	SSM6167								CY7C261				Peps S128KX8 (3573)	
	SGS-Thomson									CY7C263				CM681000L	
										CY7C264				CM681000P	
										MBM7144				CM681001P	
										MB7144E				TC551001PL	
										27CX641				UM621024	
										Microchip 32Z565				PALCE16V8	
										National 93Z665C				PAL16L8	
										93Z667C				PALC16L8	
										PD27HC65				PAL16L8	
										Sharp LH5749				HPL16LC8-5	
										N82HS641				5C031	
										27HC641				5C032	
										93Z665C				GAL16V8A	
										93Z667C				GAL18V10	
										PD27HC65				GAL16V8	
										Sharp LH5749				PAL16L8	
										N82HS641				16L8A	
										27HC641					

• Discontinued

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ALT. SOURCE DIRECTORY

• Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Harris Semiconductor (Cont'd)				ICM7556M	TI	TLC552M	(Cont'd)	• IH5200	Siliconix	SD5200		• IM5623	Fujitsu	MB7114	
ICL8069	TeledyneS	TSC8069	(Cont'd)			TLC556		• IH5201	AD	SI5200			National	DM74S287	
		TSC9491				TLC556C			MicroNet	AD5201			Signetics	NB2S129A	
	TI	LT1004		IH5009	National	TLC556M		IH5208	AD	MN5201		• IM5625	AMD	S82S129	
ICL8211	Maxim	MAX8211				AH5009				MUX24	(3237)		Harris	S82S5129	
ICL8212	AMD	AM93422AM				AM97C09			Burr-Brown	H1509A			National	AM27S31	
		AM93422M		IH5010	National	AM9709			Fujitsu	MB5208			Signetics	DM74S474	
	Cypress	CY93422AM				AH5010			Harris	DG509A		• IM6402	Hitachi	NB2S141	
		CY93422M		IH5011	National	AM9710				H1509A				S82S141	
	Maxim	MAX8212		IH5012	National	AH5011			Maxim	IH6208		• IM6402	Motorola	HD6350	
	National	93422AM				AM9711				DG509A				HD6850	
		93422M				AM9712				IH509A		• IM6402	Samsung	MC6850	
	Performance	P4C422-15		IH5013	National	AH5013				IH6208			SGS-Thomson	KS5824	
	Vitesse	VS12G422TM		IH5014	National	AH5014		IH5341	Siliconix	MAX359		• IM6504	Cypress	EF6850	
ICL8240	Exar	XR2240		• IH5015	National	AH5015			Harris	DG509A			Harris	CY7C147	
	National	μA2240		• IH5016	National	AH5016		IH5352		HI222			Hitachi	HM6504	
	TI	μA2240		• IH5040	Maxim	IH5016		IH6108	Maxim	IH5141			Intel	HM4315	
ICM7211	Harris	CD7211		• IH5041	Siliconix	IH5040				IH5341			Mitsubishi	5104	
	Hughes	HLCD7211			Harris	DG5040			AD	IH5352	(3237)		National	M58981	
	Maxim	ICM7211				HI222			Burr-Brown	H1508A			NMC6504		
ICM7212	TeledyneS	TSC7211		• IH5041	Maxim	IH5341				MPC8S	(3360)		OKI	MSM5104	
	LogicDev	LMU12		• IH5042	Harris	IH5142			Datel	DG508A			Rockwell	R6504	
	Maxim	ICM7212			Maxim	IH5142			Harris	IH508A		IM6508-1	Fujitsu	MB8401	
ICM7216	TeledyneS	TSC7212			Siliconix	DG5142				IH5108			Harris	HM6508	
	AD	ADDAC80		IH5043	Harris	DG191			Lin Int Sys	LS508A				6508	
		DAC80			Maxim	IH5043			Maxim	DG508A		• IM6514	National	MM74C929	
	Burr-Brown	DAC800			Siliconix	DG191				HI508A				NM2102	
		DAC800		• IH5044	Harris	DG5043				MAX358			Cypress	CY7C148	
	Harris	ICM7226	(3549)			CD22223		• IH6116	MicroPwr	MP7508DI	(3237)	• IM6514	Harris	HA5114	
	MicroNet	DAC1280		• IH5044	Maxim	HI5144			Siliconix	DG508A				HM6514	
	National	DAC1280				HI5144			AD	ADG506A			Intel	5114	
ICM7217	Sipex-HSD	HSDAC80		• IH5045	Siliconix	DG5144			Cypress	CY6116			Mitsubishi	M58981	
	Harris	HMU17			Harris	DG5144			EDI	ED18802		• IM6518-1	OKI	MSM5114	
	LogicDev	LMU17		• IH5045	Maxim	HI5045			Harris	DG506A			S-MOS	SRM2114C	
		LMU217				HI5145		• IH6116		HM6516			Sanyo	LC3514	
ICM7218	Maxim	ICM7217		• IH5046	Siliconix	HI5145			Hitachi	HM65162		• IM6518-1	Signetics	5114	
	Harris	ICM7228			Harris	DG5145				HM6716			Harris	HM6518	
ICM7224	Maxim	ICM7218		• IH5047	Harris	IH5046		• IH6116	IDT	HM6719		• IM6551	National	MM74C930	
• ICM7225	Maxim	ICM7225			Harris	HI5047				IDT6116			Commodore	MP6551	
	Universal	USC1841		IH5108	AD	ADG508A	(3237)			IDT6116A		• IM6551	Gould AMI	MP6551	
ICM7226	AD	ADDAC80			Burr-Brown	IH508A			Intel	IDT6116L			Harris	S6551	
		DAC80				MPC8S		• IH6116	LogicDev	IDT6116S			Panasonic	AN6551	
	Burr-Brown	DAC80			Datel	DG508A	(3360)			81C28			UMC	UM6551	(3576)
		DAC800			Harris	DG508A			Maxim	L76116		• IM6561	Rockwell	R6551	(3689)
	Harris	ICM7216				HI508A			Maxim	DG506A			UMC	UM6551	
	MicroNet	DAC1280	(3549)		Lin Int Sys	IH6108			MicronTech	MT51C1608		• IM6716	Harris	HM6561	
	National	DAC1280			Maxim	LS508A		• IH6116	Motorola	MCM2018A			Cypress	CY7C291	
ICM7228	Sipex-HSD	HSDAC80				DG508A			Performance	MCM6116			EXEL	XL46C15	
	Harris	ICM7218				HI508A			Saratoga	P4C116			Harris	HM6617	
	Maxim	ICM7218			MicroPwr	MAX358			Sony	SSM6116			Lansdale	HL76161	
ICM7231	LSI Comp	LS7231	(3526)			MP7508DI			Toshiba	CKX5814P			National	DM77S291	
	Siemens	S576A		IH5140	Siliconix	DG508A			UMC	TC2018				DM77S291A	
ICM7232	Fujitsu	MB7232				CD22212			Vitelc	V16C16				932511M	
	LSI Comp	LS7232	(3526)		Maxim	HI5040			VLSI Tech	VT20C19			Raytheon	29681	
	Siemens	S576B			Motorola	HI5140		IH6208	AD	ADG509A	(3237)			29681A	
• ICM7233	LSI Comp	LS7233	(3526)			M5140				MUX24				29683	
	Micrel	MIC7233			SiliconSys	SS173K272			Burr-Brown	H1509A		ISP9210	WaferScale	WS57C191	
	Siemens	S576C				DG5140			Fujitsu	MB5208				WS57C291B	
• ICM7240	Exar	XR2240		IH5141	Harris	HI222			Harris	DG509A			AD	ADSP1101	(3255)
• ICM7250	Maxim	ICM7240			Maxim	IH5341				H1509A			LogicDev	ADSP1110	
• ICM7260	Maxim	ICM7260			Maxim	IH5142			Maxim	IH5208				LMA1010	
ICM7555	Exar	XRL555			Siliconix	DG5142				DG509A				LMA2010	
	Harris	ICM7555M		IH5143	Harris	IH5043				H1509A			TRWLSI	TMC2110	
	Holt	HI7555			Maxim	IH5143				IH6208			VLSI Tech	VL2010	
	Maxim	ICM7555			Siliconix	DG5143				MAX359		ISP9520	IDT	IDT29FCT520A	
	National	LMC555		IH5144	Harris	CD22223				DG509A	(3237)		LogicDev	L29C520	
	TI	TLC555				HI5044		• IH6216	Siliconix	ADG507A	(3237)		WaferScale	WS59520	(3717)
ICM7555M	Exar	XRL555			Maxim	HI5144			AD	HI507A		ISP9521	IDT	IDT29FCT521A	
	Harris	ICM7555			Siliconix	DG5144			Burr-Brown	DG507A	(3344)		LogicDev	L29C521	
	Holt	HI7555		IH5145	Harris	HI5045		• IH6216	Harris	DG507A			WaferScale	WS59521	(3717)
	Maxim	ICM7555			Maxim	IH5145				HI507A		• LF255	AD	PM155	
	National	LMC555		• IH5148	Siliconix	DG5145			Maxim	DG507A				PM255	
	TI	TLC555			Harris	HI5049				IH6216		• LF255	MicroPwr	MP255	
ICM7556	AdvLinear	ALD2502			Maxim	HI5148				DG507A			National	LF255	
		ALD2504		IH5149	Harris	DG184		• IH6216	Siliconix	DG507A			SGS-Thomson	LM255	
		ICM7556M				HI384A		• IM29C128	SEEQ	20RA102		• LF256	National	LF256	
	Harris	ICM7556			Maxim	DG384A		• IM56S04	Fujitsu	MB7115				LM255	
	Maxim	MC3456				IH5049			National	DM74S570			National	LF256	
	Motorola	MC3456				IH5049			Signetics	N82S130			SGS-Thomson	LM256	
	TI	TLC552C			Siliconix	DG384A				S82S130		• LF355	AD	OP15	
		TLC552M				DG187		• IM5603	Fujitsu	MB7113				OP43	
		TLC556				HI387			National	DM74S387			LinearTech	LF355	
		TLC556C				HI5050		• IM5605	Lansdale	HL7640			Motorola	LF355	
		TLC556M			Maxim	DG387A			National	DM74S475			National	LF355	
ICM7556M	AdvLinear	ALD2502				IH5050				DM77S475			SGS-Thomson	LF355	
		ALD2504			Siliconix	DG387A		• IM5610		DM87S475		• LF356		LF355	
	Harris	ICM7556		IH5151	Harris	DG190			Adv Analog	ADC5610			AD	OP16	
	Maxim	ICM7556				HI5051		• IM5623	MicroNet	MN5610			LinearTech	LF356	
	Motorola	MC3456			Maxim	IH5051			AMD	AM27S21			Motorola	LF356	
	TI	TLC552C			Siliconix	DG190				27S21				LF356	
		(Continued)				(Continued)				(Continued)				(Continued)	

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Harris Semiconductor (Cont'd)				LM348				MWS5514				82C37A			
• LF356	National	LF356	(Cont'd)	Motorola	National	LM348	(Cont'd)	Raytheon	RC4156			Intel	8237		(Cont'd)
	SGS-Thomson	LF356		LM348		LM348		Signetics	NE5514				8237A-4		
• LH2111	National	LH2111		Samsung	TI	LM348		TI	SE5514			Mitsubishi	8237A-5		
• LM107	AD	OP02		GoldStar	Hitachi	LM348		NE555	TL136				MSM82C37A		
• LM107	LinearTech	LM107		Harris	Motorola	LM358		Exar	XR4156			NEC	MSM82C37AP		
LM108A	National	OP77		Hitachi	National	LM358		GoldStar	XR555M				μPD71037		
	SiliconG	SG107	(3643)	Motorola	Samsung	LM358A		Harris	GLC555			Newbridge	μPD8237A		
	AD	AD108A		Sanyo	SGS-Thomson	LM358A		Mitsubishi	CA0555			OKI	MSM82C37A		(3569)
	LinearTech	PM108A		TI	Signetics	LM358			M5E555			S-MOS	SMC82C37A		
	Motorola	LM108A		Toshiba	TI	LM358		Motorola	M51841			Samsung	KS82C37A		
	National	μA108A		AD	Toshiba	LM358		National	M51848				KS8237A		
	Raytheon	LM108A		Harris	Maxim	LM358			MC1455			Toshiba	TMP82C37		
	SGS-Thomson	LM108A		Motorola	Motorola	LM358		Signetics	μA555			VLSI Tech	VL82C37A		
	TI	LM108A		National	SGS-Thomson	LM358		TI	LM555			Exar	XR16C450		
• LM111	LinearTech	LM111		SGS-Thomson	TI	LM358			NE555			GoldStar	16C450		
	Motorola	μA111			Toshiba	LM358			NE555			Harris	CP82C50A		
• LM111	SiliconG	SG111	(3643)		AD	LM358			SE555			National	INS82C50A		
LM301	AD	AD301			Harris	LM358			SE555M				NS16C450		
	Harris	OP77			Motorola	LM358			TA75555				NS16450		
	LinearTech	CA0301A			National	LM358			TA75555				NS16450		
	Motorola	LM301			SGS-Thomson	LM358			TC15G008				CA82C50A	(3569)	
	National	μA301			TI	LM358			TC15G014				KS82C250		
	NEC	μA301A			Fujitsu	LM358			TC15G022				SS173M450	(3647)	
	Samsung	KA301			Harris	LM358			TC15G032				UM8250A	(3690)	
	SGS-Thomson	LM301			AD	LM358			TC15G042				VL82C50	(3702)	
	SiliconG	SG301			Motorola	LM358			TC15G060				VL82C50A		
	TI	μA301			National	LM358			XR555				WD16C450		
• LM311	AD	AD311			SGS-Thomson	LM358			XR555M				WB82C50A		
• LM311	Harris	PM211			TI	LM358			GLC555				CA82C52	(3569)	
• LM311	LinearTech	CA0311			LM723	LM358			CA0555				D82C54		
	Motorola	LM311			• MC3302	LM358			NE555				82C54		
	National	μA311			AD	LM358			M5E555				CP82C54		
• LM311	Samsung	LM311			Motorola	LM358			M51841				8254		
	SGS-Thomson	LM311			IDT	LM358			M51848				M5M82C54		
	Signetics	LM311			Motorola	LM358			MC1455				μPD71054		
	SiliconG	SG311			LM3302	LM358			μA555				CA82C54	(3569)	
	TI	LM311			MC3302	LM358			LM555				MSM82C54		
	Toshiba	TA75393			• MC3302	LM358			NE555				KS82C54		
	AMD	LM324			National	LM358			SE555				VL82C54		
	Fujitsu	MB3614			• MC3302	LM358			SE555M				D8255A		
	Harris	CA0224			Samsung	LM358			TA75555				P8255		
		CA0324			SGS-Thomson	LM358			TA75555				82C55A		
	Hitachi	HA17324			• MC3302	LM358			SS54HCT181				8255A		
	Motorola	LM324			Signetics	LM358			Micro				M5M82C55A		
	National	LM324			TI	LM358			Signetics				MSM82C55AP		
	Raytheon	LM324			Toshiba	LM358			SS54HCT182				μPD71055		
	Samsung	LM324			Harris	LM358			SS54HCT182				μPD8255A		
	SGS-Thomson	LM324			Hitachi	LM358			SS54HCT182				71055		
	TI	LM324			Motorola	LM358			SS54HCT182				CA82C55A	(3569)	
• LM339	GoldStar	GL339			National	LM358			SS54HCT182				MSM82C55A		
• LM339	Harris	CA0339			SGS-Thomson	LM358			SS54HCT182				SMC82C55AC		
	Motorola	μA339			• MC74HC564	LM358			SS54HCT182				TM82C55		
	National	LM339			Hitachi	LM358			SS54HCT182				UM82C55A	(3689)	
• LM339	NEC	μPC137			Motorola	LM358			SS54HCT182				CP82C59A		
• LM339	Raytheon	LM339			SGS-Thomson	LM358			SS54HCT182				82C59A		
• LM339	Samsung	LM339			Signetics	LM358			SS54HCT182				8259A		
• LM339	SGS-Thomson	LM339			TI	LM358			SS54HCT182				MT8259		
	TI	LM339			Toshiba	LM358			SS54HCT182				M5M82C59		
	Toshiba	TA75339			Harris	LM358			SS54HCT182				MSM82C59AP		
	AD	OP11			Hitachi	LM358			SS54HCT182				INS8259		
LM348	Exar	XR4751	(3247)		Motorola	LM358			SS54HCT182				μPD71059		
	GoldStar	GL348			SGS-Thomson	LM358			SS54HCT182				μPD8259A		
					• MWS5101	LM358			SS54HCT182				71059		
					Harris	LM358			SS54HCT182				CA82C59A	(3569)	
					Intel	LM358			SS54HCT182				MSM82C59A		
					MicroNet	LM358			SS54HCT182				KS82C59A		
					Mitsubishi	LM358			SS54HCT182				TMP82C59		
					Motorola	LM358			SS54HCT182				UM8259A		
					National	LM358			SS54HCT182				VL82C59A		
					• MWS5101	LM358			SS54HCT182				CP82C52		
					Panasonic	LM358			SS54HCT182				82C82		
					Sharp	LM358			SS54HCT182				8282		
					Cypress	LM358			SS54HCT182				μPD71082		
					Harris	LM358			SS54HCT182				MSM82C82		
					Intel	LM358			SS54HCT182				82C83		
					Mitsubishi	LM358			SS54HCT182				8283		
					OKI	LM358			SS54HCT182				μPD71083		
					S-MOS	LM358			SS54HCT182				MSM82C83		
					Sanyo	LM358			SS54HCT182				D8284A		
					Signetics	LM358			SS54HCT182				CP82C84A		
					AD	LM358			SS54HCT182				82C84A		
					Harris	LM358			SS54HCT182				8284A		
					HA5104	LM358			SS54HCT182				M5L8284AP		
					(Continued)				(Continued)				(Continued)		

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Harris Semiconductor (Cont'd)				HA17008	Samsung	KDA0806 KDA0807 KDA0808	(Cont'd)	HA17458	TI	RM4558 TL4558 TA75458 TA75558	(Cont'd)	HA17805	Gould AMI Mitel	S8981 MT8981	
82C84A	NEC	μPD71084 71084	(Cont'd)						Toshiba			HA17806	Mitel	MT8975	
	Newbridge OKI	CA82C84A (3569) MSM82C84 MSM82C84A UC82C84A		HA17012	Signetics AD	MC1408 AD580 REF03	(3238)	HA17555	Exar	XR555 XR555M		HA17807	Mitel	MT8978	
					Maxim	AD580		HA17555	GoldStar	GLC555		HA17808	National	μA7807	
82C86H	Samsung	KS82C84A		HA17080	SiliconG	SG1503	(3642)	HA17555	Harris	CA0555		HA17809	Mitel	MT8940	
	Intel	82C86		HA17083	TI	TL080		HA17555	Mitsubishi	NE555			GoldStar	GL7809	
	National	DP8304			Exar	XR083				M5E555			Motorola	MC7809	
	NEC	μPD71086		HA17301	Motorola	LM2900		HA17555	Motorola	M51841		HA17815	TI	LM7809	
82C87H	OKI	MSM82C86			TI	LM083		HA17555	National	M51848			Toshiba	TA78009	
	AMD	8287			National	LM2900				MC1455			EG&G-Reticon	RM5632A	
	Intel	82C87		HA17324	AMD	LM324		HA17555	SGS-Thomson	LM555			Exar	R5632	
	NEC	μPD71087			Fujitsu	MB3614			Signetics	NE555				XR2126	
82C88	OKI	MSM82C87			Harris	CA0224		HA17555	TI	SE555		HA17818	Sierra	MT35212A	
	AMD	D8288				CA0324				SE555				SC11000	
	Harris	CP82C88			Motorola	LM324		HA17555		SE555M				SC11005	
	Intel	82C88			National	LM224		HA17555	Toshiba	TA75555		HA17824	SMC	FDC9229	
	Mitsubishi	M5L82885			Raytheon	LM324		HA17558	AD	TA7555			AD	V86	
	NEC	μPB8288D			Samsung	LM324		HA17558		OP14 (3245, 3248)		HA17902	Burr-Brown	ADC674A	
	Newbridge OKI	CA82C88 (3569) MSM82C88 MSM82C88A		HA17358	SGS-Thomson	LM324 LM324 GL358		HA17558	Exar	OP215 OP270 XR1458			Datel	ADC674	
82C89	Samsung	KS82C88			TI	LM324			Fujitsu	XR4558			Harris	ADC674Z	
	Intel	8289			GoldStar	GL358		HA17558	Harris	MB3607			Honeywell	HI674A	
					Harris	CA0358A			Hitachi	CA1458			Sipex-HSD	HADC674	
					Motorola	LM358		HA17558	Motorola	CA1558			AD	SP674A	
					National	LM358				CA1558			GoldStar	OP400	
					Samsung	LM358A		HA17558	National	HA17458			Motorola	GL324	
					Sonyo	LA6358				MC4558			National	LM2902	
					SGS-Thomson	LM358		HA17558	Raytheon	SE4558			NEC	MC33174	
					Signetics	LM358				μA4558			SGS-Thomson	μA324	
					TI	NE532		HA17558		LM1558				μPC451	
					TI	LM348				RC4558		HA19209	Signetics	LM2902	
					Toshiba	LM358		HA17558	Samsung	RM4558			TI	LM2902	
					Fujitsu	TA75358			SGS-Thomson	MC4558			Toshiba	TA75902	
				HA17393	National	MB47393		HA17558		LS4558		HA19216	Harris	CA3318	
					NEC	μPC277				MC4558			Motorola	MC10319	
					Toshiba	TA75393		HA17558	Signetics	MC1558			NEC	μPD6950	
				HA17408	AD	AD1408				NE4558		HB56A18	Harris	CA3306	
					Hitachi	DAC1408		HA17558	TI	SE4558			MicroPwr	MP7682	
					Motorola	HA17008				MC1458			Fujitsu	MB85230	
					National	μA0801		HA17558	Toshiba	MC1558			Hitachi	HB56A18B	
						μA0802				MC4558C			MicronTech	MT8C8024	
						DAC0806		HA17558	Fujitsu	RC4558			Mitsubishi	MT8C8024M	
						DAC0807				RM4558				MH1M08A	
						DAC0808		HA17723	Toshiba	TL4558			Motorola	MH1M08BOJ	
					Samsung	MA0802M				TA75458			NEC	MCM81000	
						KDA0806		HA17723	Fujitsu	TA75558			OKI	MC421000A8	
					Signetics	KDA0807				MB3752				MSC231148	
					AD	KDA0808		HA17733	Harris	MB723			Peps	1MX8	
						MC1408			Adv Analog	CA723			Samsung	KMM581000A	
						OP215		HA17733	Motorola	LM723			TI	MPR68CTE64	
					Exar	OP270				A733			Toshiba	TM024GAD8	
						XR1458		HA17733	National	MC1733				THM81000A	
						XR4558				NE592		HB56A18AT	UTMC	UT67164	
						MB3607		HA17733	Signetics	NE592			Fujitsu	UT7164	
						CA1458				μA733			MicronTech	MB85260	
						CA1558		HA17733		LM733			Peps	MT8C024DMN	
						MC4558				μA733M			Samsung	1MX8LP	
						SE4558		HA17733	TI	NE592		HB56A18B	Toshiba	KMM594000	
						μA1458				SE592				THM81020A	
						μA4558		HA17741	SiliconG	SG1401	(3643)		Fujitsu	THM81020AL	
						LM1558				μA733			Hitachi	MB85230	
						RC4558				μA733M			MicronTech	MB8561A	
						RM4558				NE592				MT8C8024	
						MC4558				NE592-8				MT8C8024M	
						μA4558		HA17741	Fujitsu	SE592			Mitsubishi	MH1M08A	
						LM1558			NEC	MB3609				MH1M08BOJ	
						RC4558			Toshiba	μPC151			Motorola	MCM81000	
						MC4558			Uniroute	TA7504			NEC	MC421000A8	
					Samsung	MC4558		HA17747	AD	PIC7504			OKI	MSC231148	
					SGS-Thomson	LS4558			Harris	OP04			Peps	1MX8	
						MC4558			MicroPwr	CA0747			Samsung	KMM581000A	
					Signetics	MC1458			Motorola	MPOPO4			TI	MPR68CTE64	
						MC1558			National	MC1747				TM024GAD8	
						NE4558				μA747			Toshiba	TM024GAD8	
						SA4558				LM747				THM81000	
						SE4558			NEC	μPC1418				THM81000A	
						MC1458			Raytheon	RC747			UTMC	UT67164	
						MC1558				RM747				UT7164	
						MC4558C				μA747		HB56A19	Fujitsu	MB85235	
						RC4558			Signetics	μA747			Hitachi	HB56A19B	
										μA747M				HB58A19	

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Hitachi (Cont'd)				HB56D51236	Mitsubishi NEC Toshiba	MH51236H MC424512A36BH THM365120		HB58A19	Toshiba	THM91000 THM91000A	(Cont'd)	HD14013	Signetics	HEF4013	
HB56A19		(Cont'd)		HB56D51236B	Fujitsu IBM	MB85337 6450604 6450608		HD100124	National Signetics	F100124 100124 100124A	(3608) (3608)	HD14014	Harris Motorola National	CD4014B MC14014 CD4014 F4014	
	MicronTech	MT8C9024 MT8C9024M						HD100180	Cypress Harris National Signetics Waferscale	CY7C510 HMA510 F100180 100180 WS59510	(3717)	HD14014	SGS-Thomson	HCC4014 HCF4014 HEF4014 TC4014B CD4015B	
	Mitsubishi	MH1M09 MH1M09B0J			MicronTech	MT8C36512 MT8C36512DM		HD14001	Harris Motorola National	CD4001UB MC14001UB CD4001UB F4001		HD14015	Signetics Toshiba Harris Motorola National	MC14015 CD4015 F4015 MM74C164 MSM4015	
	Motorola	MCM91000			Mitsubishi	MH51236AJ NEC MC424512A36B		HD14001	OKI	MSM4001		HD14015	Signetics	HEF4015	
	NEC	MC421000A9			OKI	MSC2317AYS9		HD14002	Toshiba Harris Motorola National	TC4001UB CD4002B MC14002 CD4002 F4002		HD14016	Toshiba Motorola	TC4015B CD4016B MC14016 MC14066	
	OKI	MSC2310Y59			Peps	MH51236A		HD14002	SGS-Thomson	HCC4002 HCF4002		HD14016	National	CD4016 CD4066 F4066	
	PEPS	PEP1MX9			Samsung	KMM536512B		HD14006	Signetics Toshiba Harris Motorola National	CD4006B MC14006 CD4006 F4006 F4006B		HD14016	SGS-Thomson	HCC4016 HCC4066 HCF4016 HCF4066 HEF4016 HEF4066	
	Samsung	KMM591000A			TI	TM512KBC36		HD14006	Signetics Toshiba Harris Motorola National	TC4006B CD4007B MC14007 CD4007 F4007		HD14018	SGS-Thomson	HCC4018 HCF4018 HEF4018 TC4018B CD4020B MC14020 National F4020	
	Siemens	HYM910005			Toshiba	THM36512AS THM36512OAS		HD14007	SGS-Thomson	HCC4007 HCF4007 HEF4007 TC4007UB CD4008B MC14008 CD4008 F4008 MM74C83		HD14020	SGS-Thomson	HCC4020 HCF4020 HEF4020 TC4020B CD4021B MC14021 National F4021	
	TI	TM024GAD9						HD14009	Signetics Toshiba Harris Motorola National SGS-Thomson	TC4008B CD4009UB MC14009 CD4009 HCC4009 HCF4009 TC4009UB CD4010B MC14010 National CD4010		HD14021	SGS-Thomson	HCC4021 HCF4021 HEF4021 TC4021B CD4022B MC14022 National F4022	
	Toshiba	THM91000						HD14010	Toshiba National	F4011		HD14022	Signetics Toshiba Harris Motorola National	MC14023 CD4023 F4023 MM74C10	
HB56A19A	Fujitsu	MB85265		HB561003	Dense-Pac Fujitsu	MB81C1000 TH2568 GM71C1000 HM511000 HM51102 HM561003 HY51C1000 HY51C1002		HD14011	OKI	MSM4011		HD14023	SGS-Thomson	HCC4023 HCF4023 HEF4023 TC4023B CD4024B MC14024 National CD4024 F4024	
	MicronTech	MT8C9024DMN						HD14012	Signetics	HEF4012		HD14024	SGS-Thomson	HCC4024 HCF4024 HEF4024 TC4024B	
	Peps	PEP1MX9LP 4MX9LP			GoldStar Hitachi	GM71C1000 HM511000 HM51102 HM561003 HY51C1000 HY51C1002		HD14013	Harris Motorola National	CD4013B MC14013 CD4013 F4013 MM74C74 MSM4013					
	Toshiba	THM91020A THM91020AL						HD14013	OKI	MSM4013					
HB56A19B	Fujitsu	MB85235			Hyundai	HY51C1000									
	Hitachi	HB56A19 HB58A19													
	MicronTech	MT8C9024 MT8C9024M			MicronTech	MT4C1024									
	Mitsubishi	MH1M09 MH1M09B0J			Mitsubishi	MH25608 M5M4C1000 M5M41000S M5M410000 MCM511000A									
	Motorola	MCM91000													
	NEC	MC421000A9			Motorola	μPD421000									
	OKI	MSC2310Y59			OKI	MSM41000									
	PEPS	PEP1MX9			Samsung	KM41C1000									
	Samsung	KMM591000A													
	Siemens	HYM910005			SGS-Thomson	KM41256A									
	TI	TM024GAD9													
	Toshiba	THM91000													
HB56A42	NEC	MC424100A8			Siemens	MKB45F56 HYB511000									
HB56A48A	Fujitsu	MB85287			TI	TMS4C1024 TM4256FC1 TM5256									
	OKI	MSC2341YS8													
	Samsung	MMK584000			Toshiba	TC511000 TC511000C TC511001C									
HB56A48B	Fujitsu	MB85280													
	OKI	MSC2341AYS8													
	Samsung	KMM584000A			HB561004A	Dense-Pac Peps	DPD4256 PEP4256EC4 TM4256EC4								
HB56A49	NEC	MC424100A9													
	Siemens	HYM940005			HB561005A	Dense-Pac TI	DPD4256 TM4256E05								
HB56A49A	Fujitsu	MB85285													
	OKI	MSC2340YSA													
HB56A49B	OKI	MSC2340AYS9			HB561008B	Dense-Pac Mitsubishi	DPD4256 MH25608A MH25608J								
	Samsung	KMM594000A													
HB56B18B	Fujitsu	MB85231													
	MicronTech	MT8C8025M													
	Mitsubishi	MH1M08B1J													
	NEC	MC421000B8													
	TI	TM025GAD8													
HB56C18	NEC	MC421000C8													
HB56D136	NEC	MC421000A36BH													
	Peps	MH1MX36													
HB56D136B	Fujitsu	MB85346													
	IBM	34F2933													
	MicronTech	MT9D136M			HB561009	Dense-Pac MicronTech	DPD4256 MT9259								
	Mitsubishi	MH1M36B0J													
	NEC	MC421000A36FH													
	OKI	MSC2350YS12													
	Peps	MH1MX36													
	Samsung	KMM5361000													
	Toshiba	THM361020													
		THM3610205C													
HB56D236	NEC	MC422000A36BH													
HB56D236B	Fujitsu	MB85347													
	NEC	MC422000A36FH													
	Peps	MH2MX36													
	Toshiba	THM362020													
		THM362020S													
HB56D25636	Mitsubishi	MB25636A													
	NEC	MC424256A36BH													
HB56D25636B	Toshiba	THM362500													
	Fujitsu	MB85336													
	IBM	6450603													
	MicronTech	MT8C36256M													
		MT8C36256MN													
	Mitsubishi	MH25636AJ													
	NEC	MC424256A36B													
	OKI	MC2320AYS9													
	Peps	MH25636A													
	Samsung	KMM536256B													
	TI	TM256K8C36													
	Toshiba	THM362500AS													

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Hitachi (Cont'd)				HD14044	Harris Motorola	CD4044B MC14044 MC4044 CD4044 F4044		HD14071	National	CD4071 CD4071B F4071 MM74C32 MSM4071		HD14175	National	CD40175 F40175 MM54C175 MM74C175	
HD14025	Harris Motorola National	CD4025B MC14025 CD4025 F4025		HD14044	National			HD14071	OKI SGS-Thomson			HD14175	Signetics Toshiba Harris Motorola	HEF40175 TC40175B CD40194B MC140194B MC14194 F40194	
HD14025	SGS-Thomson	HCC4025 HCF4025 HEF4025		HD14044	SGS-Thomson	HCC4044 HCF4044 HEF4044		HD14071	Signetics Toshiba Harris Motorola National	HCC4071 HCC4071B HCF4071 HCF4071B HEF4071 TC4071B DA071 DC08 MB4072 CD4072B MC14072 CD4072 F4072		HD14194	SGS-Thomson	HCC40194 HCC40194B HCF40194 HCF40194B HEF40194 TC40194B MB4053 MC14447 MB4053 MC14447 MC14502 MC14502B MC14502	
HD14025	Signetics	TC4025B		HD14046	Signetics Toshiba Harris Motorola National	CD4046B MC14046 CD4046 F4046		HD14072	Signetics Toshiba AD Fujitsu Harris Motorola National	HEF4072 TC4072B DA072 MB4072 CD4072B MC14072 CD4072 F4072		HD14194	Signetics Toshiba Fujitsu Motorola	MB4053 MC14447 MB4053 MC14447 MC14502 MC14502B MC14502	
HD14027	Harris Motorola	MC14027 MC14027B		HD14046	SGS-Thomson	HCC4046 HCF4046 HEF4046		HD14072	SGS-Thomson	HCC4072 HCF4072 HEF4072 TC4072B CD4073B MC14073 CD4073 F4073		HD14443	Motorola	MC14447	
HD14027	National	CD4027 CD4027B F4027		HD14049	Harris Motorola National	CD4049UB MC14049 CD4049 F4049		HD14072	Signetics Toshiba Harris Motorola National	HCC4072 HCF4072 HEF4072 TC4072B CD4073B MC14073 CD4073 F4073		HD14447	Fujitsu Motorola	MB4053 MC14447	
HD14027	OKI SGS-Thomson	MM74C76 MSM4027		HD14049	OKI SGS-Thomson	MSM4049		HD14073	Signetics Toshiba Harris Motorola National	HCC4073 HCF4073 HEF4073 TC4073B CD4075B MC14075 CD4075 F4075		HD14502	Harris Motorola	CD4502B MC14502 MC14502B	
HD14027	Signetics	HEF4027		HD14049	Signetics	HCC4049 HCF4049 HEF4049		HD14073	SGS-Thomson	HCC4073 HCF4073 HEF4073 TC4073B CD4075B MC14075 CD4075 F4075		HD14502	SGS-Thomson	HCC4502 HCC4502B HCF4502 HCF4502B MK4502 HEF4502 TC4502B CD4503B MC14503 CD4503 F40097B	
HD14028	Toshiba	TC4027B		HD14050	Harris	CD4050B		HD14073	Signetics	HEF4073		HD14502	Signetics	HEF4502	
HD14028	Harris	CD4028B		HD14050	Motorola	MC14050		HD14075	Harris	CD4075B		HD14503	Harris	CD4503B	
HD14028	Motorola	MC14028		HD14050	National	CD4050		HD14075	Motorola	MC14075		HD14503	Motorola	MC14503	
HD14028	National	CD4028		HD14050	SGS-Thomson	HCC4050 HCF4050 HEF4050		HD14075	SGS-Thomson	HCC4075 HCF4075 HEF4075 TC4075B CD4076B MC14076 CD4076 F4076		HD14503	SGS-Thomson	HCC4503 HCF4503 HEF4503 TC4503B CD4508B MC14508 HCC/HCF4508 HCC4508 HCF4508 HEF4508 TC4508B CD4510B MC14510 CD4510 F4510	
HD14028	OKI	MM74C42		HD14050	Signetics	HEF4050		HD14075	Signetics	HEF4075		HD14508	Toshiba	TC4508B	
HD14028	SGS-Thomson	MSM4028		HD14051	Harris	CD4051B		HD14075	SGS-Thomson	HCC4075 HCF4075 HEF4075 TC4075B CD4076B MC14076 CD4076 F4076		HD14508	Harris	CD4508B	
HD14028	Signetics	HEF4028		HD14051	Motorola	MC14051		HD14075	Signetics	HEF4075		HD14508	Motorola	MC14508	
HD14028	Toshiba	TC4028B		HD14051	National	CD4051		HD14076	Harris	CD4076B		HD14508	SGS-Thomson	HCC4508 HCF4508 HEF4508 TC4508B CD4510B MC14510 CD4510 F4510	
HD14032	Harris	CD4032B		HD14051	SGS-Thomson	HCC4051 HCF4051 HEF4051		HD14076	Motorola	MC14076		HD14510	Toshiba	TC4510B	
HD14032	Motorola	MC14032		HD14051	Signetics	HEF4051		HD14076	National	CD4076		HD14510	Motorola	MC14510	
HD14032	SGS-Thomson	HCC4032 HCF4032 HEF4032		HD14051	Toshiba	TC4051B		HD14076	SGS-Thomson	HCC4076 HCF4076 HEF4076 TC4076B CD4077B MC14077 MC14077B CD4077 F4077		HD14510	National	CD4510	
HD14033	Harris	CD4033B		HD14052	Harris	HI1828A		HD14077	Signetics	HEF4077		HD14511	SGS-Thomson	HCC4511 HCF4511 HEF4511 TC4511B CD4512B MC14512 CD4512 F4512	
HD14033	Motorola	MC14033		HD14052	Motorola	MC14052		HD14077	Motorola	MC14077		HD14511	Signetics	HEF4511	
HD14033	National	CD4033		HD14053	Toshiba	TC4052B		HD14077	National	CD4077		HD14511	Toshiba	TC4511B	
HD14034	SGS-Thomson	HCC4034 HCF4034 HEF4034		HD14053	Harris	CD4053B		HD14077	SGS-Thomson	HCC4077 HCC4077B HCF4077 HCF4077B HEF4077 TC4077B CD4078B MC14078 F4078		HD14511	Harris	CD4511B	
HD14034	Toshiba	TC4034B		HD14053	Motorola	MC14053		HD14078	Signetics	HEF4077		HD14511	Motorola	MC14511	
HD14035	Harris	CD4035B		HD14053	National	CD4053		HD14078	Toshiba	TC4077B		HD14511	National	CD4511	
HD14035	Motorola	MC14035		HD14053	SGS-Thomson	HCC4053 HCF4053 HEF4053		HD14078	Harris	CD4078B		HD14511	SGS-Thomson	F4511	
HD14035	National	CD4035B		HD14053	Signetics	HEF4053		HD14078	Motorola	MC14078		HD14511	Signetics	HEF4511	
HD14035	SGS-Thomson	F4035		HD14053	Toshiba	TC4053B		HD14078	National	F4078		HD14512	Toshiba	TC4512B	
HD14035	Harris	CD4038B		HD14053	Harris	CD4016B		HD14078	SGS-Thomson	HCC4078 HCF4078 HEF4078 TC4078B CD4081B MC14081 CD4081 F4081 MM74C08 MSM4081		HD14512	Motorola	MC14512	
HD14038	Motorola	MC14038		HD14053	Motorola	MC14016		HD14081	Signetics	HCC4081 HCF4081 HEF4081		HD14512	National	CD4512	
HD14038	SGS-Thomson	HCC4038 HCF4038 HEF4038		HD14053	National	CD4016		HD14081	Toshiba	TC4081B		HD14512	SGS-Thomson	F4512	
HD14038	Toshiba	TC4038B		HD14053	SGS-Thomson	CD4066		HD14081	Harris	CD4081B		HD14512	Signetics	HEF4512	
HD14040	Harris	CD4040B		HD14053	Signetics	F4016		HD14081	Motorola	MC14081		HD14514	Toshiba	TC4512B	
HD14040	Motorola	MC14040		HD14053	Motorola	CD4066		HD14081	National	CD4081		HD14514	Harris	CD4514B	
HD14040	National	CD4040		HD14053	SGS-Thomson	F4066		HD14081	OKI	MM74C08		HD14514	Motorola	MC14514	
HD14040	SGS-Thomson	F4040		HD14053	Signetics	HEF4066		HD14081	SGS-Thomson	MSM4081		HD14514	National	CD4514	
HD14040	Signetics	HEF4040		HD14053	Toshiba	TC4066B		HD14082	Signetics	HCC4082 HCF4082 HEF4082		HD14514	SGS-Thomson	F4514	
HD14042	Harris	CD4042B		HD14053	Unitrode	PICT516		HD14082	Motorola	MC14082		HD14514	Signetics	HEF4514	
HD14042	Motorola	MC14042		HD14053	Harris	CD4068B		HD14082	Motorola	MC14082		HD14515	Toshiba	TC4514B	
HD14042	National	CD4042		HD14053	Motorola	MC14068		HD14082	National	CD4082		HD14515	Harris	CD4515B	
HD14042	SGS-Thomson	F4042		HD14053	National	F4068		HD14082	Motorola	MC14082		HD14515	Motorola	MC14515	
HD14042	Signetics	HEF4042		HD14053	SGS-Thomson	HCC4068 HCF4068 HEF4068		HD14082	SGS-Thomson	HCC4082 HCF4082 HEF4082		HD14515	National	CD4515	
HD14042	Toshiba	TC4042B		HD14053	Signetics	HEF4068		HD14082	Signetics	HEF4082		HD14515	SGS-Thomson	HCC4515 HCF4515 HEF4515	
HD14043	Harris	CD4043B		HD14053	Toshiba	TC4068B		HD14082	Toshiba	TC4082B		HD14515	Signetics	HEF4515	
HD14043	Motorola	MC14043		HD14053	Harris	CD4070B		HD14082	Motorola	MC14082		HD14515	Toshiba	TC4515B	
HD14043	National	CD4043		HD14053	Motorola	MC14070		HD14082	National	CD4082		HD14515	Harris	CD4516B	
HD14043	SGS-Thomson	HCC4043 HCF4043 HEF4043		HD14053	National	F4070		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	Signetics	HEF4043		HD14053	SGS-Thomson	MM74C86		HD14082	SGS-Thomson	HCC4082 HCF4082 HEF4082		HD14515	SGS-Thomson	F4515	
HD14043	Toshiba	TC4043B		HD14053	Signetics	HEF4070		HD14082	Signetics	HEF4082		HD14515	SGS-Thomson	HCC4515 HCF4515 HEF4515	
HD14043	Motorola	MC14043		HD14053	Motorola	MC14071		HD14082	Motorola	MC14082		HD14515	Signetics	HEF4515	
HD14043	SGS-Thomson	F4043		HD14053	Motorola	MC14071		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	Signetics	HEF4043		HD14053	SGS-Thomson	HCC4070 HCF4070 HEF4070		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	Toshiba	TC4043B		HD14053	Signetics	HEF4070		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	Motorola	MC14043		HD14053	Motorola	MC14071		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	SGS-Thomson	F4043		HD14053	SGS-Thomson	HCC4070 HCF4070 HEF4070		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	Signetics	HEF4043		HD14053	Motorola	MC14071		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	Toshiba	TC4043B		HD14053	SGS-Thomson	HCC4070 HCF4070 HEF4070		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	Motorola	MC14043		HD14053	SGS-Thomson	HCC4070 HCF4070 HEF4070		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	SGS-Thomson	F4043		HD14053	Signetics	HEF4070		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	Signetics	HEF4043		HD14053	Motorola	MC14071		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	Toshiba	TC4043B		HD14053	SGS-Thomson	HCC4070 HCF4070 HEF4070		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	Motorola	MC14043		HD14053	SGS-Thomson	HCC4070 HCF4070 HEF4070		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	SGS-Thomson	F4043		HD14053	Signetics	HEF4070		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	Signetics	HEF4043		HD14053	Motorola	MC14071		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	Toshiba	TC4043B		HD14053	SGS-Thomson	HCC4070 HCF4070 HEF4070		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	Motorola	MC14043		HD14053	SGS-Thomson	HCC4070 HCF4070 HEF4070		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	SGS-Thomson	F4043		HD14053	Signetics	HEF4070		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	Signetics	HEF4043		HD14053	Motorola	MC14071		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	Toshiba	TC4043B		HD14053	SGS-Thomson	HCC4070 HCF4070 HEF4070		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	Motorola	MC14043		HD14053	SGS-Thomson	HCC4070 HCF4070 HEF4070		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	SGS-Thomson	F4043		HD14053	Signetics	HEF4070		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	Signetics	HEF4043		HD14053	Motorola	MC14071		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	Toshiba	TC4043B		HD14053	SGS-Thomson	HCC4070 HCF4070 HEF4070		HD14082	Motorola	MC14082		HD14515	Motorola	MC14516	
HD14043	Motorola	MC14043		HD14053	SGS-Thomson	HCC4070 HCF4070 HEF4070		HD							

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Hitachi (Cont'd)				• HD14553	Motorola	MC14553		• HD4519	Harris	CD4519B		• HD74HCT125	Harris	CD74HCT125	
• HD14516	National	CD4516	(Cont'd)	• HD14555	National	F4553		• HD4519	Motorola	MC14519		• HD74HCT126	Signetics	74HCT125	
• HD14516	SGS-Thomson	F4516		• HD14555	TeledyneS	TP4553		• HD4519	National	MC14519B		• HD74HCT126	Harris	CD74HCT126	
• HD14516	Signetics	HCC4516		• HD14555	Harris	CD4555B		• HD4519	Signetics	CD4519B		• HD74HCT138	Signetics	74HCT126	
• HD14517	Toshiba	HEF4516		• HD14557	Motorola	MC14555		• HD4519	Toshiba	HEF4519		• HD74HCT138	Marconi	CD74HCT138	
• HD14517	Harris	TC4516B		• HD14557	National	F4555		• HD54HCT240	Motorola	CD54HCT240		• HD74HCT138	National	74HCT138	
• HD14517	Motorola	CD4517B		• HD14557	SGS-Thomson	HCC4555		• HD54HCT240	Marconi	54HCT240		• HD74HCT138	Plessey	MM74HCT138	
• HD14517	SGS-Thomson	HCC4517		• HD14558	Signetics	HEF4555		• HD54HCT240	Micrel	MC54HCT240		• HD74HCT138	SGS-Thomson	MV74HCT138	
• HD14517	Signetics	HEF4517		• HD14558	Toshiba	TC4555B		• HD54HCT240	Motorola	MC54HCT240		• HD74HCT138	Signetics	M74HCT138	
• HD14518	Harris	CD4518B		• HD14558	Motorola	MC14557		• HD54HCT240	National	MM54HCT240		• HD74HCT138	TI	74HCT138	
• HD14518	Motorola	MC14518		• HD14558	National	F4557		• HD54HCT240	TI	SN54HCT240		• HD74HCT138	Toshiba	SN74HCT138	
• HD14518	National	CD4518		• HD14558	Signetics	HEF4557		• HD54HCT240	TI	SN54HCT240		• HD74HCT138	Signetics	TC74HCT138A	(3674)
• HD14518	SGS-Thomson	F4518		• HD14558	Harris	CD4055B		• HD54HCT240	TI	SN54HCT240		• HD74HCT240	Harris	CD74HCT240	
• HD14518	SGS-Thomson	HCC4518		• HD14560	Motorola	MC14560		• HD54HCT240	Hitachi	HD6850		• HD74HCT240	Marconi	74HCT240	
• HD14518	Signetics	HEF4518		• HD14561	Motorola	MC14561		• HD54HCT240	Motorola	MC6850		• HD74HCT240	Motorola	MC74HCT240	
• HD14518	Toshiba	TC4518B		• HD14561	Toshiba	TC4561B		• HD54HCT240	Samsung	KS5824		• HD74HCT240	National	MM74HCT240	
• HD14519	Harris	CD4519B		• HD14569	Motorola	MC14569		• HD54HCT240	SGS-Thomson	EF6850		• HD74HCT240	Plessey	MV74HCT240	
• HD14519	Motorola	MC14519B		• HD14572	Signetics	HEF4059		• HD54HCT240	SGS-Thomson	Z80180		• HD74HCT240	Samsung	74HCT240	
• HD14519	National	CD4519B		• HD14572	Motorola	MC14572		• HD54HCT240	SGS-Thomson	KS0063		• HD74HCT240	SGS-Thomson	M74HCT240	
• HD14519	Signetics	HEF4519		• HD14572	Toshiba	TC4572B		• HD54HCT240	SGS-Thomson	MC6800		• HD74HCT240	Signetics	74HCT240	
• HD14520	Toshiba	CD4520B		• HD14580	Motorola	MC14580		• HD54HCT240	SGS-Thomson	F6800A		• HD74HCT240	TI	SN74HCT240	
• HD14520	Harris	MC14520		• HD14580	SGS-Thomson	HCC40108		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT240	Toshiba	TC74HCT240A	(3674)
• HD14520	National	F4520		• HD14580	SGS-Thomson	HCC40108		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT241	Harris	CD74HCT241	
• HD14520	OKI	MSM4520		• HD14581	Harris	CD40181B		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT241	Marconi	74HCT241	
• HD14520	SGS-Thomson	HCC4520		• HD14581	Motorola	MC14581		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT241	Motorola	MM74HCT241	
• HD14520	Signetics	HEF4520		• HD14581	National	MM74C181		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT241	National	MM74HCT241	
• HD14520	Toshiba	TC4520B		• HD14581	SGS-Thomson	HCC40181		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT241	Plessey	MV74HCT241	
• HD14526	Motorola	MC14526		• HD14582	Harris	CD40182B		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT241	Samsung	74HCT241	
• HD14526	National	CD4526		• HD14582	Motorola	MC14582		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT241	SGS-Thomson	M74HCT241	
• HD14526	Signetics	HEF4526		• HD14582	National	F4582		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT241	Signetics	74HCT241	
• HD14527	Toshiba	CD4526B		• HD14582	SGS-Thomson	MM74C182		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT241	TI	SN74HCT241	
• HD14527	Harris	MC4527B		• HD14582	SGS-Thomson	HCC40182		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT241	Toshiba	TC74HCT241A	(3674)
• HD14527	Motorola	CD4527		• HD14582	SGS-Thomson	HCC40182		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT242	Harris	CD74HCT242	
• HD14527	National	F4527		• HD14582	SGS-Thomson	HCC40182		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT242	Signetics	74HCT242	
• HD14527	SGS-Thomson	HCC4527		• HD14583	Motorola	MC14583		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT242	TI	SN74HCT242	
• HD14527	Signetics	HEF4527		• HD14583	National	F4583		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT243	Harris	CD74HCT243	
• HD14527	Toshiba	TC4527B		• HD14583	Toshiba	TC4583B		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT243	Signetics	74HCT243	
• HD14528	Motorola	MC14528		• HD14585	Harris	CD4585B		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT243	TI	SN74HCT243	
• HD14528	National	CD4528		• HD14585	Motorola	MC14585		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT244	Harris	CD74HCT244	
• HD14528	SGS-Thomson	F4528		• HD14585	National	F40085		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT244	Marconi	74HCT244	
• HD14528	SGS-Thomson	MM74C221		• HD14585	SGS-Thomson	MM74C85		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT244	Motorola	MC74HCT244	
• HD14528	SGS-Thomson	HCC4098		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT244	National	MM74HCT244	
• HD14528	Signetics	HEF4098		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT244	Plessey	MV74HCT244	
• HD14528	Toshiba	TC4528B		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT244	SGS-Thomson	M74HCT244	
• HD14531	Motorola	MC14531		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT244	Signetics	74HCT244	
• HD14531	National	F4531		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT244	TI	SN74HCT244	
• HD14531	SGS-Thomson	HCC40101		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT244	Toshiba	TC74HCT244A	(3674)
• HD14531	Signetics	HEF4531		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	Harris	CD74HCT245	
• HD14532	Toshiba	TC4531B		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	Marconi	74HCT245	
• HD14532	Harris	CD4532B		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	Motorola	MC74HCT245	
• HD14532	Motorola	MC14532		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	National	MM74HCT245	
• HD14532	National	F4532		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	Plessey	MV74HCT245	
• HD14532	SGS-Thomson	HCC40101		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	SGS-Thomson	MV74HCT245	
• HD14532	Signetics	HEF4532		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	SGS-Thomson	M74HCT245	
• HD14532	Toshiba	TC4532B		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	Signetics	74HCT245	
• HD14534	Motorola	MC14534		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	TI	SN74HCT245	
• HD14539	Motorola	MC14539		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	Toshiba	TC74HCT245A	(3674)
• HD14539	National	F4539		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	SGS-Thomson	M74HCT245	
• HD14539	Signetics	HEF4539		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	Signetics	74HCT245	
• HD14539	Toshiba	TC4539B		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	TI	SN74HCT245	
• HD14543	Harris	CD4543B		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	Toshiba	TC74HCT245A	(3674)
• HD14543	Motorola	MC14543		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	SGS-Thomson	M74HCT245	
• HD14543	National	F4543		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	Signetics	74HCT245	
• HD14543	Signetics	HEF4543		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	TI	SN74HCT245	
• HD14543	Toshiba	TC4543B		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	Toshiba	TC74HCT245A	(3674)
• HD14543	SGS-Thomson	HCC40101		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	SGS-Thomson	M74HCT245	
• HD14543	Signetics	HEF4543		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	Signetics	74HCT245	
• HD14543	Toshiba	TC4543B		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	TI	SN74HCT245	
• HD14543	SGS-Thomson	HCC40101		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	Toshiba	TC74HCT245A	(3674)
• HD14543	Signetics	HEF4543		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	SGS-Thomson	M74HCT245	
• HD14543	Toshiba	TC4543B		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	Signetics	74HCT245	
• HD14543	SGS-Thomson	HCC40101		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	TI	SN74HCT245	
• HD14543	Signetics	HEF4543		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	Toshiba	TC74HCT245A	(3674)
• HD14543	Toshiba	TC4543B		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	SGS-Thomson	M74HCT245	
• HD14543	SGS-Thomson	HCC40101		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	Signetics	74HCT245	
• HD14543	Signetics	HEF4543		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	TI	SN74HCT245	
• HD14543	Toshiba	TC4543B		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	Toshiba	TC74HCT245A	(3674)
• HD14543	SGS-Thomson	HCC40101		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	SGS-Thomson	M74HCT245	
• HD14543	Signetics	HEF4543		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	Signetics	74HCT245	
• HD14543	Toshiba	TC4543B		• HD14585	SGS-Thomson	HCC4098		• HD54HCT240	SGS-Thomson	EF6800		• HD74HCT245	TI	SN74HCT245	
• HD14543	SGS-Thomson	HCC40101													

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page		
Hitachi (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)					
HD74HCT533	Harris	CD74HCT533		HD74HCT643	Signetics	74HCT643		HD74HC11	SGS-Thomson	M74HC11		HD74HC147	Harris	CD74HC147			
	Marconi	74HCT533			TI	SN74HCT643				74HC11			Motorola	MC74HC147			
	Motorola	MC74HCT533			Toshiba	TC74HCT643A	(3674)			SN74HC11			National	MM74HC147			
	National	MM74HCT533		HD74HCT646	Harris	CD74HCT646		HD74HC112	SGS-Thomson	SN74HC11			SGS-Thomson	M74HC147			
	Plessey	MV74HCT533			SGS-Thomson	M74HCT646				CD74HC112			Signetics	74HC147			
	Signetics	74HCT533				74HCT646				Motorola	MC74HC112		TI	SN74HC147			
	TI	SN74HCT533			Signetics	SN74HCT646				National	MM74HC112		Toshiba	TC74HC147A	(3674)		
	Toshiba	TC74HCT533A	(3674)		Toshiba	TC74HCT646A	(3674)			SGS-Thomson	M74HC112		HD74HC148	SGS-Thomson	M74HC148		
HD74HCT534	Harris	CD74HCT534		HD74HCT648	Harris	CD74HCT648				74HC112				TI	SN74HC148		
	Marconi	74HCT534			SGS-Thomson	M74HCT648				TI	SN74HC112			Toshiba	TC74HC148A	(3674)	
	Motorola	MC74HCT534				74HCT648		HD74HC113	Harris	CD74HC113		HD74HC151	Harris	CD74HC151			
	National	MM74HCT534			Signetics	SN74HCT648				Motorola	MC74HC113			Motorola	MC74HC151		
	Plessey	MV74HCT534			TI	TC74HCT648A	(3674)			National	MM74HC113			National	MM74HC151		
	Signetics	74HCT534			Toshiba					SGS-Thomson	M74HC113			SGS-Thomson	M74HC151		
	TI	SN74HCT534		HD74HCT651	Harris	CD74HCT651					74HC113			Signetics	74HC151		
	Toshiba	TC74HCT534A	(3674)		SGS-Thomson	MC74HCT651					TI	SN74HC113		TI	SN74HC151		
HD74HCT540	Harris	CD74HCT540			TI	TC74HCT651A	(3674)				Toshiba	TC74HC113A	(3674)		Toshiba	TC74HC151A	(3674)
	Marconi	74HCT540															
	Motorola	MC74HCT540		HD74HCT652	Harris	CD74HCT652		HD74HC114	TI	SN74HC114		HD74HC152	TI	SN74HC152			
	National	MM74HCT540			SGS-Thomson	MC74HCT652		HD74HC123	Harris	CD74HC123		HD74HC153	Harris	CD74HC153			
	Plessey	MV74HCT540				SN74HCT652				National	MM74HC123			National	MM74HC153		
	SGS-Thomson	M74HCT540			TI	TC74HCT652A	(3674)			SGS-Thomson	M74HC123			SGS-Thomson	M74HC153		
	Signetics	74HCT540			Toshiba						74HC123				74HC153		
	TI	SN74HCT540		HD74HC00	Harris	CD74HC00					Toshiba	TC74HC123A	(3674)		Signetics	74HC153	
	Toshiba	TC74HCT540A	(3674)		Motorola	MC74HC00		HD74HC125	Harris	CD74HC125				TI	SN74HC153		
HD74HCT541	Harris	CD74HCT541			National	MM74HC00				Motorola	MC74HC125		HD74HC154	Harris	CD74HC154		
	Marconi	74HCT541			SGS-Thomson	M74HC00				National	MM74HC125			Motorola	MC74HC154		
	National	MM74HCT541				74HC00				SGS-Thomson	M74HC125			National	MM74HC154		
	Plessey	MV74HCT541			Signetics	SN74HC00					74HC125						
	SGS-Thomson	M74HCT541			TI	TC74HC00A	(3674)				TI	SN74HC125			Signetics	74HC154	
	Signetics	74HCT541			Toshiba						Toshiba	TC74HC125A	(3674)		TI	SN74HC154	
	TI	SN74HCT541		HD74HC01	Harris	CD74HC01									Toshiba	TC74HC154A	(3674)
	Toshiba	TC74HCT541A	(3674)	HD74HC02	Motorola	MC74HC02		HD74HC126	Harris	CD74HC126							
HD74HCT563	Harris	CD74HCT563			National	MM74HC02				Motorola	MC74HC126		HD74HC157	Harris	CD74HC157		
	Marconi	74HCT563			SGS-Thomson	M74HC02				National	MM74HC126			Motorola	MC74HC157		
	National	MM74HCT563				74HC02				SGS-Thomson	M74HC126			National	MM74HC157		
	Plessey	MV74HCT563			Signetics	SN74HC02					74HC126						
	SGS-Thomson	M74HCT563			TI	TC74HC02A	(3674)				Toshiba	TC74HC126A	(3674)		Signetics	74HC157	
	Signetics	74HCT563		HD74HC04	Harris	CD74HC04								TI	SN74HC157		
	TI	SN74HCT563			National	MM74HC04		HD74HC132	Harris	CD74HC132				Toshiba	TC74HC157A	(3674)	
	Toshiba	TC74HCT563			SGS-Thomson	M74HC04				Motorola	MC74HC132		HD74HC158	Harris	CD74HC158		
	Toshiba	CD74HCT564				SN74HC04				National	MM74HC132			Motorola	MC74HC158		
	Harris	CD74HCT564			Signetics	TC74HC04A	(3674)			SGS-Thomson	M74HC132			National	MM74HC158		
	Marconi	74HCT564			TI						74HC132						
	Motorola	MC74HCT564		HD74HC08	Harris	CD74HC08					TI	SN74HC132			Signetics	74HC158	
	National	MM74HCT564			Motorola	MC74HC08					Toshiba	TC74HC132A	(3674)		TI	SN74HC158	
	Plessey	MV74HCT564			National	MM74HC08									Toshiba	TC74HC158A	(3674)
	SGS-Thomson	M74HCT564			SGS-Thomson	M74HC08		HD74HC137	Harris	CD74HC137							
	Signetics	74HCT564				74HC08				Motorola	MC74HC137						
	TI	SN74HCT564			Signetics	SN74HC08				National	MM74HC137						
	Toshiba	TC74HCT564			TI	TC74HC08A	(3674)			SGS-Thomson	M74HC137		HD74HC161	Harris	CD74HC161		
	Toshiba	CD74HCT573			Toshiba						74HC137				Motorola	MC74HC161	
	Harris	CD74HCT573				SN74HC09A					TI	SN74HC137			National	MM74HC161	
	Marconi	74HCT573			SGS-Thomson	MM74HC10					Toshiba	TC74HC137A	(3674)				
	National	MM74HCT573				M74HC10											
	Plessey	MV74HCT573				74HC10											
	SGS-Thomson	M74HCT573				SN74HC10											
	Signetics	74HCT573				TC74HC10A	(3674)										
	TI	SN74HCT573															
	Toshiba	TC74HCT573				MC74HC107											
	Toshiba	CD74HCT574				MM74HC107											
	Harris	CD74HCT574				M74HC10											
	Marconi	74HCT574				74HC10											
	National	MM74HCT574				SN74HC10											
	Plessey	MV74HCT574				TC74HC10A	(3674)										
	SGS-Thomson	M74HCT574															
	Signetics	74HCT574				CD74HC107											
	TI	SN74HCT574				MC74HC107											
	Toshiba	TC74HCT574				MM74HC107											
	SGS-Thomson	M74HCT574															
	Signetics	74HCT574				74HC107											
	TI	SN74HCT574				SN74HC107											
	Toshiba	TC74HCT574				TC74HC107A	(3674)										
	SGS-Thomson	M74HCT620															
	Signetics	74HCT620				MC74HC109											
	TI	SN74HCT620				MM74HC109											
	Toshiba	TC74HCT620															
	SGS-Thomson	M74HCT620															
	Signetics	74HCT620															
	TI	SN74HCT620															
	Toshiba	TC74HCT620															
	SGS-Thomson	M74HCT640															
	Signetics	74HCT640															
	TI	SN74HCT640															
	Toshiba	TC74HCT640A	(3674)														
	SGS-Thomson	M74HCT643															
	Signetics	74HCT643															
	TI	SN74HCT643															
	Toshiba	TC74HCT643A	(3674)														
	SGS-Thomson	M74HCT643															
	Signetics	74HCT643															
	TI	SN74HCT643															
	Toshiba	TC74HCT643A	(3674)														
	SGS-Thomson	M74HCT643															
	Signetics	74HCT643															
	TI	SN74HCT643															
	Toshiba	TC74HCT643A	(3674)														
	SGS-Thomson	M74HCT643															
	Signetics	74HCT643															
	TI	SN74HCT643															
	Toshiba	TC74HCT643A	(3674)														
	SGS-Thomson	M74HCT643															
	Signetics	74HCT643															
	TI	SN74HCT643															
	Toshiba	TC74HCT643A	(3674)														
	SGS-Thomson	M74HCT643															
	Signetics	74HCT643															
	TI	SN74HCT643															
	Toshiba	TC74HCT643A	(3674)														
	SGS-Thomson	M74HCT643															

NET. SOURCE DIRECTORY

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Hitachi (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
HD74HC393	Signetics TI Toshiba	74HC393 SN74HC393 TC74HC393A	(3674)	HD74HC541	Signetics TI Toshiba	74HC541 SN74HC541 TC74HC541A	(3674)	HD74HC643	SGS-Thomson	M74HC643		HD74LS01	SGS-Thomson	T74LS01	(Cont'd)
HD74HC4020	Harris Motorola National SGS-Thomson	CD74HC4020 MC74HC4020 MM74HC4020		HD74HC563	Harris Motorola National SGS-Thomson	CD74HC563 MC74HC563 MM74HC563		HD74HC646	Harris Motorola National SGS-Thomson	CD74HC646 MC74HC646 MM74HC646		HD74LS02	Motorola National	SN74LS02 DM74LS02	
HD74HC4024	Signetics TI Toshiba	M74HC4020 74HC4020 SN74HC4020 TC74HC4020		HD74HC564	Signetics TI Toshiba	74HC563 SN74HC563 TC74HC563A	(3674)	HD74HC648	Signetics TI Toshiba	M74HC646 74HC646 SN74HC646 TC74HC646A	(3674)	HD74LS03	Motorola National	SN74LS03 DM74LS03	
HD74HC4040	Harris Motorola National SGS-Thomson	CD74HC4040 MC74HC4040 MM74HC4040		HD74HC573	Harris Motorola National SGS-Thomson	CD74HC573 MC74HC573 MM74HC573		HD74HC651	Harris SGS-Thomson	CD74HC648 MC74HC648 MM74HC648		HD74LS04	Panasonic SGS-Thomson	DM74LS04 T74LS04	
HD74HC42	Signetics TI Toshiba	M74HC4024 74HC4024 SN74HC4024 TC74HC4024A	(3674)	HD74HC574	Signetics TI Toshiba	M74HC564 74HC564 SN74HC564 TC74HC564A	(3674)	HD74HC652	Signetics TI Toshiba	M74HC648 74HC648 SN74HC648 TC74HC648A	(3674)	HD74LS05	Motorola National	SN74LS04 DM74LS04 T74LS04	
HD74HC423	Harris Motorola National SGS-Thomson	CD74HC4040 MC74HC4040 MM74HC4040		HD74HC575	Harris Motorola National SGS-Thomson	CD74HC573 MC74HC573 MM74HC573		HD74HC652	Harris SGS-Thomson	CD74HC651 M74HC651 SN74HC651 TC74HC651A	(3674)	HD74LS08	Panasonic SGS-Thomson	DM74LS05 T74LS05	
HD74HC4514	Signetics TI Toshiba	M74HC42 74HC42 SN74HC42 TC74HC42A	(3674)	HD74HC590	Signetics TI Toshiba	M74HC574 74HC574 SN74HC574 TC74HC574A	(3674)	HD74HC652	Harris SGS-Thomson	CD74HC652 M74HC652 SN74HC652 TC74HC652A	(3674)	HD74LS09	Motorola National	SN74LS08 DM74LS08 T74LS08	
HD74HC490	TI	SN74HC423A TC74HC423A	(3674)	HD74HC592	National	MM74HC590		HD74HC652	Harris SGS-Thomson	CD74HC652 M74HC652 SN74HC652 TC74HC652A	(3674)	HD74LS10	Panasonic SGS-Thomson	DM74LS09 T74LS09	
HD74HC51	Harris Motorola National SGS-Thomson	CD74HC4514 MC74HC4514 MM74HC4514		HD74HC593	TI Toshiba	M74HC592 TC74HC592 (3674)		HD74HC652	Harris SGS-Thomson	CD74HC652 M74HC652 SN74HC652 TC74HC652A	(3674)	HD74LS11	Motorola National	SN74LS09 DM74LS09 T74LS09	
HD74HC533	Signetics TI Toshiba	M74HC4514 74HC4514 SN74HC4514 TC74HC4514A	(3674)	HD74HC595	LogicDev Motorola National SGS-Thomson	L7C164 MC74HC595 MM74HC595		HD74HC652	Harris SGS-Thomson	CD74HC652 M74HC652 SN74HC652 TC74HC652A	(3674)	HD74LS12	Motorola National	SN74LS10 DM74LS10 T74LS10	
HD74HC534	Harris Motorola National SGS-Thomson	CD74HC51 MC74HC51 MM74HC51		HD74HC597	TI Toshiba	M74HC595 SN74HC595 TC74HC595A	(3674)	HD74HC652	Harris SGS-Thomson	CD74HC652 M74HC652 SN74HC652 TC74HC652A	(3674)	HD74LS13	Panasonic SGS-Thomson	DM74LS11 T74LS11	
HD74HC540	Signetics TI Toshiba	M74HC533 74HC533 SN74HC533 TC74HC533A	(3674)	HD74HC620	National	MM74HC597		HD74HC652	Harris SGS-Thomson	CD74HC652 M74HC652 SN74HC652 TC74HC652A	(3674)	HD74LS14	Motorola National	SN74LS11 DM74LS11 T74LS11	
HD74HC541	Harris Motorola National SGS-Thomson	CD74HC534 MC74HC534 MM74HC534		HD74HC623	National	MM74HC620		HD74HC652	Harris SGS-Thomson	CD74HC652 M74HC652 SN74HC652 TC74HC652A	(3674)				

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Hitachi (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
HD74LS114	SGS-Thomson	T74LS114		HD74LS151A	Panasonic	DN74LS151		HD74LS164	Motorola	SN74LS164A		HD74LS195A	SGS-Thomson	L7924	
	TI	SN74LS114A			SGS-Thomson	T74LS151			National	DM74LS164			TI	T74LS195A	
HD74LS12	Motorola	SN74LS12		HD74LS152	Signetics	74LS151			Panasonic	DN74LS164				μA7924	
	National	DM74LS12			TI	SN74LS151			SGS-Thomson	T74LS164		HD74LS196	Toshiba	TA79024	
	Panasonic	DN74LS12			SGS-Thomson	T74LS152			Signetics	74LS164			Motorola	SN74LS196	
	SGS-Thomson	T74LS12		HD74LS153	Signetics	74LS152		HD74LS169	TI	SN74LS164			National	DM74LS196	
	TI	SN74LS12			TI	SN74LS152			Motorola	SN74LS169		HD74LS196	Panasonic	74LS196	
HD74LS122	Motorola	SN74LS122			Motorola	SN74LS153			National	DM74LS169			SGS-Thomson	DN74LS196	
	National	DM74LS122			National	DM74LS153			SGS-Thomson	74LS169				T74LS196	
	TI	SN74LS122			Panasonic	DN74LS153			Signetics	74LS169A			Signetics	N82S80	
HD74LS123	Motorola	SN74LS123			SGS-Thomson	T74LS153		HD74LS174	TI	SN74LS169		HD74LS197	TI	SN74LS196	
	National	DM74LS123			Signetics	74LS153			Motorola	SN74LS174			Motorola	SN74LS197	
	Panasonic	DN74LS123		HD74LS155	TI	SN74LS153			National	DM74LS174			National	DM74LS197	
	TI	SN74LS123			Motorola	SN74LS155				74LS174		HD74LS197	Panasonic	SN74LS197	
HD74LS13	Motorola	SN74LS13			National	DM74LS155			Panasonic	DN74LS174			SGS-Thomson	DN74LS197	
	National	DM74LS13			Panasonic	DN74LS155			SGS-Thomson	T74LS174				T74LS197	
	SGS-Thomson	74LS13			SGS-Thomson	T74LS155			Signetics	74LS174			Signetics	74LS197	
	Panasonic	DN74LS13			Signetics	74LS155		HD74LS175	TI	SN74LS174		HD74LS20	TI	SN74LS197	
	SGS-Thomson	T74LS13			TI	SN74LS155A			Motorola	SN74LS175			Motorola	SN74LS20	
	Signetics	74LS13		HD74LS156	Motorola	SN74LS156			National	74LS175			National	DM74LS20	
	TI	SN74LS13			National	DM74LS156			Panasonic	DN74LS175				74LS20	
HD74LS132	Motorola	SN74LS132			Panasonic	DN74LS156			SGS-Thomson	T74LS175			Panasonic	DN74LS20	
	National	DM74LS132			SGS-Thomson	74LS156			Signetics	74LS175			SGS-Thomson	T74LS20	
	Panasonic	DN74LS132			Signetics	74LS156		HD74LS181	TI	SN74LS175			Signetics	74LS20	
	SGS-Thomson	T74LS132			TI	SN74LS156			Motorola	SN74LS181		HD74LS21	TI	SN74LS20	
	Signetics	74LS132		HD74LS157	Motorola	SN74LS157			National	74LS181			Motorola	SN74LS21	
	TI	SN74LS132			National	DM74LS157		HD74LS183A	Hitachi	HD74LS83A			National	DM74LS21	
HD74LS136	Motorola	SN74LS136			Panasonic	DN74LS157			Motorola	SN74LS83A				SN74LS21	
	National	DM74LS136			SGS-Thomson	74LS157		HD74LS183A	National	DM74LS83A			Signetics	74LS21	
	Panasonic	DN74LS136			Signetics	74LS157			Panasonic	DN74LS83A		HD74LS22	TI	SN74LS21	
	SGS-Thomson	T74LS136			TI	SN74LS157			SGS-Thomson	T74LS83			Motorola	SN74LS22	
	Signetics	74LS136		HD74LS158	Motorola	SN74LS158			Signetics	74LS83A			National	DM74LS22	
	TI	SN74LS136			National	DM74LS158			TI	SN74LS83A			Panasonic	DN74LS22	
HD74LS138	Motorola	SN74LS138			Panasonic	DN74LS158		HD74LS190	Motorola	SN74LS190		HD74LS221	Motorola	T74LS22	
	National	DM74LS138			SGS-Thomson	74LS158			National	DM74LS190			National	DM74LS221	
	Panasonic	DN74LS138			Signetics	74LS158			Panasonic	DN74LS190			TI	SN74LS221	
	SGS-Thomson	T74LS138		HD74LS160A	TI	SN74LS158			SGS-Thomson	T74LS190		HD74LS240	Motorola	SN74LS240	
	Signetics	74LS138			Motorola	SN74LS160A			TI	SN74LS190			National	74LS240	
	TI	SN74LS138			National	DM74LS160		HD74LS191	Motorola	SN74LS191			Panasonic	DN74LS240	
HD74LS139	Motorola	SN74LS139			Panasonic	DN74LS160A			National	DM74LS191			SGS-Thomson	T74LS240	
	National	DM74LS139			SGS-Thomson	74LS160			Panasonic	DN74LS191		HD74LS241	Signetics	74LS240	
	Panasonic	DN74LS139			Signetics	74LS160			SGS-Thomson	T74LS191			TI	SN74LS240	
	SGS-Thomson	T74LS139			TI	SN74LS160A			Signetics	74LS191			Motorola	SN74LS241	
	Signetics	74LS139		HD74LS161A	Motorola	SN74LS161A			TI	SN74LS191			National	74LS241	
	TI	SN74LS139A			National	DM74LS161		HD74LS192	Motorola	SN74LS192			Panasonic	DN74LS241	
HD74LS14	Motorola	SN74LS14			Panasonic	DN74LS161A			National	DM74LS192			Signetics	T74LS241	
	National	DM74LS14			SGS-Thomson	74LS161A			Panasonic	DN74LS192		HD74LS244	TI	SN74LS241	
	Panasonic	DN74LS14			Signetics	74LS161A			SGS-Thomson	T74LS192			Motorola	SN74LS244	
	SGS-Thomson	T74LS14			TI	SN74LS161A			Signetics	74LS192			National	74LS244	
	Signetics	74LS14		HD74LS162A	Motorola	SN74LS162A			TI	SN74LS192			SGS-Thomson	T74LS244	
	TI	SN74LS14			National	DM74LS162		HD74LS193	Motorola	SN74LS193			Signetics	74LS244	
HD74LS148	Motorola	SN74LS148			Panasonic	DN74LS162A			National	DM74LS193		HD74LS247	TI	SN74LS244	
	SGS-Thomson	T74LS148			SGS-Thomson	74LS162			Panasonic	DN74LS193			Motorola	SN74LS247	
	TI	SN74LS148			Signetics	74LS162A			SGS-Thomson	T74LS193			National	DM74LS247	
HD74LS15	Motorola	SN74LS15			TI	SN74LS162A			Signetics	74LS193			TI	SN74LS247	
	National	DM74LS15		HD74LS163	Hitachi	HD74LS163A		HD74LS194A	TI	SN74LS193		HD74LS248	Motorola	SN74LS248	
	Panasonic	DN74LS15			Motorola	SN74LS163A			National	DM74LS194			National	DM74LS248	
	SGS-Thomson	T74LS15			National	DM74LS163			Panasonic	DN74LS194A			SGS-Thomson	74LS248	
	TI	SN74LS15			Panasonic	DN74LS163A			SGS-Thomson	T74LS194A		HD74LS249	Motorola	T74LS248	
HD74LS151	Hitachi	HD74LS151A			SGS-Thomson	74LS163A			Signetics	74LS194A			National	SN74LS249	
	Motorola	SN74LS151			Signetics	74LS163A			TI	SN74LS194A				74LS249	
	National	DM74LS151			TI	SN74LS163A		HD74LS195A	GoldStar	GL7924		HD74LS251	Motorola	T74LS249	
	Panasonic	DN74LS151			Hitachi	HD74LS163A			Motorola	MC79192A			National	SN74LS251	
	SGS-Thomson	T74LS151			Motorola	SN74LS163A				MC7924				74LS251	
	Signetics	74LS151			National	DM74LS163			National	μA7924			Panasonic	DN74LS251	
HD74LS151A	Hitachi	HD74LS151			Panasonic	DN74LS163A				DM74LS195			SGS-Thomson	T74LS251	
	Motorola	SN74LS151			SGS-Thomson	74LS163				LM7924			Signetics	74LS251	
	National	DM74LS151			Signetics	T74LS163A			Panasonic	DN74LS195A		HD74LS253	TI	SN74LS251	
		74LS151			TI	SN74LS163A			Samsung	MC7924C			Motorola	SN74LS253	
													National	DM74LS253	

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Hitachi (Cont'd)				(Cont'd)											
HD74LS253	National	DM8214 74LS253	(Cont'd)	HD74LS298	Signetics	74LS298	(Cont'd)	HD74LS51	Motorola	SN74LS51	(Cont'd)	HD74LS93	Motorola	SN74LS93	(Cont'd)
	Panasonic	DN74LS253		HD74LS299	Motorola	SN74LS299		HD74LS51	National	DM74LS51		HD74LS93	National	DM74LS93	
	SGS-Thomson				SGS-Thomson				Panasonic	DN74LS51			SGS-Thomson		
			(Cont'd)	HD74LS30	TI	T74LS299	(Cont'd)	HD74LS54	Signetics	T74LS51	(Cont'd)	HD74LS95B	Signetics	T74LS93	(Cont'd)
				HD74LS30	Motorola	SN74LS299		HD74LS54	TI	SN74LS51		HD74LS95B	TI	SN74LS93	
					Motorola	DM74LS30			Motorola	SN74LS54			Motorola	SN74LS95B	
HD74LS257	Motorola	SN74LS257A			National	74LS30			National	DM74LS54			National	DM74LS95B	
	National	DM74LS257				DM74LS30				74LS54				74LS95B	
					Panasonic	DN74LS30			Panasonic	DN74LS54			Panasonic	DN74LS95B	
	SGS-Thomson				SGS-Thomson				SGS-Thomson				SGS-Thomson		
			(Cont'd)	HD74LS367	Signetics	T74LS30	(Cont'd)	HD74LS55	Signetics	T74LS54	(Cont'd)	HD74S00	Signetics	T74LS95B	(Cont'd)
				HD74LS367	TI	74LS30		HD74LS55	TI	74LS54		HD74S00	TI	74LS95B	
					SN74LS30				Motorola	SN74LS55			TI	SN74LS95B	
HD74LS258	Motorola	SN74LS257B			Hitachi	HD74LS367A			National	DM74LS55			National	DM74S00	
	National	SN74LS258A			Motorola	DM74LS367				74LS55				74S00	
					National	74LS367A								SN74S00	
						DM74LS367A			Panasonic	DN74LS55				SN74S00	
					Panasonic	DN74LS367A			SGS-Thomson					SN74S02	
	SGS-Thomson				SGS-Thomson									74S02	
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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Hitachi (Cont'd)				• HD74121	Lansdale National	ML74121 DM74121 74121	(3514)	• HD7417	Lansdale National	ML7417 DM7417 7417	(3514)	• HD7450	Lansdale National	ML7450 DM7450 7450	(3514)
• HD74S280	National Signetics TI	DM74S280 74S280 SN74S280		• HD74121	Signetics TI	74121 SN74121		• HD7417	Signetics TI	7417 SN7417		• HD7450	TI	SN7450	
• HD74S289	National	DM74S289 DM7489 DM8589 MM74S289 7489		• HD74125	National	DM74125 DM8093		• HD74170	National	DM74170 74170		• HD7451	Lansdale National	ML7451 DM7451 7451	(3514)
• HD74S289	Signetics TI	74S289 SN7489		• HD74125	Signetics TI	74125 SN74125		• HD74170	TI	SN74170		• HD7451	Signetics TI	7451 SN7451	
• HD74S40	National	DM74S40 74S40		• HD74126	National	DM74126 DM8094		• HD74174	Lansdale National	ML74174 DM74174 74174	(3514)	• HD7454	Lansdale National	ML7454 DM7454 SN7454	(3514)
• HD74S40	Signetics TI	74S40 SN74S40		• HD74126	Signetics TI	74126 SN74126		• HD74174	Signetics TI	74174 SN74174		• HD7470	Lansdale National	ML7470 DM7470 SN7470	(3514)
• HD74S51	National	DM74S51 74S51		• HD7413	Lansdale National	ML7413 DM7413	(3514)	• HD74175	Lansdale National	ML74175 DM74175 74175	(3514)	• HD7473	Lansdale National	ML7473 DM7473 7473	(3514)
• HD74S51	Signetics TI	74S51 SN74S51		• HD74132	Lansdale National	ML74132 DM74132 74132	(3514)	• HD74175	TI	SN74175		• HD7473	TI	SN7473	
• HD74S65	National	DM74S65 SN74S65		• HD74132	TI	SN74132		• HD74180	Lansdale National	ML74180 DM74180 74180	(3514)	• HD7474	TI	SN7474	
• HD74S74	National	DM74S74 74S74		• HD74136	Lansdale National	ML74136 74136 SN74136	(3514)	• HD74181	TI	SN74181		• HD7474	National	DM7474 7474	
• HD74S74	Signetics TI	74S74 SN74S74		• HD7414	Lansdale National	ML7414 DM7414 7414	(3514)	• HD74181	National	DM74181		• HD7474	Signetics TI	7474 SN7474	
• HD74S86	National	DM74S86 74S86		• HD7414	Signetics TI	7414 SN7414		• HD74190	National	ML74190 DM74190 SN74190	(3514)	• HD7475	Lansdale National	ML7475 DM7475 7475	(3514)
• HD74S86	Signetics TI	74S86 SN74S86		• HD74141	Lansdale National	DM7441 93141		• HD74191	Lansdale National	ML74191 DM74191 SN74191	(3514)	• HD7475	TI	SN7475	
• HD7400	Lansdale National	ML7400 DM7400 7400	(3514)	• HD74141	Signetics	74141		• HD74194	Lansdale National	ML74194 DM74194 74194	(3514)	• HD7476	TI	SN7476	
• HD7400	Signetics TI	7400 SN7400		• HD74141	Signetics	74141		• HD74198	National	DM74198 SN74198		• HD7476	TI	SN7476	
• HD7401	Lansdale National	ML7401 DM7401 7401	(3514)	• HD74145	National	DM74145 74145		• HD7420	Lansdale National	ML7420 DM7420 DM9004C 7420	(3514)	• HD7485	TI	SN7485	
• HD7401	Saratoga TI	SSL7401 SN7401		• HD74145	Signetics TI	SN74145		• HD7426	Signetics TI	7426 SN7426		• HD7486	Lansdale National	ML7486 DM7486 7486	(3514)
• HD7402	Lansdale National	ML7402 DM7402 7402	(3514)	• HD74147	National	DM74147 N82147		• HD7426	Signetics TI	7426 SN7426		• HD7486	Signetics TI	7486 SN7486	
• HD7402	Signetics TI	7402 SN7402		• HD74148	Signetics TI	DM74148 DM8318		• HD7426	Lansdale National	ML7426 DM7426 DM8810	(3514)	• HD7489	National	DM74S289 DM7489 DM8589 MM74S289 7489	
• HD7403	Toshiba Lansdale National	TA7402P ML7403 DM7403 7403	(3514)	• HD74148	Signetics TI	SN74148		• HD7427	Signetics TI	7427 SN7427		• HD7489	Signetics TI	74S289 SN7489	
• HD7403	Saratoga Signetics TI	SSL7403 7403 SN7403		• HD74150	Lansdale National	DM74150 74150		• HD7427	Lansdale National	ML7427 DM7427 7427	(3514)	• HD7496	National TI	DM7496 SN7496	
• HD7404	Lansdale National	ML7404 DM7404 7404	(3514)	• HD74150	Signetics TI	SN74150		• HD7427	TI	SN7427		• HD75110	Motorola National	MC75S110 LM75110 75110	
• HD7404	Saratoga Signetics TI	SSL7404 7404 SN7404		• HD74153	Lansdale National	DM74153 74153		• HD7430	Lansdale National	ML7430 DM7430 7430	(3514)	• HD75110	TI	SN75110A	
• HD7405	Lansdale National	ML7405 DM7405 7405	(3514)	• HD74153	TI	SN74153		• HD7432	TI	SN7432		• HD75154	National TI	DS75154 SN75154	
• HD7405	Signetics TI	7405 SN7405		• HD74154	Lansdale	ML74154 ML8311 ML9311	(3514)	• HD7432	Signetics TI	7432 SN7432		• HD75188	Exar Motorola National	XR1488 MC1488 μA1488 μA212A	
• HD7406	Lansdale National	ML7406 DM7406 7406	(3514)	• HD74154	National	DM7213 DM74154 DM8311 9311		• HD7437	Lansdale National	ML7437 DM7437 7437	(3514)	• HD75188	Samsung SGS-Thomson	MC1488 MC1488 MC1488	
• HD7406	Signetics TI	7406 SN7406		• HD74156	Signetics TI	74156 SN54154		• HD7437	Signetics TI	7437 SN7437		• HD75189	Exar GoldStar Motorola	XR1468 GD75189 MC1468	
• HD7407	Lansdale National	ML7407 DM7407 7407	(3514)	• HD74157	National Signetics TI	DM74157 74157 SN74157		• HD7438	Lansdale National	ML7438 DM7438 7438	(3514)	• HD75451A	Raytheon	DS75451	
• HD7407	Signetics TI	7407 SN7407		• HD7416	National	DM7416 7416		• HD7438	Signetics TI	SN7438		• HD75452	National	DS75452	
• HD7408	Lansdale National	ML7408 DM7408 7408	(3514)	• HD7416	Signetics TI	7416 SN7416		• HD7440	Lansdale National	ML7440 DM7440 7440	(3514)	• HD75453	National	DS75453	
• HD7408	Signetics TI	7408 SN7408		• HD74166	Lansdale National	ML74166 DM74166 74166	(3514)	• HD7442	TI	SN7442A		HM100422	Fujitsu National	MBM100422A DM100422 F100422	
• HD7409	Lansdale National	ML7409 DM7409 7409	(3514)	• HD74166	Signetics TI	SN74166		• HD7442	Lansdale National	ML7442 DM7442 DM8842	(3514)	• HD75453	National	DS75453	
• HD7409	Saratoga TI	SSL7409 SN7409		• HD74166	Signetics TI	SN74166		• HD7446	Lansdale TI	SN7446A		• HD75453	Motorola National	MBM100470A HY53C256 MCM100470 DM100470	
• HD7410	Lansdale National	ML7410 DM7410 7410	(3514)	• HD74166	Signetics TI	SN74166		• HD7446	TI	SN7446A		• HD75453	NEC Signetics	μPB100422 100422A 100422E	
• HD7410	Signetics TI	7410 SN7410		• HD74166	Signetics TI	SN74166		• HD7446	TI	SN7446A		• HD75453	Vitesse	VS12G422E	
• HD74107	National	DM74107 SN74107		• HD74166	Signetics TI	SN74166		• HD7446	TI	SN7446A		• HD75453	Fujitsu	MBM100470A	
• HD7411	National	DM7411 7411		• HD74166	Signetics TI	SN74166		• HD7446	TI	SN7446A		• HD75453	Hyundai	HY53C256	

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• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Hitachi (Cont'd)				HM4827128 (Cont'd)				HM50256 (Cont'd)				HM511000 (Cont'd)			
HM100470	Vitelc	V51C257 V53C256	(Cont'd)	SGS-Thomson	M27128 LH57128			Hyundai	HY51C256 HY53C256			Toshiba	TC511000 TC511000C TC511001C		
HM100474	Cypress	CY10E474L		Sharp	AT27HC256			Mitsubishi	MSM4257 M5M4256 M5M4257			HM511001	Fujitsu	MB81C1001	
	Fujitsu	MBM100474A		ATMEL	AT27HC256								Hyundai	HY51C1001	
	Motorola	MCM100474			AT27256								Mitsubishi	M5M4C1001	
	National	DM100474		Catalyst	CAT27HC256			Motorola	MT1259				Motorola	MCM511001A	
		F100474		Hitachi	HN27C256			NEC	μPD41256				NEC	μPD421001	
	NEC	μPB100474		Intel	27C256	(3501)		OKI	MSM37257A				NMB	AAA1M200	
		μPB100474A		Krueger	27C256-200				MSM41256				OKI	MSM41001	
	Saratoga	SSM100474			27C256-250	(3513)		Samsung	KM41256				Samsung	KM41C1001	
HM100480	Fujitsu	MB100480			27C256-300	(3513)		Vitelc	KM41256A				TI	TMS4C1025	
	NEC	μPB100480		Microchip	RO9256				V51C257			HM511002	Toshiba	TC511001	
	Saratoga	SSM100480			27C256			Western	WCM41256				Fujitsu	MB81C1002	
HM100484	Fujitsu	MBM100484			27C256			Mitsubishi	MSM4257				MicronTech	MT4C1026	
	NEC	μPB100484			27C256				MSM4257A				Mitsubishi	M5M4C1002	
		μPB100484A		Mitsubishi	M5M27C256			National	MSM41257A				Motorola	MCM511002A	
HM100490	Fujitsu	MBM100490		OKI	MSM27C256			OKI	MSM41257A				NEC	μPD421002	
	SMC	HDC9224		Ricoh	RD27C256			Samsung	KM41257				NMB	AAA1M100	
HM100490-15	Fujitsu	MBM100490-15		SEEQ	27C256			Toshiba	TMS4257				OKI	MSM41002	
	IDT	IDT100490-15		TI	TMS27C256			Vitelc	V51C257				Samsung	KM41C1002	
	Saratoga	SSM100490-15			TMS27PC256				V53C256				TI	TMS4C1027	
HM100500	NEC	μPD100500		Toshiba	TC54256			HM50464	Fujitsu	MB61461		HM51101	Toshiba	TC511002	
HM100504	NEC	μPD100504			TC57256				MB81464				Vitelc	V51C101	
HM10422	Fujitsu	MBM100422A		VLSI Tech	VT27C256				HM53461				Dense-Pac	DPD411M	
	National	DM10422		Waferscale	WS27C56L			Hitachi	HY53C464				Fujitsu	MB81C1000	
	NEC	μPB10422		ATMEL	AT27HC64			Hyundai	DP59264					TH22568	
		μPB10422		Hyundai	HY2764			IDT	DP59264				GoldStar	GM71C1000	
HM10470	Fujitsu	MBM10470A		Intel	M2764			Krueger	4464-100 (3513)				Hitachi	HB561003	
	National	DM10470			2764-200 (3513)				4464-120 (3513)					HM511000	
	NEC	μPB10470			2764-250 (3513)				4464-150 (3513)					HM51102	
	Saratoga	SSM10470			2764-300 (3513)									HM561003	
	Cypress	CY10E47L			2764-450 (3513)									HY51C1000	
	Fujitsu	MBM10474A		Mitsubishi	M5L2764									HY51C1002	
	National	DM10474		National	2764									MT4C1024	
		F10474		OKI	MSM2764									MH25608	
	NEC	μPB10474		SEEQ	2764									M5M4C1000	
		μPB10474A		TI	TMS27PC64									M5M41000S	
	Saratoga	SSM10474			TMS2764									M5M410000	
HM10484	Fujitsu	MBM10484		Mitsubishi	M5M4416									MCM511000A	
		MB10484		AMD	AM2147									μPD421000	
	National	F10484		Cypress	CY2147									MC421000	
	NEC	μPB10484			CY7C147									MSM41000	
		μPB10484A			MBM2147									KM41C1000	
	Saratoga	SSM10484		Fujitsu	M2147H									KM41256A	
	Fujitsu	MBM10490		Intel	2147										
	GoldStar	GM82C171			2147H										
	IDT	IDT10490			2147-35 (3513)										
		IDT10490			2147-45 (3513)										
		IDT10490-15			2147-55 (3513)										
		IDT10490-15			2147-70 (3513)										
	Saratoga	SSM10490-15			MM2147										
HM10504	NEC	μPD10504			NMC2141										
HM2110	Motorola	MCM10146			NMC2147H										
	National	DM10415			NM2147										
	Siemens	GXB10415													
	AMD	AM27C128		SGS-Thomson	ET2147										
	ATMEL	AT27C128			DPS9264										
	Krueger	27128-200 (3513)			IDT7164L										
		27128-250 (3513)			M2164A										
		27128-300 (3513)			4164-120 (3513)										
		27128A-450 (3513)			4164-150 (3513)										
					4164-200 (3513)										
	National	NMC27128													
	OKI	MSM27128													
	SGS-Thomson	M27128													
		LH57128													
	Sharp	MSM3764													
HM4315	Cypress	CY7C147													
	Harris	HM6504													
	Intel	5104													
	Mitsubishi	M58981													
	National	NMC6504													
	OKI	MSM5104													
	Rockwell	R6504													
	Krueger	4116-120 (3513)													
		4116-150 (3513)													
		4116-200 (3513)													
	National	F16K													
		F4116													
		MSM5290													
	OKI	MSM3716													
	Siemens	HYB4116													
	Signetics	2690													
	AMD	AM27C128													
	ATMEL	AT27C128													
	Krueger	27128-200 (3513)													
		27128-250 (3513)													
		27128-300 (3513)													
		27128A-450 (3513)													
	National	NMC27128													
	OKI	MSM27128													

* Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
Hitachi (Cont'd)				HM53461	Fujitsu	MB81461 MB81464 MB81465 HY50464 HY53C464 DPS9264 4464-100 (3513) 4464-120 (3513) 4464-150 (3513)		HM561003	TI	TM4256FC1 TM5256 TC511000 TC511000C TC511001C	(Cont'd)	HM61256	OKI	MSM51257RJ MSM51257RS Performance P4C1256 S-MOS SRM20256 SRM20256C SRM2257 KM62256 KM68257 Sharp LH52256 LH52259 Sony CXK58256 Toshiba TC55257 TC55257A UMC UM62256A AMD AM2147 Cypress CY2147	(Cont'd)	
HM514100	Dense-Pac	DPD4MM1			Hitachi			HM58064	AMD	AM2864A AM9864 AT28C64 AT28HC64 AT28PC64 AT2864			Samsung	MBM28C64 HN58C64 HN58C65 HN58C66 HN58064		
	Fujitsu	MB814100			MicronTech	MT4067			ATMEL	CAT28C64A CAT28C65A XLS2864A XL2864A		HM6147	UMC	MBM2147		
	MicronTech	MT4C1004			Mitsubishi	MCM41464 MSM4464P MSM4C264 MSM4464 MCM41464 μPD41264 μPD41464			Catalyst	MBM28C64 HN58C64 HN58C65 HN58C66 HN58064			AMD	CY2147		
	Mitsubishi	MSM441000							EXEL	MBM28C64 HN58C64 HN58C65 HN58C66 HN58064		HM6147	Cypress	MBM2147		
	Mosaic	MDM14000			Motorola	MCM41464			Intel	IDT7M7864 IDT78C64A I2864A			Intel	M2147H 2147 2147H		
	Motorola	MCM514100			NEC	μPD41264 μPD41464			Microchip	28C64A M5M28C64 NMC98C64 μPD28C64 MSM28C64		HM6147	SGS-Thomson	ET2147		
	NEC	μPD424100			OKI	MSM41464			Mitsubishi	UDN6116 M5M5517 MMC2116 MSM2128 MSM5126 MSM5128 MSM5129 SMC6116 SRM2016C		HM6147H	AMD	AM2147 CY2147 CY7C147 MBM2147 M2147H 2147 2147H		
	OKI	MSM514100			Samsung	KM41464			National	X28C64 (3744) X28C64M (3744) X2864A (3741)			Cypress	VT20C50 AM2148 CY21149 CY2148 CY7C148 CY7C149		
	Panasonic	MN41C4000			Vitellic	V53C464			OKI	UDN6116 M5M5517 MMC2116 MSM2128 MSM5126 MSM5128 MSM5129 SMC6116 SRM2016C		HM6147H	Hitachi	HM6148HL 2148H 2148-35 (3513) 2148-45 (3513) 2148-70 (3513)		
	Samsung	KM41C4000			Fujitsu	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16		HM6148	AMD	AM9150 CY7C150 Performance P4C150 Saratoga SSM2150 UMC UM2148 VLSI Tech VT20C50 AMD AM2148 Cypress CY21149 CY2148 CY7C148 CY7C149	
	Siemens	HYB514100			Hitachi	MB81461				Allegro	SCM20C16 MBM8418 SRM2018		HM6148H	Hitachi	HM6148HL 2148H 2148-35 (3513) 2148-45 (3513) 2148-70 (3513)	
	TI	TMS44100			MicronTech	MT42C4064				Micro	UDN6116 M5M5517 MMC2116 MSM2128 MSM5126 MSM5128 MSM5129 SMC6116 SRM2016C			National	NMC2147H NM2147	
	Toshiba	TC514100			Mitsubishi	MB81461				S-MOS	SMC6116 SRM2016C			SGS-Thomson	ET2147	
HM514101	Mitsubishi	MSM44101			Vitellic	V53C261				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16		HM6148	AMD	AM9150 CY7C150 Performance P4C150 Saratoga SSM2150 UMC UM2148 VLSI Tech VT20C50 AMD AM2148 Cypress CY21149 CY2148 CY7C148 CY7C149	
	NEC	μPD424101			Hitachi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16		HM6148H	Hitachi	HM6148HL 2148H 2148-35 (3513) 2148-45 (3513) 2148-70 (3513)	
	OKI	MSM5144101			MicronTech	MT42C4064				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			National	NMC2148 NM2148	
	Panasonic	MN41C4001			Mitsubishi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16		HM6148H	Hitachi	HM6148HL 2148H 2148-35 (3513) 2148-45 (3513) 2148-70 (3513)	
	Samsung	KM41C4001			Hitachi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	TI	TMS44101			MicronTech	MT42C4064				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16		HM6148H	Hitachi	HM6148HL 2148H 2148-35 (3513) 2148-45 (3513) 2148-70 (3513)	
	Toshiba	TC514101			Mitsubishi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
HM514256	Fujitsu	MB81C4256			Hitachi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16		HM6148H	Hitachi	HM6148HL 2148H 2148-35 (3513) 2148-45 (3513) 2148-70 (3513)	
	GoldStar	GM71C4256			MicronTech	MT42C4064				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Hyundai	HY51C4256			Mitsubishi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	MicronTech	MT4C256			Hitachi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Mitsubishi	MT4C256			MicronTech	MT42C4064				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Motorola	MCM514256A			Hitachi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	NEC	μPD424256			MicronTech	MT42C4064				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	NMB	AAA1M104			Hitachi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	OKI	MSM414256			MicronTech	MT42C4064				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Samsung	MSM514256			Hitachi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Sharp	LH64257			MicronTech	MT42C4064				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Siemens	HYB514256			Hitachi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	TI	TMS44C256			MicronTech	MT42C4064				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Toshiba	TC514256			Hitachi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
HM514258	Fujitsu	MB81C4258			MicronTech	MT42C4064				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Hyundai	HY51C4258			Hitachi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	MicronTech	MT4C4258			MicronTech	MT42C4064				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Mitsubishi	MSM44C258			Hitachi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Motorola	MCM514258A			MicronTech	MT42C4064				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	NEC	μPD424258			Hitachi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	OKI	MSM514257			MicronTech	MT42C4064				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Samsung	MSM514258			Hitachi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Sharp	LH64258			MicronTech	MT42C4064				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Toshiba	TC514258			Hitachi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
HM514400	Fujitsu	MB814400			MicronTech	MT42C4064				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	MicronTech	MT4C4001			Hitachi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Mitsubishi	MSM44400			MicronTech	MT42C4064				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Mosaic	MDM41000			Hitachi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Motorola	MCM514400			MicronTech	MT42C4064				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	NEC	μPD424400			Hitachi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	OKI	MSM514400			MicronTech	MT42C4064				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Panasonic	MN41C41000			Hitachi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Samsung	KM44C1000			MicronTech	MT42C4064				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Siemens	HYB514400			Hitachi	MB81461				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	TI	TMS44400			MicronTech	MT42C4064				SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 CXK5816 UM6116 V61C16			SGS-Thomson	ET2148 AM2148 CY21L49 CY2148 CY7C148 CY7C149	
	Toshiba	TC514400			Hitachi</											

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Hitachi (Cont'd)				HM6208				HM6264				HM6268L			
• HM6167	Intel	51C66	(Cont'd)	Cypress	CY7C194	EDI8465C		Krueger	6264LP-100	(Cont'd)		SGS-Thomson	IMS1423		(Cont'd)
		51C67		Fujitsu	MB8184				6264LP-120	(3513)			MK41L68		
• HM6167	LogicDev	L7C167		Hitachi	HM6708				6264LP-150	(3513)		Sony	CXK5416P/K		
	MicronTech	MT5C1601		IDT	IDT71258					(3513)		Toshiba	TMM2068AP		
	Mitsubishi	M5M21C67		MicronTech	MT5C2564			MicroLinear	ML8464			VLSI Tech	VT2069		
	Motorola	MCM2167		Mitsubishi	M5M5258			Mitsubishi	AM99C88						
	NEC	μPD4311		Motorola	MCM6208				M5M5178			Hyundai	HY62C1000-10		
	S-MOS	SRM2267		NEC	μPD43254				MCM6064			Fujitsu	MB841000		
• HM6167	Saratoga	SSM6167		SGS-Thomson	IMS1820			Motorola	MCM6164C			Mitsubishi	M5M51008		
	SGS-Thomson	IMS1403											M5M51008		
		MK41H66		Sony	CXK54256							NEC	μPD431000		
		MK41H67		TI	TMS6708			National	DP8464				μPD431000A		
• HM6167	Sharp	LH5167		Toshiba	TC55464			OKI	MSM5164			Samsung	KM681000		
• HM6167H	AMD	AM2167		VLSI Tech	VT6208				MSM5165			Sony	CXK581000		
	Cypress	CY7C167A		Catalyst					MSM5188				CXK581001		
	Harris	HM65262		Semi	CAT71C256			S-MOS	SRM2064			TI	TMS62828		
	Hitachi	HM6267			CAT71C256L			Samsung	SRM2264			Toshiba	TC551001		
	IDT	IDT6167		Cypress	CY7C197				KM6264			Cypress	CY7C198		
	Intel	51C66		Dense-Pac	DPS92256				KM6264A				CY7C199		
		51C67			DPS92256L			Sharp	LH5164			Dense-Pac	DPS92256		
• HM6167H	LogicDev	L7C167		GoldStar	GM76C256				LH5165				DPS92256L		
	MicronTech	MT5C1601		Hitachi	HM61256			Sony	CXK5164P			EDI	ED18833C		
	Mitsubishi	M5M21C67			HM64456				CXK5863P			Fujitsu	MB8298		
	Motorola	MCM2167		Hyundai	HY62C256				CXK5864			IDT	IDT71256		
	NEC	μPD4311			HY63C256				CXK5865			Lattice	SR256K8		
	S-MOS	SRM2267			HY63C256L				CXK5865P			Motorola	MCM6206		
• HM6167H	Saratoga	SSM6167		Inova	S32K8			Toshiba	TC5563			NEC	μPD43256A		
	SGS-Thomson	SSM6167		IDT	IDT7M856S				TC5565A	(3682)		SGS-Thomson	IMS1830		
		IMS1403			IDT71256L				UM6264A				IMS1830		
		MK41H66			IDT71256S			UMC	UM6264A				MK48230		
		MK41H67			IDT8M824			Vitelc	V61C62			Sony	CXK58255		
• HM6167H	Sharp	LH5167		LogicDev	L7C199				V62C64			Toshiba	TC55328		
• HM6168	Cypress	CY7C168A		MicronTech	MT5C2568				V63C64			VLSI Tech	VT62832		
	Hitachi	HM6268		Mitsubishi	M5M5256				VT20C99			Fujitsu	MB81C71A		
	IDT	IDT6168		Mosel	MS62256				DPS9264			Hitachi	HM6787		
		IDT6168SA		Motorola	MCM60256A				IDT8M864L			LogicDev	L7C166		
• HM6168	Mitsubishi	M5M2168		National	NM44251				M5M5165-L			Mitsubishi	M5M5187		
	Motorola	MCM6268		NEC	μPD43256B				MCM60L64				M5M5187AP		
	NEC	μPD4314C		OKI	MSM51257JS				μPD4364-L				M5M5187P		
	Performance	P4C168			MSM51257RS				KM6264AL			OKI	MSM5187		
	SGS-Thomson	SSM6167			MSM51257RS				TC5565AL	(3682)		S-MOS	SRM2261		
		MK41H68		Performance	P4C1256			AMD	AM2167			Saratoga	SSM7187		
		CXK5416		S-MOS	SRM20256			Cypress	CY7C167A			SGS-Thomson	SSM7187		
• HM6168	UMC	UM6128-35			SRM20256C			Harris	HM65262				MK41H87		
	Vitelc	V61C68			SRM2257			IDT	IDT6167			Sharp	LH5261		
	VLSI Tech	VL20C68		Samsung	SRM2256			Intel	51C66			Signetics	74HC4515		
		VT20C68			KM68257				51C67			Cypress	CY7B164		
		VT20C69			LH52256			LogicDev	L7C167			Fujitsu	MB81C74		
HM6168HP	AMD	AM2168			LH52259			MicronTech	MT5C1601				MB82B74		
	Fujitsu	MB81C68A			CXK58256			Mitsubishi	M5M21C67			Hitachi	HM6788		
	Hitachi	HM6268L			TC55257			Motorola	MCM2167			IDT	DPS9264		
	IDT	IDT6168A			TC55257A			NEC	μPD4311				DPS9264		
		IDT6168L			UM62256A			S-MOS	SRM2267			Mitsubishi	M5M5188		
		IDT6168LA			DPS92256				SRM2367			Motorola	MCM6188		
		IDT6168S			DPS92256L			Saratoga	SSM6167				MCM6288		
	Intel	51C68			MB84256A			SGS-Thomson				NEC	μPD4362		
	LogicDev	L7C168		Fujitsu	M5M5256-L				IMS1403			Performance	P4C188		
	Mitsubishi	M5M21C68P		Mitsubishi	MCM60L256A				MK41H66			Saratoga	SSM7188		
	Motorola	MCM6168		Motorola	MCM61256				MK41H67			SGS-Thomson	IMS1620		
	NEC	μPD4314			μPD43256-L				LH5167				TC55416		
	Ricoh	PS6168			KM62256L			HM6268	CY7C168A			Toshiba	VT6288		
	SGS-Thomson	IMS1423			TC55257AL				IDT6168			VLSI Tech	VT6288		
		MK41L68			MB831000				IDT6168SA			Catalyst			
		CXK5416P/K			NCR23C1000				M5M2168			Semi	CAT71C256		
		TMM2068AP			TC571000				MCM6268				CAT71C256L		
	VLSI Tech	VT2069			MB82B005				μPD4314C			Cypress	DPS92256		
	Cypress	CY7C197			MB82B006				Performance	P4C168		Dense-Pac	DPS92256L		
	Dense-Pac	DPS92256			TMS62456				SGS-Thomson				DPS92256L		
		DPS92256L			MB82B006				MK41H68			GoldStar	GM76C256		
	Fujitsu	MB81C81A			TMS62457				CXK5416			Hitachi	HM61256		
		MB82B81			DPS88H08				UM6128-35				HM62256		
	Hitachi	HM6707			XR8464				V61C68			Hyundai	HY62C256		
	IDT	IDT71257			MB88B464				VL20C68				HY63C256		
		IDT71257L			MB81C78A				VT20C68				HY63C256L		
		IDT71257S			MB8464A				VT20C69				S32K8		
	LogicDev	L7C197			GM76C88L				IDT7M856S				IDT71256L		
	MicronTech	MT5C2561			CDM6264				IDT71256L				IDT8M824		
	Mitsubishi	M5M5257			HM6464				L7C199			LogicDev	L7C199		
	Motorola	MCM6207			MB6264				MT5C2568			MicronTech	MT5C2568		
	NEC	μPD46251			HY6264				M5M5256			Mitsubishi	M5M5256		
	Performance	P4C1257			DPS9264				MS62256				MS62256		
	SGS-Thomson	KM61257			6264-100	(3513)			MCM60256A			Motorola	MCM60256A		
		IMS1800			6264-120	(3513)			μPD43256B			National	μPD43256B		
	Sharp	LH52251			6264-150	(3513)			MSM51257JS			OKI	MSM51257JS		
			(Continued)						MSM51257LRS				MSM51257LRS		
									μPD4314				MSM51257RJ		
									PS6168				MSM51257RS		
															(Continued)

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Hitachi (Cont'd)				Hitachi (Cont'd)				Hitachi (Cont'd)				Hitachi (Cont'd)			
HM64456	Performance	P4C1256	(3376)	HM66204-100	EDI	EDI8M8128C100	(3376)	HM6708	SGS-Thomson	IMS1820	(3376)	HM6789P	LogicDev	L7C164	(3376)
	S-MOS	SRM20256			Hitachi	HM66204L-100			Sony	CKX54256				L7C165	
		SRM20256C		HM66204-120	IDT	IDT8M824S-100			TI	TM56708			Mitsubishi	M5M5189	
	Samsung	SRM2257			Dense-Pac	DPS128M8		HM6716	VLSI Tech	TC55464	(3237)			M5M5189AP	
		KM62256				DPS128M8L			AD	ADG506A			Motorola	MCM6290	
	Sharp	KM68257				DPS41288 (3376)			Cypress	CY6116			National	54LS152	
		LH52256				DPS41288LP (3376)			EDI	ED18802			NEC	μPD4363	
	Sony	LH52259				DPS41288P (3376)			Harris	DG506A			Performance	P4C190	
	Toshiba	CKX58256			EDI	EDI8M8128C120				HM6516			S-MOS	SRM2275	
		TC55257			Hitachi	HM66204L-120			Hitachi	HM65162			Saratoga	SSM7166	
		TC55257A			IDT	IDT8M824S-120			IDT	HM6719			SGS-Thomson		
HM6464	UMC	UM62256A		HM66204-150	Dense-Pac	DPS128M8				IDT6116				IMS1624	
	Dense-Pac	DPS88H08				DPS128M8L				IDT6116A				T54LS152	
	Exar	XR8464				DPS41288 (3376)				IDT6116L			Sony	CKX5465P	
	Fujitsu	MB8B464				DPS41288LP (3376)			Intel	IDT6116S			Toshiba	TC55417	
		MB81C78A				DPS41288P (3376)			LogicDev	81C28			Vitellic	V61C62	
		MB8464A				DPS41288P (3376)			Maxim	L76116			VLSI Tech	VT65KS4	
	GoldStar	GM76C88L				DPS41288P (3376)			MicronTech	DG506A			AMD	PAL20L8	
	Harris	CDM6264			EDI	EDI8M8128C150			Motorola	MT51C1608			Cypress	PLDC20G10	
	Hitachi	HM6264			Hitachi	HM66204L-150				MCM2018A			Fujitsu	MB81C88	
		MB6264			IDT	IDT8M824S-150				MCM6116			Gould AMI	PEEL20CG10 (3442)	
	Hyundai	HY6264		HM66204L	Dense-Pac	DPS128M8			Performance	P4C116					
	IDT	DPS9264				DPS128M8L			Saratoga	SSM6116			ICT	PEEL20CG10	
	Krueger	6264-100 (3513)				DPS41288 (3376)			Sony	CKX5814P			Lattice	GAL20V8A	
		6264-120 (3513)				DPS41288LP (3376)			Toshiba	TC2018			LogicDev	L7C164	
		6264-150 (3513)				DPS41288P (3376)			UMC	UM6116-35 (3688)			Mitsubishi	M5M5188AP	
		6264LP-100 (3513)				DPS41288P (3376)			Vitellic	V16C16			National	F100165	
		6264LP-120 (3513)				DPS41288P (3376)			VLSI Tech	VT20C19				PAL20L8	
		6264LP-150 (3513)			EDI	EDI8M8128C			AD	ADG506A (3237)			NEC	μPD4362C	
					Hitachi	HM66204			Cypress	CY6116			OKI	MSM5188A	
					Inova	S128K8			EDI	ED18802			Samsung	CPL20L8	
					Peps	S128KX8 (3573)			Harris	DG506A				CPL20L8-35	
	MicroLinear	ML8464		HM66204L-100	Dense-Pac	DPS128M8				HM6516			Sharp	LH5262	
	Mitsubishi	AM99C88				DPS128M8L				HM65162			Sony	CKX5464AP	
		M5M5178				DPS41288 (3376)			Hitachi	HM6716			TI	TIBPAL20L8	
	Motorola	MCM6064				DPS41288LP (3376)			IDT	IDT6116				TIBPAL20L8-20	
		MCM61L64				DPS41288P (3376)				IDT6116A			VLSI Tech	VT64KS4	
		MCM6164C				DPS41288P (3376)				IDT6116L			AMD	AM27S185	
	National	DP8464			EDI	EDI8M8128C100				IDT6116S				27S185	
	OKI	MSM5164			Hitachi	HM66204-100			Intel	81C28			Fujitsu	MB7128	
		MSM5165			IDT	IDT8M824S-100			LogicDev	L76116			Lansdale	HL7685	
	S-MOS	SRM2064		HM66204L-120	Dense-Pac	DPS128M8			Maxim	DG506A			National	DM87S185	
		SRM2264				DPS128M8L			MicronTech	MT51C1608			Raytheon	29651A	
	Samsung	KM6264				DPS41288 (3376)			Motorola	MCM6116				29651A	
		KM6264A				DPS41288LP (3376)			Performance	P4C116			Signetics	N82S185	
	Sharp	LH5164				DPS41288P (3376)			Saratoga	SSM6116				S82S185	
		LH5165				DPS41288P (3376)			Sony	CKX5814P			TI	24S81-55	
	Sony	CKX5164P			EDI	EDI8M8128C120			Toshiba	TC2018			National	DM87S180	
		CKX5863P			Hitachi	HM66204-120			UMC	UM6116-35 (3688)				DM87S229	
		CKX5864			IDT	IDT8M824S-120			Vitellic	V16C16			AMD	AM27S181	
		CKX5865		HM66204L-150	Dense-Pac	DPS128M8			VLSI Tech	VT20C19			Cypress	CY7C282M	
		CKX5865P				DPS128M8L			Fujitsu	MB81C71A			Gould AMI	S25089	
	Toshiba	TC5563				DPS41288 (3376)			Hitachi	HM6287			Lansdale	HL7681	
		TC5565A	(3682)			DPS41288LP (3376)			LogicDev	L7C166			National	DM77LS181	
		TC5588				DPS41288P (3376)			Mitsubishi	M5M5187				DM77S181	
	UMC	UM6264A				DPS41288P (3376)				M5M5187AP				DM77S281	
	Vitellic	V61C62				DPS41288P (3376)				M5M5187P				DM87S181	
		V62C64			EDI	EDI8M8128C150			OKI	MSM5187				DM87S281	
		V63C64			Hitachi	HM66204-150			S-MOS	SRM2261				932451	
	VLSI Tech	VT20C99			IDT	IDT8M824S-150			Saratoga	SSM7187			Raytheon	29631	
HM65256	GoldStar	GM76C256		HM6707	Cypress	CY7C197			SGS-Thomson	MK41H87				29631AM	
	Hitachi	65256			Dense-Pac	DPS92256L				LH5261			Signetics	S82S181	
	IDT	IDT7M856S				MB81C81A			Sharp	74HC4515				S82S181	
		IDT8M824				MB82B81			Signetics	CY7B164			STC	STC5089	
	Krueger	65256 (3513)				HM6207			Cypress	MB81C74			TI	28S86-60	
	Mitsubishi	M5M5256				IDT71257			Fujitsu	MB82B74			National	DM77S190	
	Toshiba	TC51832				IDT71257L				HM6288				DM87S190	
	Fujitsu	MB81C8128				IDT71257S			Hitachi	DPS9264			WaferScale	WS57C291B	
	Hitachi	658128				L7C197			IDT	IDT7188			AMD	AM27S191	
	Krueger	658128 (3513)			LogicDev	MT5C2561				M5M5188				AM27S191SA	
	NEC	μPD428128			MicronTech	M5M5257			Mitsubishi	MCM6188				27S191	
		TC518128			Mitsubishi	MCM6207			Motorola	μPD4362			ATMEL	AT28HC191	
	Toshiba	DPS128M8			Motorola	μPD46251				Performance P4C188				AT28HC191L	
HM66204	Dense-Pac	DPS128M8L			Performance	P4C1257			NEC	SSM7188			Cypress	CY7C291	
		DPS41288 (3376)			Samsung	KM61257			Saratoga	SSM7188				CY7C292	
		DPS41288LP (3376)			SGS-Thomson	IMS1800			SGS-Thomson	IMS1620				CY7C292A	
		DPS41288P (3376)				LH52251				TC55416			Motorola	MCM76101	
	EDI	EDI8M8128C			Sharp	CY7C194			Toshiba	VT6288				MCM76160	
	Hitachi	HM66204L			Cypress	ED18465C			VLSI Tech	CY7C264			National	DM77S191	
	Inova	S128K8			EDI	MB8184			Cypress	HCC40110				DM87S191	
	Peps	S128KX8 (3573)			Fujitsu	MB82B84			SGS-Thomson	HCF40110				DM87S291A	
HM66204-100	Dense-Pac	DPS128M8				IDT71258				WS57C498				DM87S291B	
		DPS128M8L				MT5C2564				CY7B166				932510	
		DPS41288 (3376)				M5M5258			HM6789P	CY7C166				932511	
		DPS41288LP (3376)				MCM6208				MB82B75				932512	
		DPS41288P (3376)				μPD43254				IDT6198				932511	
		(Continued)				(Continued)				(Continued)				(Continued)	

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Hitachi (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
HN25169	Signetics	N82S191 N82S191A 82S191	(Cont'd)	HN27C101G	Mitsubishi	M5M27C102 M5M27C102K NMC27C010 NEC S-MOS SMM63100	(Cont'd)	HN27C301G	Toshiba	TC571001 WS27C010L	(Cont'd)	HN2764	Mitsubishi	M5L2764 2764	
	TI	TBP38L166 TMS27C291 TMS27C292			National	μPD27C1001A		HN27C512G	Waferscale	MBM27C512			National	MSM2764 2764	
	Waferscale	WS57C191 WS57C291B			S-MOS	SMM63100			IDT	IDT7M856S IDT8M824			TI	TMS27PC64 TMS2764	
HN27C010	AMD	AM27C010 AT27C010 AT27C1024		HN27C1024	Waferscale	WS27C010L			Krueger	27C512-200 (3513)		HN462532	Krueger	2532-350 (3513) 2532-450 (3513)	
	ATMEL	AT27C1024			AMD	AM27C1024 AT27C1024 AT27HC1024				27C512-250 (3513)		HN462532	National	MM2532 NMC2532 TDA2530 TDA2532	
	Catalyst	CAT27C210 CAT27010			Catalyst	CAT27C210 DPV27C1024A			Mitsubishi	M5M27512 NMC27C512		HN462532	Plessey	TDA2530 HM6617	
	Semi	CAT27C210 CAT27010			Semi	CAT27C210 DPV27C1024A			National	TMS27C512		HN462716	Harris	2716-350 (3513) 2716-450 (3513) 2716T-350 (3513) 2716T-450 (3513)	
	Fujitsu	MBM27C1001 HN27C010G HN27C101 HN27C101G HN27C301G			Fujitsu	MBM27C1024 Hitachi HN27C1024G 27C210 27C1024 μPD27C1024 NMC27C1024 μPD27C1024A NMC27C1024		HN27C64	TI	TMS27C512 TMS27PC512			Krueger	MM2716 MSM2716	
	Hitachi	HN27C101 HN27C101G HN27C301G			Hitachi	HN27C1024 27C210 27C1024 μPD27C1024 NMC27C1024 μPD27C1024A NMC27C1024			Toshiba	TC54512 TC57512 VT27C512		HN462716	National	MM2716 MSM2716	
	Intel	27010 27210 27C210			NEC	OKI SGS-Thomson			VLSI Tech	AT27HC64 M27C64		HN462732	SGS-Thomson	M2716 M2732 2732 2732A	
	Krueger	27C210			SGS-Thomson	M27C1024 27C1024 27C210			Krueger	27C64-200 (3513) 27C64-250 (3513) 27C64-300 (3513)			Intel	2732-250 (3513) 2732-300 (3513) 2732-350 (3513) 2732-450 (3513) 2732A-250 (3513) 2732A-300 (3513) 2732A-350 (3513) 2732A-450 (3513)	
	Mitsubishi	M5M27C101K M5M27C102 M5M27C102K NMC27C010 NEC μPD27C1001A S-MOS SMM63100		HN27C1024G	AMD	AM27C1024 AT27C1024 AT27HC1024			National	27C64 NMC27C64 MSM27C64 S-MOS SPM27C64		HN462732	Krueger	2732-250 (3513) 2732-300 (3513) 2732-350 (3513) 2732-450 (3513) 2732A-250 (3513) 2732A-300 (3513) 2732A-350 (3513) 2732A-450 (3513)	
	National	NMC27C010 NEC μPD27C1001A S-MOS SMM63100			Catalyst	CAT27C210 DPV27C1024A			Signetics	TS27C64A 27C64				MM2732 NMC2732 MSM2732	
	Toshiba	TC571001 Waferscale WS27C010L			Semi	CAT27C210 DPV27C1024A			TI	TMS27C64 TMS27PC64		HN462732	National	MM2732 NMC2732 MSM2732	
HN27C010G	AMD	AM27C010 AT27C010 AT27C1024			Fujitsu	MBM27C1024 Hitachi HN27C1024 27C210 27C1024 μPD27C1024 NMC27C1024 NEC OKI SGS-Thomson		HN27C64	VLSI Tech	VT27C64 Waferscale WS27C64L		HN462732	OKI	MSM2732	
	ATMEL	AT27C1024			Hitachi	HN27C1024 27C210 27C1024 μPD27C1024 NMC27C1024 NEC OKI SGS-Thomson			AMD	AM27C128 ATMEL AT27C128			SGS-Thomson	M2732A TMS2732A MPS2332 P51C69 P51C69 UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Catalyst	CAT27C210 CAT27010			Microchip	M27C1024 27C1024 27C210		HN27128	National	NMC27128 OKI MSM27128		HN46332	TI	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Semi	CAT27C210 CAT27010			Signetics	27C128-200 (3513) 27C128-250 (3513)			OKI	MSM27128			Commodore	MPS2332 P51C69 P51C69 UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Fujitsu	MBM27C1001 HN27C010 HN27C101 HN27C101G HN27C301G			Krueger	27C128-200 (3513) 27C128-250 (3513)		HN27128	National	NMC27128 OKI MSM27128		HN46332	TI	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Hitachi	HN27C010 HN27C101 HN27C101G HN27C301G			SGS-Thomson	M27C1024 27C1024 27C210			OKI	MSM27128		HN46332	Commodore	MPS2332 P51C69 P51C69 UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Intel	27010 27210			TI	TMS27C128 TMS27PC128 VT27C128 AT27HC256 AT27256		HN27256	Sharp	M27128 LH57128 AT27HC256		HN46332	Microchip	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Krueger	27C210			Microchip	RO9256 27C256			ATMEL	27256 Catalyst Rsch Intel		HN46332	NCR	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Mitsubishi	M5M27C101K M5M27C102 M5M27C102K NMC27C010 NEC μPD27C1001A S-MOS SMM63100		HN27C256	VLSI Tech	AT27HC256 AT27256		HN27256	ATMEL	27256 Catalyst Rsch Intel		HN46332	Panasonic	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	National	NMC27C010 NEC μPD27C1001A S-MOS SMM63100			ATMEL	AT27HC256 AT27256			Intel	27256 27256 P27257 27256		HN46332	Sharp	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Toshiba	TC571001 Waferscale WS27C010L			Catalyst	CAT27HC256 CAT27256 27C256 (3501) 27C256-200 (3513) 27C256-250 (3513) 27C256-300 (3513)		HN27256	Krueger	27256-200 (3513) 27256-250 (3513) 27256-300 (3513)		HN46332	Siemens	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
HN27C101	AMD	AM27C010 AT27C010 AT27C1024			Semi	CAT27HC256 CAT27256 27C256 (3501) 27C256-200 (3513) 27C256-250 (3513) 27C256-300 (3513)		HN27256	Mitsubishi	MSL27256 M5M27256		HN46332	Signetics	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	ATMEL	AT27C1024			Intel	27C256-200 (3513) 27C256-250 (3513) 27C256-300 (3513)			Motorola	MCM67256 MSM27256		HN46332	TI	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Catalyst	CAT27C210 CAT27010			Krueger	27C256-200 (3513) 27C256-250 (3513) 27C256-300 (3513)		HN27256	SGS-Thomson	M27256 M5M27256		HN4827128P	VLSI Tech	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Semi	CAT27C210 CAT27010			Microchip	RO9256 27C256			OKI	MCM67256 MSM27256			AMD	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Fujitsu	MBM27C1001 HN27C010 HN27C010G HN27C101G HN27C301G			Mitsubishi	M5M27C256 MSM27C256		HN27256	Sharp	M27256 LH57256		HN4827128P	ATMEL	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Hitachi	HN27C010 HN27C101G HN27C301G			OKI	MSM27C256			TI	TMS27C256			Krueger	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Intel	27010 27210			Ricoh	RD27C256 SEEQ 27C256		HN27256-25	Toshiba	TC57H256 27256-25 27256-25		HN4827128P	National	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Krueger	27C210			TI	TMS27C256 TMS27PC256			Intel	27256-25 27256-25			OKI	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Mitsubishi	M5M27C101K M5M27C102 M5M27C102K NMC27C010 NEC μPD27C1001A S-MOS SMM63100			Toshiba	TC54256 TC57256 VT27C256 WS27C256L		HN27512	Catalyst	M27256-25 27512 N27512 P27512 27512		HN482764	SGS-Thomson	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	National	NMC27C010 NEC μPD27C1001A S-MOS SMM63100			VLSI Tech	VT27C256 WS27C256L			Rsch	27512 N27512 P27512 27512			Sharp	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Toshiba	TC571001 Waferscale WS27C010L			Waferscale	WS27C256L			Intel	27512 27512 P27512 27512			ATMEL	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
HN27C101G	AMD	AM27C010 AT27C010 AT27C1024			AMD	AM27C010 AT27C010 AT27C1024		HN27512-25	Krueger	27512-200 (3513) 27512-250 (3513)		HN482764	National	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	ATMEL	AT27C1024			ATMEL	AT27C010 AT27C1024			Mitsubishi	M27512 MSM27512 M27512			OKI	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Catalyst	CAT27C210 CAT27010			Catalyst	CAT27C210 CAT27010			OKI	MSM27512 M27512		HN482764	Mitsubishi	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Semi	CAT27C210 CAT27010			Semi	CAT27C210 CAT27010			SGS-Thomson	M27512 M27512			National	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Fujitsu	MBM27C1001 HN27C010 HN27C010G HN27C101G HN27C301G			Fujitsu	MBM27C1001 Hitachi HN27C010G HN27C101 HN27C101G		HN27512-25	TI	M27512-25F1 AT27HC64 HY2764 M2764			SEEQ	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Hitachi	HN27C010 HN27C010G HN27C101 HN27C301G			Hitachi	HN27C010G HN27C101 HN27C101G			Microchip	27512-25 27512-25		HN48364	TI	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Intel	27010 27210			Intel	27010 27210			Mitsubishi	27512-25 M27512-25			Plessey	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Krueger	27C210			Krueger	27C210			SGS-Thomson	M27512-25F1 AT27HC64 HY2764 M2764			S-MOS	UM2168 51C69 R09432 M58333 F3532 N552132 NCR2332 MN2332 Sharp Siemens SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332	
	Mitsubishi	M5M27C101K M5M27C102 M5M27C102K NMC27C010 NEC μPD27C1001A S-MOS SMM63100			Mitsubishi	M5M27C101K M5M27C102 M5M27C102K NMC27C010 NEC μPD27C1001A S-MOS SMM63100		HN2764	ATMEL	2764-200 (3513) 2764-250 (3513) 2					

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Hitachi (Cont'd)				HN58C66 (Cont'd)				HN613256 (Cont'd)				HN62404 (Cont'd)			
HN58C256	Microchip	28CP256A	(Cont'd)	Catalyst Semi	CAT28C64A			HN613256	Catalyst Semi	CAT71C256		HN62404	Toshiba	TC534000	(3678)
	NEC	28C256B		EXEL	CAT28C65A				Gould AMI	S23256			UMC	TC534000P	(3678)
	Samsung	μPD28C256			XL2864A			HN613256	OKI	NCR23256		HN6288	AMD	TC534200	
	SEEQ	KM28C256		Fujitsu	MBM28C64				Panasonic	NCR23257			UMC	UM23C4000	
		28C256		Hitachi	HM58064			HN613256	S-MOS	MSM38256			AMD	AM99C6404	
	Simtek	STK28C256			HN58C64					MN23256			Cypress	CY7C164	
	Xicor	X28C256	(3745)		HN58C65					MN23257			Dense-Pac	DPS8M464	
		X28256	(3745)		HN58064					SMM23256			EDI	ED18416	
HN58C64	AMD	AM2864A		IDT	HN58064			HN613256	S-MOS	SMM6325			IDT	IDT6198	
	ATMEL	AM9864			IDT7M7864				Signetics	SMM6326			Intel	IDT7188L	
		AT28C64		Intel	IDT78C64A			HN613256	Toshiba	23256			LogicDev	L7C164	
		AT28HC64		Microchip	I2864A				VLSI Tech	TC53257			MicronTech	L7C166	
		AT28PC64		Mitsubishi	28C64A			HN61364		VT23256			Motorola	MT5C6404	
		AT2864		National	M5M28C64				Microchip	VT23257			National	MCM6289	
	Catalyst Semi	CAT28C64A		NEC	NMC98C64			HN61364		RO39365				F100181	
	EXEL	CAT28C65A		OKI	μPD28C64				Mitsubishi	RO9864			S-MOS	1621	
		XL2864A			MSM28C64				National	M5M23C64			Toshiba	SRM2274	
	Fujitsu	MBM28C64		Samsung	MSM2864					F3569			VLSI Tech	TC55417	
	Hitachi	HM58064		SEEQ	KM28C64			HN61364	OKI	F3570		MBM10484	NEC	CT64KS4	
		HN58C65			DQ2864				Panasonic	MM52264		MB6264	Dense-Pac	μPB10500	
		HN58C66			DQ2864H				SGS-Thomson	NM52264			Exar	DPS88H08	
		HN58064			DQ52B33					MSM3864			Fujitsu	MB88464	
	IDT	IDT7M7864			28C64			HN61364		MN2364				MB81C78A	
		IDT78C64A			2864									MB8464A	
	Intel	I2864A			2864A					MK37000			GoldStar	GM76C88L	
	Microchip	28C64A			2865A			HN62301	TI	TMS2364			Harris	CDM6264	
	Mitsubishi	M5M28C64		Xicor	X28C64	(3744)			AMD	AM27C010			Hitachi	HM6264	
	National	NMC98C64			X28C64M	(3744)		HN62301	ATMEL	AT27C010				HM6464	
	NEC	μPD28C64			X2864A	(3741)				AT27C1024			Hyundai	HY6264	
	OKI	MSM28C64		HN58064	AM2864A			HN62301	Catalyst Semi				IDT	DPS9264	
		MSM2864			AM9864					CAT27C210			Krueger	6264-100	(3513)
	Samsung	KM28C64		ATMEL	AT28C64			HN62301	Fujitsu	CAT27010				6264-120	(3513)
	SEEQ	KM2864A			AT28HC64				Hitachi	MBM27C1001				6264-150	(3513)
		DQ2864			AT28PC64					HN27C010				6264LP-100	
		DQ2864H			AT2864					HN27C010G					(3513)
		DQ52B33								HN27C101				6264LP-120	
		28C64			CAT28C64A			HN62301	Intel	HN27C101G				6264LP-150	
		2864			CAT28C65A					27010					(3513)
		2864A			XL2864A			HN62301		27210			MicroLinear	ML8464	
		2865A			XL2864A				Krueger	27C210			Mitsubishi	AM99C88	
	Xicor	X28C64	(3744)		MBM28C64			HN62301	Mitsubishi	M5M27C101K				M5M5178	
		X28C64M	(3744)		HM58064					M5M27C102			Motorola	MCM6064	
		X2864A	(3741)		HN58C64					M5M27C102K				MCM61164	
HN58C65	AMD	AM2864A			HN58C65			HN62301	National	NMC27C010				MCM6164C	
	ATMEL	AM9864			HN58C66				NEC	μPD27C1001A			National	DP8464	
		AT28C64		IDT	IDT7M7864				S-MOS	SMM63100			OKI	MSM5164	
		AT28HC64			IDT78C64A				Toshiba	TC571001				MSM5165	
		AT28PC64			I2864A			HN62304B	Waferscale	WS27C010L				MSM5188	
		AT2864			28C64A				NEC	μPD23C4001E			S-MOS	SRM2064	
	Catalyst Semi	CAT28C64A			M5M28C64				Samsung	KM23C4000				SRM2264	
	EXEL	CAT28C65A			NMC98C64				Sharp	LH534300			Samsung	KM6264	
		XL2864A			μPD28C64				UMC	UM23C4001	(3688)			KM6264A	
	Fujitsu	MBM28C64			MSM28C64			HN62321	Hitachi	HN62321E			Sharp	LH5164	
	Hitachi	HM58064			MSM2864				Mitsubishi	M5M23C100				LH5165	
		HN58C64			KM2864A					μPD23C1010A			Sony	CKX5164P	
		HN58C66			DQ2864				Samsung	KM23C1000				CKX5863P	
		HN58064			DQ2864H				Sharp	LH531000				CKX5864	
	IDT	IDT7M7864			DQ52B33				Toshiba	TC531000P				CKX5865	
		IDT78C64A			28C64			HN62321A	UMC	UM23C1024				CKX5865P	
	Intel	I2864A			2864				NEC	μPD23C1000EA			Toshiba	TC5563	
	Microchip	28C64A			2864A					μPD23C1001E				TC5565A	(3682)
	Mitsubishi	M5M28C64			2865A			HN62321E	UMC	UM23C1025				TC5588	
	National	NMC98C64			X28C64	(3744)			Hitachi	HN62321			UMC	UM6264A	
	NEC	μPD28C64			X28C64M	(3744)			Mitsubishi	M5M23C100			Vitelc	V61C62	
	OKI	MSM28C64			X2864A	(3741)				μPD23C1010A				V62C64	
		MSM2864		HN613128	AM9128				Samsung	KM23C1000				V63C64	
	Samsung	KM28C64			Gould AMI				Sharp	LH531000			VLSI Tech	VT20C99	
	SEEQ	KM2864A			NCR			HN62324BF	Toshiba	TC531000P				P51C68	
		DQ2864			Microchip				UMC	UM23C1024			Intel	MB2168	
		DQ2864H			Signetics				Hitachi	HN62324BP				P51C68	
		DQ52B33			UMC			HN62324BP	Hyundai	HY23C4000			Commodore	MPS2332	
		28C64			VLSI Tech				Hitachi	HN62324BF				P51C69	
		2864						HN623257P	Hyundai	HY23C4000			Fujitsu	UM2168	
		2864A							Mitsubishi	M5M23256			Intel	51C69	
		2865A							NEC	μPD23C256E				RO9432	
	Xicor	X28C64	(3744)						Samsung	KM23256			Microchip	M58333	
		X28C64M	(3744)							KM23257			National	F3532	
		X2864A	(3741)						Sharp	LH53257				NM52132	
HN58C66	AMD	AM2864A		HN613128P	AM9128				Toshiba	TC53257P			NCR	NCR2332	
	ATMEL	AM9864			Gould AMI				UMC	UM23C256			Panasonic	MN2332	
		AT28C64			Microchip			HN62331F	Hitachi	HN62331P				LH2332	
		AT28HC64			NCR				Hyundai	HY23C1000			Sharp	SAB8332	
		AT28PC64			Signetics				Hitachi	HN62331F			Siemens	SAB8332	
		AT2864			UMC				Hyundai	HY23C1000				2332	
					VLSI Tech				Fujitsu	MB834200			Signetics	2632A	
									Mitsubishi	M5M23C400				D51C69	
									NEC	μPD23C4000			TI	P51C69	
									Sharp	LH534000			VLSI Tech	VT2332	

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
ILC Data Device (Cont'd)				THA05203	Adv Analog AD	SH376 HTC0300A (3235)		S32K8		(Cont'd)		IDT49C401	IMI LogicDev	IMI4X2901 L29C01	
• DDCADC85	Sipex-HSD	ADC581 ADC581B ADC85B HSADC85 HSADC85C			Analogic Burr-Brown Datel	SH2200 SHC804 (3345) SHM45 SHM45M SHM4860 THA05210 MM0300A (3548) MM376 (3548) MN377 HS9720 TP4860 4860			Performance S-MOS	P4C1256 SRM20256 SRM20256C SRM2257 KM62256 KM68257 LH52256 LH52259 CXK58256 TC55257 TC55257A UM62256A		IDT54FCT240	IDT Performance VTC	IDT54FCT240A P54PCT240A V54FCT240A (3712)	
• DDCADC85	TeledyneS	TP4189			ILC-DDC MicroNet				Sharp			IDT54FCT240A	IDT	IDT54FCT240	
• DDCADC87	Adv Analog	ADC84 ADC85 ADC87			Sipex-HSD TeledyneS				Sony Toshiba			IDT54FCT241	Performance	P54PCT240A V54FCT240A (3712)	
• DDCADC87	AD	ADADC84 ADADC85 (3228) ADADC85S (3228) ADADC87 ADC85S AD5240		THA05210	Adv Analog AD	SH376 HTC0300A (3235)		Integrated Device Technology				IDT54FCT241	Performance	P54PCT241	
• DDCADC87	Burr-Brown	ADC84 ADC85 ADC87	(3346)		Analogic Burr-Brown Datel	SH2200 SHC804 (3345) SHM45 SHM45M SHM4860 THA05203 MM0300A (3548) MM376 (3548) MN377 HS9720 TP4860 4860		DPS9264	Cypress	CY7C182 CY7C185 CY7C186 ED18808 MB82B79 HM65642 IDT7164 IDT7164S		IDT54FCT244A	IDT	IDT54FCT244A	
• DDCADC87	Datel	ADCHX ADCHX12B ADCHZ ADCHZ12B ADCHZ12BGZ			ILC-DDC MicroNet				EDI			IDT54FCT245	Performance	P54PCT244A V54FCT244A (3712)	
• DDCADC87	MicroNet	MNADC84 MNADC85 MNADC87 MM5240 (3547)			Sipex-HSD TeledyneS				Fujitsu Harris IDT			IDT54FCT245	IDT	IDT54FCT245A P54PCT245A P74PCT245A V54FCT245A (3712)	
• DDCADC87	Sipex-HSD	ADC581 ADC581B ADC85B HSADC85 HSADC85C		Inova Microelectronics					MicronTech Mitsubishi Mosel Motorola			IDT54FCT245A	IDT	IDT54FCT245	
• DDCADC87	TeledyneS	TP4189		S128K8	Cypress	CYM1421 CYM1421HD DPS128M8 DPS128M8L DPS41288 (3376) DPS41288LP (3376) DPS41288P (3376)			National NEC			IDT54FCT273	VTC	P54PCT245A P74PCT245A V54FCT245A (3712)	
• DDCADC87	AD	ADADC87			Dense-Pac				Performance	P4C1364 SGS-Thomson		IDT54FCT373	IDT	IDT54FCT373A	
• DDCADC87	Burr-Brown	DAC851 DAC87			EDI	EDH8M8128 EDH8M8128C EDH8832 EDH8M8128C EDH88130C EDH88130C-100 EDH88130C-55 EDH88130C-70 EDH88130C-90			Sony Toshiba UMC			IDT54FCT373A	Performance	P54PCT373A V54FCT373A (3712)	
• DDCADC87	Harris	HIDAC87V						IDTMPY12	VLSI Tech			IDT54FCT373A	IDT	IDT54FCT373	
• DDCADC87	MicroNet	MNDAC87							AD	ADSP1012 IDT7112		IDT54FCT374	Performance	P54PCT374A V54FCT374A (3712)	
• DDCADC87	Sipex-HSD	SPDAC87							IMI	IMIMPY12		IDT54FCT374	IDT	IDT54FCT374A	
• DDC1250	AD	HDS1250							LogicDev	LMU12		IDT54FCT374	Performance	P54PCT374A V54FCT374A (3712)	
• DDC5101	Harris	HA5101 5101							TRWLSI	MPY012H MPY12HJ		IDT54FCT374A	VTC	P54PCT374A V54FCT374A (3712)	
• DDC5101	MicroNet	MM5101	(3547)									IDT54FCT374A	IDT	IDT54FCT374	
• DDC5101	Mitsubishi	MSL5101			Harris	HM8832			Fujitsu	MBM100490-15		IDT54FCT374A	Performance	P54PCT374A V54FCT374A (3712)	
• DDC5101	Motorola	MCMS1L01 MCM145101			Hyundai	HY63C256			Saratoga	SSM100490-15		IDT54FCT521	VTC	P54PCT374A V54FCT374A (3712)	
• DDC5101	National	MM74C920			Inova	S32K8			Fujitsu	MBM100494		IDT54FCT521	Performance	P54PCT521 V54FCT521	
• DDC5210	Sharp	LH5101			IDT	IDT7M856S IDT71024 IDT8M824 IDT8M824L L7C199			GoldStar	GM82C171		IDT54FCT533	VTC	IDT54FCT521 IDT54FCT533A	
• DDC5210	Adv Analog	ADC5210							Fujitsu	MBM10490-15		IDT54FCT533	Performance	P54PCT521 V54FCT521	
• DDC5210	Fujitsu	MB5210			LogicDev	M5M51008P			Saratoga	SSM10490-15		IDT54FCT533	Performance	P54PCT533A V54FCT533A (3712)	
• DDC5210	MicroNet	MM5210	(3547)		Mitsubishi	MSM8128S			Fujitsu	MBM10494		IDT54FCT533A	VTC	IDT54FCT533A V54FCT533A (3712)	
• DDC5211	Sipex-HSD	HS5210			Mosaic	MSM8128S			ATMEL	AT28C16 AT28HC16		IDT54FCT534	IDT	IDT54FCT534A	
• DDC5211	AD	AD5211			Mosel	MS88128			Catalyst	28C16		IDT54FCT534	Performance	IDT54FCT533 V54FCT533A (3712)	
• DDC5212	MicroNet	MM5211	(3547)		Peps	S128KX8	(3573)		Rsch			IDT54FCT534	VTC	IDT54FCT534A V54FCT534A (3712)	
• DDC5212	Adv Analog	ADC5212			Samsung	KM681000L			Catalyst	CAT28C16A		IDT54FCT534	Performance	IDT54FCT533 V54FCT533A (3712)	
• DDC5212	AD	AD5212			Sony	CXK581000P CXK581001P			Semi	KM28C16		IDT54FCT534	VTC	IDT54FCT534A V54FCT534A (3712)	
• DDC5216	MicroNet	MM5216	(3547)		Toshiba	TC551001PL			Samsung	28C16		IDT54FCT534	Performance	IDT54FCT534A V54FCT534A (3712)	
• DDC5216	Sipex-HSD	HS5216			UMC	UM621024			SEQ	38C16		IDT54FCT534	VTC	IDT54FCT534A V54FCT534A (3712)	
• DDC5240	Adv Analog	ADC84 ADC85 ADC87		S32K8	Catalyst Semi	CAT71C256 CAT71C256L CY7C197			LogicDev	L29C520		IDT54FCT534A	IDT	IDT54FCT534	
• DDC5240	AD	ADADC84 ADADC85 (3228) ADADC85S (3228) ADADC87 ADC85S AD5240			Cypress	DPS92256			Performance	P29PCT520		IDT54FCT534A	VTC	IDT54FCT534 V54FCT534A (3712)	
• DDC5240	Burr-Brown	ADC84 ADC85 ADC87	(3346)		Dense-Pac	DPS92256 DPS92256L GM76C256			Harris	ISP9520		IDT54FCT534A	Performance	IDT54FCT534 V54FCT534A (3712)	
• DDC5240	Datel	ADCHX ADCHX12B ADCHZ ADCHZ12B ADCHZ12BGZ			GoldStar	HM61256			LogicDev	L29C520		IDT54FCT534A	VTC	IDT54FCT534 V54FCT534A (3712)	
• DDC5240	MicroNet	MNADC84 MNADC85 MNADC87 MM5240 (3547)			Hitachi	HM62256 HM64456 HY62C256 HY63C256 HY63C256L			Waferscale	WS59520 (3717) L29C521 CY2901 CY7C901		IDT54FCT534A	Performance	P54PCT545 V54FCT573 (3712) V54FCT574 (3712)	
• DDC5240	Sipex-HSD	ADC581 ADC581B ADC85B HSADC85 HSADC85C			Hyundai	HM62256 HM64456 HY62C256 HY63C256 HY63C256L			Performance	P29PCT521		IDT54FCT640A	VTC	P54PCT640A V54FCT640A (3712)	
• DDC5240	TeledyneS	TP4189			IDT	IDT7M856S IDT71256L IDT71256S IDT8M824 L7C199			Harris	ISP9521		IDT54FCT645A	Performance	P54PCT645A V54FCT645A (3712)	
									LogicDev	L29C521		IDT54FCT821A	VTC	P54PCT645A V54FCT821A (3712)	
									Waferscale	WS59521 (3717)		IDT54FCT822A	VTC	P54PCT645A V54FCT822A (3712)	
									Cypress	CY7C901		IDT54FCT823A	VTC	P54PCT645A V54FCT823A (3712)	
									AMD	AM29203		IDT54FCT824A	VTC	P54PCT645A V54FCT824A (3712)	
									IDT	IDT39C203					
									AMD	AM2910A					
									Cypress	CY7C910					
									Waferscale	WS5910A (3717) WS5910B (3717)					
									AMD	AM29203					
									IDT	IDT39C03					
									AMD	AM2960					
									Signetics	2960					
									AMD	AM2903					
									Burr-Brown	DAC812					
									IMI	IMI49C401					

ALT. SOURCE DIRECTORY

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
Integrated Device Technology (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)				
IDT7M624S-45	Cypress Dense-Pac	CYM1621-45 DPS1037-45	(3376)	IDT7M856S	IDT	IDT71024 IDT8M824 IDT8M824L	(Cont'd)	IDT71256L	GoldStar Hitachi	GM76C256 HM61256 HM62256	(Cont'd)	IDT71257	SGS-Thomson	IMS1800 LH52251	(Cont'd)	
IDT7M624S-55	Dense-Pac	DPS1027-55			LogicDev	L7C199			Hyundai	HM64456 HY62C256 HY63C256 HY63C256L		IDT71257L	Sharp Cypress Dense-Pac	CY7C197 DPS92256 DPS92256L		
IDT7M624S-70	Dense-Pac	DPS1027-70			Mosaic	MSM8128S			Inova	S32K8			Fujitsu	MB81C81A MB82B81		
IDT7M624S-85	EDI	EDH816H64C-70 EDIM1664C45			Mosel	MS88128			IDT	IDT7M856S IDT71256S IDT8M824			Hitachi	HM6207 HM6707		
IDT7M656	Dense-Pac EDI	DPS257 EDIM1664C			Peps	S128KX8	(3573)						IDT	IDT71257 IDT71257S		
IDT7M656L-25	EDI	EDH816H16C-25 EDIM1664C55			Samsung	KM681000L				LogicDev	L7C199			LogicDev	L7C197	
IDT7M656L-35	EDI	EDH816H16C-35 EDIM1664C70		IDT7M856S-55	Toshiba	TC551001PL				MicronTech	MT5C2568			MicronTech	MT5C2561	
IDT7M656L-45	EDI	EDH816H16C-45		IDT7M856S-60	UMC	UM621024				Mitsubishi	M5M5256			Mitsubishi	M5M5257	
IDT7M656S-25	Dense-Pac	DPS257-25		IDT7M856S-70	IDT	IDT7M856S-60				Mosel	MS62256			Motorola	MCM6207	
IDT7M656S-35	Dense-Pac	DPS257-35		IDT7M856S-85	IDT	IDT7M856S-55				Motorola	MCM60256A			NEC	μPD46251	
IDT7M656S-45	Dense-Pac	DPS257-45		IDT7M856S-90	IDT	IDT7M856S-70				National	NM44251			Performance	P4C1257	
IDT7M656S-55	Dense-Pac	DPS257-55		IDT7M856S70	IDT	IDT7M856S-85				NEC	μPD43256B			Samsung	KM61257	
IDT7M7864	AMD	AM2864A AM9864		IDT7M864L-150	IDT	IDT8M856L-55				OKI	MSM51257J/S MSM51257LRS MSM51257RJ MSM51257RS			SGS-Thomson	IMS1800	
	ATMEL	AT28C64 AT28HC64 AT28PC64 AT2864		IDT71C65	Mitsubishi	M5M5164							IDT71257S	Sharp Cypress Dense-Pac	LH52251 CY7C197 DPS92256	
	Catalyst Semi	CAT28C64A CAT28C65A		IDT71024	NEC	μPD4464				S-MOS	SRM20256C			Fujitsu	MB81C81A MB82B81	
	EXEL	XL2864A XL2864A			Cypress	CYM1421 CYM1421HD				S-MOS	SRM20256C			Hitachi	HM6207 HM6707	
	Fujitsu	MBM28C64			Dense-Pac	DPS128M8 DPS128M8L				Sharp	SRM2257			IDT	IDT71257 IDT71257L	
	Hitachi	HM58064 HN58C64 HN58C65 HN58C66 HN58064			EDI	DPS41288P	(3376)			Sony	CKX58256 TC55257 TC55257A			LogicDev	L7C197	
	IDT	IDT78C64A				DPS41288P	(3376)			Toshiba	TC55257A			MicronTech	MT5C2561	
	Intel	I2864A				DPS41288P	(3376)			UMC	UM62256A			Mitsubishi	M5M5257	
	Microchip	28C64A				DPS41288P	(3376)			Catalyst Semi	CAT71C256 CAT71C256L			Motorola	MCM6207	
	Mitsubishi	M5M28C64				DPS41288P	(3376)			Cypress	CY7C197			NEC	μPD46251	
	National	NMC98C64				DPS41288P	(3376)			Dense-Pac	DPS92256 DPS92256L			SGS-Thomson	IMS1800	
	NEC	μPD28C64				DPS41288P	(3376)			GoldStar	GM76C256			Sharp	LH52251	
	OKI	MSM28C64				DPS41288P	(3376)			Hitachi	HM61256 HM62256 HM64456			Cypress	CY7C194	
	Samsung	KM28C64 KM2864A				DPS41288P	(3376)			Hyundai	HY62C256 HY63C256 HY63C256L			EDI	ED18465C	
	SEEQ	DQ2864 DQ2864H DQ25B33				DPS41288P	(3376)			IDT	S32K8 IDT7M856S IDT71256L IDT8M824			Fujitsu	MB8184 MB82B84	
		28C64				DPS41288P	(3376)							Hitachi	HM6208 HM6708	
		2864				DPS41288P	(3376)							MicronTech	MT5C2564	
		2864A				DPS41288P	(3376)							Mitsubishi	M5M5258	
		2865A				DPS41288P	(3376)							Motorola	MCM6208	
	Xicor	X28C64	(3744)			DPS41288P	(3376)			Inova	S32K8			NEC	μPD43254	
		X28C64M	(3744)			DPS41288P	(3376)			IDT	IDT7M856S IDT71256L IDT8M824			SGS-Thomson	IMS1820	
		X2864A	(3741)			DPS41288P	(3376)			LogicDev	L7C199			Sony	CKX54256	
IDT7M856	Dense-Pac	DPS41257				DPS41288P	(3376)			MicronTech	MT5C2568			TI	TMS6708	
IDT7M856S	IDT	IDT8M856				DPS41288P	(3376)			Mitsubishi	M5M5256			Toshiba	TC55464	
	Cypress	CYM1421				DPS41288P	(3376)			Mosel	MS62256			VLSI Tech	VT6208	
		CYM1421HD				DPS41288P	(3376)			Motorola	MCM60256A			Fujitsu	MB81C84A	
	Dense-Pac	DPS128M8				DPS41288P	(3376)			National	NM44251			IDT	IDT71258S	
		DPS128M8L				DPS41288P	(3376)			NEC	μPD43256B			LogicDev	L7C194	
		DPS41288P	(3376)			DPS41288P	(3376)			OKI	MSM51257J/S MSM51257LRS MSM51257RJ MSM51257RS			OKI	MSM52464	
	EDI	EDH8M8128 EDH8M8128C EDH8832 EDH8M8128C EDH8130C EDH8130C-100 EDH8130C-55 EDH8130C-70 EDH8130C-90				DPS41288P	(3376)			Performance	P4C1256 P4C1256L			Performance	P4C1258	
		HM8832				DPS41288P	(3376)			S-MOS	SRM21256			S-MOS	SRM21256	
		EDH8832				DPS41288P	(3376)			Samsung	KM64257			Samsung	KM64257	
		EDH8M8128C				DPS41288P	(3376)			Sharp	LH52252			Sharp	LH52252	
		EDH8130C				DPS41288P	(3376)			Sony	CKX58256			Fujitsu	MB81C84A	
		EDH8130C-100				DPS41288P	(3376)			Toshiba	TC55257A			IDT	IDT71258L	
		EDH8130C-55				DPS41288P	(3376)							LogicDev	L7C194	
		EDH8130C-70				DPS41288P	(3376)							OKI	MSM52464	
		EDH8130C-90				DPS41288P	(3376)							Performance	P4C1258	
	Harris	HM8832				DPS41288P	(3376)							S-MOS	SRM21256	
	Hyundai	HY63C256				DPS41288P	(3376)							Samsung	KM64257	
	Inova	S128K8 S32K8				DPS41288P	(3376)							Sharp	LH52252	
						DPS41288P	(3376)							Fujitsu	MB81C84A	
						DPS41288P	(3376)							IDT	IDT71258L	
						DPS41288P	(3376)							LogicDev	L7C194	
						DPS41288P	(3376)							OKI	MSM52464	
						DPS41288P	(3376)							Performance	P4C1258	
						DPS41288P	(3376)							S-MOS	SRM21256	
						DPS41288P	(3376)							Samsung	KM64257	
						DPS41288P	(3376)							Sharp	LH52252	
						DPS41288P	(3376)							Fujitsu	MB81C84A	
						DPS41288P	(3376)							IDT	IDT71258L	
						DPS41288P	(3376)							LogicDev	L7C194	
						DPS41288P	(3376)							OKI	MSM52464	
						DPS41288P	(3376)							Performance	P4C1258	
						DPS41288P	(3376)							S-MOS	SRM21256	
						DPS41288P	(3376)							Samsung	KM64257	
						DPS41288P	(3376)							Sharp	LH52252	
						DPS41288P	(3376)							Fujitsu	MB81C84A	
						DPS41288P	(3376)							IDT	IDT71258L	
						DPS41288P	(3376)							LogicDev	L7C194	
						DPS41288P	(3376)							OKI	MSM52464	
						DPS41288P	(3376)							Performance	P4C1258	
						DPS41288P	(3376)							S-MOS	SRM21256	
						DPS41288P	(3376)							Samsung	KM64257	
						DPS41288P	(3376)							Sharp	LH52252	
						DPS41288P	(3376)							Fujitsu	MB81C84A	
						DPS41288P	(3376)							IDT	IDT71258L	
						DPS41288P	(3376)							LogicDev	L7C194	
						DPS41288P	(3376)							OKI	MSM52464	
						DPS41288P	(3376)							Performance	P4C1258	
						DPS41288P	(3376)							S-MOS	SRM21256	
						DPS41288P	(3376)							Samsung	KM64257	
						DPS41288P	(3376)							Sharp	LH52252	
						DPS41288P	(3376)							Fujitsu	MB81C84A	
						DPS41288P	(3376)							IDT	IDT71258L	
						DPS41288P	(3376)							LogicDev	L7C194	
						DPS41288P	(3376)							OKI	MSM52464	
						DPS41288P	(3376)							Performance	P4C1258	
						DPS41288P	(3376)							S-MOS	SRM21256	
						DPS41288P	(3376)							Samsung	KM64257	
						DPS41288P	(3376)							Sharp	LH52252	
						DPS41288P	(3376)							Fujitsu	MB81C84A	
						DPS41288P	(3376)							IDT	IDT71258L	
						DPS41288P	(3376)							LogicDev	L7C194	
						DPS41288P	(3376)							OKI	MSM52464	
						DPS41288P	(3376)							Performance	P4C1258	
						DPS41288P	(3376)							S-MOS	SRM21256	
						DPS41288P	(3376)							Samsung	KM64257	

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Integrated Device Technology (Cont'd)				IDT74FCT534	Performance	P74PCT534		IDT78C16A	ATMEL	AT27C16		IDT8M824	EDI	EDH8M8128	(Cont'd)
				VTC		V74FCT534 (3712)				AT28C16				EDH8M8128C	
♦ IDT7216	AD	ADSP1016		IDT74FCT545	Performance	P74PCT545			Catalyst	AT28HC16				EDH8832	
	Harris	HMU16		IDT74FCT573	VTC	V74FCT573 (3712)			Semi	CAT28C16A				EDH8M8128C	
	LogicDev	LMU16		IDT74FCT574	VTC	V74FCT574 (3712)			EXEL	XL2816A				EDH8130C	
♦ IDT7216	Weitek	WTL1516		IDT74FCT640	Performance	P74PCT640			Harris	HM6617				EDH8130C-100	
♦ IDT7217	Harris	HMU17		VTC		V74FCT640 (3712)			Microchip	28C16A				EDH8130C-55	
		ICM7217		IDT74FCT643	Performance	P74PCT643			National	NMC2816				EDH8130C-70	
♦ IDT7217	LogicDev	LMU17		IDT74FCT645	Performance	P74PCT645				NMC9816A				EDH8130C-90	
		LMU217		VTC		V74FCT645 (3712)			Rockwell	NM9816			Harris	HM8832	
♦ IDT7217	Maxim	ICM7217		IDT74FCT645A	IDT	IDT74FCT645			Samsung	R2816A			Hyundai	HY63C256	
IDT72401	AMD	C571401		VTC	Performance	P74PCT645			SEEQ	KM2816A			Inova	S128K8	
		C57401		IDT74FCT821A	VTC	V74FCT645 (3712)				M2816A			IDT	IDT7M856S	
		C67401								2816				IDT71024	
		57401								2816A				IDT8M824L	
		67C401								X2816				L7C199	
	National	DM77S401		IDT74FCT822A	VTC	V74FCT822A (3712)		IDT78C64A	AMD	AM2864A			LogicDev	M5M51008P	
IDT72402	AMD	74F413								AM9864			Mitsubishi	MSM8128S	
		C57402		IDT74FCT823A	VTC	V74FCT823A (3712)			ATMEL	AT28C64			Mosaic	MS88128	
		C57402A								AT28HC64			Mosel	S128KX8	(3573)
		C67402		IDT74FCT824A	VTC	V74FCT824A (3712)				AT28PC64			Peps	KM681000L	
		C67402A								AT2864			Samsung	CKX581000P	
		57402											Sony	CKX581001P	
		67C402		IDT74FCT825A	VTC	V74FCT825A (3712)			Catalyst	CAT28C64A			Toshiba	TC551001PL	
	National	DM77S402							Semi	CAT28C65A			UMC	UM621024	
		DM77S402A		IDT74FCT826A	VTC	V74FCT826A (3712)			EXEL	XL2864A			Cypress	CYM1421	
IDT72403	AMD	67C4013								XL2864A				CYM1421HD	
IDT72404	AMD	67C4023		IDT74FCT827A	VTC	V74FCT827A (3712)			Fujitsu	MBM28C64			Dense-Pac	DPS128M8L	
IDT72413	AMD	67C4033							Hitachi	HM58064				DPS128M8L	
		67413		IDT74FCT828A	VTC	V74FCT828A (3712)				HN58C64				DPS41288 (3376)	
	Weitek	WTL1065								HN58C65				DPS41288LP (3376)	
		WTL1265		IDT74FCT828A	VTC	V74FCT828A (3712)				HN58C66				DPS41288P (3376)	
IDT7381	Gould AMI	S614381		IDT74FCT841A	VTC	V74FCT841A (3712)			IDT	IDT7M7864			EDI	EDH8M8128	
IDT74FCT240	IDT	IDT74FCT240A							Intel	I2864A				EDH8M8128C	
	Performance	P74PCT240		IDT74FCT842A	VTC	V74FCT842A (3712)			Microchip	28C64A				EDH8832	
	VTC	V74FCT240 (3712)							Mitsubishi	M5M28C64				EDH8M8128C	
IDT74FCT240A	IDT	IDT74FCT240		IDT74FCT843A	VTC	V74FCT843A (3712)			National	NMC98C64				EDH8130C	
	Performance	P74PCT240							NEC	µP28C64				EDH8130C-100	
IDT74FCT241	IDT	IDT74FCT241A		IDT74FCT844A	VTC	V74FCT844A (3712)			OKI	MSM28C64				EDH8130C-55	
	Performance	P74PCT241							Samsung	MSM2864				EDH8130C-70	
IDT74FCT241A	IDT	IDT74FCT241		IDT74FCT845A	VTC	V74FCT845A (3712)				KM28C64				EDH8130C-90	
	Performance	P74PCT241							SEEQ	KM2864A			Harris	HM8832	
IDT74FCT244	IDT	IDT74FCT244A		IDT74FCT846A	VTC	V74FCT846A (3712)				DQ2864H			Hyundai	HY63C256	
	Performance	P74PCT244								DQ2864			Inova	S128K8	
IDT74FCT244A	IDT	IDT74FCT244		IDT74FCT861A	VTC	V74FCT861A (3712)				DQ52B33			IDT	IDT7M856S	
	Performance	P74PCT244								28C64				IDT71024	
IDT74FCT245	IDT	IDT74FCT245A		IDT74FCT862A	VTC	V74FCT862A (3712)				2864				IDT8M824	
	VTC	V74FCT245 (3712)								2864A				L7C199	
IDT74FCT245A	IDT	IDT74FCT245		IDT74FCT863A	VTC	V74FCT863A (3712)				2865A			LogicDev	M5M51008P	
	VTC	V74FCT245 (3712)								X28C64 (3744)			Mitsubishi	MSM8128S	
IDT74FCT273	Performance	P74PCT273		IDT74FCT864A	VTC	V74FCT864A (3712)				X28C64M (3744)			Mosaic	MSM8128S	
	Performance	P74PCT273A								X2864A (3741)			Mosel	MS88128	
IDT74FCT373	IDT	IDT74FCT373A		IDT74HCT138	Harris	CD74HCT138				LR2000 (3534)			Peps	S128KX8	(3573)
	VTC	V74FCT373 (3712)			Marconi	74HCT138				LR2010 (3534)			Samsung	KM681000L	
IDT74FCT374	IDT	IDT74FCT374A			National	MM74HCT138				LR2020 (3534)			Sony	CKX581000P	
	Performance	P74PCT374			Plessey	MV74HCT138				LR2020 (3534)				CKX581001P	
	VTC	V74FCT374 (3712)			SGS-Thomson	M74HCT138				LR3000 (3534)				TC551001PL	
IDT74FCT374A	IDT	IDT74FCT374			Signetics	74HCT138				LR3010 (3534)			Toshiba	UM621024	
	Performance	P74PCT374			TI	SN74HCT138				LR3020 (3534)			UMC	CYM1420HD	
IDT74FCT521	IDT	IDT74FCT521A			Toshiba	TC74HCT138A				LR3020 (3534)			Cypress	DPS128M8L	
	VTC	V74FCT521 (3712)				(3674)							Dense-Pac	DPS41288LP (3376)	
IDT74FCT521A	IDT	IDT74FCT521		IDT74HCT139	Harris	CD74HCT139								DPS41288P (3376)	
	Performance	P74PCT521			Marconi	74HCT139							EDI	EDH8M8128C	
	VTC	V74FCT521 (3712)			National	MM74HCT139							Hitachi	HM66204-100	
IDT74FCT521A	IDT	IDT74FCT521			Plessey	MV74HCT139								HM66204L-100	
	Performance	P74PCT521			Signetics	74HCT139									
IDT74FCT521B	IDT	IDT74FCT521B			Signal Proc	HDAC10180									
	VTC	V74FCT521 (3712)			TRWLSI	TDC1018									
IDT74FCT521B	IDT	IDT74FCT521		IDT75C451	Brooktree	BT451									
	Performance	P74PCT521		IDT75C458	Brooktree	BT458									
	VTC	V74FCT521 (3712)		IDT75C48	AD	AD9048	(3230)								
IDT74FCT533	Performance	P74PCT533			Datel	CXA1096P	(3358)								
	VTC	V74FCT533 (3712)			Sony	ADC304									
					Brooktree	BT109									
					IDT	IDT7MB5038									
					STC	SCD6038									
					TRWLSI	TDC1318									
						(Continued)									

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Intel (Cont'd)				2128	Hitachi	HM6716		2164	OKI	MSM3764		27C210	Catalyst	CAT27C210	
P8032B	Siemens	SAB8032B		2128	IDT	HM6719		2164	Panasonic	MN4164			Semi	DPV27C1024A	
P8051	Intel	P8051AH				IDT6116		2164	Samsung	MN4864			Dense-Pac	MBM27C1024	
	Siemens	SAB8051				IDT6116A				KM4164A			Fujitsu	HN27C1024	
		SAB8051A				IDT6116L		2164	Siemens	HYB4164			Hitachi	HN27C1024G	
	Signetics	SCN8051		2128	Intel	81C28		2164A	TI	SM4164		27C210	Krueger	27C210	
P8051AH	Intel	SCN8051AH			LogicDev	L76116		2164A	IDT	DPS9264			Microchip	27C1024	
	Siemens	P8051			Maxim	DG506A			Intel	IDT7164L			National	μPD27C1024	
		SAB8051A			MicronTech	MT51C1608		2164A	Krueger	M2164A		27C210	NEC	NMC27C1024	
	Signetics	SCN8051AH			Motorola	MCM2018A				4164-120 (3513)			OKI	μPD27C1024A	
P8052	Intel	P8052AH		2128	Performance	P4C116				4164-150 (3513)			SGS-Thomson	MSM27C1024	
P8052AH	Intel	8052			Saratoga	SSM6116		2164A	National	F4164				M27C1024	
P8052BH	Siemens	SAB8052B			Sony	CTX5814P				F64K		27C210	Signetics	27C1024	
P8085AH	Krueger	8085A (3513)			Toshiba	TC2018		2164A	OKI	NMC4164		27C256	ATMEL	AT27HC256	
		8085AH (3513)			UMC	V16C16			Panasonic	MN4164				AT27256	
	Mitsubishi	M5M80C85A		2142	VLSI Tech	VT20C19		2164A	Samsung	KM4164A			Catalyst	CAT27HC256	
	NEC	μPD8085		2147	National	MM2142			Siemens	KM4164B			Semi	HN27C256	
	Newbridge	CA80C85B (3569)			AMD	AM2147		2164A	TI	SM4164			Hitachi	27C256-200	
	OKI	MSM8085			Cypress	CY2147		2332	Commodore	MPS2332			Krueger	27C256-250 (3513)	
P8251	Intel	82C51			Fujitsu	MBM2147			Fujitsu	P51C69				27C256-300 (3513)	
	National	INS8251			Intel	M2147H		2332	Hitachi	P51C69				27C256-300 (3513)	
	NEC	μPD8251A			Krueger	2147-35 (3513)			Intel	UM2168			Microchip	RO9256	
	OKI	MSM82C51				2147-45 (3513)		2332		51C69				27C256	
		MSM82C51A				2147-55 (3513)			Microchip	RO9432			Mitsubishi	M5M27C256	
P8255	S-MOS	SMC82C51AC				2147-70 (3513)			Mitsubishi	M58333			OKI	MSM27C256	
	AMD	D8255A			National	MM2147		2332	National	F3532			Ricoh	RD27C256	
	Harris	82C55A				NMC2141			NCR	NCR2332			SEEQ	27C256	
	Intel	82C55A				NMC2147H			Panasonic	MN2332			TI	TMS27C256	
		8255A				NM2147			Sharp	LH2332				TMS27PC256	
	Mitsubishi	M5M82C55A			SGS-Thomson	ET2147			Siemens	SAB8332			Toshiba	TC54256	
		M5M82C55AP		2147H	AMD	AM2147		2332		SAB8332				TC57256	
	NEC	μPD71055			Cypress	CY2147			Signetics	2332			VLSI Tech	VT27C256	
		μPD8255A				CY7C147		2332		2632A		27C512	Waferscale	WS27C256L	
		71055			Fujitsu	MBM2147			TI	D51C69			Fujitsu	MBM27C512	
	Newbridge	CA82C55A (3569)			Intel	M2147H		2332		P51C69			Hitachi	HN27C512G	
	OKI	MSM82C55A			Krueger	2147-35 (3513)			VLSI Tech	VT2332			IDT	IDT7M856S	
	S-MOS	SMC82C55AC				2147-45 (3513)		2364A	NCR	NCR2364				IDT8M824	
	Samsung	KS82C55A				2147-55 (3513)			OKI	MSM3864		27C512	Krueger	27C512-200 (3513)	
	Toshiba	TMP82C55				2147-70 (3513)			Plessey	SL2364C				27C512-250 (3513)	
	UMC	UM82C55A (3689)				2147-70 (3513)			S-MOS	SMM2364				27C512-250 (3513)	
TCM29C16	NEC	μPD9516AD			National	MM2147			Sharp	LH2364A		27C512	Mitsubishi	M5M27512	
	TI	TCM29C16				NMC2141			Signetics	2364			National	NMC27C512	
		TCM2916				NMC2147H			TI	TMS2364			Ricoh	TMS27C512	
UM2168	Commodore	MPS2332			SGS-Thomson	NM2147			VLSI Tech	VT2364			SGS-Thomson		
	Fujitsu	P51C69				ET2147		27C010	AMD	AM27C010				M27C512	
	Hitachi	P51C69		2148H	AMD	AM2148			ATMEL	AT27C010			TI	TMS27C512	
	Intel	51C69			Cypress	CY21L49				AT27C1024		27C512	Toshiba	TMS27PC512	
	Microchip	RO9432				CY2148		27C010	Catalyst	CAT27C210				TC54512	
	Mitsubishi	M58333				CY7C148			Semi	CAT27010		27C512	VLSI Tech	VT27C512	
	National	F3532				CY7C149				CAT27010		27C64	ATMEL	AT27HC64	
		NM52132			Hitachi	HM6148H		27C010	Fujitsu	MBM27C1001			Intel	M27C64	
	NCR	NCR2332			Krueger	2148-35 (3513)			Hitachi	HN27C010			Krueger	27C64-200 (3513)	
	Panasonic	MN2332				2148-45 (3513)				HN27C010G				27C64-250 (3513)	
	Sharp	LH2332				2148-70 (3513)				HN27C101				27C64-300 (3513)	
	Siemens	SAB8332						27C010		HN27C101G		27C64	Microchip	27C64	
	Signetics	2332			National	NMC2148			Intel	27010			National	NMC27C64	
		2632A				NM2148		27C010		27210			OKI	MSM27C64	
	TI	D51C69			Performance	P4C149			Krueger	27C210			S-MOS	SPM27C64	
		P51C69			Saratoga	SSM2148		27C010	Mitsubishi	M5M27C101K			SGS-Thomson		
	VLSI Tech	VT2332			SGS-Thomson	ET2148				M5M27C102				TS27C64A	
1101	National	MM1101		2149H	AMD	AM2149		27C010	National	M5M27C102K			Signetics	27C64	
	NCM	NCM1101Z			Cypress	CY2149			NEC	μPD27C1001A		27C64	TI	TMS27C64	
	SGS-Thomson	MK6027P			Intel	2149HL			S-MOS	SMM63100				TMS27PC64	
2004	Xicor	X2004 (3728)			Krueger	2149-35 (3513)		27C020	Toshiba	TC571001			VLSI Tech	VT27C64	
2114A	AMD	AM9114				2149-45 (3513)			Waferscale	WS27C010L			Waferscale	WS27C64L	
	Krueger	2114-150 (3513)				2149-70 (3513)			AMD	AM27C020			AMD	AM27C010	
		2114-200 (3513)			Saratoga	SSM2149			Mitsubishi	M5M27C201K			ATMEL	AT27C1024	
		2114-450 (3513)			AMD	AM2149		27C128A	NEC	μPD27C2001			Catalyst	CAT27C210	
	Mitsubishi	M5L2114		2149HL	Cypress	CY2149			ATMEL	AT27C128			Semi	CAT27010	
	Motorola	M5L2114			Intel	2149H			Fujitsu	MBM27C128				MBM27C1001	
	National	F2114			Krueger	2149-35 (3513)			Intel	M27C128			Hitachi	HN27C010	
		NMC2114A				2149-45 (3513)			Microchip	27C128				HN27C010G	
	OKI	MSM2114				2149-70 (3513)			OKI	MSM27C128				HN27C101	
	Rockwell	R6514			Saratoga	SSM2149			S-MOS	SPM27129C				HN27C101G	
	Sharp	LH2114		2164	IDT	DPS9264			SGS-Thomson					HN27C301G	
	Toshiba	TMM2114A				IDT7164L		27C202		M27128A			Intel	27210	
	UMC	UM6114			Intel	M2164A			Waferscale	WS27C128L			Krueger	27C210	
2118	Krueger	2118-120		2164	Krueger	4164-120 (3513)			Fujitsu	MB3603		27010	Mitsubishi	M5M27C101K	
		2118-150				4164-150 (3513)			National	μA741				M5M27C102	
		2118-150				4164-200 (3513)			Waferscale	WS57C257				NMC27C102K	
2128	AD	ADG506A (3237)						27C210	AMD	AM27C1024			National	μPD27C1001A	
	Cypress	CY6116		2164	National	F4164			ATMEL	AT27C1024			NEC	SMM63100	
	EDI	ED18802				F64K				AT27HC1024			S-MOS		
	DG506A	HM6516				NMC4164									
	HM6516	HM65162													

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
Intel (Cont'd)				27512-170V10	Mitsubishi SGS-Thomson	M27512-170V10 MK27C512-15F1		2816B	ATMEL	AT27C16 AT28C16 AT28HC16		2864A	Intel Microchip Mitsubishi National NEC OKI	I2864A 28C64A MSM28C64 NMC98C64 μPD28C64 MSM28C64		
27010	Toshiba Waferscale Intel	TC571001 WS27C010L M27128 P27128	(Cont'd)	27512-2	Mitsubishi SGS-Thomson	M27512-2 M27512-2F1		2816B	Catalyst Semi EXEL Harris IDT	CAT28C16A XL2816A HM6617 IDT78C16A		2864A	Samsung	28C16A KM2864A		
27128	SEEQ TI	27128 SMJ27C128		27512-20	Microchip Mitsubishi SGS-Thomson	M27512-20 M27512-20F1			Microchip National	NMC2816 NMC9816A NM9816		2864A	SEEQ	DQ2864 DQ2864H DQ52B33		
27128A	Intel	N27128A P27128A		27512-200V05	Mitsubishi SGS-Thomson	M27512-200V05 M27512F1		2816B	Rockwell Samsung SEEQ	R2816A KM2816A M2816A		2864A	Xicor	28C64 2864A 2865A		
27210	Krueger ATMEL Catalyst Semi	27128A AT27C1024 CAT27C210 AT27HC256		27512-2000V10	Mitsubishi Microchip	M27512-200V10 27512-25		2816B	Xicor	2816A X2816 X2816A		2864A	AMD	X28C64 (3744) X28C64M (3744) X2864A (3741)		
27256	ATMEL Catalyst Rsch Intel	27256 M27256 P27257		27512-25	Mitsubishi SGS-Thomson	M27512-25 M27512-25F1		2817A	ATMEL	AT28C16 AT28C17 AT28HC16		2864B	AMD	AM2864A AM9864 AT28C64 AT28HC64 AT28PC64 AT2864		
	Krueger	27256-200 (3513) 27256-250 (3513) 27256-300 (3513)		27512-3	Mitsubishi SGS-Thomson	M27512-3 M27512-3F1		2817A	Catalyst Rsch Catalyst Semi	28C17 CAT28C16A CAT28C17A		2864B	ATMEL	AT28C64 AT28HC64 AT28PC64 AT2864		
	Mitsubishi	MSL27256 M5M27256		27512-30	Mitsubishi	M27512-30		2817A	EXEL	XL2817A		2864B	Catalyst Semi	CAT28C64A CAT28C65A		
	Motorola OKI SGS-Thomson	MCM67256 MSM27256		27513	ATMEL Intel	AT27C513 N27513		2817A	Microchip National	28C17A NMC9817		2864B	EXEL	XL2864A XL2864A		
	Sharp	M27256 LH57256		2764	Microchip	27C513			OKI	MSM2816		2864B	Fujitsu Hitachi	MBM28C64 HM58064		
	TI	TMS27C256			Hyundai	HY2764		2817A	Samsung SEEQ	KM2817A DQ2817A		2864B	Hitachi	HN58C64 HN58C65 HN58C66		
27256-15	Toshiba	TC57H256			Intel	M2764		2864	AMD	2817A AM2864A AM9864		2864B	Intel	HN58064 IDT77M7864 IDT78C64A		
27256-2	Microchip SGS-Thomson	27256-15 M27256-2			Krueger	2764-200 (3513) 2764-250 (3513) 2764-300 (3513) 2764-450 (3513)		2864	ATMEL	AT28C64 AT28HC64 AT28PC64 AT2864		2864B	IDT	28C64A M5M28C64 NMC98C64 μPD28C64 MSM28C64		
27256-20	Microchip SGS-Thomson	27256-20 M27256-20		2764A	Mitsubishi National OKI SEEQ TI	M5L2764 2764 MSM2764 2764 TMS27PC64 TMS2764		2864	Catalyst Semi	CAT28C64A CAT28C65A XLS2864A XL2864A		2864B	Samsung	MSM2864 KM28C64 KM2864A		
27256-25	Microchip SGS-Thomson	27256-25 M27256-25		28F010	Catalyst Semi National SEEQ TI	CAT28F010 NSC48F010 48F010 TMS29F010 TMS29F256		2864	Fujitsu Hitachi	MBM28C64 HM58064 HN58C64 HN58C65 HN58C66 HN58064		2864B	SEEQ	DQ2864 DQ2864H DQ52B33		
27256-3	SGS-Thomson	M27256-3		28F256	TI	TMS29F512		2864	Intel	IDT77M7864 IDT78C64A I2864A 28C64A		2864B	Intel Microchip Mitsubishi National NEC OKI	28C64A M5M28C64 NMC98C64 μPD28C64 MSM28C64		
2732	Intel	M2732 2732A		2815	Intel Krueger OKI SGS-Thomson	P2764A 2764A MSM2764A		2864	EXEL	XL2864A		2864B	Intel	28C64A M5M28C64 NMC98C64 μPD28C64 MSM28C64		
	Krueger	2732-250 (3513) 2732-300 (3513) 2732-350 (3513) 2732-450 (3513) 2732A-250 (3513) 2732A-300 (3513) 2732A-350 (3513) 2732A-450 (3513)		2815	SGS-Thomson	M2764A		2864	Catalyst Semi	CAT28C64A CAT28C65A XLS2864A XL2864A		2864B	SEEQ	DQ2864 DQ2864H DQ52B33		
	National	MM2732 NMC2732 MSM2732		28F512	Toshiba National SEEQ	TC58257 NSC48F512 48F512		2864	Intel	2817A AM2864A AM9864 AT28C64 AT28HC64 AT28PC64 AT2864		2864B	Xicor	X28C64 (3744) X28C64M (3744) X2864A (3741)		
	OKI SGS-Thomson	M2732A TMS2732A		2815	TI	TMS29F512		2864	Microchip Mitsubishi National NEC OKI	M5M28C64 NMC98C64 μPD28C64 MSM28C64 MSM2864		29C13	AT&T NEC TI	μPD9513AD TCM29C13 TCM2913		
2732A	TI Intel	M2732 2732		2815	Cypress EXEL Harris	CY7C291 XL46C15 IM6617		2864	Samsung	KM28C64 KM2864A		2910	National	μA5116 TP5116 5116 KT5116		
	Krueger	2732-250 (3513) 2732-300 (3513) 2732-350 (3513) 2732-450 (3513) 2732A-250 (3513) 2732A-300 (3513) 2732A-350 (3513) 2732A-450 (3513)		2815	Lansdale National	HL76161 DM77S291 DM77S291A		2864	SEEQ	DQ2864 DQ2864H DQ52B33		2910A	TI	M5116 TCM2910A		
	National	MM2732 NMC2732 MSM2732		2815	Raytheon	932511M 29681 29681A 29683 29683A		2864	AMD	2864A 2865A X28C64 (3744) X28C64M (3744) X2864A (3741)		2911	Intel National	ID2911 TP3021 KT8521		
	OKI SGS-Thomson	M2732A TMS2732A		2815	WaferScale	WS57C191 WS57C291B		2864A	ATMEL	AM2864A AM9864 AT28C64 AT28HC64 AT28PC64 AT2864		2912	Samsung CMD Micro Intel National	G8912B ID2912 μA5912 TP3040		
27512	TI Catalyst Rsch Hitachi Intel	27512 HN27512 N27512 P27512		2816A	ATMEL	AT27C16 AT28C16 AT28HC16		2864A	ATMEL	AT28C64 AT28HC64 AT28PC64 AT2864		2913	Plessey Samsung SGS-Thomson	MV8912 KT3040 ETC5040 TCM2912C		
	Krueger	27512-200 (3513) 27512-250 (3513)		2816A	Catalyst Semi EXEL Harris IDT	CAT28C16A XL2816A HM6617 IDT78C16A		2864A	Catalyst Semi	CAT28C64A CAT28C65A XLS2864A XL2864A		2914	Fujitsu Motorola National Samsung SGS-Thomson	MB6045 MC14400-5 TP3064 KT8564 ETC5064		
	Mitsubishi OKI	M27512 MSM27512		2816A	Microchip National	28C16A NMC2816 NMC9816A NM9816		2864A	EXEL	28C16A NMC2816 NMC9816A NM9816		2916	Sierra NEC TI	SC11311 μPD9514AD TCM29C14 TCM2914		
	SGS-Thomson	M27512		2816A	Rockwell Samsung SEEQ	R2816A KM2816A M2816A 2816		2864A	Fujitsu Hitachi	HM58064 HN58C64 HN58C65 HN58C66 HN58064				MB6041 CA3054		
27512-170V05	TI	TMS27C512		2816A	Xicor	2816A X2816 X2816A		2864A	IDT	IDT77M7864 IDT78C64A		2916	Fujitsu Harris	MB6041 CA3054		
	Mitsubishi SGS-Thomson	M27512-170V05 M27C512-15XF1														

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Intel (Cont'd)				51C68 (Cont'd)				8037A (Cont'd)				82C37A (Cont'd)			
2916	Harris	CD22354 CD22354A CA3054 TP3054 KT8554	(Cont'd)	51C69	NEC Ricoh SGS-Thomson	µPD4314 PS6168 IMS1423 MK41168 CXK5416P/K TMM2068AP VT2069	(Cont'd)	8039	Intel	82C37A 8237 8237A-4 8237A-5	(Cont'd)	82C501	Newbridge OKI S-MOS Samsung	CA82C37A MSM82C37A SMC82C37A KS82C37A	(3569)
2917	Motorola National Samsung SGS-Thomson	ETC5054 MB6042 CD22357 CD22357A µA3057 TP3057 KT8557		5101	Sony Toshiba VLSI Tech Commodore Fujitsu Hitachi Intel Microchip Mitsubishi National	MPS2332 P51C69 P51C69 UM2168 R09432 M58333 F3532 NM52132 NCR2332 MN2332 LH2332 SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332 HA5101 MicroNet M515101 M5L5101 MCM51L01 MCM145101	(3547)	8080A	Mitsubishi	MSM82C37A MSM82C37AP µPD71037 µPD8237A		82C51	Intel SEEQ	82501 8023A 80234 COM82501 P8251 INS8251 µPD8251A MSM82C51 MSM82C51A	
3604A	Sierra Lansdale National	ETC5057 SC11302 HL7640 DM74S475 DM77S475 DM87S475 DM87S180 DM87S229		5104	NCR Panasonic Sharp Siemens	NCR2332 MN2332 LH2332 SAB8332 SAB8332 2332 2632A D51C69 P51C69 VT2332 HA5101 MicroNet M515101 M5L5101 MCM51L01 MCM145101		8085	Intel	8080A IL8080A 8085A TMP8085 TMP8085A	(3513)	82C55A	AMD	D82C54 82C54 CP82C54 82C54 8254 M5M82C54 M5M82C54P	
3608	National	AM27S31 HM6642 DM74S474 N82S141 S82S141 82HS321		5114	TI VLSI Tech Harris Motorola	D51C69 P51C69 VT2332 HA5101 MicroNet M515101 M5L5101 MCM51L01 MCM145101		8085A	Krueger Lansdale Intel	8080A IL8080A 8085A TMP8085 TMP8085A		82C57	Intel	8254 M5M82C54 M5M82C54P	(3569)
3624A	AMD Harris National Signetics	AM27S31 HM6642 DM74S474 N82S141 S82S141 82HS321		80C31	Sharp Cypress Harris Hitachi Mitsubishi National OKI Rockwell Cypress Harris	MM74C920 MNS101 LH5101 CY7C147 HM6504 HM4315 M58981 M58981 NMC6504 MSM5104 R6504 CY7C148 HA5114 HM6514 M58981 MSM5114 SRM2114C LC3514 5114 P80C31 P80C31BH M80C31 SC80C31 TMP80C35 M5M80C39 TMP80C39 TMP80C48 TMP80C49 TMP80C50 MBL80C51 P80C51 P80C51BH M80C51 Signetics SC80C51		8155	Hitachi	8086 8088 EDH8088CL 8088 ADG506A CY6116 ED18802 DG506A HM6516 HM65162 HM6716 HM6719 IDT6116 IDT6116A IDT6116L IDT6116S	(3513)	82C82	Intel	8254 M5M82C54 M5M82C54P µPD71055 µPD8255A 71055	
3632-1	Intel	EP512		80C35	OKI	MSM5104		8156	LogicDev	7L6116 DG506A MT51C1608		82C83	Intel	8254 M5M82C54 M5M82C54P	
5AC312	Altera	PA07	(3325)	80C39	Signetics	SC80C31		8156-2	Maxim	MT51C1608		82C84	OKI	8254 M5M82C54 M5M82C54P	
5C031	Apex Samsung	CPL16R4L-35 CPL16R6L-35 CPL16R8L-35		80C48	Hitachi	HM6504		82C28A	MicronTech	MT51C1608		82C86	NEC	8254 M5M82C54 M5M82C54P	
5C032	Sharp	LH5499		80C49	Hitachi	HM4315		82C28B	Motorola	MCM2018A MCM6116		82C88	NEC	8254 M5M82C54 M5M82C54P	
5C060	Altera	EP600		80C50	Hitachi	M58981		82C28C	Performance	P4C116 SSM6116 CXK5814P		82C89	NEC	8254 M5M82C54 M5M82C54P	
5C090	Altera	EP900		80C51	Mitsubishi	M58981		82C28D	Saratoga	SSM6116		82C90	NEC	8254 M5M82C54 M5M82C54P	
5C121	Altera	EP1210		80C51	OKI	NMC6504		82C28E	Sony	TXK5814P		82C91	NEC	8254 M5M82C54 M5M82C54P	
5C180	Altera	EP1800		80C51	Rockwell	R6504		82C28F	Toshiba	TC2018		82C92	NEC	8254 M5M82C54 M5M82C54P	
5C320	Altera	EP320		80C51	Cypress	CY7C148		82C28G	UMC	UM6116-35 (3688)		82C93	NEC	8254 M5M82C54 M5M82C54P	
51C66	Lattice	GAL16V8A GAL18V10		80C51	Intel	HA5114 HM6514 M58981 MSM5114 SRM2114C LC3514 5114 P80C31 P80C31BH M80C31 SC80C31 TMP80C35 M5M80C39 TMP80C39 TMP80C48 TMP80C49 TMP80C50 MBL80C51 P80C51 P80C51BH M80C51 Signetics SC80C51		82C28H	Vitellic	V16C16 VT20C19 HS81C55 µPD8155 HS81C56 8156-2 µPD8156-2 HS81C56 8156 8156-2 CD82C284 CA82C284 KS82C284 UM82C284 D82C288 MD82C288 82288 KS82C288 UM82C288 AM8237A D8237A 8237A CP82C37A 82C37A 8037A 8237 8237A-4 8237A-5 MSM82C37A M5M82C37AP µPD71037 µPD8237A		82C94	Intel	8254 M5M82C54 M5M82C54P µPD71055 µPD8255A 71055	
51C67	AMD Cypress Harris Hitachi IDT Intel LogicDev MicronTech Mitsubishi Motorola NEC S-MOS	AM2167 CY7C167A HM65262 HM6267 IDT6167 51C66 L7C167 MT5C1601 M5M21C67 MCM2167 µPD4311 SRM2267 SRM2367 SSM6167		80C86	Hitachi	HM6514 M58981 MSM5114 SRM2114C LC3514 5114 P80C31 P80C31BH M80C31 SC80C31 TMP80C35 M5M80C39 TMP80C39 TMP80C48 TMP80C49 TMP80C50 MBL80C51 P80C51 P80C51BH M80C51 Signetics SC80C51		82C28I	UMC	UM6116-35 (3688)		82C95	Intel	8254 M5M82C54 M5M82C54P µPD71055 µPD8255A 71055	
51C68	Sharp AMD Fujitsu Hitachi IDT LogicDev Mitsubishi Motorola	IM51403 MK41H66 MK41H67 LH5167 AM2167 CY7C167A HM65262 HM6267 IDT6167 51C66 L7C167 MT5C1601 M5M21C67 MCM2167 µPD4311 SRM2267 SRM2367 SSM6167		80C88	Hitachi	HM6514 M58981 MSM5114 SRM2114C LC3514 5114 P80C31 P80C31BH M80C31 SC80C31 TMP80C35 M5M80C39 TMP80C39 TMP80C48 TMP80C49 TMP80C50 MBL80C51 P80C51 P80C51BH M80C51 Signetics SC80C51		82C28J	UMC	UM6116-35 (3688)		82C96	Intel	8254 M5M82C54 M5M82C54P µPD71055 µPD8255A 71055	
	SGS-Thomson	IM51403 MK41H66 MK41H67 LH5167 AM2168 MB81C68A HM6168HP HM6268L IDT6168A IDT6168L IDT6168LA IDT6168S L7C168 M5M21C68P MCM6168		80C89	Hitachi	HM6514 M58981 MSM5114 SRM2114C LC3514 5114 P80C31 P80C31BH M80C31 SC80C31 TMP80C35 M5M80C39 TMP80C39 TMP80C48 TMP80C49 TMP80C50 MBL80C51 P80C51 P80C51BH M80C51 Signetics SC80C51		82C28K	UMC	UM6116-35 (3688)		82C97	Intel	8254 M5M82C54 M5M82C54P µPD71055 µPD8255A 71055	
	(Continued)			80C90	Hitachi	HM6514 M58981 MSM5114 SRM2114C LC3514 5114 P80C31 P80C31BH M80C31 SC80C31 TMP80C35 M5M80C39 TMP80C39 TMP80C48 TMP80C49 TMP80C50 MBL80C51 P80C51 P80C51BH M80C51 Signetics SC80C51		82C28L	UMC	UM6116-35 (3688)		82C98	Intel	8254 M5M82C54 M5M82C54P µPD71055 µPD8255A 71055	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Intel (Cont'd)				8237 (Cont'd)				8259A (Cont'd)				International CMOS Technology			
82C87	AMD	8287			Samsung	KS82C37A			National	INS8259		PEEL153	AMD	AM29C117	
	Harris	82C87H			Toshiba	TMP82C37			NEC	μPD71059		PEEL173	Gould AMI	AMPAL22V10A	(3442)
	Intel	8287		8237-5	VLSI Tech	VL82C37A				μPD8259A		PEEL173	Gould AMI	PALC20G10	(3442)
	NEC	μPD71087			National	74F597			Newbridge	71059		PEEL20CG10	Cypress	GA22VP10	
	OKI	MSM82C87		8237A-4	Signetics	74F597			OKI	CA82C59A (3569)			Gazelle	PEEL20CG10 (3442)	
82C88	AMD	D8288			AMD	AM8237A				MSM82C59					
	Harris	CP82C88				D8237A			Samsung	MSM82C59A					
		82C88				8237A				KS82C59A					
	Intel	8288			Harris	CP82C37A				TMP82C59					
	Mitsubishi	M5L8288S				82C37A				UM8259A					
	NEC	μPB8288D			Intel	8037A				VL82C59A					
		μPD71088				82C37A			82716	TP3052					
		71088				8237			8272	R6765			ATMEL	AT22V10	
	Newbridge	CA82C88 (3569)				8237A-5				R6765A				AT22V210	
	OKI	MSM82C88			Mitsubishi	M5M82C37A			SMC	FDC72C65			Cypress	CYPALC22V10L-35	
		MSM82C88A				M5M82C37AP				FDC765A				PALC22V10	
	Samsung	KS82C88			NEC	μPD71037			UMC	UM8272A (3689)				PALC22V10-25	
82HS321	Intel	3632-1				μPD8237A			NEC	μPD8279				PALC22V10-35	
82S191	AMD	AM27S191			Newbridge	CA82C37A (3569)			Harris	CP82C52				PALC22V10L-25	
		AM27S191A			OKI	MSM82C37A				82C82				PALC22V10L-35	
		AM27S191SA			S-MOS	SMC82C37A			Intel	μPD71082			Gould AMI	PEEL22CV10 (3442)	
		27S191			Samsung	KS82C37A			NEC	MSM82C82					
82S191	ATMEL	AT28HC191				KS8237A			OKI	82C82					
		AT28HC191L			Toshiba	TMP82C37			Harris	82C83H			Lattice	GAL16V8A	
82S191	Cypress	CY7C291			VLSI Tech	VL82C37A			Intel	82C83				GAL18V10	
		CY7C292			AMD	AM8237A			NEC	μPD71083				GAL20V8A	
		CY7C292A				D8237A			OKI	MSM82C83			National	GAL22V10	
		CY7C292AL				8237A			AMD	D8284A				PAL14L8	
82S191	Hitachi	HN25169			Harris	CP82C37A			Harris	CP82C84A			Samsung	CPL20L8-35	
	Motorola	MCM76101				82C37A				82C84A				CPL22V10	
		MCM76160			Intel	8037A			Intel	82C84A				CPL22V10-25	
82S191	National	DM77S191				82C37A			Mitsubishi	M5L8284A				CPL22V10-35	
		DM87S191				8237				M5L8284AP				CPL22V10L-25	
		DM87S291				8237A-4			NEC	μPD71084				CPL22V10L-35	
		DM87S291A			Mitsubishi	M5M82C37A				71084			Signetics	PLS173	
		DM87S291B				M5M82C37AP			Newbridge	CA82C84A (3569)			TI	TIBPAL22V10	
		932510			NEC	μPD71037			OKI	MSM82C84				TIBPAL22V10A	
		932511				μPD8237A				MSM82C84A				TICPAL22V10	
		932512			Newbridge	CA82C37A (3569)			Samsung	KS82C84A					
		932511			OKI	MSM82C37A			Harris	82C86H			Gould AMI	PEEL22CV10Z (3442)	
82S191	Signetics	N82S191			S-MOS	SMC82C37A			Intel	82C86				PEEL253 (3442)	
		N82S191A			Samsung	KS82C37A			National	DP8304			Gould AMI	PEEL273 (3442)	
		82S191				KS8237A			NEC	μPD71086			18CV8	18CV8	
82S191	TI	TBP38L166				TMP82C37			OKI	MSM82C86			27CX010	ATMEL	AT72C010
		TMS27C291			Toshiba	VL82C37A			AMD	8287				Mitsubishi	M5M27C100K
		TMS27C292			VLSI Tech	RL8243			Harris	82C87H				NEC	μPD27C1001
82S191	Waferscale	WS57C191			NEC	μPD8243			Intel	82C87			SGS-Thomson	m27C1001	
		WS57C291B			Signetics	N8243			NEC	μPD71087				M27C1001	
82005	SEEQ	82005			Intel	82C501			OKI	MSM82C87				WS27C010L	
82025	SEEQ	82025			SEEQ	8023A			AMD	D8288			Waferscale	AM27S43	
82064	Western	WD2010				8023A			Harris	CP82C88			AMD	AM27S43A	
8212	AMD	AM8212			SMC	COM82501				82C88				27S43	
	Lansdale	IL8212			SMC	COM82502			Intel	82C88				MB7142	
	OKI	MSM82C12			National	INS8253			Mitsubishi	M5L8288S			Fujitsu	HL76321	
8216	National	DP8216			NEC	μPD8253				μPB8288D			Lansdale	DM77S321	
		INS8216			AMD	D82C54			NEC	μPD71088			National	DM77S321	
8224	National	DP8224				82C54				71088			Raytheon	R29671D	
		INS8224			Harris	CP82C54			Newbridge	CA82C88 (3569)				29671	
	Signetics	S8224				82C54			OKI	MSM82C88				29671A	
8226	Mitsubishi	M5L8226			Intel	82C54				MSM82C88A			Signetics	N82H321	
	National	DP8226			Mitsubishi	M5M82C54P			Samsung	KS82C88			Waferscale	WS57C43B	
		INS8226				μPD71054			Harris	82C89			AMD	AM29C116	
8228	National	DP8228			NEC	CA82C54 (3569)				TMP8355				AM29C116A	
		INS8228			OKI	MSM82C54				GAL16V8A				AM29116	
	TI	SN74S428			Samsung	KS82C54				GAL16V8A			Cypress	CY7C9116	
		TIM8228			VLSI Tech	VL82C54			TI	GAL18V10				CY7C9117	
82288	AMD	D82C288				D8255A			ATMEL	TIBPAD16N8			Raytheon	R29671S	
	Harris	MD82C288			AMD	82C55A			Intel	AT27HC64			TI	TMS27C292	
	Intel	82C288			Harris	P8255			Intel	M27C64			AMD	AM27S49	
	Samsung	KS82C288				82C55A			Krueger	27C64-200 (3513)				27S49	
	UMC	UM82C288				82C55A				27C64-250 (3513)			ATMEL	AT27HC641	
82289	Newbridge	CA82C289			Mitsubishi	M5M82C55A				27C64-300 (3513)				AT27HC642	
	Samsung	KS82C289				M5M82C55AP			87C64	27C64			Cypress	CY7C261	
8231	Lansdale	SL8231			NEC	μPD71055			Microchip	NMC27C64				CY7C263	
	Signetics	S8231				μPD8255A			National	OKI				CY7C264	
8237	AMD	AM8237A				71055			OKI	MSM27C64				MBM7144	
		D8237A			Newbridge	CA82C55A (3569)			S-MOS	SPM27C64			Fujitsu	MB7144	
		8237A			OKI	MSM82C55A			SGS-Thomson	TS27C64A				MB7144E	
	Harris	CP82C37A			S-MOS	SMC82C55AC				27C64			Microchip	27HC641	
		82C37A			Samsung	KS82C55A			Signetics	TMS27C64			National	32T565	
	Intel	8037A				TMP82C55			TI	TMS27PC64				932665	
		82C37A			UMC	UM82C55A (3689)				VT27C64				932667C	
		8237A-4			NEC	μPD8257			87C64	WS27C64L				932667C	
		8237A-5			SMC	COM82586				μPD8741A			NEC	μPD27HC65	
	Mitsubishi	M5M82C37A				CP82C59A				NS80CX48			Sharp	LH5749	
		M5M82C37AP				82C59A				μPD8748				LH5749J	
	NEC	μPD71037			Intel	82C59A				8755A			Signetics	N82HS641	
		μPD8237A				MT8259			8755A					27HC641	
	Newbridge	CA82C37A (3569)			MicronTech	M5M82C59								27HC642	
	OKI	MSM82C37A			Mitsubishi	M5M82C59AP								82HS641	
	S-MOS	SMC82C37A				M5M8259AP								(Continued)	

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ALT. SOURCE DIRECTORY

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ALT. SOURCE DIRECTORY

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ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page		
Krueger Company (Cont'd)				27512-200	Catalyst Rsch	27512		4116-150	OKI	MSM3716	(Cont'd)	4464-100	Hitachi	HM50464	(Cont'd)		
2732-350	Krueger		(Cont'd)		Hitachi	HN27512		4116-200	Siemens	HYB4116				HM53461			
		2732A-250	(3513)		Intel	N27512			Signetics	2690		Hyundai	HY53C464				
		2732A-300	(3513)			P27512			Krueger	4116-120	(3513)	IDT	DPS9264				
		2732A-350	(3513)			27512				4116-150	(3513)	Krueger	4464-120	(3513)			
		2732A-450	(3513)		Krueger	27512-250	(3513)		National	F16K		4464-150	(3513)				
		National	MM2732		Mitsubishi	M27512				F4116		MicronTech	MT4067				
			NMC2732		OKI	MSM27512				MM5290		Mitsubishi	MCM41464				
		OKI	MSM2732			M27512			OKI	MSM3716			MSM4464P				
		SGS-Thomson			SGS-Thomson				Siemens	HYB4116			M5M4C264				
				M2732A			M27512			Signetics	2690			M5M4464			
2732-450	Intel	TMS2732A		TI	TMS27C512		41256-100	Krueger	41256-120	(3513)		Motorola	MCM41464				
		M2732		Catalyst	Rsch	27512			NEC	μPD41264							
		2732		Hitachi	HN27512				OKI	MSM41464							
		2732A		Intel	N27512				Samsung	KM41464							
		2732-250	(3513)		P27512					Vitelc	V53C464						
		2732-300	(3513)		27512				Fujitsu	MB61461							
		2732-350	(3513)		27512					Hitachi	HM50464						
		2732A-250	(3513)		Krueger	27512-200		(3513)			Hyundai	HY53C464					
		2732A-300	(3513)		Mitsubishi	M27512				IDT	DPS9264						
		2732A-350	(3513)		OKI	MSM27512				Krueger	4464-100	(3513)					
2732A-250	Krueger	2732A-450	(3513)	SGS-Thomson			41256-120	(3513)						4464-150	(3513)		
		National	MM2732		TI	TMS27C512			MicronTech	MT1259				MicronTech	MT4067		
			NMC2732		ATMEL	AT27HC64			Mitsubishi	M5M4256A				Mitsubishi	MCM41464		
		OKI	MSM2732		Hyundai	HY2764			Motorola	MCM6256B					MSM4464P		
		SGS-Thomson		Intel	M2764			OKI	MSM37256A					M5M4C264			
				Krueger	2764-250	(3513)		Panasonic	MN41256					M5M4464			
					2764-300	(3513)		Samsung	KM41256A					MCM41464			
					2764-450	(3513)		Siemens	HYB41256				Motorola	μPD41264			
								Vitelc	V51C257				NEC	μPD41464			
									41256-100	(3513)			OKI	MSM41464			
2732A-300	National			TI	TMS27PC64		41256-150	Krueger	41256-120	(3513)				Samsung	KM41464		
					TMS2764												
				ATMEL	AT27HC64				MicronTech	MT1259							
				Hyundai	HY2764				Mitsubishi	M5M4256A							
				Intel	M2764				Motorola	MCM6256B							
				Krueger	2764-200	(3513)			OKI	MSM37256A							
					2764-300	(3513)			Panasonic	MN41256							
					2764-450	(3513)			Samsung	KM41256A							
									Siemens	HYB41256							
									Vitelc	V51C257							
2732A-350	Intel			Mitsubishi	M5L2764		4164-120	IDT	DPS9264								
				National	2764				Intel	IDT7164L							
				OKI	MSM2764				Krueger	4164-150	(3513)						
				SEEQ	2764					4164-200	(3513)						
				TI	TMS27PC64												
					TMS2764				National	F4164							
				ATMEL	AT27HC64					F64K							
				Hyundai	HY2764					NMC4164							
				Intel	M2764				OKI	MSM3764							
				Krueger	2764-200	(3513)			Panasonic	MN4164							
2732A-450	National				2764-250	(3513)			MN4864								
					2764-450	(3513)			KM4164A								
								Samsung	KM4164B								
								Siemens	HYB4164								
								TI	SM4164								
								IDT	DPS9264								
								Intel	IDT7164L								
								Krueger	M2164A								
									4164-120	(3513)							
									4164-200	(3513)							
2732A-350	Krueger																
2732A-450	National																
2732A-350	Intel																
2732A-450	Krueger																

* Discontinued

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◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Lambda (Cont'd)				(Cont'd)											
LLM350	National	μA78HGA		HL76165	Motorola	MCM76165		ML3060	Lansdale	ML74H74		ML5403	National	DM5403	
• LMC7806	Samsung	KA350			Raytheon	29653		ML3061	TI	SN74S114			TI	SN5403	
	GoldStar	GL7806		HL7621	Samsung	KM28C65		ML3062	National	DM74S113		ML5404	National	DM5404	
	Samsung	MC7806			Signetics	82HS195		ML3100	Lansdale	SN74S113				DM9016C	
	SGS-Thomson				AMD	AM27S13				ML54H00				5404	
		μA7806			Harris	ICL7621		ML3101	Lansdale	SL54H00		ML5405	TI	9016	
		L7806			Maxim	MP7621			National	ML5408 (3514)		ML5406	National	SN5405	
• LMC7806	Toshiba	TA78006			MicroPwr	DM74S571			TI	SN5408		ML5407	National	SN5406	
• LMC7808	GoldStar	GL7808			National	DM74S571A		ML3104	Lansdale	ML54H01			TI	DM5407	
	Motorola	MC08			Signetics	N82S131				SL54H01		ML5408	Lansdale	SN5407	
	Samsung	MC7808				S82S131		ML3105	Lansdale	ML54H10			National	ML3101 (3514)	
	SGS-Thomson			HL76321	AMD	AM27S43				SL54H10				5408	
		μA7808				AM27S43A		ML3106	Lansdale	ML54H11		ML5409	TI	SN5408	
		L7808				27S43				SL54H11			Lansdale	SL5409	
• LMC7808	Toshiba	TA78008			Fujitsu	M87142		ML3110	Lansdale	SL54H20			National	DM5409	
• LMC7812	GoldStar	GL7812			ICT	27CX321		ML3112	Lansdale	ML54H22				5409	
	National	LM340-12			National	DM77S321		ML3116	Lansdale	ML54H30		ML5410	TI	SN5409	
	Samsung	MC7812			Raytheon	R29671D				SL54H30			National	DM5410	
	SGS-Thomson					29671		ML3120	Lansdale	ML54H50				5410	
		μA7812				29671A		ML3123	Lansdale	ML54H51			TI	SN5410	
• LMC7812	Toshiba	TA78012			Signetics	N82H321		ML3124	Lansdale	ML3125 (3514)		ML54100	Lansdale	SL54100	
• LMC7815	GoldStar	GL7815		HL7640	Waferscale	WS57C43B				ML54H40		ML54107	TI	SN54107	
	Lambda	LA51515			National	DM74S475		ML3125	Lansdale	SL54H40		ML54121	National	DM54121	
	Samsung	KA340T15				DM77S475				ML3124 (3514)				54121	
	SGS-Thomson	MC7815		HL7641	Lansdale	ML863				ML54H40		ML54122	TI	SN54121	
• LMC7815						ML963		ML3131	Lansdale	SL54H40			National	54122	
		μA7815			Motorola	MC963				SL54H52		ML54123	TI	SN54122	
		L7815			National	DM963		ML3132	Lansdale	SL54H52			Mitsubishi	M54123	
• LMC7815	Toshiba	TA78015		HL7642		9963				ML54H53			National	DM54123	
• LMC7818	Samsung	MC7818			National	DM54S572		ML3160	Lansdale	SL54H53				54123	
	SGS-Thomson					93452				ML54H74		ML5413	TI	SN54123	
		μA7818		HL7643	AMD	AM27S33		ML3161	TI	SL54H74		ML54132	TI	SN5413	
		L7818			Fujitsu	MB7122		ML3162	National	SN54S114		ML5414	TI	SN54132	
• LMC7818	Toshiba	TA78018		HL7649	National	DM74S573			TI	SN54S113			National	DM5414	
• LMC7824	AD	AD7824			AMD	27S29		ML385	Lansdale	ML935			TI	5414	
	GoldStar	GL7824			AD	OP15			Motorola	MC835		ML54150	National	SN5414	
	Maxim	AD7824				PM157				MC935				DM54150	
	Samsung	MC7824				PM157A			National	DM935			TI	54150	
	SGS-Thomson				Motorola	LF351				9135		ML54151	TI	SN54150	
		μA7824			National	LF157A				9935			National	DM54151	
		L7824				LF351		ML387	Lansdale	ML937				54151A	
• LMC7824	TI	LM340-24				LF353			Motorola	MC837		ML54153	TI	SN54151A	
	Toshiba	TA78024			NEC	μPC157				MC937			National	DM54153	
• LMC7902	National	μA7902			Raytheon	29621			National	DM937				54153	
• LMC7905	Samsung	MC7902			Samsung	KF351				937		ML54154	TI	SN54153	
	Samsung	MC7905			Signetics	PLS157				9937			National	DM54154	
	SGS-Thomson				TI	LF351		ML4056	Harris	CD4056B				DM9311	
		L7905		HL7681	AMD	AM27S181			SGS-Thomson				Signetics	54154	
• LMC7908	National	μA79M08			Cypress	CYC7282M				HCC4056		ML54155	TI	SN54154	
	Samsung	MC79M08C			Gould AMI	S25089				HCC4056B			TI	SN54155	
• LMC7908	SGS-Thomson	MC7908			Hitachi	HN25089				HCF4056		ML5416	TI	SN5416	
		L7908			National	DM77LS181			Toshiba	HCF4056B		ML54160	Lansdale	ML9310	
	Toshiba	TA79008				DM77S181		ML4302	TI	TC4056B			TI	SN54160	
						DM77S281		ML54H00	Lansdale	SN7489		ML54161	National	DM54161	
						DM87S181				ML3100 (3514)				54161	
						DM87S281		ML54H01	Lansdale	SL54H00			Signetics	54161	
						932451				ML3104 (3514)		ML54162	TI	SN54161	
					Raytheon	29631		ML54H10	Lansdale	SL54H01			National	DM54162	
						29631AM				ML3105 (3514)			TI	SN54162	
					Signetics	N82S181		ML54H11	Lansdale	SL54H10		ML54163	National	DM54163	
						S82S181				ML3106 (3514)			Signetics	54163	
					STC	STC5089		ML54H20	Lansdale	SL54H11			TI	SN54163	
						28586-60		ML54H22	Lansdale	ML54H72		ML54165	National	DM54165	
				HL7685	AMD	AM27S185		ML54H30	Lansdale	ML3112 (3514)				54165	
						27S185		ML54H32	Lansdale	ML3116 (3514)			TI	SN54165	
						27S185				SL54H30		ML5417	National	DM5417	
					Fujitsu	MB7128		ML54H40	Lansdale	ML3124 (3514)			TI	SN5417	
					Hitachi	HN25085				ML3125 (3514)		ML54174	National	DM54174	
					National	DM87S185				SL54H40				54174	
					Raytheon	29651		ML54H50	Lansdale	ML3120 (3514)			Signetics	54174	
						29651A		ML54H51	Lansdale	ML3123 (3514)			TI	SN54174	
					Signetics	N82S185		ML54H52	Lansdale	ML3131 (3514)		ML54175	National	DM54175	
						S82S185				SL54H52				54175	
					TI	24S81-55		ML54H53	Lansdale	ML3132 (3514)			Signetics	54175	
				IL8080A	Krueger	8080A (3513)				SL54H53			TI	SN54175	
				IL8212	AMD	AM8212				ML54H20		ML54176	Lansdale	ML74176 (3514)	
					Intel	8212		ML54H72	Lansdale	SL54H72			TI	SN54176	
					OKI	MSM82C12		ML54H74	Lansdale	ML3160 (3514)		ML54177	Lansdale	ML74177 (3514)	
				IL8214	Intel	M8214			National	SL54H74			TI	SN54177	
				IL8216	Intel	M8216		ML5400		DM5400				54177	
				IL8224	Intel	M8224				5400		ML54180	National	DM54180	
				IL8226	Intel	M8226			Signetics	5400			TI	SN54180	
				IL8228	Intel	M8228			TI	SN5400		ML54181	Lansdale	ML74181 (3514)	
				IL8282	Intel	M8282		ML5401	Lansdale	SL5401			National	DM74181	
				IL8283	Intel	M8283			National	DM5401		ML54182	Lansdale	SL54182	
				IL8286	Intel	M8286			TI	SN5401			National	DM54182	
				IL8287	Intel	M8287		ML5402	Lansdale	SL5402		ML54190	TI	SN54190	
HL76165	AMD	AM2864B			Lansdale	ML74H53			National	DM5402		ML54191	National	SN54191	
	ATMEL	AT28C64			National	74H105				5402				54191	
		AT28HC64				9001			TI	SN5402			TI	SN54191	
		AT28PC64													

• Discontinued

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IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Lansdale Semiconductor (Cont'd)				ML74H01	Lansdale National	ML74H08 DM74H01 DM74H08		ML74154	Lansdale National	ML8311 ML9311 DM7213 DM74154 DM8311 9311		ML7430	National	DM7430 7430	
ML54192	TI	SN54192		ML74H08	Lansdale National	ML74H01 DM74H01 DM74H08						ML7437	TI National	SN7430 DM7437 7437	
ML54193	TI	SN54193		ML74H10	National	ML74H10 TI SN74H10		ML74155	Signetics TI	74154 SN54154		ML7438	Signetics TI	7437 SN7437	
ML54194	National	DM54194		ML74H53	Lansdale	ML3032	(3514)	ML74160	National	DM74155		ML7440	National	DM7438 7438	
ML54195	Signetics	54194		ML74H60	National	74H60		ML74161	TI	74155		ML7441	Signetics TI	SN7438 DM7440	
ML54196	Lansdale	ML8300		ML74H71	National	74H71		ML74162	National	SN74155		ML7442	TI	SN7442A	
ML54197	TI	SN54195		ML74H74	Lansdale	ML3060	(3514)	ML74163	TI	ML8310		ML7445	National	7445	
ML5420	National	DM5420		ML7400	Signetics TI	DM7400 7400 SN7400		ML74165	National	DM74160		ML7446	TI	SN7446A	
ML5423	TI	SN5420		ML7401	National	DM7401 7401		ML7417	TI	SN74160		ML7450	National	DM7450 7450	
ML5425	TI	SN5423		ML7402	Saratoga TI	SSL7401 SN7401		ML74174	National	DM74161		ML7451	TI	SN7450	
ML5426	National	DM5425		ML7403	National	DM7402 7402		ML74175	Signetics TI	DM74162 SN74162		ML7454	Signetics TI	DM7451 7451	
ML5427	TI	SN5425		ML7404	Signetics TI	7402 SN7402		ML74176	TI	DM74163 74163		ML7470	National	SN7470	
ML54298	National	DM5426		ML7405	Toshiba	TA7402P		ML74177	National	DM74165 DM8590		ML7473	TI	SN7473	
ML5430	TI	SN5427		ML7406	National	DM7403 7403		ML74180	TI	SN74165 DM7417		ML7474	TI	SN7474	
ML5437	TI	SN54298		ML7407	Saratoga	SSL7403		ML74181	Lansdale	7417		ML7475	Signetics TI	DM7475 7475	
ML5438	National	DM5430		ML7408	Signetics TI	7403 SN7403		ML74190	National	DM74174 74174		ML7476	TI	SN7476	
ML5440	National	DM5437		ML7409	National	DM7404 7404		ML74191	TI	SN74174		ML7477	National	DM7476 7476	
ML5442	TI	SN5438		ML7410	Signetics TI	SSL7404 7404		ML74192	Signetics TI	DM74175 74175		ML7478	TI	SN7477	
ML5444	National	DM5440		ML7411	Signetics TI	SN7404 DM7405		ML74193	National	DM74176 74176		ML7479	TI	SN7478	
ML5445	TI	SN5442		ML7412	National	7405		ML74194	TI	SN74177		ML7480	TI	SN7479	
ML5446	TI	SN5442A		ML7413	Signetics TI	7406		ML74195	National	DM74178 74178		ML7481	TI	SN7480	
ML5447	National	DM5445		ML7414	Signetics TI	SN7406		ML74196	TI	DM74179 74179		ML7482	TI	SN7481	
ML5448	TI	SN5447A		ML7415	Signetics TI	DM7407 7407		ML74197	National	DM74180 74180		ML7483	TI	SN7482	
ML5449	TI	SN5447A		ML7416	Signetics TI	SN7407		ML74198	TI	DM74181 74181		ML7484	TI	SN7483	
ML5450	TI	SN5448		ML7417	Signetics TI	DM7408 7408		ML74199	TI	DM74182 74182		ML7485	TI	SN7484	
ML5451	Micrel	MM5451		ML7418	Signetics TI	SN7408		ML74200	TI	DM74183 74183		ML7486	TI	SN7485	
ML5452	National	DM5451		ML7419	Signetics TI	DM7409 7409		ML74201	TI	DM74184 74184		ML7487	TI	SN7486	
ML5453	SGS-Thomson	MM5451		ML7420	Signetics TI	SSL7409 SN7409		ML74202	TI	DM74185 74185		ML7488	TI	SN7487	
ML5454	Lansdale	SL5453		ML7421	Signetics TI	DM7410 7410		ML74203	TI	DM74186 74186		ML7489	TI	SN7488	
ML5455	TI	SN5453		ML7422	Signetics TI	SN7410		ML74204	TI	DM74187 74187		ML7490	TI	SN7489	
ML5456	TI	SN5454		ML7423	Signetics TI	DM7411 7411		ML74205	TI	DM74188 74188		ML7491	TI	SN7490	
ML5457	Lansdale	SL5470		ML7424	Signetics TI	DM7412 7412		ML74206	TI	DM74189 74189		ML7492	TI	SN7491	
ML5458	TI	SN5470		ML7425	Signetics TI	SN7412 7412		ML74207	TI	DM74190 74190		ML7493	TI	SN7492	
ML5459	Lansdale	SL5472		ML7426	Signetics TI	DM7413 7413		ML74208	TI	DM74191 74191		ML7494	TI	SN7493	
ML5460	Mosel	MS72105		ML7427	Signetics TI	DM7414 7414		ML74209	TI	DM74192 74192		ML7495	TI	SN7494	
ML5461	TI	SN5472		ML7428	Signetics TI	DM7415 7415		ML74210	TI	DM74193 74193		ML7496	TI	SN7495	
ML5462	National	DM5473		ML7429	Signetics TI	DM7416 7416		ML74211	TI	DM74194 74194		ML7497	TI	SN7496	
ML5463	Signetics	5473		ML7430	Signetics TI	DM7417 7417		ML74212	TI	DM74195 74195		ML7498	TI	SN7497	
ML5464	TI	SN5473		ML7431	Signetics TI	DM7418 7418		ML74213	TI	DM74196 74196		ML7499	TI	SN7498	
ML5465	TI	SN5474		ML7432	Signetics TI	DM7419 7419		ML74214	TI	DM74197 74197		ML7500	TI	SN7499	
ML5466	National	DM5475		ML7433	Signetics TI	DM7420 7420		ML74215	TI	DM74198 74198		ML7501	TI	SN7500	
ML5467	TI	SN5475		ML7434	Signetics TI	DM7421 7421		ML74216	TI	DM74199 74199		ML7502	TI	SN7501	
ML5468	National	DM5476		ML7435	Signetics TI	DM7422 7422		ML74217	TI	DM74200 74200		ML7503	TI	SN7502	
ML5469	TI	SN5476		ML7436	Signetics TI	DM7423 7423		ML74218	TI	DM74201 74201		ML7504	TI	SN7503	
ML5470	National	DM5476		ML7437	Signetics TI	DM7424 7424		ML74219	TI	DM74202 74202		ML7505	TI	SN7504	
ML5471	TI	SN5476		ML7438	Signetics TI	DM7425 7425		ML74220	TI	DM74203 74203		ML7506	TI	SN7505	
ML5472	National	DM5476		ML7439	Signetics TI	DM7426 7426		ML74221	TI	DM74204 74204		ML7507	TI	SN7506	
ML5473	TI	SN5476		ML7440	Signetics TI	DM7427 7427		ML74222	TI	DM74205 74205		ML7508	TI	SN7507	
ML5474	National	DM5476		ML7441	Signetics TI	DM7428 7428		ML74223	TI	DM74206 74206		ML7509	TI	SN7508	
ML5475	TI	SN5476		ML7442	Signetics TI	DM7429 7429		ML74224	TI	DM74207 74207		ML7510	TI	SN7509	
ML5476	National	DM5476		ML7443	Signetics TI	DM7430 7430		ML74225	TI	DM74208 74208		ML7511	TI	SN7510	
ML5477	TI	SN5476		ML7444	Signetics TI	DM7431 7431		ML74226	TI	DM74209 74209		ML7512	TI	SN7511	
ML5478	National	DM5476		ML7445	Signetics TI	DM7432 7432		ML74227	TI	DM74210 74210		ML7513	TI	SN7512	
ML5479	TI	SN5476		ML7446	Signetics TI	DM7433 7433		ML74228	TI	DM74211 74211		ML7514	TI	SN7513	
ML5480	National	DM5476		ML7447	Signetics TI	DM7434 7434		ML74229	TI	DM74212 74212		ML7515	TI	SN7514	
ML5481	TI	SN5476		ML7448	Signetics TI	DM7435 7435		ML74230	TI	DM74213 74213		ML7516	TI	SN7515	
ML5482	National	DM5476		ML7449	Signetics TI	DM7436 7436		ML74231	TI	DM74214 74214		ML7517	TI	SN7516	
ML5483	TI	SN5476		ML7450	Signetics TI	DM7437 7437		ML74232	TI	DM74215 74215		ML7518	TI	SN7517	
ML5484	National	DM5476		ML7451	Signetics TI	DM7438 7438		ML74233	TI	DM74216 74216		ML7519	TI	SN7518	
ML5485	TI	SN5476		ML7452	Signetics TI	DM7439 7439		ML74234	TI	DM74217 74217		ML7520	TI	SN7519	
ML5486	National	DM5476		ML7453	Signetics TI	DM7440 7440		ML74235	TI	DM74218 74218		ML7521	TI	SN7520	
ML5487	TI	SN5476		ML7454	Signetics TI	DM7441 7441		ML74236	TI	DM74219 74219		ML7522	TI	SN7521	
ML5488	National	DM5476		ML7455	Signetics TI	DM7442 7442		ML74237	TI	DM74220 74220		ML7523	TI	SN7522	
ML5489	TI	SN5476		ML7456	Signetics TI	DM7443 7443		ML74238	TI	DM74221 74221		ML7524	TI	SN7523	
ML5490	National	DM5476		ML7457	Signetics TI	DM7444 7444		ML74239	TI	DM74222 74222		ML7525	TI	SN7524	
ML5491	TI	SN5476		ML7458	Signetics TI	DM7445 7445		ML74240	TI	DM74223 74223		ML7526	TI	SN7525	
ML5492	AD	CMP01		ML7459	Signetics TI	DM7446 7446		ML74241	TI	DM74224 74224		ML7527	TI	SN7526	
ML5493	National	DM5492		ML7460	Signetics TI	DM7447 7447		ML74242	TI	DM74225 74225		ML7528	TI	SN7527	
ML5494	TI	SN5492A		ML7461	Signetics TI	DM7448 7448		ML74243	TI	DM74226 74226		ML7529	TI	SN7528	
ML5495	TI	SN5493A		ML7462	Signetics TI	DM7449 7449		ML74244	TI	DM74227 74227		ML7530	TI	SN7529	
ML5496	TI	SN5496		ML7463	Signetics TI	DM7450 7450		ML74245	TI	DM74228 74228		ML7531	TI	SN7530	
ML5497	National	DM5497		ML7464	Signetics TI	DM7451 7451		ML74246	TI	DM74229 74229		ML7532	TI	SN7531	
ML5498	TI	SN5497		ML7465	Signetics TI	DM7452 7452		ML74247	TI	DM74230 74230		ML7533	TI	SN7532	
ML5499	National	DM5497		ML7466	Signetics TI	DM7453 7453		ML74248	TI	DM74231 74231		ML7534	TI	SN7533	
ML5500	TI	SN5497		ML7467	Signetics TI	DM7454 7454		ML74249	TI	DM74232 74232		ML7535	TI	SN7534	
ML5501	AD	PM562		ML7468	Signetics TI	DM7455 7455		ML74250	TI	DM74233 74233		ML7536	TI	SN7535	
ML5502	Lansdale	HL7602		ML7469	Signetics TI	DM7456 7456		ML74251	TI	DM74234 74234		ML7537	TI	SN7536	
ML5503	TI	SN5497		ML7470	Signetics TI	DM7457 7457		ML74252	TI	DM74235 74235		ML7538	TI	SN7537	
ML5504	National	DM5497		ML7471	Signetics TI	DM7458 7458		ML74253	TI	DM74236 74236		ML7539	TI	SN7538	
ML5505	TI	SN5497		ML7472	Signetics TI	DM7459 7459		ML74254	TI	DM74237 74237		ML7540	TI	SN7539	
ML5506	National	DM5497		ML7473	Signetics TI	DM7460 7460		ML74255	TI	DM74238 74238		ML7541	TI	SN7540	
ML5507	TI	SN5497		ML7474	Signetics TI	DM7461 7461		ML74256	TI	DM74239 74239		ML7542	TI	SN7541	
ML5508	National	DM5497		ML7475	Signetics TI	DM7462 7462		ML74257	TI	DM74240 74240		ML7543	TI	SN7542	
ML5509	TI	SN5497		ML7476	Signetics TI	DM7463 7463		ML74258	TI	DM74241 74241		ML754			

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Lansdale Semiconductor (Cont'd)				ML846	National	(Cont'd)		ML9310	Lansdale	ML54160 (3514)		ML956	Lansdale	ML856	
ML8280		(Cont'd)				946			TI	SN54160			Motorola	MC856	
	Signetics	74176		ML848	Lansdale	ML948		ML9311	Lansdale	ML74154 (3514)			National	DM9094	
	TI	SN74176			Motorola	MC948			National	ML8311		ML957	Lansdale	ML857	
ML8281	National	DM74177			National	DM948				DM7213			Motorola	MC857	
		DM8281				948				DM74154				MC957	
	Signetics	74177		ML849	Lansdale	ML949				DM8311			National	DM9567	
	TI	SN74177			Motorola	MC949			Signetics	74154				DM957	
ML8285	Lansdale	RL8285			National	DM949		ML9312	Lansdale	SN54154		ML958	Lansdale	ML858	
ML8288	Lansdale	SL8288				949				ML8312			Motorola	MC858	
ML8290	Lansdale	ML74196 (3514)		ML851	Lansdale	ML852			National	RL8230			National	MC958	
		RL8290			Motorola	ML951			Lansdale	9312				DM958	
	National	DM74196				MC851		ML9316	Lansdale	ML8316				9158	
		DM8290				MC852			National	9316		ML9602	National	DM8602	
	Signetics	74196			National	MC951			Lansdale	ML832				DM9602	
	TI	SN74196		ML852	Lansdale	ML851			Motorola	MC932				9602	
ML8291	Lansdale	ML74197 (3514)				ML951			National	932		ML961	Motorola	MC961	
		RL8291			Motorola	MC851				9932			National	DM961	
	National	DM74197				MC852		ML9322	National	DM54157				9961	
		DM8291				MC951				54157		ML962	Lansdale	ML862	
		74197			National	9951			TI	SN54157			Motorola	MC962	
	Signetics	74197		ML853	Lansdale	ML953			Motorola	MC933			National	DM962	
	TI	SN74197			Motorola	MC853		ML933	National	DM933				962	
ML830	Lansdale	ML930				MC953				9933		ML963	Lansdale	HL7641	
	Motorola	MC830			National	DM9093		ML934	Motorola	MC934				ML863	
		MC930				9093		ML935	Lansdale	ML385			Motorola	MC963	
	National	DM930		ML855	Lansdale	ML955			Motorola	MC835			National	DM963	
		930			Motorola	MC855				MC935				9963	
		9930				MC955			National	DM935		ML986	Plessey	ZN515	
ML8300	Lansdale	ML54195 (3514)			National	DM9097				9135		ML3262	National	3262	
		ML9300		ML856	Lansdale	9097		ML936	Lansdale	9935		NL3341	Cypress	CY3341	
	National	9300			Motorola	ML956			Motorola	ML836			National	CY3341AC	
	TI	SN54195				MC856				MC936				3341	
ML8301	Lansdale	ML9301				MC956			National	DM936			Plessey	MJ2841	
		RL8252			National	DM9094				936		NL3342	National	3342	
		SL8252		ML857	Lansdale	9094		ML937	Lansdale	9936		NL3347	National	3347	
	National	DM8301			Motorola	ML957			Motorola	ML387		NL3348	National	3348	
		DM9301				MC857				MC837		NL3349	National	3349	
		9031				MC957			National	MC937		NL3351	National	3351	
		9301			National	DM9567				DM937		NL3357	National	3357	
	Signetics	S8252				DM957				937		NL3413	National	3413	
ML8304	Lansdale	ML9304		ML858	Lansdale	ML958				9937		NL3418	National	3418	
ML8308	Lansdale	ML9308			Motorola	MC858		ML941	Lansdale	ML841		NL3466	National	3466	
	National	9308				MC958			Motorola	MC941		NL3499	National	3499	
	TI	SN74116			National	DM958			National	9941		NL3708	National	3708	
ML8309	National	DM8309				9158		ML943	Motorola	MC943		NL3844	National	3844	
		DM9309				9309			National	SH2001		NL3845	National	3845	
		9309		ML8601	Lansdale	ML74122 (3514)		ML944	Lansdale	ML844		RL8T20	Signetics	N8T20	
ML8310	Lansdale	ML74160 (3514)			National	DM8601			Motorola	MC944		RL8202	Lansdale	ML8202	
	National	DM74160				DM9601			National	DM944		RL8203	Lansdale	ML8203	
	TI	SN74160				9601				944		RL8230	Lansdale	ML8312	
ML8311	Lansdale	ML74154 (3514)			Signetics	N8T22				9944				9312	
		ML9311				S8T22		ML945	Lansdale	ML845			National	DM8233	
		DM7213			TI	SN74122			Motorola	MC945		RL8233	Lansdale	ML8233	
		DM74154		ML862	Lansdale	ML962			National	DM945		RL8234	Lansdale	ML8234	
		DM8311			Motorola	MC962				945		RL8241	Lansdale	ML8241	
		9311			National	DM962				9945		RL8243	Intel	8243	
	Signetics	74154				962		ML946	Lansdale	ML846			NEC	μPD8243	
	TI	SN54154				9962			Motorola	MC946			8243	N8243	
ML8312	Lansdale	RL9312		ML863	Lansdale	HL7641			National	DM946		RL8251	Lansdale	ML8251	
		RL8230				ML963				946		RL8252	Lansdale	ML8301	
	National	9312			Motorola	MC963				9946				ML9301	
ML8316	Lansdale	ML9316			National	DM963		ML948	Lansdale	ML848			National	SL8252	
	National	9316				9963			Motorola	MC948				DM8301	
ML832	Lansdale	ML932				ML910			National	DM948				DM9301	
	Motorola	MC932		ML909	Lansdale	ML909				948				9301	
	National	DM932		ML930	Lansdale	ML830		ML949	Lansdale	ML849		RL8261	Signetics	S8252	
		932			Motorola	MC830			Motorola	MC949		RL8267	Lansdale	ML8267	
		9932				MC930			National	DM949		RL8270	Lansdale	ML8270	
ML836	Lansdale	ML936				DM930				949		RL8271	Lansdale	ML8271	
	Motorola	MC936				930		ML951	Lansdale	ML851		RL8274	Signetics	N8274	
	National	DM936				9930				ML852		RL8280	Lansdale	ML8280	
		936		ML9300	Lansdale	ML54195 (3514)			Motorola	MC851			National	DM74176	
		9936				ML8300				MC852				DM8280	
ML841	Lansdale	ML941			National	9300				MC951				96176	
	Motorola	MC941			TI	SN54195				9951		RL8285	Signetics	74176	
	National	9941				ML8301		ML952	National	MC952			TI	SN74176	
ML844	Lansdale	ML944			Lansdale	RL8252			Motorola	9099		RL8290	Lansdale	ML74196 (3514)	
	Motorola	MC944				SL8252				ML853				ML8290	
	National	DM944				DM8301				MC853			National	DM74196	
		944			National	DM9301				MC953				DM8290	
		9944				9031		ML953	Lansdale	DM9093				74196	
ML845	Lansdale	ML945				9301			Motorola	9093				SN74196	
	Motorola	MC945				S8252				ML855		RL8291	Signetics	ML74197 (3514)	
	National	DM945			Signetics	ML8304				MC855			TI	ML8291	
		945		ML9304	Lansdale					MC955					
		9945		ML9306	SGS-Thomson	993C06		ML955	Lansdale	DM9097					
		9945				ML8308			Motorola	9097					
ML846	Lansdale	ML946				9308									
	Motorola	MC946		ML9308	Lansdale	SN74116			National						
	National	DM946				(Continued)									(Continued)

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Lansdale Semiconductor (Cont'd)				SL8471	Lansdale	SL8270		*SR16K8	Intel	81C28		*SR64E4	SGS-Thomson	(Cont'd)	
RL8291	National	DM74197	(Cont'd)	*7449	Motorola	SN54LS12			LogicDev	L76116			IMS1624		
		DM8291			TI	SN54LS12			Maxim	DG506A		*SR64E4	Sony	T54LS152	
		74197			Lansdale	ML7449			MicronTech	MT51C1608			CKX5465P		
SL54H00	Lansdale	ML3100	(3514)	Lattice				*SR16K8	Motorola	MCM2018A			TCS5417		
SL54H01	Lansdale	ML54H00	(3514)	*F1600	Cypress	CY7C187			Performance	P4C116		*SR64KX4	Vitellic	V61C62	
SL54H10	Lansdale	ML3104	(3514)		EDI	ED18164			Saratoga	SSM6116			VLSI Tech	VT65K54	
SL54H11	Lansdale	ML54H01	(3514)		IDT	IDT7187			Sony	CKX5814P		*SR64KX4	LogicDev	L7C164	
SL54H20	Lansdale	ML3105	(3514)	*F1600	LogicDev	MT5C6401			Toshiba	TC2018			Toshiba	TCC55417	
SL54H30	Lansdale	ML54H10	(3514)		MicronTech	MT5C6401			UMC	UM6116-35 (3688)		*SR64KX4	Vitellic	TC55417	
SL54H40	Lansdale	ML3106	(3514)		Mosel	MS6287		*SR256K1	Vitellic	V16C16		*SR64KX4	Cypress	V61C62	
SL54H52	Lansdale	ML54H11	(3514)		Motorola	MCM6187			VLSI Tech	VT20C19		*SR64K1	EDI	CY7C187	
SL54H53	Lansdale	ML3110	(3514)	*F1600	Motorola	MCM6287			Cypress	CY7C197			IDT	ED18164	
SL54H72	Lansdale	ML3116	(3514)		National	F1600		*SR256K1	Dense-Pac	DP592256		*SR64K1	IDT	IDT7187	
SL54H73	Lansdale	ML54H30	(3514)		F1602	F1602			Fujitsu	MB81C81A			IDT7187L		
SL54H74	Lansdale	ML54H40	(3514)	*F1600	NEC	μPD4361		*SR256K1	Hitachi	MB82B81		*SR64K1	LogicDev	L7C187	
SL5401	Lansdale	ML3125	(3514)		Performance	P4C187				HM6207			MicronTech	MT5C6401	
SL5402	National	DM5401	(3514)		SGS-Thomson	IMS1600		*SR256K1	IDT	HM6707			Mosel	MS6287	
SL5409	Lansdale	DM5402	(3514)			IMS1601			LogicDev	IDT71257		*SR64K1	Motorola	MCM6187	
SL54100	Lansdale	DM5409	(3514)	GAL16V8-25QJ	National	GAL16V8-25QV			MicronTech	IDT71257L				MCM6287	
SL54182	National	SN5409	(3514)		SGS-Thomson	GAL16V8-25QC1		*SR256K1	Mitsubishi	IDT71257S		*SR64K1	NEC	F1602	
SL54198	Lansdale	DM54182	(3514)	GAL16V8A	AMD	PAL10H8			Motorola	L7C197			Performance	μPD4361	
SL5453	Lansdale	DM5453	(3514)		Lattice	PAL18V10			NEC	MT5C2561		*SR64K1	SGS-Thomson	IMS1600	
SL5470	Lansdale	DM5470	(3514)			GAL18V10			Performance	M5M5257			Toshiba	IMS1601	
SL5472	Lansdale	DM5472	(3514)		National	GAL16V8A			Motorola	MCM6207		*SR64K4	Cypress	TC5561	
SL74H106	Dense-Pac	DPS7M464	(3514)			LH0034			Samsung	MCM6207			Fujitsu	TC5562	
SL8T14	National	DS55122	(3514)	ISPGAL16Z8	Signetics	PAL16A4		*SR256K4	SGS-Thomson	IMS1800		*SR64K4	Hitachi	MB81C74	
SL8T24	Signetics	DS75124	(3514)			PLC153			Sharp	LH52251			IDT	MB82B74	
SL8T26	Motorola	SN75124	(3514)	*L1016		PLHS18P8			Fujitsu	MB81C84A		*SR64K4	Hitachi	HM6288	
*SL8T28	Motorola	MC6880A	(3514)			PLS153		*SR256K4	IDT	IDT71258S			IDT	HM6788	
SL8T96	National	MC8T26	(3514)			PLS153			LogicDev	L7C194		*SR64K4	Mitsubishi	DP59264	
SL8200	Lansdale	N8T26	(3514)	GAL20V8A		PLS153			OKI	MSM52464			Motorola	IDT7188	
SL8201	Lansdale	DM7096	(3514)	GAL6001	National	GAL20V8A			Performance	P4C1258		*SR64K4	NEC	M5M5188	
SL8224	National	SN54366A	(3514)		SGS-Thomson	GAL39V18			S-MOS	SRM21256			Motorola	MCM6188	
SL8230	Motorola	MC8278	(3514)			GAL39V18			Samsung	KM64257		*SR64K4	NEC	MCM6288	
SL8231	Motorola	DM7096	(3514)			GAL39V18			Sharp	LH52252			Performance	μPD4362	
SL8241	Motorola	SN54366A	(3514)	*L1016		GAL16Z8			Cypress	CY7C198			Saratoga	P4C188	
SL8250	National	MC8278	(3514)			AM29C516A		SR256K8	Dense-Pac	CY7C199			SGS-Thomson	SSM7188	
SL8252	Lansdale	DM7096	(3514)	*L1016	AMD	ADSP1016				DP592256		*SR64K8	Toshiba	IMS1620	
SL8266	Signetics	SN54366A	(3514)			AD			EDI	DP592256L			VLSI Tech	TC55416	
SL8270	Motorola	MC8278	(3514)			CY7C516			Fujitsu	ED18833C		*SR64K8	Cypress	VT6288	
SL8288	Lansdale	DM7096	(3514)			HMU16			Hitachi	MB8298				CY7C182	
		SN54366A	(3514)	*L1016		LMU16			IDT	HM62832		*SR64K8	EDI	CY7C185	
		MC8278	(3514)			LMU216			Motorola	IDT71256			Fujitsu	CY7C186	
		DM7096	(3514)			LMU217			NEC	MCM6206			Harris	ED18808	
		SN54366A	(3514)	*L1016	Weitek	WTL1016			SGS-Thomson	μPD43256A			IDT	MB82B79	
		MC8278	(3514)			WTL1516			IMS1830			*SR64K8	DPS9264		
		DM7096	(3514)			WTL1516			MX48230				IDT7164		
		SN54366A	(3514)	*L1017		WTL2516			CKX58255			*SR64K8	IDT7164S		
		MC8278	(3514)			ADSP1017			TC55328				MicronTech	MT5C6408	
		DM7096	(3514)			AD		*SR4K4	V62832				Mitsubishi	M5M5179	
		SN54366A	(3514)			CY7C517			AM99C6404			*SR64K8	Mosel	MS6264	
		MC8278	(3514)			HMU17			CY7C164				Motorola	MCM6264	
		DM7096	(3514)			LMU17			DP58M464			*SR64K8	National	MCM6265	
		SN54366A	(3514)			LMU217			DPS8M464				NEC	NMC6164	
		MC8278	(3514)	*L1017	Weitek	WTL2517			EDI	ED18416			Performance	μPD4364	
		DM7096	(3514)			WTL2517			Hitachi	HN6288			SGS-Thomson	P4C164	
		SN54366A	(3514)	*SR16K4	Cypress	CY7C168A			IDT	IDT6198				IMS1630	
		MC8278	(3514)		Hitachi	HM6268				IDT7188L			Sony	CKX5863	
		DM7096	(3514)		IDT	IDT6168		*SR4K4	Intel	M51C98			Toshiba	TMM2088P	
		SN54366A	(3514)			IDT6168A			LogicDev	L7C164			UMC	UM6164	
		MC8278	(3514)			MSM2168				L7C166			Vitellic	V63C64P	
		DM7096	(3514)	*SR16K4	Mitsubishi	MCM6268				MT5C6404			VLSI Tech	VT20C98	
		SN54366A	(3514)		Motorola	MCM6268		*SR4K4	MicronTech	MCM6289		*256K8	Catalyst	CAT71C256	
		MC8278	(3514)		NEC	μPD4314C			Motorola	F100181			Semi	CAT71C256L	
		DM7096	(3514)		Performance	P4C168			National	1621		*256K8	Cypress	CY7C197	
		SN54366A	(3514)		SGS-Thomson	MK41H68				SRM2274			Dense-Pac	DP592256	
		MC8278	(3514)			CKX5416		*SR4K4	S-MOS	TC55417				DP592256L	
		DM7096	(3514)			CKX5416D			Toshiba	CT64KS4		*256K8	GoldStar	GM76C256	
		SN54366A	(3514)	*SR16K4	UMC	UM6128-35			VLSI Tech	CY7B166			Hitachi	HM61256	
		MC8278	(3514)		Vitellic	V61C68		*SR64E4	Cypress	CY7C166				HM62256	
		DM7096	(3514)		VLSI Tech	VL20C68			Fujitsu	MB82B75				HM64456	
		SN54366A	(3514)			VT20C68		*SR64E4	Hitachi	HM6789P				HY62C256	
		MC8278	(3514)			VT20C69			IDT	IDT6198		*256K8	Hyundai	HY63C256	
		DM7096	(3514)	*SR16K8	AD	ADG506A	(3237)		LogicDev	L7C164				HY63C256L	
		SN54366A	(3514)		Cypress	CY6116				L7C165				S32K8	
		MC8278	(3514)		EDI	ED18802		*SR64E4	Mitsubishi	M5M5189			Inova	IDT7M856S	
		DM7096	(3514)		Harris	DG506A				M5M5189AP			IDT	IDT71256L	
		SN54366A	(3514)			HM6516				MCM6290				IDT71256S	
		MC8278	(3514)	*SR16K8	Hitachi	HM65162				54LS152				IDT8M824	
		DM7096	(3514)			HM6716		*SR64E4	Motorola	P4C190		*256K8	LogicDev	L7C199	
		SN54366A	(3514)		IDT	HM6719			National	SRM2275			MicronTech	MT5C2568	
		MC8278	(3514)			IDT6116			NEC	SSM7166			Mitsubishi	M5M5256	
		DM7096	(3514)	*SR16K8		IDT6116A			Performance					(Continued)	
		SN54366A	(3514)			IDT6116L			S-MOS						
		MC8278	(3514)			IDT6116S			Saratoga						

* Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Lattice (Cont'd)				LS5010 TeledyneS TSC8069 (Cont'd)				LF155 SGS-Thomson LF155 (Cont'd)				LM108A Harris LM108A (Cont'd)			
• 256K8	Mosel	MS62256	(Cont'd)	LS508A	TI	TSC9491	(3237)	LF155A	TI	LF353		LM11	Motorola	LM108A	
	Motorola	MCM60256A			Burr-Brown	ADG508A		LF156	National	LF411		LM111	National	LM108A	
	NEC	NM44251			Datel	HI508A	(3360)		AD	PM155A		LM117	Raytheon	LM108A	
	OKI	μPD43256B			Harris	MPC8S				LF155A		LM119	SGS-Thomson	LM108A	
		MSM51257JS				MX808				AD544			TI	LM108A	
		MSM51257LRS				DG508A				OP16			Motorola	LM108A	
		MSM51257RJ				HI508A				OP43			Motorola	LM11	
		MSM51257RS				IH5108				PM156			National	LM11	
• 256K8	Performance	P4C1256				IH6108				PM156A			Motorola	LM111	
	S-MOS	SRM20256			Maxim	DG508A				OPA156A	(3329, 3331)		National	μA111	
		SRM20256C				HI508A				HA5170				LM111	
		SRM2257				MAX358				HA5180			SiliconG	SG111	(3643)
• 256K8	Samsung	KM62256			MicroPwr	MP7508DI				LF156A			Motorola	LM117	
		KM68257			Siliconix	DG508A				LF156			National	μA117	
• 256K8	Sharp	LH52256		LS830	MicroPwr	MP830			LinearTech	LF156A				LM117	
		LH52259		LS831	MicroPwr	MP831			National	LF156A				LM117	
• 256K8	Sony	CXK58256		LS832	MicroPwr	MP832				OPA101			SiliconG	SG117	(3642)
	Toshiba	TC55257		LS833	MicroPwr	MP833			SGS-Thomson	LF156			TI	TL117	
		TC55257A		LS840	MicroPwr	MP840				AD544			Unitrode	UC117	
• 256K8	UMC	UM62256A		LS841	MicroPwr	MP841		LF156A	AD	OP16		LM119	AD	PM119	
				LS842	MicroPwr	MP842				OP43			LinearTech	LT119	
				LS843	MicroPwr	MP843				PM156			National	LM119	
				LS844	MicroPwr	MP844				PM156A			Signetics	LM119	
				LS845	MicroPwr	MP845				OPA156A	(3329, 3331)		LinearTech	LT123	
				OP05	AD	AD510	(3245)		Burr-Brown	HA5170		LM123	Motorola	LM123	
					LinearTech	OP05				HA5180			National	μA138	
					MicroPwr	MPOP05			Harris	LF156			SiliconG	LM123	
				OP07	AD	OP07			LinearTech	LF156		LM129	National	SG123	
				OP27	AD	ADOP27			National	LF156A		LM134	National	LM129	
						AD510				OPA101		LM136	National	LM134	
						OP77			SGS-Thomson	LF156		LM137	LinearTech	LM136	
					Burr-Brown	OPA27				SMP10			Motorola	LM137	
					LinearTech	LT1007		LF198	AD	LF198			National	LM137	
						OP27			National	LF198			SiliconG	SG137	(3642)
					Maxim	OP27		LF355	Signetics	OP15		LM138	Unitrode	UC137	
					MicroPwr	MPOP27			AD	OP43			Lambda	LLM138	
					Motorola	OP27				LF355			Micropac	MLM138	
					Raytheon	OP27			Motorola	LF355			National	LM138	
					TI	OP27			National	LF355			Lambda	LLM150	
				OP37	AD	ADOP37			SGS-Thomson	LF355		LM150	LinearTech	LT150	
						OP37				PM355A			Motorola	LM150	
					Burr-Brown	OPA37		LF355A	AD	LF355A			National	LM150	
					Harris	HA5137			National	OP16			SiliconG	SG150	(3642)
						HA5147		LF356	AD	LF356			Unitrode	UC150	
					LinearTech	LT1037			Motorola	LF356		LM185	Maxim	ICL8069	
						OP37			National	LF356			MicroPwr	MP5010	
					Maxim	OP37			SGS-Thomson	LF356			National	LM185	
					MicroPwr	MPOP37				OP16			TeledyneS	TSC04	
					Motorola	OP37		LF356A	AD	PM356A				TSC05	
					Raytheon	OP37			Burr-Brown	OPA356A	(3329)	LM185-2.5	TI	LM185-2.5	
					TI	OP37			National	LF356A		LM199	National	LM199	
				U401	Siliconix	U401		LF398	National	LF398		LM199A	National	LM199A	
				U402	Siliconix	U402				LM298		LM234	National	LM234	
				U403	Siliconix	U403			Signetics	LF398		LM301	AD	AD301	
				U404	Siliconix	U404				NE5537			Harris	CA0301A	
				U421	Siliconix	U421			TI	LF398				LM301	
				U422	Siliconix	U422			AD	PM2108			LinearTech	LM301A	
				2N5905	MicroPwr	2N5905		LH2108	National	LM2108			Motorola	LM301	
				2N5906	MicroPwr	2N5906		LM10	Gennum	GC810	(3430)		National	μA301	
				2N5907	MicroPwr	2N5907			MCE	MCELM10				μA301A	
				2N5908	MicroPwr	2N5908			National	LM10				LM301	
				2N5911	MicroPwr	2N5911			AD	OP77				LM301A	
				2N5912	Siliconix	2N5912		LM101		OP77			NEC	LM301A	
				2N5912C	Siliconix	2N5912			Motorola	LM101			Samsung	μPC301	
					MicroPwr	2N5912C			National	μA101			SGS-Thomson	KA301	
									Raytheon	LM101A				LM301	
									SiliconG	SG101				LM301A	
									National	LM101A			SiliconG	SG301	
									AD	OP02			TI	μA301	
										OP77				LM301	
									National	LM107				LM301A	
									SiliconG	SG107	(3643)	LM301A	AD	AD301	
									AD	AD108				OP77	
										AD705			Harris	CA0301A	
										OP97				LM301	
					Burr-Brown	OPA606				PM1008			LinearTech	LM301	
					LinearTech	LT1022				PM108			Motorola	LM301	
						LT1055				LT1097			National	μA301	
						LT1056			LinearTech	LM108				μA301A	
						OP15			Motorola	μA108				LM301	
						LF155			National	μA208				LM301A	
						LF353				LM108				LM301A	
						LF411				RC4097			NEC	μPC301	
						LM110			Raytheon	SSI32R108			Samsung	KA301	
						LM210			SiliconSys	AD108A			SGS-Thomson	LM301	
						LM310			AD	PM108A				LM301A	

• Discontinued

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ALT. SOURCE DIRECTORY

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
Linear Technology Corp. (Cont'd)				LT1526	Signetics SiliconG	SG3526 SG1526 SG1526B SG3526 (3642) (3642) (3642)	(Cont'd)	LT350	National	µA350 LM350 LM350 SG350 (3642)	(Cont'd)	OP15	Burr-Brown LinearTech	OPA606 LF155 LT1022 LT1055 LT1056 LF155 LF353 LF411 LM110 LM210 LM310	(Cont'd)	
LT1060	Exar Maxim MicroLinear	XR1010 MF10 ML2110			Unitrode	UC1526 UC1526A LT1527A		LT3524	NEC SiliconG Unitrode Cherry Semi	CS3524 UC350 CS3524 XR3524			National	LF155 LF353 LF411 LM110 LM210 LM310		
LT1070	Sierra Cherry Semi	SC11122 CS1070		LT1527	LinearTech	SG1527 SG1527A			Exar Harris National	XR3524 CA3524 LM3524			SGS-Thomson	SG3524 SG3524 SG3524C		
LT1078	TI	TL1070 TLC1078			Motorola	SG1527A			SGS-Thomson	SG3524 SG3524 SG3524C		OP16	AD	OP16 MPOP16		
LT108	Dallas	DS1228 DS232 ICL232			SiliconG	SG1527A (3642)		LT3524	Signetics	SG3524 SG3524C		OP215	MicroPwr AnalogSys	MA336 CA3240		
	Harris	MAX232			TeledyneS	TSC15C27A			SiliconG	SG3524 SG3524B (3642) (3642)			TI	LF155 LF353 LF411		
	LinearTech	LT1081		LT1527A	Unitrode	UC1527 UC1527A			Unitrode	UC3524 UC3524A			AD	OP16 MPOP16		
	Maxim	MAX232			LinearTech	LT1527 SG1527		LT3524	Ericsson	UC3524 UC3524A			MicroPwr AnalogSys	MA336 CA3240		
LT1081	Sipex-HSD	SP232			Motorola	SG1527A		LT3525	Exar	XR3525A			Harris	ICL8043		
	TeledyneS	TSC232			SGS-Thomson	SG1527A			LinearTech	SG3525			Motorola	MC34002 MC34072		
	Dallas	DS1228 DS232 ICL232			SiliconG	SG1527A (3642)			Motorola	SG3525A			National	µA772		
	Harris	LT108			TeledyneS	TSC15C27A			SGS-Thomson	SG3525A			SGS-Thomson	TL072		
	LinearTech	MAX232			TI	TL1527			SiliconG	SG3525A (3642)			TI	TL082C		
	Maxim	SP232		LT1842	Unitrode	UC1527 UC1527A			TeledyneS	TSC35C25A			Toshiba	TA75072 TA75074		
	Sipex-HSD	SP232			Motorola	UC1842A		LT3525A	TI	SG3525 UC3525		OP227	AD	OP227 MPOP227		
	TeledyneS	TSC232			SiliconG	SG1842 (3642)			Unitrode	UC3525 UC3525A			MicroPwr	TI	OP227	
	TI	LT1084			Unitrode	UC1842			Ericsson	RL3525A XR3525A		OP27	AD	ADOP27 AD510 AD517 OP77		
LT1084	AD	AD108		LT1843	Motorola	UC1843A		LT3525A	Exar	XR3525A			AD	ADOP27 AD510 AD517 OP77		
LT1097		AD705			SiliconG	SG1842 (3642)			LinearTech	LT3525 SG3525			AD	ADOP27 AD510 AD517 OP77		
		OP97		LT2524	Unitrode	UC1843A			Motorola	SG3525A				Burr-Brown OPA27		
		PM1008			Exar	XR2524			SGS-Thomson	SG3525A			Lin Int Sys	OP27		
		PM108			LinearTech	SG2524			SiliconG	SG3525A (3642)			LinearTech	LT1007		
	LinearTech	LM108			National	µA2524			TeledyneS	TSC35C25A			Maxim	OP27		
	Motorola	µA108			SGS-Thomson	LM2524			TI	SG3525			MicroPwr	MPOP27		
	National	µA208			Signetics	SG2524		LT3526	Unitrode	UC3525A		OP37	AD	ADOP37 OP37		
	Raytheon	RC4097			SiliconG	SG2524 SG2524B (3642) (3642)			SGS-Thomson	SG3526 SG3526			TI	OP27		
LT117A	SiliconSys	SSI32R108			TI	SG2524		LT3527	Exar	XR3527A			Burr-Brown	OPA37		
	Motorola	LM117A			Unitrode	UC2524			LinearTech	SG3527			Harris	HA5137 HA5147		
	National	LM117A			SGS-Thomson	UC2524A			Motorola	SG3527A			Lin Int Sys	OP37		
	SiliconG	SG117A (3642)			Exar	XR2525A			SGS-Thomson	SG3527A			LinearTech	LT1037		
LT119	AD	PM119			Harris	HA2525			SiliconG	SG3527A (3642)			Maxim	OP37		
	LinearTech	LM119			Motorola	SG2525A			TeledyneS	TSC35C27A			MicroPwr	MPOP37		
	National	LM119			SGS-Thomson	SG2525A			TI	SG3527			Motorola	OP37		
	Signetics	LM119			SGS-Thomson	SG2525A			Unitrode	UC3526 UC3626		REF01	AD	ADREF01 REF01AZ REF02 (3238) (3238)		
LT123	LinearTech	LM123			TI	SG2524			Exar	XR3527A			LinearTech	LT1019-10		
	Motorola	LM123			Unitrode	UC2524			LinearTech	SG3527			Maxim	REF01		
	National	µA123			Exar	XR2525A			SGS-Thomson	SG3527A			MicroPwr	MPREF01		
		µA138			Harris	HA2525			Motorola	SG3527A			Motorola	MP5531		
		LM123			Motorola	SG2525A			SGS-Thomson	SG3527A				MC1400AG10 MC1400AU10		
		SH123			SGS-Thomson	SG2525A			SiliconG	SG3527A (3642)			Raytheon	MC1504		
	SiliconG	SG123			SGS-Thomson	SG2525A			TeledyneS	TSC35C27A			TeledyneS	REF01		
LT137	LinearTech	LM137			SiliconG	SG2525A (3642)			SGS-Thomson	SG3527A				TSC9495 TSC9496		
	Motorola	LM137			SGS-Thomson	SG2525A			SGS-Thomson	SG3527A			Thaler	VRE100		
	National	LM137			SiliconG	SG2525A (3642)			TeledyneS	TSC35C27A			AD	ADREF01		
	SiliconG	SG137 (3642)			Sipex-HSD	SP2525			TI	SG3527				REF01AZ REF02 (3238) (3238)		
	Unitrode	UC137			TeledyneS	TSC25C25A		LT3527A	Unitrode	UC3527A				LinearTech	LT1019-10	
LT138	SiliconG	SG138 (3642)			TI	SG2525A			AMD	AM6685 AM685			Maxim	REF01		
LT150	Lambda	LLM150			Unitrode	TL2525			AD	AD9685			MicroPwr	MPREF01		
	LinearTech	LM150			Motorola	UC2525A			Honeywell	HCMP96850			Motorola	MC1400AG10 MC1400AU10		
	Motorola	LM150			SGS-Thomson	SG2526			Motorola	MCM93415				MC1504		
	National	LM150			SGS-Thomson	SG2526 (3642)			National	93415			Raytheon	REF01		
	SiliconG	SG150 (3642)			SGS-Thomson	SG2526			Plessey	SP9683			TeledyneS	TSC9495 TSC9496		
	Unitrode	UC150			SGS-Thomson	SG2526			Signal Proc	HCMP96850				VRE100		
LT1524	Exar	XR1524			SGS-Thomson	SG2526			Maxim	ICL7660				ADREF01		
	LinearTech	SG1524			SGS-Thomson	SG2526				MAX7660				REF01AZ REF02 (3238) (3238)		
	National	µA1524			SGS-Thomson	SG2526			National	LMC7660				LinearTech	LT1019-10	
	SGS-Thomson	LM1524			SGS-Thomson	SG2526			Siliconix	SI7660			Maxim	REF01		
		SG1524			SGS-Thomson	SG2526			Harris	ICL7663S			MicroPwr	MPREF01		
	SiliconG	SG1524B (3642)			SGS-Thomson	SG2526			Maxim	MAX7663			Motorola	MP5531		
	Unitrode	UC1524			SGS-Thomson	SG2526			Harris	ICL7665				Motorola	MC1400AG10 MC1400AU10	
		UC1524A			SGS-Thomson	SG2526			Maxim	MAX7665					MC1504	
LT1525	Exar	XR1525A			SGS-Thomson	SG2526			AD	AD510				Raytheon	REF01	
	LinearTech	LT1525A			SGS-Thomson	SG2526			OP05	OP05 (3245)				TeledyneS	TSC9495 TSC9496	
	Motorola	SG1525A			SGS-Thomson	SG2526			Lin Int Sys	OP05				VRE100		
	SiliconG	SG1525A (3642)			SGS-Thomson	SG2526			MicroPwr	MPOP05				ADREF01		
	TeledyneS	TSC15C25A			SGS-Thomson	SG2526			AD	OP77				REF01AZ REF02 (3238) (3238)		
	TI	TL1525			SGS-Thomson	SG2526			National	µA714				LinearTech	LT1019-10	
	Unitrode	UC1525			SGS-Thomson	SG2526			TI	OP07			Maxim	REF01		
		UC1525A			SGS-Thomson	SG2526			AD	AD381			MicroPwr	MPREF01		
LT1525A	Exar	XR1525A			SGS-Thomson	SG2526			OP15	AD544				Motorola	MC1400AG10 MC1400AU10	
	LinearTech	LT1525A			SGS-Thomson	SG2526				OP15					MC1504	
	Motorola	SG1525A			SGS-Thomson	SG2526				OP43				Raytheon	REF01	
	SiliconG	SG1525A (3642)			SGS-Thomson	SG2526				PM155				TeledyneS	REF01	
	TeledyneS	TSC15C25A			SGS-Thomson	SG2526								TSC9495 TSC9496		
	TI	TL1525			SGS-Thomson	SG2526								VRE100		
	Unitrode	UC1525			SGS-Thomson	SG2526								ADREF01		
		UC1525A			SGS-Thomson	SG2526								REF01EZ (3238) (Continued)		
LT1526	Motorola	SG1526			SGS-Thomson	SG2526								Motorola	MC1400AU10	
		SG3526			SGS-Thomson	SG2526									(Continued)	

* Discontinued

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ALT COURSE DIRECTORY

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Maxim (Cont'd)				ICM7212	Harris	ICM7212		IH6208	AD	ADG509A (3237)		MAX331	National	LF11201	(Cont'd)
ICL7106	Harris	ICL7106			LogicDev	LMU12			Burr-Brown	MUX24				LF13201	
	TeledyneS	TSC7106		ICM7217	Harris	TSC7212			Fujitsu	H1509A			Siliconix	DG201A	
	UMC	UM7106				HMU17			Harris	MB5208			TeledyneS	TSC4201	
ICL7107	Harris	ICL7107			LogicDev	ICM7217				DG509A		MAX332	AD	SW02	
	TeledyneS	TSC7107				LMU17				H1509A				SW202	
ICL7109	Datel	ADC7109		ICM7218	Harris	ICM7218			Maxim	IH5208			Siliconix	DG202	
	Harris	ICL7109				ICM7228				IH6208				TSC4201	
	Siliconix	TSC7109A		ICM7224	Harris	ICM7224				DG509A		MAX358	AD	ADG508A (3237)	
	TeledyneS	TSC7109		ICM7225	Universal	USC1841			Siliconix	MAX359			Burr-Brown	H1508A	
ICL7116	Harris	ICL7116		ICM7240	Exar	XR2240		IH6216	AD	ADG507A (3237)				MPC8S	(3360)
	TeledyneS	TSC7116		ICM7242	Exar	XR2242			Burr-Brown	HI507A			Datel	MX808	
ICL7117	Harris	ICL7117		ICM7555	Exar	XRL555				MPC8D (3344)			Harris	DG508A	
ICL7126	Harris	ICL7126			Harris	ICM7555M			Harris	DG507A				H1508A	
	Samsung	KS7126				ICM7555M				HI507A				IH5108	
	TeledyneS	TSC7126			Holt	HI7555			Maxim	DG507A				IH6108	
ICL7129A	Harris	ICL7129			National	LMC555			Siliconix	DG507A			Lin Int Sys	LS508A	
	Maxim	MAX7129		ICM7556	AdvLinear	ALD2502		LH0033	AD	ADLH0033			Maxim	DG508A	
	TeledyneS	TSC7129				ALD2504				HOS100				MP7508DI	
ICL7135	Harris	ICL7135			Harris	ICM7556			Burr-Brown	OPA633		MAX359	MicroPwr	DG508A	
	Siliconix	SI7135				ICM7556M			Elantec	EHOS100			Siliconix	DG508A	(3237)
	TeledyneS	TSC7135			Motorola	TLC552C				ELH0033			AD	ADG509A	
	TI	ICL7135C			TI	TLC552M				ELH2004				MUX24	
ICL7136	Harris	ICL7136				TLC556				EL2005			Burr-Brown	HI509A	
	Intel	ICL7136				TLC556C				EL2004			Fujitsu	MB5208	
	TeledyneS	TSC7136				TLC556M				EL2003			Harris	DG509A	
ICL7137	Harris	ICL7137				DG5040				EL2001				HI509A	
ICL7611	Harris	ICL7611		IH5040	Siliconix	DG5040				EL2031				IH5208	
ICL7612	Harris	ICL7612		IH5041	Siliconix	DG5041				EL2033			Maxim	DG509A	
ICL7621	AMD	AM27S13		IH5042	Harris	DG188			Harris	HA5033				HI509A	
	Harris	ICL7621			Siliconix	DG188			Maxim	MAX460				IH6208	
	Lansdale	HL7621				DG5042				MAX460				DG509A	
	MicroPwr	MP7621		IH5043	Harris	DG191			MicroPwr	MP0033			Siliconix	DG509A	
	National	DM74S571				IH5043				MP0033C		MAX368	Harris	HI508	
		DM74S571A			Siliconix	DG191				MP2004			MicroPwr	MP7508DI	
						DG5043			National	LH0033		MAX369	Harris	HI509	
	Signetics	N82S131				DG5044				LH4001			MicroPwr	MP7509DI	
ICL7622	MicroPwr	MP7622		IH5044	Siliconix	DG5044				LM6121		MAX400	AMD	AM6070	
	Siliconix	MP7622		IH5045	Harris	DG185				LM6321			AD	AD707	(3245)
	Sipex-HSD	HS3120			Siliconix	DG185			TeledyneS	TP1359				DAC86	
ICL7642	Harris	ICL7642				DG5045			VTC	VA033	(3713)			OP177	
ICL7650	LinearTech	LTC1052		IH5047	Harris	HI047		LH0063	National	LH0063			National	LM607	
		LTC7652		IH5048	Harris	DG181		LH0101	Apex	PA02	(3325)		Raytheon	RC4077	
						HI381				PA07	(3325)		Raytheon	RC4193	
	National	LMC668				HI5048			Elantec	ELH0101		MAX4193	TeledyneS	TSC9420	
	Siliconix	SI7135				HI5048			National	LH0101		MAX421	TeledyneS	TSC9421	
		SI7652			Maxim	DG381A				LTC1062		MAX4391	Raytheon	RC4391	
	TeledyneS	TSC7652			Siliconix	DG381A			MicroLinear	LT1001		MAX452	AD	AD844	(3240, 3243)
ICL7652	Harris	ICL420				DG184		LTC1062	Raytheon	LT1001				AD846	(3240, 3243)
		ICL421		IH5049	Harris	HI384A		LT1001	TeledyneS	TSC810					
		ICL422				HI5149		MAX136	AD	AD7820					
		ICL423				DG384A		MAX150	Crystal	CS7820					
	LinearTech	LTC1052			Maxim	DG384A			Maxim	AD7820				OP160	
ICL7660	TI	LTC1052			Siliconix	DG384A			National	μA7820			Burr-Brown	HFA0005	
	LinearTech	LT7660			Harris	DG187			Samsung	KAD0820				OPA620	(3332)
	Maxim	MAX7660				HI387			Siliconix	SI7820				3554AM	(3332)
	National	LMC7660				HI5050				μA7820				3554BM	(3332)
	Siliconix	SI7660				HI5150			TI	SN55182				3554SM	(3332)
ICL7662	Harris	ICL7662			Maxim	DG387A				TLC0820			Comlinear	CLC400	
	TeledyneS	TSC7662			Siliconix	DG387A		MAX160	AD	ADC908				CLC400AID	
ICL7667	Harris	ICL7667		IH5051	Harris	DG190				AD7574				CLC401	
	IXYS	IXLD1426				HI5051			Maxim	AD7574			Elantec	EHA5195	
		IXLD426				HI5151			MicroPwr	MP7574				ELA5195	
		IXLD4426			Siliconix	DG190		MAX161	AD	AD7581				EL2020	
	Maxim	TSC426			Harris	CD22212			Maxim	AD7581				EL2195	
	Micrel	MIC426				HI5040			MicroPwr	MP7581			Harris	HA5004	
	Motorola	MC33151				HI5140		MAX230	Sipex-HSD	SP230				HA5195	
		MC34151			Motorola	MS140		MAX232	Dallas	DS1228				HFA0001	
		MMH0026			SiliconSys	SSI73K272				DS232			National	LM6161	
	National	DS0026			Siliconix	DG5140				ICL232			Sipex-HSD	SP2542	
		NMH0026			Crystal	CS202			Harris	LT108			TeledyneS	TP1321	
	SiliconG	SG1626	(3643)		Harris	CD22202			LinearTech	LT1081				VA707	
	TeledyneS	TSC426			SiliconSys	SSI75T202	(3647)			SP232				VA708	
		TSC4426			Siliconix	DG5141			Sipex-HSD	TSC232		MAX460	AD	ADLH0033	
ICL8069	AD	AD589				HI5142		MAX233	Sipex-HSD	SP233				HOS100	
	Harris	ICL8069				DG5142			TeledyneS	TSC233			Burr-Brown	OPA633	
	Lin Int Sys	LS5010			Siliconix	HI5043			Sipex-HSD	SP234			Elantec	EHOS100	
	LinearTech	LT1004				HI5143		MAX234	Sipex-HSD	SP235				ELH0033	
	MicroPwr	MP5010				DG5143		MAX235	Sipex-HSD	SP236				ELH2004	
	National	LM113				CD22223		MAX236	Sipex-HSD	SP237				ELH2005	
		LM313				HI5044		MAX237	Sipex-HSD	SP238				EL2001	
	Plessey	ZN404				HI5144		MAX238	Sipex-HSD	SP239				EL2004	
		ZN423				DG5144		MAX239	Sipex-HSD	ADG201				EL2005	
	TeledyneS	TSC04			Siliconix	HI5045		MAX331	AD	SW201				EL2031	
		TSC05			Harris	HI5145				MB47201				EL2033	
		TSC8069				DG5145			Fujitsu	DG201				HA5033	
		TSC9491			Siliconix	HI5049			Harris	DG201A				LH0033	
	TI	LT1004				HI222				HI201				MAX460	
		CD7211				HI5141			Lin Int Sys	LS201				MP0033	
ICM7211	Harris	ICM7211				HI5341			Maxim	DG201A			MicroPwr	MP0033C	
		HLC07211				HI5352			MicroPwr	MP201				MP2004	
	Hughes	TSC7211													(Continued)

• Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Maxim (Cont'd)				MX7524	AD	AD7524 PM7524		TSC426	IXYS	IXLD426 IXLD4426 IXL7667	(Cont'd)	MCE565	National	µA565 LM565	(Cont'd)
MAX460	National	LH0033 LH4001 LM6121 LM6321 TP1359 VTC	(3713)	MX7530	MicroPwr Motorola TI	MP7524 MC7524 TLCT7524			Maxim Micrel Motorola	ICL7667 MIC426 MC33151 MC34151 MMH0026 DS0026 NMH0026		MCE566	AD	AD566 AD566A AD566 AD566A XRL567	
MAX543	TeledyneS	TP1359			MicroPwr	AD7530			National	DS0026		MCE567	Exar	XR2567 XR567	
MAX574	AD	VA033			National	MP7530			SiliconG	SG1626	(3643)		National	LM567 LM567C LM567L	
	Adv Analog	DAC8043		MX7531	Samsung	KA2923		TSC427	TeledyneS	TSC426 TSC4426 IXLD427 MIC427 TSC427			Samsung	IR3N05 NE567	
	AD	ADC574			Sanyo	LA7530N									
		ADC574A			Unitrode	PIC7530		TSC428		IXYS Micrel TeledyneS		MCE570	AD	AD570	
		AD574		MX7533	AD	AD8531						MCE571	AD	ADC910	
		574			Harris	AD7531		VFC32	AD	ADVFC32 VFC32	(3232) (3348)			AD571	
	Burr-Brown	ADC574A			MicroPwr	MP7531			Burr-Brown	MCEVFC32			National	µA571	
	Datel	ADC574Z			National	AD7533			MCE	ADVFC32			NEC	µPC571	
	Harris	HI574			Unitrode	MP7633			Plessey	ADVFC32			Signetics	NE571	
		HI574A			AD	AD7520							Adv Analog	ADC574 ADC574A	
	Honeywell	HADC574				AD7530							AD	AD574	
	MCE	MCE574				AD7533							Burr-Brown	574	
	MicroNet	MN574A	(3547)		Datel	PM7533							Datel	ADC574A	
	MicroPwr	MP574			Harris	DAC7533							Harris	ADC574Z	
		MP574A			MicroPwr	AD7533								HI574	
	Sipex-HSD	HS574				MP7633								HI574A	
		HS574A			National	AD7533								HADC574	
	TeledyneS	TP574A			Unitrode	PIC7533								MAX574	
MAX626	IXYS	IXLD4426		MX7541	Burr-Brown	DAC7541A								MN574A	(3547)
	Micrel	MIC4426			Datel	DAC7541								MicroPwr	
	TeledyneS	TSC4426			Harris	AD7541								MP574	
MAX627	Micrel	MIC4424			Signal Proc	HDAC7541								MP574A	
	SiliconG	SG1644	(3643)		Siliconix	SI7541A								HS574	
		SG2644	(3643)		Sipex-HSD	DAC331								HS574A	
		SG3644	(3643)	OP07	AD	AD517								TP574A	
MAX628	Micrel	MIC4420				OP77								TBA820	
		MIC4428			LinearTech	LT1001								SN76001	
MAX673	AD	AD586	(3238)			OP07									
MAX7129	Harris	ICL7129			National	µA714									
	Maxim	ICL7129A			Raytheon	OP07		MCEA20A	Exar	XRA100 XRM100					
	TeledyneS	TSC7129			TI	LT1001			MCE	MCEA20					
MAX7645	AD	PM7645		OP27	AD	OP07D ADOP27			Plessey	MOA MOM					
	MicroPwr	MP7645				AD510		MCEA20B	Exar	XR100					
MAX7660	LinearTech	LT7660				AD517			Plessey	MOB					
	Maxim	ICL7660				OP77		MCEA20C	Exar	XRC100A					
	National	LMC7660			Burr-Brown	OPA27			Plessey	MOC					
	Siliconix	SI7660			Lin Int Sys	OP27		MCEA20E	Cherry Semi	CS2000					
MAX7663	Harris	ICL7663S			LinearTech	LT1007			Exar	XRE100					
	LinearTech	LT7663				OP27			Plessey	MOE					
MAX7665	Harris	ICL7665				MP0P27		MCEA20F	Cherry Semi	CS3000					
	LinearTech	LT7665			MicroPwr	OP27			Exar	XRF100					
MAX8211	Harris	ICL8211			Motorola	OP27			Plessey	MCF					
MAX8212	AMD	AM93422AM			Raytheon	OP27				MOF					
		AM93422M			TI	OP27				MOG					
	Cypress	CY93422AM		OP37	AD	ADOP37				MOH					
		CY93422M				OP37				MOJ					
	Harris	ICL8212			Burr-Brown	OPA37				MOK					
	National	93422AM			Harris	HA5137				MOI					
		93422M				HA5147				MOJ					
	Performance	P4C422-15			Lin Int Sys	OP37				MOJ					
MF10	Vitesse	VS12G422TM			LinearTech	LT1037				MOJ					
	Exar	XR1010				OP37				MOJ					
	LinearTech	LT1060			MicroPwr	MP0P37				MOJ					
	MicroLinear	ML2110			Motorola	OP37				MOJ					
	Sierra	SC11122			Raytheon	OP37				MOJ					
MM74C945	National	MM74C945			TI	OP37				MOJ					
MM74C947	National	MM74C947			Burr-Brown	PGA100				MOJ					
MXM627	IXYS	IXLD4427		PGA100	AD	ADREF01				MOJ					
	Micrel	MIC4427		REF01		REF01AZ	(3238)	MCED15B	Exar	XR500					
	TeledyneS	TSC4427				REF02	(3238)	MCELM10	Gennum	GC810	(3430)				
MX7520	Harris	AD7520			LinearTech	LT1019-10			LinearTech	LM10					
	MicroPwr	MP7520				REF01			National	LM10					
	Motorola	MC7520				REF01A			Lambda	LLM117					
	National	AD7520				MPREF01			SGS-Thomson	LM117					
		DAC1020			MicroPwr	MP5531									
		DAC1021				MC1400AG10									
		DAC1022			Motorola	MC1400AU10									
		7520				MC1404									
	Samsung	KA2919				MC1504									
	Sanyo	LA7520N				REF01									
	Unitrode	PIC7520			Raytheon	REF01									
MX7521	Harris	AD7521			TeledyneS	TSC9495									
	MicroPwr	MP7521				TSC9496									
	Motorola	MC7521				VRE100									
	National	AD7521				ADREF02									
		DAC1222				REF02	(3238)								
		7521				REF02EZ	(3238)								
	Sipex-HSD	DAC331-12			LinearTech	LT1019-5									
MX7523	AD	AD7523				REF02									
	Datel	DAC7523				REF02E									
	Harris	AD7523				MPREF02									
	MicroPwr	MP7523				REF02									
	Motorola	MC7523			Raytheon	TSC9496									
	National	LM7523			TeledyneS	ICL7667									
	Unitrode	PIC7523			IXYS	IXLD1426									
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• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page		
Micro Linear (Cont'd)				DAC85V			(Cont'd)	MNDAC71	Burr-Brown		(Cont'd)	MN377	MicroNet	MN0300A MN376	(3548) (3548)		
ML510	AEG Corp	TDA2030			MicroNet	DAC85				DAC703							
	SGS-Thomson				National	DAC1285				DAC71							
		TDA2030			Sipex-HSD	DAC9356				DAC72				Sipex-HSD	HS9720		
ML510A	Cherry Semi	ML510A		DAKHK	Adv Analog	DACHK12			MicroNet	MN3290	(3549)		TeledyneS	TP4860			
	SiliconSys	SSI32R510A	(3645)		Datel	DACHK12			AD	ADDAC87		MN3860	AD	AD3860			
ML511	Cherry Semi	CS511		MNADC80	Burr-Brown	ADAC80	(3228)		Burr-Brown	DAC851			Sipex-HSD	HS3860			
		CS511R			Datel	ADC80				DAC87		MN5065	Harris	CA3065			
	Exar	XR511			Adv Analog	ADC84			Harris	HIDAC87V			Motorola	LSC1008			
	SiliconSys	SSI32R511	(3645)			ADC85			Sipex-HSD	DAC335			Samsung	KA2101			
ML541	National	FGC8000			AD	ADC87				HSDAC87		MN5101	Toshiba	TA7176			
ML8464	Dense-Pac	DPS88H08				ADADC84				SPDAC87			Harris	HA5101			
	Exar	XR8464				ADADC85	(3228)		MNADC88	Adv Analog	DAC88		Intel	5101			
	Fujitsu	MB88464				ADADC87	(3228)		MNHT0010	AD	HTS0010	(3235)		Mitsubishi	MSL5101		
		MB88464				AD5240			MNHT0025	AD	HTS0025	(3235)		Motorola	MCM145101		
		MB81C78A				ADC85S			MN0300A	Adv Analog	SH376				MCM145101		
		MB8464A			Burr-Brown	ADC84	(3346)			AD	HTC0300A	(3235)		National	MM74C920		
	GoldStar	GM76C88L				ADC85				Analogic	SHA2200			Panasonic	MS101		
	Harris	CDM6264				ADC87				Burr-Brown	SHC804	(3345)		Sharp	LH5101		
	Hitachi	HM6264			Datel	ADCHX				Datel	SHM45		MN5131	Sipex-HSD	HS5131		
		HM6264				ADCHX12B					SHM45M		MN5150	Sipex-HSD	HS5150		
		HM6464				ADCHZ				ILC-DDC	THA05203		MN5200	AD	AD5200	(3228)	
	Hyundai	HY6264				ADCHZ12B					THA05210		MN5201	AD	AD5201		
	IDT	DPS9264				ADCHZ12BGZ			MicroNet	MN376	(3548)		MN5202	AD	AD5202		
	Krueger	6264-100	(3513)		MicroNet	MNADC85					MN377		MN5203	AD	AD5203		
		6264-120	(3513)			MNADC87				Sipex-HSD	HS9720		MN5204	AD	AD5204		
		6264-150	(3513)			MN5240	(3547)			TeledyneS	TP4860		MN5205	AD	AD5205		
		6264LP-100	(3513)		Sipex-HSD	ADC581					4860		MN5206	AD	AD5206		
		6264LP-120	(3513)			ADC581B			MN0605	AD	HDG0605		MN5207	AD	AD5207		
		6264LP-150	(3513)			ADC85B			MN0805	Adv Analog	0805H		MN5210	Adv Analog	ADC5210		
						HSADC85				AD	HDG0805			AD	AD5210	(3228)	
						HSADC85C				Sipex-HSD	HS2020			Fujitsu	MB5210		
	Mitsubishi	AM99C88			TeledyneS	TP4189			MN2020	Sipex-HSD	HS3020		MN5211	Sipex-HSD	HS5210		
		MSM5178			Adv Analog	ADC84			MN3020	Sipex-HSD	ADAC71		MN5212	AD	AD5211		
	Motorola	MCM6064				ADC85			MN3290	Burr-Brown	DAC700			Adv Analog	ADC5212		
		MCM61L64				ADC87					DAC701		MN5213	AD	AD5213		
		MCM6164C				ADADC84					DAC702		MN5214	AD	AD5214		
	National	DP8464			AD	ADADC85	(3228)				DAC703			Sipex-HSD	MN5214		
	OKI	MSM5164				ADADC85S	(3228)				DAC71			TeledyneS	TP5214		
		MSM5165				ADADC87					DAC72		MN5215	AD	AD5215		
		MSM5188				ADC85S				MicroNet	MNDAC71		MN5216	Sipex-HSD	HS5216		
	S-MOS	SRM2064				AD5240			MN3349	Sipex-HSD	DAC349		MN5240	Adv Analog	ADC84		
		SRM2264			Burr-Brown	ADC84	(3346)				DAC9349				ADC85		
	Samsung	KM6264				ADC85				Adv Analog	SH347			AD	ADC87		
		KM6264A				ADC87			MN346	MicroNet	MN347	(3548)			ADADC84		
	Sharp	LH5164			Datel	ADCHX				Sipex-HSD	HS346				ADADC85	(3228)	
		LH5165				ADCHX12B				Adv Analog	SH347				ADADC85S	(3228)	
	Sony	CXK5164P				ADCHZ				MicroNet	MN346	(3548)			ADADC87		
		CXK5863P				ADCHZ12B				Sipex-HSD	HS346				ADC85S		
		CXK5864				ADCHZ12BGZ			MN370	AD	AD370				AD5240		
		CXK5865			MicroNet	MNADC84					AD371			Burr-Brown	ADC84	(3346)	
		CXK5865P				MNADC87				MicroNet	MN371	(3549)			ADC85		
	Toshiba	TC5563				MN5240	(3547)			Sipex-HSD	DAC346				ADC87		
		TC5565A	(3682)			ADC581					DAC347			Datel	ADCHX		
		TC5588				ADC581B					DAC356				ADCHX12B		
	UMC	UM6264A				ADC85B			MN371	AD	AD370				ADCHZ		
	Vitellic	V61C62				HSADC85				MicroNet	AD371				ADCHZ12B		
		V62C64				HSADC85C				Sipex-HSD	MN370	(3549)			ADCHZ12BGZ		
		V63C64				TP4189					DAC346			MicroNet	MNADC84		
	VLSI Tech	VT20C99			TeledyneS	ADC84					DAC347				MNADC85		
					Adv Analog	ADC85					DAC356				MNADC87		
						ADC87			MN374	AD	AD346	(3235)			ADC581		
						ADADC84					AD386	(3235)			ADC581B		
						ADADC85S	(3228)				AD389	(3235)			ADC85B		
						ADADC87			MN374	Analogic	SHA2410				HSADC85		
						ADC85S				Burr-Brown	SHC76	(3345)			HSADC85C		
						AD5240				Sipex-HSD	HS9714				TP4189		
						ADC84	(3346)				HS9716		MN5245	TeledyneS	ADC5245		
						ADC85					SH376		MN5246	Adv Analog	ADC5246		
						ADC87			MN376	Adv Analog	HTC0300A	(3235)			HS5250		
						ADC8X				AD	SHA2200		MN5250	Sipex-HSD	M5251		
						ADCHX				Analogic	SHC804	(3345)			Mitsubishi	MS251	
						ADCHX12B				Burr-Brown	SHM45				Sipex-HSD	HS5251	
						ADCHZ				Datel	SHM45M		MN5252	Sipex-HSD	HS5252		
						ADCHZ12B					SHM4860		MN5253	Sipex-HSD	HS5253		
						ADCHZ12BGZ				ILC-DDC	THA05203		MN5296	AD	AD1376	(3229)	
						MNADC84					THA05210				AD1380	(3226, 3229)	
						MNADC85					MN0300A	(3548)					
						MN5240	(3547)				MN377				AD376		
						ADC581				Sipex-HSD	HS9720			Analogic	ADC4300		
						ADC581B				TeledyneS	TP4860			Burr-Brown	ADC71		
						ADC85B					4860				ADC76		
						HSADC85					SH376				AD76		
						HSADC85C				Adv Analog	HTC0300A	(3235)			MM6290		
						TP4189				AD	SHA2200				HS9516		
						DACHK				Analogic	SHC804	(3345)			HS9576		
						DACHKB/883B				Burr-Brown	SHM45		MN5610	Adv Analog	ADC5610		
						ADDAC71				Datel	SHM45M		MN565A	AD	AD565A	(3219)	
						DAC700					SHM4860				H1565A		
						DAC701				ILC-DDC	THA05203				Maxim	AD565A	
						DAC702					THA05210				MCE565		

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IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Micro Power Systems (Cont'd)				Micro Power Systems (Cont'd)				Micro Power Systems (Cont'd)				Micro Power Systems (Cont'd)			
• MP157	Signetics TI	PLS157 LF351 LF353	(Cont'd)	MP302	Maxim Siliconix Lin Int Sys	DG302A DG302A DG303A	(Cont'd)	MP5532	Signetics TI	NE5532 NE5532A SE5532 SE5532A	(Cont'd)	MP6508	Fujitsu Harris	MB8401 HM6508 IM6508-1 6508	
• MP200	AD Harris	ADG200 DG200 HI200		• MP303	Maxim Siliconix AD	DG303A DG303A AD308		• MP562	AD Datel Harris	NE5532 AD562 DAC562 HI562A		• MP6508	National	MM74C929 NM2102 CY7C148 HA5114 HM6514	
• MP200	Siliconix Unitrode AD	DG200A PIC7513 ADLH0033 HOS100		• MP308	Motorola National	PM1008 PM1012 PM308 LM308 μA308 LM308		• MP571	AD Sipex-HSD AD	SP562 ADC910 AD571 AD573		• MP6514	Cypress Harris	MM74C929 NM2102 CY7C148 HA5114 HM6514	
MP2004	Burr-Brown Elantec	OPA633 EHOS100 ELH0033 ELH2004 ELH2005 EL2001 EL2004 EL2005 EL2031 EL2033		• MP308A	AD LinearTech Motorola National	AD308A LM308A LM308A μA308A LM308A		• MP571	MCE National NEC Signetics Adv Analog	MCE571 μA571 μPC571 NE571 ADC574		• MP6514	Intel Mitsubishi OKI S-MOS Sanyo Signetics Harris National	5114 M58981 MSM5114 SRM2114C LC3514 5114 HM6518 MM74C930 AD7501 MUX08 AD7501 Unitrode AD AD7502 TA7502 Unitrode PIC7502	
	Harris Maxim	HA5033 LH0033 MAX460 MAX460 MP0033 MP0033C LH0033 LH4001 LM6121 LM6321 TP1359		MP310 MP311	Lin Int Sys Lin Int Sys Motorola	LS310 LS311 LM114 LM114H MAT01AH MAT01GH MAT02AH MAT02EH		MP574	AD Burr-Brown Datel Harris	AD574 574 ADC574A ADC574Z HI574 HI574A		MP7501	Maxim Unitrode AD	MUX08 AD7501 Unitrode AD AD7502 TA7502 Unitrode PIC7502	
	MicroPwr National	TP1359 VTC ADG201 SW201 MB47201 DG201 DG201A HI201 LS201 DG201A MAX331 LF11201 LF13201 DG201A TSC4201 TSC4202		MP312	AD	LS312 LM114AH LM313 LM318 LM350 LM351 LM352 OP15 OP43			Honeywell Maxim MCE MicroNet MicroPwr Sipex-HSD	HADC574 MAX574 MCE574 MN574A MP574A HS574 HS574A TP574A ADC574 ADC574A AD574 574	(3547)	MP7503	Maxim Sipex-HSD Unitrode AD	MUX201 PIC7503 AD7506 MUX16 MV1606 MX1606	(3360)
MP201	TeledyneS VTC AD	ADG201 SW201 MB47201 DG201 DG201A HI201 LS201 DG201A MAX331 LF11201 LF13201 DG201A TSC4201 TSC4202	(3713)	• MP355	LinearTech Motorola National SGS-Thomson	LF355 LF355 LF355 OP16 LF356 LF356 LF356 SGS-Thomson		MP574A	TeledyneS Adv Analog AD	ADC574 ADC574A AD574 574 ADC574A Datel ADC574Z HI574 HI574A HADC574 MAX574 MCE MicroNet MicroPwr Sipex-HSD		MP7505	Datel Harris	MUX16 MV1606 MX1606 DG506 HI506 MC7506 AD7507 MUX28 MVD807 MXD807	(3360)
	Fujitsu Harris	MB47201 DG201 DG201A HI201 LS201 DG201A MAX331 LF11201 LF13201 DG201A TSC4201 TSC4202		• MP355	LinearTech Motorola National SGS-Thomson	LF355 LF355 LF355 OP16 LF356 LF356 LF356 SGS-Thomson			Burr-Brown Datel Harris	ADC574A ADC574Z HI574 HI574A HADC574 MAX574 MCE MicroNet MicroPwr Sipex-HSD		MP7507	Motorola AD	MC7506 AD7507 MUX28 MVD807 MXD807	(3360)
	Lin Int Sys Maxim	DG201A MAX331 LF11201 LF13201 DG201A TSC4201 TSC4202		• MP356	AD LinearTech Motorola National SGS-Thomson	OP16 LF356 LF356 LF356 SGS-Thomson			Honeywell Maxim MCE MicroNet MicroPwr Sipex-HSD	HADC574 MAX574 MCE574 MN574A MP574 HS574 HS574A TP574A	(3547)	MP7508DI	AD Burr-Brown	ADG508A HI508A MPC8S MX808	(3237)
MP207	AD LinearTech MicroPwr	OP207 LT1002 MPOP207		MP357	AD MicroPwr	OP17 MPOP17		• MP6116	TeledyneS Allegro Micro	TP574A UDN6116 HM6116			Datel Harris	MX808 DG508A HI508A IH5108 IH6108 LS508A DG508A HI508A MAX358 DG508A DG509 HI509 MAX359 MAX369 LF11509 LF13509	(3360)
• MP208A	AD	AD208A OP97 PM208A	(3250)	MP358	Lin Int Sys	LS358			Hitachi Mitsubishi National OKI	HM6116 M5M5517 MMC2116 MSM2128 MSM5128 MSM5129 SMC6116 SRM2016C		MP7509DI	Lin Int Sys Maxim	LS508A DG508A HI508A MAX358 DG508A DG509 HI509 MAX359 MAX369 LF11509 LF13509	
• MP208A	Motorola National	LM208A μA208A LM208A		MP361	Lin Int Sys	LS361		• MP6116	S-MOS	SMC6116			Siliconix Harris	DG508A DG509 HI509 MAX359 MAX369 LF11509 LF13509	
• MP2114	AMD Intel Krueger	AM9114 2114A 2114-150 2114-200 2114-450	(3513) (3513) (3513)	MP362	Lin Int Sys	LS362		• MP6116	SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116 LH5116		MP7510DI	AD	AD7510 SW7510 TSC445 PIC7510 AD7511 AD7590 AD7591 SW7511 DM7590 TSC445 PIC7511 AD7512 AD7592 TSC444	
• MP2114	Mitsubishi Motorola National	M5L2114 M5L2114 F2114 NMC2114A MSM2114		• MP4136	MicroPwr National AD	MPOP09 μA4136 AD589	(3238) (3238)	• MP6116	Sharp	UM6116 V61C16		MP7511DI	TeledyneS Unitrode AD	TSC445 PIC7510 AD7511 AD7590 AD7591 SW7511 DM7590 TSC445 PIC7511 AD7512 AD7592 TSC444	
• MP2114	OKI Rockwell Sharp	R6514 LH2114 TMM2114A UM6114		MP5010	Harris Lin Int Sys LinearTech Maxim National	ICL8069 LS5010 LT1004 ICL8069 LM113 LM313 ZN404 ZN423 TSC04 TSC05 TSC8069 TSC9491 LT1004 MC3520 ADREF01		• MP6116	Signetics Sony UMC Vitelco Allegro Micro	NE5517 CXK5816 UM6116 V61C16 SCM20C16 MBM8418 SRM2018		MP7512DI	TeledyneS Unitrode AD	TSC444 PIC7512 ADG200 DG200 HI200 DG200A PIC7513 CD4016B MC14016 MC14066 CD4016 CD4066 F4016 F4066	
• MP2208A	UMC	UM6114		• MP5078	TI	LT1004		• MP6116	Hitachi	HM6116			National TeledyneS Unitrode	DM7590 TSC445 PIC7511 AD7512 AD7592 TSC444	
• MP2364C	NCR OKI	NCR2364 MSM3864		MP5531	Motorola	ADREF01		• MP6117	Fujitsu S-MOS	MBM8418 SRM2018		• MP7513	TeledyneS Unitrode AD	TSC444 PIC7512 ADG200 DG200 HI200 DG200A PIC7513 CD4016B MC14016 MC14066 CD4016 CD4066 F4016 F4066	
	Plessey S-MOS Sharp	SL2364C SMM2364 LH2364A			LinearTech	LT1019-10 REF01 REF01A REF01 MPREF01 MC1400AG10 MC1400AU10 MC1404 MC1504 REF01 REF01 TSC9495 TSC9496 VRE100 OP270		• MP6118	Cherry Semi Dionics	CS594C DI514B DI514BR XR6118 MSL912 NE594 SA594 TL594C TL594M		• MP7515	Siliconix Unitrode Harris Motorola	ADG200 DG200A PIC7513 CD4016B MC14016 MC14066 CD4016 CD4066 F4016 F4066	
• MP2365	TI	TMS2364			Maxim MicroPwr Motorola	REF01 REF01A REF01 MPREF01 MC1400AG10 MC1400AU10 MC1404 MC1504 REF01 REF01 TSC9495 TSC9496 VRE100 OP270		• MP6118	Exar OKI Signetics	XR6118 MSL912 NE594 SA594 TL594C TL594M		• MP7516	National	ADG200 DG200A PIC7513 CD4016B MC14016 MC14066 CD4016 CD4066 F4016 F4066	
MP255	VLSI Tech Weitek	VT2364 SC8164			Raytheon TeledyneS	REF01 REF01 TSC9495 TSC9496 VRE100 OP270		• MP6118	Toshiba Cypress	TD62781 CY7C147 HM6504 HM4315 5104 M58981 NMC6504 MSM5104 Rockwell		• MP7516	SGS-Thomson	HCC4016 HCC4066 HCF4016 HCF4066	
	National SGS-Thomson	PM155 PM255 LF255			Thaler AD	REF01 REF01 TSC9495 TSC9496 VRE100 OP270		• MP6504	Hitachi Intel Mitsubishi National OKI Rockwell	HM4315 5104 M58981 NMC6504 MSM5104 Rockwell					
MP301	Lin Int Sys	LM255		MP5532	Exar	SSM2139	(3242)								
MP302	Harris Lin Int Sys	LS301 DG302A LS302				XR5532 XR5532A									

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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◆ Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Micron Technology (Cont'd)				MT5C1005	Samsung	KM641001	(Cont'd)	MT5C2568	Catalyst Semi	CAT71C256 CAT71C256L		MT5C6407	Cypress	CY7C162	
• MT4C256	Motorola	MCM514256A		MT5C1601	TI	TMS62456			Cypress	CY7C197		MT5C6408	IDT	IDT71982	
	NEC	μPD424256			AMD	AM2167				LogicDev	L7C162				
• MT4C256	NMB	AAA1M104			Cypress	CY7C167A		Dense-Pac	DPS92256		Performance	P4C1982			
	OKI	MSM41005			Harris	HM65262			Saratoga	SSM7162					
• MT4C256		MSM414256			Hitachi	HM6267		GoldStar	DPS92256L		Cypress	CY7C182			
		MSM514256			IDT	IDT6167			Hitachi	GM76C256					
• MT4C256	Samsung	KM44C256			Intel	51C66		Hitachi	HM61256				CY7C185		
	Sharp	LH64257			51C67		HM62256					CY7C186			
	Siemens	HYB514256			LogicDev	L7C167		Hyundai	HM64456			EDI	EDI8808		
	TI	TMS44C256			Mitsubishi	M5M21C67			HY62C256			Fujitsu	MB82B79		
	Toshiba	TC514256			Motorola	MCM2167			HY63C256			Harris	HM65642		
	Fujitsu	MB814400			NEC	μPD4311			HY63C256L			IDT	DPS9264		
	Hitachi	HM514400			S-MOS	SRM2267		Inova	S32K8				IDT7164		
	Mitsubishi	M5M44400				SRM2367			IDT	IDT7M856S				IDT7164S	
	Mosaic	MDM41000			Saratoga	SSM6167			IDT71256L			Mitsubishi	M5M5179		
	Motorola	MCM514400			SGS-Thomson				IDT71256S				Mosel	MS6264	
	NEC	μPD424400				IMS1403			IDT8M824			Motorola	MCM6264		
	OKI	MSM514400								LogicDev		L7C199			
	Panasonic	MN41C41000			Sharp	LH5167			Mitsubishi	M5M5256			National	NMC6164	
	Samsung	KM44C1000			Cypress	CY7C169A				Mosel	MS62256				NEC
	Siemens	HYB514400			Fujitsu	MB81C69A			Motorola	MCM60256A			Performance	P4C164	
	TI	TMS44400			Motorola	MCM6269				National	NM44251				SGS-Thomson
	Toshiba	TC514400			Performance	P4C169			NEC	μPD43256B				IMS1630	
	Fujitsu	MB81C4256			Saratoga	SSM6168				OKI	MSM51257JS				Sony
	GoldStar	GM71C4256			SGS-Thomson					MSM51257LRS			Toshiba	TMM2088P	
	Hitachi	HM514256									MSM51257RJ				UMC
	Hyundai	HY51C4256				MK41H69			Performance	P4C1256			Vitellic	V63C64P	
	MicronTech	MTC4256			MT5C1605	Cypress	CY7C170A				S-MOS		SRM20256		MT51C1608
	Mitsubishi	M5M44C256			IDT	IDT61970				SRM20256C			Cypress	CY6116	
		M5M44256			SGS-Thomson						SRM2257				EDI
	Motorola	MCM514256A				MK41H79			Samsung	KM62256			Harris	DG506A	
	NEC	μPD424256			VLSI Tech	VT20C79					KM68257				
		μPD424256A			Cypress	CY7C171A			Sharp	LH52256				HM65162	
	NMB	AAA1M104			IDT	IDT71681				Sony	LH52259				Hitachi
	OKI	MSM41005			LogicDev	LC171			Toshiba	TC55257			IDT	IDT6116	
		MSM414256			Performance	P4C1681					TC55257A				
		MSM514256			Saratoga	SSM6171		MT5C6401	UMC	UM62256A				IDT6116L	
		MSM514256			Cypress	CY7C172A				Cypress	CY7C187				
	Samsung	KM44C256			IDT	IDT71682			EDI	EDI8164			Intel	81C28	
	Sharp	LH64257			LogicDev	LC172				IDT	IDT7187				LogicDev
	Siemens	HYB514256			Performance	P4C1682				IDT7187L			Maxim	DG506A	
	TI	TMS44C256			Saratoga	SSM6172				LogicDev	L7C187				Motorola
	Toshiba	TC514256			VLSI Tech	VT20C72			Mosel	MS6287				MCM6116	
	Fujitsu	MB81C4258			MT5C1608	Cypress	CY7C128A				Motorola		MCM6187		
	Hitachi	HM514258			GoldStar	GM76C28				MCM6287			Saratoga	SSM6116	
	Hyundai	HY51C4258			LogicDev	L6116				National	F1600				Sony
	Mitsubishi	M5M44C258			Sony	CKX5814				F1602			Toshiba	TC2018	
	Motorola	MCM514258A			Vitellic	V61C16				NEC	μPD4361				UMC
	NEC	μPD424258			VLSI Tech	VT20C18			Performance	P4C187			Vitellic	V16C16	
		μPD42458			MT5C2516	Motorola	MCM62995				SGS-Thomson				VLSI Tech
	OKI	MSM514257			MT5C2561	Cypress	CY7C197						AMD	AM67C4501	
		MSM514258			Dense-Pac	DPS92256									Dallas
	Samsung	KM44C258				DPS92256L							IDT	IDT7201	
	Sharp	LH64258			Fujitsu	MB81C81A									
	Toshiba	TC514258			Hitachi	HM6207		MT5C6404	AMD	AM99C6404				IDT7201A	
	TI	TMS44C260			Hitachi	HM6707				Cypress	CY7C164				
	Fujitsu	MB61461			IDT	IDT71257			Dense-Pac	DPS8M464				IDT7201SA	
		MB81464				IDT71257S				EDI	IDT8416				
	Hitachi	HM50464				L7C197			Hitachi	HN6288			Samsung	KM75C01A	
		HM53461				L7C197				IDT	IDT6198				Saratoga
	Hyundai	HY53C464			LogicDev	L7C197				IDT7188L			SGS-Thomson		
	IDT	DPS9264			Mitsubishi	M5M5257				Intel	M51C98				
	Krueger	4464-100	(3513)		Motorola	MCM6207			LogicDev	L7C164			Sharp	LH5496	
		4464-120	(3513)		NEC	μPD46251					L7C166				TI
		4464-150	(3513)		Performance	P4C1257				MCM6289				TACT7201	
	Mitsubishi	MCM41464			Samsung	KM61257				Motorola	F100181				Vitellic
		MSM4464P			SGS-Thomson				National	1621			Samsung	KM75C101A	
		M5M4C264									S-MOS		SRM2274		
		M5M4464				IMS1800				TC55417				AM7202	
	Motorola	MCM41464			Sharp	LH52251					Toshiba		CT64K54		
	NEC	μPD41264			Cypress	CY7C194			VLSI Tech	CY7C166			Dallas	DS2010	
		μPD41464			EDI	ED18465C				Cypress	CY7C166				IDT
	OKI	MSM41464			Fujitsu	MB8184			IDT	IDT6198				IDT7202A	
	Samsung	KM41464				MB82B84				LogicDev	L7C165				
		KM41464A			Hitachi	HM6208				L7C166				IDT7202SA	
	Vitellic	V53C464				HM6708				Motorola	MCM6290				Mosel
	Fujitsu	MB81461			IDT	IDT71258			National	F100182			Plessey	MV61901	
	Hitachi	HM53462			Mitsubishi	M5M5258					F1622				
	Mitsubishi	MB81461			Motorola	MCM6208				μPD4363			Samsung	KM75C02A	
	Vitellic	V53C261			NEC	μPD43254				Performance	P4C198				
	SGS-Thomson				SGS-Thomson					P4C198A			Saratoga	SSL7202	
		MK45H64									SSM7166				Sharp
	TI	SMJ4164			Sony	CXK54256			Saratoga	SSM7198			TI	SN74ACT7202	
	TI	TMS416C64									V61C62				
	Toshiba	TC511665			Toshiba	TC55464			Vitellic	CY7C161			Vitellic	V61C02	
	Fujitsu	MB82B005			VLSI Tech	VT6208				Cypress	CY7C161				AMD
MT5C1005	Hitachi	HM624256			Cypress	CY7C196			IDT	IDT71981			Cypress	CY7C428	
	Intel	MT5C1005			IDT	IDT61298				LogicDev	L7C161				Dallas
	Mitsubishi	M5M51004			LogicDev	L7C195			National	F100183			IDT	IDT7203	
	NEC	μPD431004				L7C196				Performance	P4C1981				
			(Continued)		Toshiba	TC55465	(Continued)		Saratoga	SSM7161				IDT7203SA	
									VLSI Tech	VT16H4	(Continued)				(Continued)

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Mitel Corp. (Cont'd)				MH1M08A (Cont'd)				MH1M09BQJ (Cont'd)				MH25609 (Cont'd)			
MT8962	Plessey	MV8962		MicronTech	MT8C8024	MT8C8024M		Peps	PEP1MX9			Hyundai	HY51C1000	HY51C1002	
MT8963	Plessey	MV8963		Mitsubishi	MH1M08BQJ	MCM81000		Samsung	KMM591000A			MicronTech	MT4C1024	MT4C1024	
MT8964	Plessey	MV8964		Motorola	MC421000A8	MC421000A8		Siemens	HYM910005			Mitsubishi	MH25608	MH25608	
MT8965	Plessey	MV8965		OKI	MSC231148	MSC231148		TI	TM024GAD9				M5M4C1000	M5M41000S	
MT8970	Hitachi	HA17812			MSC2313AY58	MSC2313AY58		Toshiba	THM91000A				M5M410000	M5M410000	
MT8975	Hitachi	HA17806		Peps	1MX8	1MX8		Fujitsu	MB85236			Motorola	MCM511000A	MCM511000A	
MT8978	National	μA7807		Samsung	KMM581000A	KMM581000A		MicronTech	MT8C9025M			NEC	μPD421000	μPD421000	
MT8980	Gould AMI	S8980		TI	MPR68CTE64	MPR68CTE64		TI	TM025GAD9			OKI	MSM41000	MSM41000	
MT8981	Gould AMI	S8981			TM024GADB	TM024GADB		MicronTech	MT8C9026			Samsung	KM41C1000	KM41C1000	
	Hitachi	HA17805		Toshiba	THM81000	THM81000A		OKI	MSC2312KS9				KM41256A	KM41256A	
Mitsubishi Electronics					UTMC	UT67164		Peps	PEP1MX9			SGS-Thomson	MKB45F56	MKB45F56	
AM99C88	Dense-Pac	DPS88H08			UT7164	UT7164			1MX8			Siemens	HYB511000	HYB511000	
	Exar	XR8464		MH1M08AOJ	MicronTech	MT8C8026		Samsung	KMM491000			TI	TMS4C1024	TMS4C1024	
	Fujitsu	MB88B464			Mitsubishi	MT8C902MN			KMM591000				TM4256FC1	TM4256FC1	
		MB81C78A				MH1M09A		Toshiba	THM91000AL				TM5256	TM5256	
		MB8464A				TH310008			THM91000AS			Toshiba	TC511000	TC511000	
	GoldStar	GM76C88L			NEC	MC42100A8			MB85346				TC511000C	TC511000C	
	Harris	CDM6264				MC42100C8		MH1M36BQJ	Hitachi	HB56D136B		MH25609A	Dense-Pac	DPD42569	
	Hitachi	HM6264			OKI	MSC2313KS8			IBM	34F2933			MicronTech	MT9259	
		MB6264				MSC2313YS8			MicronTech	MT9D136M			Mitsubishi	MH25609J	
		MB6264			Peps	1MX8			NEC	MC421000A36FH			NEC	MC41256A9	
	Hyundai	HY6264			Samsung	KMM481000			OKI	MSC2350YS12			OKI	MSC2304KS9	
	IDT	DPS9264			Toshiba	THM81000AL			Peps	MH1MX36				MSC2304YS9	
	Krueger	6264-100 (3513)		MH1M08BQJ	Fujitsu	MB85230			Samsung	KMM5361000			Peps	PEP4256EL9	
		6264-120 (3513)			Hitachi	HB56A18			Toshiba	THM361020			Samsung	KMM49256	
		6264-150 (3513)				HB56A18B		MH25608	Dense-Pac	DPD411M				KMM59256	
		6264LP-100 (3513)				HB56A18B			Fujitsu	MB81C1000				KMM59256	
		6264LP-120 (3513)			MicronTech	MT8C8024				TH22568			TI	TMM4256EL9	
		6264LP-150 (3513)				MT8C8024M			GoldStar	GM71C1000				TMM4256GU9	
	MicroLinear	ML8464			Mitsubishi	MH1M08A			Hitachi	HB561003				TM4256EL9	
	Mitsubishi	M5M5178			Motorola	MCM81000				HM511000		MH25609J	Dense-Pac	DPD42569	
	Motorola	MCM6064			NEC	MC421000A8				HM51101			MicronTech	MT9259	
		MCM61164			OKI	MSC231148				HM51102			Mitsubishi	MH25609A	
		MCM6164C				MSC2313AY58			Hyundai	HY51C1000			NEC	MC41256A9	
	National	DP8464			Peps	1MX8				HY51C1002			OKI	MSC2304KS9	
	OKI	MSM5164			Samsung	KMM581000A			MicronTech	MT4C1024			Peps	PEP4256EL9	
		MSM5165			TI	MPR68CTE64			Mitsubishi	MH25609			Samsung	KMM49256	
		MSM5188				TM024GADB				M5M4C1000				KMM59256	
	S-MOS	SRM2064			Toshiba	THM81000				M5M41000S			TI	TMM4256EL9	
		SRM2264				THM81000A				M5M410000				TMM4256GU9	
	Samsung	KM6264			UTMC	UT67164			Motorola	MCM511000A				TM4256EL9	
		KM6264A				UT7164			NEC	μPD421000			MH25636A	Hitachi	HB56D25636
	Sharp	LH5164		MH1M08BJJ	Fujitsu	MB85231				MC421000			NEC	MC424256A36BH	
		LH5165			Hitachi	HB56B18B			OKI	MSM41000			Toshiba	THM362500	
		CKX5164P			MicronTech	MT8C8025M			Samsung	KM41C1000			Fujitsu	MB85336	
	Sony	CKX5863P			NEC	MC421000B8				KM41256A			Hitachi	HB56D25636B	
		CKX5864		MH1M09	Fujitsu	MB85235			SGS-Thomson	MKB45F56			IBM	6450603	
		CKX5865			Hitachi	HB56A19				HYB511000			MicronTech	MT8C36256M	
		CKX5865P				HB58A19			Siemens	TMS4C1024				MT8C36256MN	
	Toshiba	TC5563				HB58A19			TI	TMS4C1024			NEC	MC424256A36B	
		TC5565A (3682)			MicronTech	MT8C9024				TM4256FC1			OKI	MCC2320AYS9	
		TC5588				MT8C9024M				TM5256			Peps	MH25636A	
	UMC	UM6264A			Mitsubishi	MH1M09BQJ			Toshiba	TC511000			Samsung	KMM536256B	
	Vitelc	V61C62			Motorola	MCM91000				TC511000C			TI	TM256K8C36	
		V62C64			NEC	MC421000A9				TC511001C			Toshiba	THM362500AS	
		V63C64			OKI	MSC2310Y59		MH25608A	Dense-Pac	DPD42568			Fujitsu	MB85337	
	VLSI Tech	VT20C99				MSC2317AY59			Hitachi	HB561008B			Hitachi	HB56D51236B	
MB81461	Fujitsu	MB81461			Peps	PEP1MX9			Mitsubishi	MH25608J			IBM	6450604	
	Hitachi	HM53462			Samsung	KMM591000A			OKI	MSC2304KS8				6450608	
	MicronTech	MT42C4064			Siemens	HYM910005			Peps	PEP4256EL8			MicronTech	MT8C36512	
	Vitelc	V53C261			TI	TM024GAD9			Samsung	KMM48256			NEC	MC424512A36B	
MCM41464	Fujitsu	MB61461			Toshiba	THM91000				KMM58256			OKI	MSC2321AYS18	
		MB81464				THM91000A			TI	TMM4256FL8			Peps	HM51236A	
	Hitachi	HM50464		MH1M09A	MicronTech	MT8C8026				TM4256FL8			Samsung	KMM536512B	
		HM53461				MT8C902MN				TM4256GU8			TI	TM512KBC36	
	Hyundai	HY53C464			Mitsubishi	TH310008				TM4256GU8			Toshiba	THM36512AS	
	IDT	DPS9264				TH310008			Dense-Pac	DPD42568				THM36512OAS	
	Krueger	4464-100 (3513)			NEC	MC42100A8		MH25608J	Hitachi	HB561008B			Hitachi	HB56D51236	
		4464-120 (3513)				MC42100C8			Mitsubishi	MH25608A			NEC	MC424512A36BH	
		4464-150 (3513)			OKI	MSC2313KS8			OKI	MSC2304YS8			OKI	ATMEL	AT27HC256
	MicronTech	MT4067				MSC2313YS8			Peps	PEP4256EL8			Toshiba	THM365120	
	Mitsubishi	MSM4464P			Peps	1MX8			Samsung	KMM48256				THM365120AS	
		M5M4C264			Samsung	KMM481000				KMM58256				THM36512AS	
		M5M4464			Toshiba	THM81000AL			TI	TMM4256FL8				THM36512AS	
	Motorola	MCM41464				THM81000AS				TM4256FL8				THM36512OAS	
	NEC	μPD41264		MH1M09BQJ	Fujitsu	MB85235				TM4256GU8				THM365120AS	
		μPD41464			Hitachi	HB56A19				TM4256GU8				THM365120AS	
	OKI	MSM41464				HB56A19B				TM4256GU8				THM365120AS	
	Samsung	KM41464				HB58A19				TM4256GU8				THM365120AS	
		KM41464A			MicronTech	MT8C9024				TM4256GU8				THM365120AS	
		V53C464				MT8C9024M				TM4256GU8				THM365120AS	
MH1M08	OKI	MSC2311KS8			Mitsubishi	MH1M09				TM4256GU8				THM365120AS	
		MSC2311YS8			Motorola	MCM91000				TM4256GU8				THM365120AS	
MH1M08A	Fujitsu	MB85230			NEC	MC421000A9				TM4256GU8				THM365120AS	
	Hitachi	HB56A18			OKI	MSC2310Y59				TM4256GU8				THM365120AS	
		HB56A18B				MSC2317AY59				TM4256GU8				THM365120AS	
										TM4256GU8				THM365120AS	

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
Mitsubishi Electronics (Cont'd)				M5M27256	Intel	(Cont'd)		M5M4C1000		(Cont'd)		M5M410000	Mitsubishi	(Cont'd)		
M5M27C101K	Hitachi	(Cont'd)			Krueger	P27257 27256 27256-200 (3513) 27256-250 (3513) 27256-300 (3513)			TI	TMS4C1024 TM4256FC1 TM5256 TC511000 TC511000C TC511001C MB81C1001 HM511001 HY51C1001			Motorola NEC OKI Samsung	M5M4C1000 M5M41000S MCM511000A μPD421000 MC421000 MSM41000 KM41C1000 KM41256A		
	Intel	HN27C101 HN27C101G HN27C301G 27010 27210			Mitsubishi Motorola OKI SGS-Thomson	MSL27256 MCM67256 MSM27256		M5M4C1001	Fujitsu Hitachi Hyundai	MB81C1001 MB81C1001 HY51C1001			SGS-Thomson	MKB45F56		
	Krueger	27C210			Sharp	M27256 LH57256			Motorola NEC	MCM511001A μPD421001			Siemens	HYB511000		
	Mitsubishi	M5M27C102 M5M27C102K			TI	TMS27C256			NMB OKI	AAA1M200 MSM41001			TI	TMS4C1024 TM4256FC1 TM5256		
	National	NMC27C010		M5M27512	Toshiba	TC57H256			Samsung	KM41C1001			Toshiba	TC511000 TC511000C TC511001C		
	NEC	μPD27C1001A			Fujitsu	MBM27C512			TI	TMS4C1025						
	S-MOS	SMM63100			Hitachi	HN27C512G			Toshiba	TC511001						
	Toshiba	TC571001			IDT	IDT7M856S IDT8M824			Fujitsu	MB81C1002						
M5M27C102	Waferscale	WS27C010L			Krueger	27C512-200 (3513) 27C512-250 (3513)			Hitachi	HM511002		M5M4256	Fujitsu Hitachi	MB81256 HM50256 HM50257		
	AMD	AM27C010 AT27C010							MicronTech	MT4C1026			Hyundai	HY51C256 HY53C256		
	ATMEL	AT27C1024			National	NMC27C512			Motorola	μPD421002				Mitsubishi	MSM4257 M5M4257	
	Catalyst				Ricoh	TMS27C512			NEC	AAA1M100				Motorola	MT1259 μPD41256	
	Semi	CAT27C210 CAT27010			SGS-Thomson	M27C512 TMS27C512 TMS27PC512			OKI	MSM41002				OKI	MSM37256 MSM37257A	
	Fujitsu	MBM27C1001			TI	TC54512 TC57512			Samsung	KM41C1002				Samsung	KM41256 KM41256A	
	Hitachi	HN27C010 HN27C010G HN27C101 HN27C101G HN27C301G			Toshiba	VT27C512 AM2864A			TI	TMS4C1027				Vitellic	V51C257 V53C256	
	Intel	27010 27210 27C210		M5M28C64	AMD	AM2864A AM9864			Toshiba	TC511002 V51C101				Western	WCM41256 41256-100 (3513) 41256-120 (3513) 41256-150 (3513)	
	Krueger	M5M27C101K			ATMEL	AT28C64 AT28HC64 AT28PC64 AT2864			Hitachi	MB81464 HM50464 HM53461				Motorola	MT1259 MCM6256B	
	Mitsubishi	M5M27C102K			Catalyst	CAT28C64A			IDT	DPS9264				OKI	MSM37256A	
	National	NMC27C010			Semi	CAT28C65A			Krueger	4464-100 (3513) 4464-120 (3513) 4464-150 (3513)				Panasonic	MN41256	
	NEC	μPD27C1001A			EXEL	XLS2864A			MicronTech	MT4067				Samsung	KM41256A	
	S-MOS	SMM63100			Fujitsu	MBM28C64			Mitsubishi	MCM41464				Siemens	HYB41256	
	Toshiba	TC571001			Hitachi	HM58064 HN58C64 HN58C65 HN58C66 HN58064			Motorola	MCM41464				Vitellic	V51C257 V53C256	
	Waferscale	WS27C010L				HM58064			NEC	μPD41264						
M5M27C102K	AMD	AM27C010				HN58C64			OKI	MSM41464						
	ATMEL	AT27C010 AT27C1024				HN58C65 HN58C66 HN58064			Samsung	KM41464 KM41464A						
	Catalyst					IDT			Vitellic	V53C464						
	Semi	CAT27C210 CAT27010				IDT7M7864 IDT78C64A			Dense-Pac	DPD411M						
	Fujitsu	MBM27C1001				Intel			Fujitsu	MB81C1000						
	Hitachi	HN27C010 HN27C010G HN27C101 HN27C101G HN27C301G				Microchip			GoldStar	GM71C1000						
	Intel	27010 27210				National			Hitachi	HB561003						
	Krueger	27C210				NEC				HM511000 HM51101 HM51102						
	Mitsubishi	M5M27C101K				OKI				HM561003						
		M5M27C102				Samsung				HY51C1000						
	National	NMC27C010				SEEQ				HY51C1002						
	NEC	μPD27C1001A				DQ2864 DQ2864H				MT4C1024						
	S-MOS	SMM63100				DQ52B33				MH25608 MH25609						
	Toshiba	TC571001				28C64				M5M4C1256 M5M410000 MCM511000A						
	Waferscale	WS27C010L				2864A				μPD421000 MC421000						
M5M27C201K	AMD	AM27C020				2865A				MSM41000 KM41C1000						
	Intel	27C020				X28C64 (3744) X28C64M (3744) X2864A (3741)				OKI						
	NEC	μPD27C2001								Samsung						
M5M27C256	ATMEL	AT27HC256 AT27256								KM41C1000 KM41256A						
	Catalyst									SGS-Thomson						
	Semi	CAT27HC256								MKB45F56 HYB511000 TMS4C1024						
	Hitachi	HN27C256								TM5256						
	Intel	27C256 (3501) 27C256-200 (3513) 27C256-250 (3513) 27C256-300 (3513)								TC511000 TC511000C TC511001C DPD411M						
	Krueger									MB81C1000 TH22568						
										GM71C1000 HB561003 TM4256FC1						
										TM5256 TC511000 TC511000C DPD411M						
										MB81C1000 TH22568						
										GM71C1000 HB561003						
										HM511000 HM51101 HM51102						
										HY51C1000 HY51C1002						
										TC511000 TC511000C DPD411M						
										MB81C1000 TH22568						
										GM71C1000 HB561003						
										HM511000 HM51101 HM51102						
										HY51C1000 HY51C1002						
										MT4C1024 MH25608 MH25609						
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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Mitsubishi Electronics (Cont'd)				M5M44400 (Cont'd)				M5M51008P (Cont'd)				M5M5179			
M5M44C258		(Cont'd)		NEC		μPD24400		LogicDev		L7C199		Cypress		CY7C182	
	MicronTech	MT4C4258		OKI		MSM514400		Mosaic		MSM8128S				CY7C185	
	Motorola	MCM514258A		Panasonic		MN41C41000		Mosel		MS88128		EDI		CY7C186	
	NEC	μPD24258		Samsung		KM44C1000		Peps		\$128KX8 (3573)		Fujitsu		ED18808	
		μPD24258		Siemens		HYB514400		Samsung		KM681000L		Harris		MB82B79	
	OKI	MSM514257		TI		TMS44400		Sony		CXK581000P		IDT		HM65642	
		MSM514258		Toshiba		TC514400				CXK581001P				DPS9264	
	Samsung	KM44C258		NEC		μPD24402		Toshiba		TC551001PL				IDT7164	
	Sharp	LH64258		Panasonic		MN41C41002		UMC		UM621024		MicronTech		IDT7164S	
	Toshiba	TC514258		Toshiba		TC514402		IDT		IDT71C65		Mosel		MT5C6408	
M5M44100	Dense-Pac	DPD4MM1		Fujitsu		MB61461		NEC		μPD4464		Motorola		MS6264	
	Fujitsu	MB814100		Hitachi		MB81464		Cypress		CY7C182				MCM6265	
	Hitachi	HM514100				HM50464				CY7C185		National		NMC6164	
	MicronTech	MT4C1004				HM53461				CY7C186		NEC		μPD4364	
	Mitsubishi	M5M441000		Hyundai		HY53C464				EDI8808		Performance		P4C164	
	Mosaic	MDM14000		IDT		DPS9264				Fujitsu		SGS-Thomson		IMS1630	
	Motorola	MCM514100		Krueger		4464-100 (3513)				Harris				Sony	
	NEC	μPD242100				4464-120 (3513)				IDT				CKX55863	
	OKI	MSM514100				4464-150 (3513)				IDT7164				Toshiba	
	Panasonic	MN41C4000		MicronTech		MT4067				IDT7164S				TMM2088P	
	Samsung	KM41C4000		Mitsubishi		MCM41464				MT5C6408				UMC	
	Siemens	HYB514100				MSM4464P				M5M5179				V63C64P	
	TI	TMS44100				M5M4C264				Mosel				VT20C98	
	Toshiba	TC514100		Motorola		μPD41264				Motorola		M5M5179P		MB81C79A	
M5M441000	Dense-Pac	DPD4MM1		NEC		μPD41464				MCM6264				Sony	
	Fujitsu	MB814100		OKI		MSM41464				NMC6164				ACT2140	
	Hitachi	HM514100		Samsung		KM41464				NEC				TC55188T	
	MicronTech	MT4C1004				KM41464A				μPD4364				TC5589	
	Mitsubishi	M5M44100		Vitellic		V53C464				Performance				V63C330	
	Mosaic	MDM14000		Hitachi		HM538122				SGS-Thomson				MB81C71A	
	Motorola	MCM514100		Mitsubishi		N5N482128				IMS1630				Hitachi	
	NEC	μPD242100		NEC		μPD42275				CKX55863				HM6787	
	OKI	MSM514100		TI		TMS48C121				Toshiba				LogicDev	
	Panasonic	MN41C4000		Toshiba		TC524128A				UMC				Mitsubishi	
	Samsung	KM41C4000				TC528128				V63C64P				MSM5187P	
	Siemens	HYB514100				MB841000				VLSI Tech				OKI	
	TI	TMS44100				HM628128				Hitachi				S-MOS	
	Toshiba	TC514100				M5M51008				IDT				Saratoga	
M5M44101	Hitachi	HM514101				μPD431000				Motorola				SSM7187	
	NEC	μPD242101				μPD431000A				MCM60L64				SGS-Thomson	
	OKI	MSM5144101				μPD431000A				NEC				MK41H87	
	Panasonic	MN41C4001				KM681000				μPD4364-L				LH5261	
	Samsung	KM41C4001				CKX581000				Samsung				74HC4515	
	TI	TMS44101				CKX581001				Toshiba				MB81C71A	
	Toshiba	TC514101				TI				Dense-Pac				Hitachi	
M5M44102	NEC	μPD424102				TMS62828				XR8464				HM6787	
	Panasonic	MN41C4002				TC551001				MB88464				LogicDev	
	Samsung	KM41C4002				MB82B001				MB81C78A				L7C166	
	Toshiba	TC514102				MT5C1001				MB8464A				Mitsubishi	
M5M442256	Fujitsu	MB81C4251				μPD431001				GM76C88L				M5M5187P	
		MB81C4253				KM611001				CDM6264				MSM5187	
	Hitachi	HM534251				MB82B005				HM6264				S-MOS	
	NEC	μPD42273				HM624256				HM6464				Saratoga	
	OKI	MSM514251				MT5C1005				MB6264				SSM7187	
	Samsung	KM42C4256				MT5C1005				HY6264				SGS-Thomson	
	TI	TMS44C251				μPD431004				DPS9264				MK41H87	
	Toshiba	TC524256A				KM641001				6264-100 (3513)				LH5261	
M5M44256	Fujitsu	MB81C4256				TMS62456				6264-120 (3513)				74HC4515	
	GoldStar	GM71C4256				MB841000				6264-150 (3513)				MB81C71A	
	Hitachi	HM514256				HM628128				6264LP-100 (3513)				HM6287	
	Hyundai	HY51C4256				M5M51008				6264LP-120 (3513)				LogicDev	
	MicronTech	MT4C4256				Mitsubishi				6264LP-150 (3513)				Mitsubishi	
		MT4C4256				NEC								M5M5187P	
	Mitsubishi	M5M44C256				μPD431000A								OKI	
	Motorola	MCM514256A				KM681000								MSM5187	
	NEC	μPD424256				CKX581000								S-MOS	
		μPD424256A				CKX581001								Saratoga	
	NMB	AAA1M104				TI				MicroLinear				SSM7187	
	OKI	MSM41005				TMS62828				Mitsubishi				SGS-Thomson	
		MSM414256				TC551001				ML8464				MK41H87	
	Samsung	KM44C256				CYM1421				AM99C88				LH5261	
	Sharp	LH64257				CYM1421HD				MCM6064				74HC4515	
	Siemens	HYB514256				DPS128M8				MCM6164C				CY7B164	
	TI	TMS44C256				DPS128M8L				DP8464				MB81C74	
	Toshiba	TC514256				DPS41288 (3376)				MSM5164				MB82B74	
	Hitachi	HM51258				DPS41288LP (3376)				MSM5165				HM6288	
	Hyundai	HY51C4258				DPS41288LP (3376)				MSM5188				HM6788	
	NEC	μPD424258				EDH8M8128				S-MOS				DPS9264	
	Samsung	KM44C258				EDH8M8128C				SRM2064				IDT7188	
	Vitellic	V51C257				EDH8832				SRM2264				Motorola	
M5M44400	Fujitsu	MB814400				EDH8832				KM6264				MCM6188	
	Hitachi	HM514400				EDH8M8128C				KM6264A				NEC	
	MicronTech	MT4C4001				EDH8832				LH5164				μPD4362	
	Mosaic	MDM41000				EDH8M8128C				LH5165				Performance	
	Motorola	MCM514400				EDH8130C-100				CXK5164P				P4C188	
		(Continued)				EDH8130C-55				CXK5863P				Saratoga	
						EDH8130C-70				CXK5864				SSM7188	
						EDH8130C-90				CXK5865				SGS-Thomson	
						EDH8130C-90				CXK5865P				IMS1620	
						HM8832				TC5563				TC55416	
						HY63C256				TC5565A (3682)				VLSI Tech	
						S128K8				TC5588				AMD	
						S32K8				UM6264A				PLDC20G10	
						IDT7M856S				V61C62				MB81C88	
						IDT71024				V62C64				PEEL20CG10	
						IDT8M824L				V63C64				Gould AMI	
						(Continued)				VT20C99				(3442)	
						(Continued)				(Continued)				(Continued)	

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Mitsubishi Electronics (Cont'd)				M5M5256			(Cont'd)	M5M82C37A			(Cont'd)	M5M82C59	NEC		(Cont'd)
M5M5188AP			(Cont'd)		Sharp	LH52256			Newbridge	CA82C37A	(3569)			μPD8259A	
	National	F100165			Sony	LH52259			OKI	MSM82C37A			Newbridge	71059	
	NEC	μPD4362C			Toshiba	CKX58256			S-MOS	SMC82C37A			OKI	CA82C59A	(3569)
	OKI	MSM5188A				TC55257			Samsung	KS82C37A				MSM82C59	
	Samsung	CPL20L8		M5M5256-L	UMC	TC55257A				KS8237A			Samsung	MSM82C59A	
		CPL20L8-35			Dense-Pac	UM62256A			Toshiba	TMF82C37			Toshiba	TMP82C59	
	Sharp	LH5262				DPS92256			VLSI Tech	VL82C37A			UMC	UM8259A	
	Sony	CKX5464AP			Fujitsu	DPS92256L			AMD	AM8237A			VLSI Tech	VL82C59A	
	TI	TIBPAL20L8			Hitachi	MB84256A				D8237A					
		TIBPAL20L8-20			Motorola	HM62256L			Harris	8237A					
	VLSI Tech	VT64K54			NEC	MCM60L256A				CP82C37A					
	Cypress	CY7B166				MCM61256			Intel	82C37A					
		CY7C166			Samsung	μPD43256-L				8037A					
	Fujitsu	MB82B75		M5M5257	Toshiba	KM62256L				82C37A					
	Hitachi	HM6789P				TC55257AL				8237					
	IDT	IDT6198			Cypress	CY7C197				8237A-4					
	LogicDev	L7C164			Dense-Pac	DPS92256				8237A-5					
		L7C165				DPS92256L				MSM82C37A					
		L7C166			Fujitsu	DPS92256L			Mitsubishi	μPD71037					
	Mitsubishi	M5M5189AP				MB81C81A			NEC	μPD8237A					
	Motorola	MCM6290			Hitachi	MB82B81				CA82C37A	(3569)				
	National	54LS152			IDT	HM6707			OKI	MSM82C37A					
	NEC	μPD4363				IDT71257			S-MOS	SMC82C37A					
	Performance	P4C190				IDT71257L			Samsung	KS82C37A					
	S-MOS	SRM2275			LogicDev	IDT71257S				KS8237A					
	Saratoga	SSM7166			MicronTech	L7C197			Toshiba	TMF82C37					
	SGS-Thomson				Motorola	MT5C2561			VLSI Tech	VL82C37A					
		IMS1624			NEC	MCM6207			AMD	D82C54					
		T54LS152			Performance	μPD46251			Harris	CP82C54					
	Sony	CKX5465P			Samsung	P4C1257			Intel	82C54					
	Toshiba	TC55417				KM61257				82C54					
	Vitellic	V61C62			Sharp	IMS1800				8254					
	VLSI Tech	VT65K54		M5M5258	Cypress	LH52251			Mitsubishi	M5M82C54P					
	Cypress	CY7B166			EDI	CY7C194			NEC	μPD71054					
		CY7C166			Fujitsu	ED18465C			Newbridge	CA82C54	(3569)				
	Fujitsu	MB82B75				MB8184			OKI	MSM82C54					
	Hitachi	HM6789P				MB82B84			Samsung	KS82C54					
	IDT	IDT6198			Hitachi	HM6208			VLSI Tech	VL82C54					
	LogicDev	L7C164				HM6708			AMD	D82C54					
		L7C165			IDT	IDT71258			Harris	CP82C54					
		L7C166			MicronTech	MT5C2564			Intel	82C54					
	Mitsubishi	M5M5189			Motorola	MCM6208				82C54					
	Motorola	MCM6290			NEC	μPD43254				8254					
	National	54LS152			SGS-Thomson				Mitsubishi	M5M82C54					
	NEC	μPD4363				IMS1820			NEC	μPD71054					
	Performance	P4C190			Sony	CKX54256			Newbridge	CA82C54	(3569)				
	S-MOS	SRM2275			TI	TMS6708			OKI	MSM82C54					
	Saratoga	SSM7166			Toshiba	TC55464			Samsung	KS82C54					
	SGS-Thomson				VLSI Tech	VT6208			VLSI Tech	VL82C54					
		IMS1624		M5M5517	Allegro	UDN6116				VL82C54					
		T54LS152			Micro	HM6116			M5M82C55A	AMD	D8255A				
	Sony	CKX5465P			Hitachi	MMC2116			Harris	82C55A					
	Toshiba	TC55417			National	MSM2128			Intel	P8255					
	Vitellic	V61C62			OKI	MSM5126				82C55A					
	VLSI Tech	VT65K54				MSM5128				8255A					
	Catalyst					MSM5129			Mitsubishi	M5M82C55AP					
	Semi	CAT71C256			S-MOS	SMC6116			NEC	μPD71055					
		CAT71C256L			SGS-Thomson	SRM2016C				μPD8255A					
	Cypress	CY7C197				ET2128				71055					
	Dense-Pac	DPS92256				MK2817			Newbridge	CA82C55A	(3569)				
		DPS92256L				MK6116			OKI	MSM82C55A					
	GoldStar	GM76C256				LH5115			S-MOS	SMC82C55AC					
	Hitachi	HM61256			Sharp	LH5116			Samsung	KS82C55A					
		HM62256				NE5517			Toshiba	TMF82C55					
		HM64456			Signetics	CKX5816			UMC	UM82C55A	(3689)				
	Hyundai	HY62C256			Sony	UM6116									
		HY63C256			UMC	V61C16			AMD	D8255A					
		HY63C256L			Vitellic	80C39			Harris	82C55A					
	Inova	S32K8		M5M80C39	Intel	TMP80C39			Intel	P8255					
	IDT	IDT7M856S			Toshiba	P8085AH				82C55A					
		IDT71256L			Intel	8085A	(3513)		Mitsubishi	M5M82C55A					
		IDT71256S			Krueger	8085AH	(3513)		NEC	μPD71055					
		IDT8M824				μPD8085				μPD8255A					
	LogicDev	L7C199			NEC	CA80C85B	(3569)			71055					
	MicronTech	MT5C2568			Newbridge	OKI				CA82C55A	(3569)				
	Mosel	MS62256				MSM8085			OKI	MSM82C55A					
	Motorola	MCM60256A			AMD	AM8237A			S-MOS	SMC82C55AC					
	National	NM44251				D8237A			Samsung	KS82C55A					
	NEC	μPD43256B				8237A			Toshiba	TMF82C55					
	OKI	MSM51257JS			Harris	CP82C37A			UMC	UM82C55A	(3689)				
		MSM51257LRS				82C37A			Harris	CP82C59A					
		MSM51257RJ			Intel	8037A				82C59A					
		MSM51257RS				82C37A				82C59A					
	Performance	P4C1256				8237				8259A					
	S-MOS	SRM20256				8237A-4			MicronTech	MT8259					
		SRM20256C				8237A-5			Mitsubishi	M5M82C59AP					
		SRM2257				M5M82C37AP				M5M8259AP					
	Samsung	KM62256			Mitsubishi	μPD71037				INS8259					
		KM68257			NEC	μPD8237A				μPD71059					
			(Continued)				(Continued)				(Continued)				(Continued)

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ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Mosel (Cont'd)				Motorola											
MS6287	National	F1600	(Cont'd)	µA78S40	National	µA78S40		LF357	AD	OP17		LM124A	LinearTech	LT1014	(Cont'd)
	NEC	F1602		AM26LS31	AMD	KA78S40		LM101	National	LF357			National	µA124	
	Performance	µPD4361			National	AM26LS31			AD	OP77		LM124A	SGS-Thomson	LM124A	
	SGS-Thomson	P4C187			Signetics	µA26LS31		LM104	LinearTech	LM101				LM124	
		IMS1600			TI	DS26LS31		LM105	National	µA101		LM137	Signetics	LM124	
	Toshiba	IMS1601		AM26LS32	AMD	AM26LS31		LM107	SiiconG	LM101A	(3642)		SiiconG	SG124	
MS7200	AMD	TC5561			AT&T	AM26LS32		LM108	National	SG104			LinearTech	LM137	
	IDT	TC5562			National	26LS32			AD	µA105		LM138	National	LT137	
MS7202A	Sharp	AM7200		CA3054	Fujitsu	µA26LS32		LM109	SiiconG	LM105	(3642)		SiiconG	LM137	
	AMD	IDT7200			Harris	DM26LS32		LM108A	AD	SG105		LM139	SiiconG	SG137	(3642)
		LH5495			Intel	DS26LS32			LinearTech	OP02			LinearTech	UC137	
		AM67C4502			National	AM26LS32A		LM107	National	OP77		LM139A	Harris	LT138	
		67C4502			TI	26LS32AM			LinearTech	LM107	(3643)		National	CA0139	
	Dallas	DS2010		CA3059	Fujitsu	MB6041		LM108	AD	AD108			Raytheon	LM139	
	IDT	IDT7202		CA3079	Harris	CA3054			AD	AD705			Signetics	LM139	
		IDT7202A		DAC08	AD	CD22354		LM108A	SiiconG	OP97		LM140-12	AD	PM139A	
		IDT7202LA			Intel	CD22354A			LinearTech	PM1008		LM140-15	Harris	CA0139A	
		IDT7202SA			National	2916		LM109	National	PM108			Motorola	LM3302	
	MicronTech	MT52C9010			Samsung	TP3054		LM11	SiiconG	LM108		LM140-18	Raytheon	LM139A	
	Plessey	MV61901		DM54LS299	Signetics	KT8554		LM111	LinearTech	µA108	(3642)	LM140-24	SGS-Thomson	LM139A	
	Samsung	KM75C02			National	ETC5054		LM111A	LinearTech	µA208			Signetics	LM339	
		KM75C02A		HCA6306	TI	CA3059			AD	LM108			National	LM140-12	
	Saratoga	SSL7202		HCA6312	National	CA3079		LM114	SiiconG	SS32R108	(3643)		SiiconG	SG140-12	
	Sharp	LH5497		HCA6324	National	AD		LM114H	AD	AD108A			Unitrode	UC140-12	
	TI	SN74ACT7202			Datel	DAC1508		LM114H	Harris	PM108A		LM148	National	LM140-15	
		TACT7202			National	DAC1C88C			LinearTech	LM108A			SiiconG	SG140-15	
MS7203	Vitelc	V61C02			DAC08	DAC08B		LM114H	National	µA108A			Unitrode	UC140-15	
	AMD	AM7203			DAC0801	DAC0802		LM117	LinearTech	LM108A		LM148	National	LM140-18	
	Cypress	CY7C428			NEC	µPC624			SiiconG	LM108A	(3642)		SiiconG	SG140-18	
	Dallas	DS2011			Raytheon	DAC08		LM117A	AD	LM108A			National	LM140-24	
	IDT	IDT7203			Samsung	KDA0800			LinearTech	LM109		LM150	SiiconG	SG140-24	
		IDT7203LA			Signetics	KDA0802		LM117A	AD	MP311			Toshiba	TA79005	
		IDT7203SA			National	DAC08			SiiconG	LM109			AD	OP11	
	MicronTech	MT52C9020			TI	54LS299		LM117A	LinearTech	LM111			OP400	PM148	
	Samsung	KM75C03			National	SN54LS299		LM117A	AD	LM111			OP470	PM248	
		KM75C102A			National	SCX6306		LM117A	LinearTech	LM111			PM148	XR4741	
	Saratoga	SSL7203			National	SCX6312		LM117A	National	µA111			PM148	HA4741	
	SGS-Thomson				National	SCX6324			SiiconG	SG111	(3643)		PM148	LT1014	
		MK4503			National	SCX6325		LM117A	LinearTech	LS311			PM148	MPOP11	
	Sharp	LH5498			National	SCX6348		LM117A	AD	MP311			PM148	LM248	
MS7204	AMD	AM7204			AD	PM155		LM117A	LinearTech	LM114H			PM148	MC33174	
	Cypress	CY7C432			MicroPwr	PM255			AD	LM114H			PM148	MC4741	
		CY7C433			National	MP255		LM117A	LinearTech	MAT01AH			PM148	µA148	
MS72105	Lansdale	SL5472	(3514)		SGS-Thomson	LF255			AD	MAT01GH			PM148	LM148	
		SN5472			National	LM255		LM117A	LinearTech	MAT02AH			PM148	LM148	
MS72115	TI	IDT72115			SGS-Thomson	LF256			AD	MAT02EH			PM148	RC4741	
MS82C308	IDT	IDT71586			National	LM256		LM117A	LinearTech	LS312			PM148	LM148	
	UMC	UM61166			National	LF347		LM117A	AD	MP312			PM148	LM150	
	Vitelc	V63C308			National	KF347			LinearTech	LM114AH			PM148	LM150	
MS88128	Cypress	CYM1421			National	LF347			AD	MAT01GH			PM148	LM150	
		CYM1421HD			National	27S29		LM117A	LinearTech	MAT02AH			PM148	LM150	
	Dense-Pac	DPS128M8			National	OP15			AD	MAT02EH			PM148	LM150	
		DPS128M8L			National	PM157		LM117A	LinearTech	LS312			PM148	LM150	
		DPS41288	(3376)		National	PM157A			AD	MP312			PM148	LM150	
		DPS41288LP	(3376)		National	HL7649		LM117A	LinearTech	LM114AH			PM148	LM150	
					National	LF157A			AD	MAT01AH			PM148	LM150	
	EDI	EDH8M8128			National	LF351			LinearTech	MAT01GH			PM148	LM150	
		EDH8M8128C			National	LF353		LM117A	AD	MAT02AH			PM148	LM150	
		EDH8832			National	µPC157			LinearTech	LS312			PM148	LM150	
		EDH88130C			National	29621		LM117A	AD	MP312			PM148	LM150	
		EDH88130C-100			National	KF351			LinearTech	LM117A			PM148	LM150	
		EDH88130C-55			National	PLS157		LM117A	AD	TL117			PM148	LM150	
		EDH88130C-70			National	LF351			LinearTech	UC117			PM148	LM150	
		EDH88130C-90			National	LF353		LM117A	AD	LM117A			PM148	LM150	
	Harris	HM8832			National	µPC157			LinearTech	LM117A			PM148	LM150	
	Hyundai	HY63C256			National	29621		LM117A	AD	MP312			PM148	LM150	
	Inova	S128K8			National	KF351			LinearTech	LM117A			PM148	LM150	
		S32K8			National	PLS157		LM117A	AD	TL117			PM148	LM150	
	IDT	IDT7M856S			National	LF351			LinearTech	UC117			PM148	LM150	
		IDT71024			National	LF353		LM117A	AD	LM117A			PM148	LM150	
		IDT8M824			National	OP15			LinearTech	LM117A			PM148	LM150	
		IDT8M824L			National	OP43		LM123	SiiconG	SG117A	(3642)		PM148	LM150	
	LogicDev	L7C199			National	LF355			AD	LM123			PM148	LM150	
	Mitsubishi	M5M51008P			National	LF355		LM124	LinearTech	µA123			PM148	LM150	
	Mosaic	MSM8128S			National	PM355A			AD	µA138			PM148	LM150	
	Peps	S128KX8	(3573)		National	LM123		LM124	LinearTech	LM123			PM148	LM150	
	Samsung	KM681000L			National	SH123			AD	SG123			PM148	LM150	
		CXK581000P			National	LM124		LM124	LinearTech	LM124			PM148	LM150	
	Sony	CXK581001P			National	OP16			AD	LM124			PM148	LM150	
	Toshiba	TC551001PL			National	LF356		LM124	LinearTech	ZN518			PM148	LM150	
	UMC	UM621024			National	LF356			AD	LM124			PM148	LM150	
					National	OP16		LM124A	LinearTech	LM124			PM148	LM150	
					National	PM356A			AD	OP400			PM148	LM150	
					National	OPA356A	(3329)		AD	CA0124			PM148	LM150	
					National				AD				PM148	LM150	

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				LM2900	Hitachi Motorola National	HA17301 MC3301 LM2900		LM309			(Cont'd) (3642)	LM340-15	National SiliconG TI	LM340-15 SG340-15 LM340-15	
LM208	SiliconG	SG209	(Cont'd)			LM3301		LM311	SiliconG AD	SG309 AD311		LM340-18	Unitrode National Samsung	UC340-15 LM340-18 KA340T18	
LM208A	AD	AD208A OP97 PM208A	(3250)	LM2901	TI AD IDT	LM2900 PM139 IDT39C01			Harris LinearTech National	CA0311 LM311 μA311		LM340-20	SiliconG TI	SG340-18 LM340-18	(3642)
LM211	National	μA208A LM208A			Motorola National	MC3302 μA2901			Samsung	LM311		LM340-24	National SiliconG	LM340-20 LM340-24	(3642)
	AD	AD211 PM211				LM2901 LM3302			SGS-Thomson	LM311		LM3403	National SiliconG	SG340-24 AD400	(3642)
	National	LM211			Samsung	LM2901 LM3302			Signetics	LM311			Exar	XR3403 XR3503	
	SGS-Thomson	LM211			SGS-Thomson	LM2901 MC3302		LM317	Toshiba Lambda	TA75393 LLM317			Harris	HA5134	
	Signetics	LM211	(3643)			LM2901 MC3302			LinearTech	LM317			Motorola	MC33174	
	SiliconG	SG211			Signetics	LM2901 MC3302			National	μA317			National	μA324	
LM217	TI	LM211			TI	LM3302			NEC	LM317			Samsung	μA3403	
	National	LM217			Toshiba	TA75339			Samsung	LM317			Signetics	MC3403	
	SGS-Thomson	LM217		LM2902	AD	OP400				LM317L				LM324	
	SiliconG	SG217 SG217A	(3642) (3642)		GoldStar	GL324			SGS-Thomson	LM317			TI	MC3403	
	Unitrode	UC217			Hitachi	HA17902				LM317			AD	TLE2024	
LM223	VTC	VM217	(3714)		Motorola	MC33174			SiliconG	SG317	(3642)	LM348	OP11	PM248	(3247)
	National	μA223 LM223			National	μA324			TI	UC317			Exar	XR4751	
	SGS-Thomson	LM223			NEC	μPC451			Unitrode	LM317M			GoldStar	GL348	
		LM223			SGS-Thomson	LM2902		LM317M	National	LM317M			Harris	LM348	
LM224	SiliconG	SG223			Signetics	LM324			NEC	LM317M			National	μA348	
	AD	OP400			TI	LM2902		LM323	Samsung	LM317M			Samsung	LM348	
	National	μA224		LM2903	Toshiba	TA75902			LinearTech	LM323			TI	LM348	
		LM224			National	μA2902			National	μA323			LinearTech	LM350	
	Plessey	ZN448				LM2902			SGS-Thomson	LM323		LM350	National	μA350	
	Samsung	LM224			Samsung	LM2902				LM323				LM350	
		LM224A				LM2903		LM324	SiliconG	SG323			NEC	LM350	
	Signetics	LM224			SGS-Thomson	LM2903			AMD	LM324			SiliconG	SG350	(3642)
LM224A	TI	LM224			Signetics	LM2903		LM324	Fujitsu	MB3614		LM350-08	Unitrode	UC350	
	Plessey	ZN501			TI	LM2903			Harris	CA0224			National	LM340-08	(3642)
LM237	National	LM237	(3642)	LM2904	Harris	CA2904			CA0324	LM324		LM358	GoldStar	GL358	
	SiliconG	SG237 SG237A	(3642) (3642)		National	LM2904			Hitachi	HA17324			Harris	CA0358A	
	Unitrode	UC237			Samsung	LM2904			National	LM224				LM358	
LM239	AD	PM239			SGS-Thomson	LM2904			Raytheon	LM324			Hitachi	HA17358	
	Harris	CA0239				LM2904			Samsung	LM324			National	LM358	
	National	μA239			TI	LM2904			SGS-Thomson	LM324			Samsung	LM358A	
		μA250		LM293	Toshiba	TA75358				LM324				LM358	
	Samsung	LM239			National	LM293		LM3302	TI	LM324			SGS-Thomson	LA6358	
	SGS-Thomson	LM239			Samsung	LM293			AD	PM139A				LM358	
		LM239			Signetics	LM293			Harris	CA0139A			Signetics	NE532	
	Signetics	LM239			TI	LM293			Motorola	LM139A			TI	LM348	
LM239A	TI	LM239		LM301	AD	AD301			National	LM139A		LM385	Toshiba	TA75358	
	Harris	CA0239A			Harris	CA0301A			Raytheon	LM139A			Maxim	ICL8069	
	National	LM239A			LinearTech	LM301			SGS-Thomson	LM139A			MicroPwr	MP5010	
LM248	AD	OP11			National	μA301			Signetics	LM339			National	LM385	
		OP400				LM301A		LM337	LinearTech	LM337			TeledyneS	TSC04	
		OP470				LM301A			National	LM337				TSC05	
	Exar	PM148				LM301A				LM337			LM385-2.5	LM336-2.5	
	Harris	PM248	(3247)			LM301A			Signetics	LM337				REF25	
	LinearTech	XR4741				LM301A			LinearTech	LM337			Plessey	TSC05	
	LT1014	HA4741				LM301A			National	LM337			TI	LM385-2.5	
	MicroPwr	LT1014			NEC	μPC301			SGS-Thomson	LM337			NEC	μPC393C	
	Motorola	MP0P11			Samsung	KA301				LM337			Samsung	LM393	
		LM148			SGS-Thomson	LM301			SiliconG	SG337 SG337A	(3642) (3642)	LM393	Sanyo	LM393A	
		MC33174				LM301A			TI	UC337			SGS-Thomson	LA6393	
		MC4741				LM301A			Unitrode	UC337				LM393	
	National	μA148				LM301A			NEC	LM337M			Signetics	LM393	
		LM148			SiliconG	SG301		LM337M	Samsung	KA337M			TI	TA75393	
	Raytheon	LM148			TI	μA301			GoldStar	GL339			Toshiba	MB47393	
		RC4741				LM301A			Harris	CA0339		LM3930	National	μPC277	
	SGS-Thomson	LM148				LM301A				CA0339A			NEC	TA75393	
	TI	LM148				LM301A			National	μA339			Toshiba	CA3065	
LM250	National	LM250				LM301A				LM339			Samsung	KA2101	
	SiliconG	SG250	(3642)		LM304	LM304			NEC	μPC137				TA7176	
	Unitrode	UC250			LM305	μA305				μPC177			MCA500	MCA500	
LM258	Harris	CA0258			LM305	LM305			Raytheon	LM339			LM393	LM393	
	National	LM258A			LM305	LM305			Samsung	LM339			TI	LM393	
	Samsung	LM258			LM305	LM305				LM339A			Toshiba	TA75393	
		LM258A				LM305			SGS-Thomson	LM339A			National	μPC277	
	SGS-Thomson	LM258			LM308	AD308				LM339			NEC	μPC277	
		LM258				OP97			TI	LM339			Toshiba	TA75393	
	Signetics	LM258				PM1008			Toshiba	TA75339			Harris	CA3065	
LM285	TI	LM258				PM1012			National	LM340-5			Samsung	KA2101	
	Ericsson	PBL3726				PM308		LM340-05	SiliconG	SG340-05	(3642)		Toshiba	TA7176	
	Maxim	ICL8069				LM308			Unitrode	UC340-05			National	MCA500	
	MicroPwr	MP5010				LM308			Samsung	KA340T06			Lansdale	MLE5H00	
	National	LM285			LM308A	AD308A			Samsung	KA340T08				MLE54H01	
	Samsung	KA2412A				μA308A			Samsung	KA340T12				MLE54H04	
		LS285A				LM308A			SiliconG	SG340-12	(3642)			MLE54H10	
	SGS-Thomson	LS285A			LM309	μA309			Unitrode	UC340-12				MLE54H146	
						LM309				UC7812				MLE54H20	
			(Continued)				(Continued)				(Continued)				(Continued)

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
• MCE54H31	Lansdale	MLE54H31		MCM1423	S-MOS	SRM2268		MCM2018A	Saratoga	SSM6116		• MCM27S19	Signetics	N82S123	
• MCE54H40	Lansdale	MLE54H40			VLSI Tech	CT64KS4			Sony	CKX5814P				N82US123	
• MCE54H51	Lansdale	MLE54H51		MCM145101	Harris	VT2068			Toshiba	TC2018		• MCM27S25	AMD	AM21L49	
• MCE54H54	Lansdale	MLE54H54			Intel	HA5101			UMC	UM6116-35 (3688)				AM27S25	
• MCE54H56	Lansdale	MLE54H56			MicroNet	5101		• MCM2018P	Vitellic	V16C16			Cypress	AM27S25A	
• MCE54H57	Lansdale	MLE54H57			Mitsubishi	MN5101	(3547)		VLSI Tech	VT20C19				CY21L49	
• MCE54H79	Lansdale	MLE54H79			Motorola	M5L5101			AD	ADG506A	(3237)		National	CY7C225	
• MCE54103	Lansdale	MLE54H103			Motorola	MCMS1L01			Cypress	CY6116				DM77SR25	
• MCE74H00	Lansdale	MLE74H00			National	MM74C920			EDI	ED18802				DM77SR25B	
• MCE74H01	Lansdale	MLE74H01			Panasonic	MNS101			Harris	DG506A				DM77SR476	
• MCE74H10	Lansdale	MLE74H10		• MCM146518	Sharp	LH5101		• MCM2018P		HM6516				DM77SR476B	
• MCE74H146	Lansdale	MLE74H146			Fujitsu	MB8401			Hitachi	HM65162				DM87SR25	
• MCE74H20	Lansdale	MLE74H20			Harris	HM6508		• MCM2018P	IDT	HM6719				DM87SR25B	
• MCE74H31	Lansdale	MLE74H31				IM6508-1			IDT	IDT6116				DM87SR474	
• MCE74H40	Lansdale	MLE74H40		• MCM146518	National	MM74C929		• MCM2018P	Intel	IDT6116A				DM87SR476B	
• MCE74H51	Lansdale	MLE74H51				NM2102			LogicDev	IDT6116S		• MCM27S35	AMD	AM27S35	
• MCE74H54	Lansdale	MLE74H54		• MCM2016	AD	ADG506A	(3237)	• MCM2018P	Maxim	81C28				AM27S37	
• MCE74H56	Lansdale	MLE74H56			Cypress	CY6116			MicronTech	L76116			Cypress	CY7C235	
• MCE74H57	Lansdale	MLE74H57			EDI	ED18802			Motorola	DG506A		• MCM2716	National	DM87SR181	
• MCE74H79	Lansdale	MLE74H79			Harris	DG506A				MT51C1608			Harris	HM6617	
• MCE74103	Lansdale	MLE74103				HM6516		• MCM2018P		MCM2018A			Krueger	2716-350 (3513)	
• MCE930	Lansdale	MLE930		• MCM2016	Hitachi	HM6716			Performance	MCM6116				2716-450 (3513)	
• MCE932	Lansdale	MLE932			IDT	HM6719		• MCM2018P	P4C116					2716T-350 (3513)	
• MCE933	Lansdale	MLE933		• MCM2016	IDT	IDT6116			Saratoga	SSM6116		• MCM2716	National	MM2716	
• MCE936	Lansdale	MLE936				IDT6116A			Sony	CKX5814P			OKI	MSM2716	
• MCE944	Lansdale	MLE944		• MCM2016	Intel	IDT6116S			Toshiba	TC2018			SGS-Thomson	M2716	
• MCE945	Lansdale	MLE945			LogicDev	81C28		• MCM2018P	UMC	UM6116-35 (3688)		• MCM2801	Microchip	ER59256	
• MCE946	Lansdale	MLE946		• MCM2016	Maxim	L76116			Vitellic	V16C16		• MCM4016	Harris	CD4016B	
• MCE948	Lansdale	MLE948			MicronTech	DG506A		• MCM21L14	VLSI Tech	VT20C19			Motorola	MC14016	
• MCE962	Lansdale	MLE962			Motorola	MT51C1608			AMD	AM9114				MC14066	
• MCM51L01	Harris	HA5101		• MCM2016	Performance	MCM2018A			Intel	2114A		• MCM4016	National	CD4016	
	Intel	5101				MCM6116			Krueger	2114-150 (3513)				CD4066	
	MicroNet	MN5101	(3547)	• MCM2016	P4C116			• MCM21L14	Mitsubishi	2114-200 (3513)				F4016	
	Mitsubishi	M5L5101			Saratoga	SSM6116			Motorola	2114-450 (3513)				F4066	
	Motorola	MCM145101			Sony	CKX5814P		• MCM21L14	National	M5L2114		• MCM4016	SGS-Thomson	HCC4016	
	National	MM74C920			Toshiba	TC2018				F2114				HCC4066	
	Panasonic	MNS101			UMC	UM6116-35 (3688)		• MCM21L14	OKI	NMC2114A		• MCM4016	Signetics	HCF4016	
	Sharp	LH5101			Vitellic	V16C16			Rockwell	MSM2114				HCF4066	
• MCM100422	Fujitsu	MBM100422A		• MCM2016H	VLSI Tech	VT20C19	(3237)	• MCM21L14	Sharp	R6514		• MCM4016	Toshiba	HEF4016	
	Hitachi	HM100422			AD	ADG506A			Toshiba	TMM2114A		• MCM4016		TC4016B	
	National	DM100422			Cypress	CY6116		• MCM2114	UMC	UM6114				TC4066B	
		F100422			EDI	ED18802			AMD	AM9114		• MCM4016	Unitrode	PIC7516	
• MCM100422	NEC	μPB100422			Harris	DG506A			Intel	2114A		• MCM4116B	Krueger	4116-120 (3513)	
	Signetics	100422A		• MCM2016H	Hitachi	HM6516			Krueger	2114-200 (3513)				4116-150 (3513)	
		100422B				HM6719		• MCM2114	Mitsubishi	2114-450 (3513)				4116-200 (3513)	
• MCM100422	Vitesse	VS12G422E		• MCM2016H	IDT	IDT6116			Motorola	M5L2114		• MCM4116B	National	F16K	
MCM100470	Fujitsu	MBM100470A				IDT6116A			National	M5L2114				MM5290	
	Hitachi	HM100470				IDT6116L		• MCM2114		F2114		• MCM4116B	OKI	HYB4116	
	Hyundai	HY53C256				IDT6116S			OKI	MSM2114			Siemens	2690	
	National	DM100470		• MCM2016H	Intel	81C28			Rockwell	R6514		• MCM41464	Signetics	MB61461	
	NEC	μPB100470			LogicDev	L76116			Sharp	LH2114			Fujitsu	MB81464	
	Vitellic	V51C257			Maxim	DG506A			Toshiba	TMM2114A			Hitachi	HM50464	
MCM100474	Cypress	CY100E474L			MicronTech	MT51C1608		• MCM2167	UMC	UM6114				HM53461	
	Fujitsu	MBM100474A		• MCM2016H	Motorola	MCM6116			AMD	AM2167			Hyundai	HY53C464	
	Hitachi	HM100474			Performance	P4C116			Cypress	CY7C167A			IDT	DPS9264	
	National	DM100474			Saratoga	SSM6116			Harris	HM65262			Krueger	4464-100 (3513)	
		F100474			Sony	CKX5814P			Hitachi	HM6267				4464-120 (3513)	
	NEC	μPB100474A			Toshiba	TC2018			IDT	IDT6167				4464-150 (3513)	
• MCM10141	Saratoga	SSM100474			UMC	UM6116-35 (3688)			Intel	51C66				4464-120 (3513)	
	Motorola	MC10141			Vitellic	V16C16			LogicDev	51C67					
	Signetics	10141		• MCM2018	VLSI Tech	VT20C19			MicronTech	L7C167					
MCM10144	National	F10144			Cypress	CY7C128A			MicronTech	MT5C1601					
MCM10146	National	DM10415			GoldStar	GM76C28			Mitsubishi	M5M21C67					
	Siemens	GXB10415			LogicDev	L6116			NEC	μPD4311					
MCM10149	Signetics	10149			MicronTech	MT5C1608			S-MOS	SRM2267					
		10149A (3608)			Sony	CKX5814				SRM2367					
MCM10152	National	DM10414			Vitellic	V61C16			Saratoga	SSM6167					
• MCM10422	Fujitsu	MBM10422A			VLSI Tech	VT20C18			SGS-Thomson	IMS1403					
	Hitachi	HM10422			AD	ADG506A	(3237)			MK41H66					
	National	DM10422			Cypress	CY6116				MK41H67					
	NEC	μPB10422			EDI	ED18802		• MCM2532	Sharp	LH5167					
• MCM10470	Fujitsu	MBM10470A			Harris	DG506A			Krueger	2532-350 (3513)					
	Hitachi	HM10470				HM6516		• MCM2532	National	MM2532					
	National	DM10470				HM65162				NMC2532					
	NEC	μPB10470				HM6719				TDA2530					
	Saratoga	SSM10470				IDT6116				TDA2532					
• MCM10474	Cypress	CY10E47L				IDT6116A		• MCM2532	Plessey	TDA2530					
	Fujitsu	MBM10474A				IDT6116L				AM27LS19					
	Hitachi	HM10474				IDT6116S		• MCM27S19	AMD	AM27S19					
	National	DM10474				81C28				27S19					
• MCM10474	NEC	μPB10474				L76116		• MCM27S19	Fujitsu	MB7112					
		μPB10474A				DG506A			Lansdale	HL7603					
• MCM10474	Saratoga	SSM10474				MT51C1608			National	DM74S288					
	Mitsubishi	M5M21C68				MCM6116				DM8578					
MCM1423	Motorola	μM61L64				Performance	P4C116								
	NEC	μPD4134													

• Discontinued

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
Motorola (Cont'd)				MCM6207	Cypress Dense-Pac	CY7C197 DPS92256 DPS92256L		MCM6265	Cypress	CY7C182 CY7C185 CY7C186		MCM6289	Intel LogicDev	M51C98 L7C164 L7C166	(Cont'd)	
MCM6164C	OKI	(Cont'd)			Fujitsu	MB81C81A MB82B81			EDI	ED18808			MicronTech	MT5C6404		
	S-MOS	MSM5165 MSM5188 SRM2064 SRM2264			Hitachi	HM6207 HM6707			Fujitsu	MB82B79			National	F100181 1621		
	Samsung	KM6264 KM6264A			IDT	IDT71257 IDT71257L IDT71257S			Harris	HM65642			S-MOS	SRM2274		
	Sharp	LH5164 LH5165							IDT	DPS9264 IDT7164 IDT7164S			Toshiba	TC55417		
	Sony	CXK5164P CXK5863P CXK5864 CXK5865 CXK5865P			LogicDev	L7C197				MT5C6408			VLSI Tech	CT64KS4		
					MicronTech	MT5C2561			MicronTech	MT5C6408			Cypress	CY7B166		
					Mitsubishi	M5M5257			Mitsubishi	M5M5179				Fujitsu	MB82B75	
					NEC	μPD46251			Mosel	MS6264			Hitachi	HM6789P		
					Performance	P4C1257			Motorola	MCM6264			IDT	IDT6198		
					Samsung	KM61257			National	NMC6164			LogicDev	L7C164		
	Toshiba	TC5563 TC5565A (3682) TC5588			SGS-Thomson	P4C164			NEC	μPD4364				L7C165		
						IMS1800			Performance	P4C164				L7C166		
	UMC	UM6264A			Sharp	LH52251			SGS-Thomson	IMS1630			Mitsubishi	M5M5189		
	Vitellic	V61C62 V62C64 V63C64		MCM6208	Cypress	CY7C194			Sony	CXK55863				M5M5189AP		
					EDI	ED18465C			Toshiba	TMM2088P			National	54LS152		
					Fujitsu	MB8184			UMC	UM6164			NEC	μPD4363		
						MB82B84			Vitellic	V63C64P			Performance	P4C190		
	VLSI Tech	VT20C99			Hitachi	HM6208			VLSI Tech	VT20C98			S-MOS	SRM2275		
MCM6168	AMD	AM2168				HM6708		MCM6268	Cypress	CY7C168A			Saratoga	SSM7166		
	Fujitsu	MB81C68A			IDT	IDT71258			Hitachi	HM6268			SGS-Thomson	IMS1624		
	Hitachi	HM6168HP			MicronTech	MT5C2564			IDT	IDT6168				T54LS152		
		HM6268L			Mitsubishi	M5M5258				IDT6168SA			Sony	CXK5465P		
	IDT	IDT6168A IDT6168L IDT6168LA IDT6168S			NEC	μPD43254			Mitsubishi	M5M2168			Toshiba	TC55417		
					SGS-Thomson	IMS1820			NEC	μPD4314C			Vitellic	V61C62		
						CXK54256			Performance	P4C168			VLSI Tech	VT65KS4		
	Intel	51C68			Sony	TMS6708			SGS-Thomson				Performance	P4C1595		
	LogicDev	L7C168			Toshiba	TC55464				MK41H68			MCM6295	Microchip	MT58C1616	
	Mitsubishi	M5M21C68P			VLSI Tech	VT6208			Sony	CXK5416			MCM62990	MicronTech	MT5C2516	
	NEC	μPD4314		• MCM6256	Fujitsu	MB81256			UMC	CXK5416D		• MCM63128	AMD	AM9128		
	Ricoh	PS6168			Hitachi	HM50256			Vitellic	UM6128-35			Gould AMI	S23128		
	SGS-Thomson	IMS1423				HM50257			VLSI Tech	V61C68			Microchip	RO9128		
				• MCM6256	Hyundai	HY51C256				VL20C68			NCR	NCR23128		
						HY53C256				VT20C68			Signetics	23128		
	Sony	CXK5416P/K		• MCM6256	Mitsubishi	MSM4257		MCM6269	Cypress	CY7C169A			UMC	UM23128		
	Toshiba	TMM2068AP				M5M4256			Fujitsu	MB81C69A			VLSI Tech	VT23128		
	VLSI Tech	VT2069		• MCM6256	Motorola	M5M4257			MicronTech	MT5C1604				VT23129		
MCM6187	Cypress	CY7C187			NEC	MT1259			Performance	MT5C1604				VT23129A		
	EDI	ED18164			OKI	μPD41256			Saratoga	P4C169				VT23130		
	IDT	IDT7187				MSM37256			SGS-Thomson	SSM6168				VT23138		
		IDT7187L				MSM37257A						• MCM63256	Catalyst	CAT71C256		
	LogicDev	L7C187				MSM41256		MCM6270	S-MOS	SLA6270			Semi	S23256		
	MicronTech	MT5C6401		• MCM6256	Samsung	KM41256		MCM6271	SGS-Thomson				Gould AMI	NCR23256		
	Mosel	MS6287				KM41256A							NCR	NCR23257		
	Motorola	MCM6287		• MCM6256	Vitellic	V51C257			VLSI Tech	MK4170		• MCM63256	OKI	MSM38256		
	National	F1600				V53C256				CT2078			Panasonic	MN23256		
		F1602		• MCM6256	Western	WCM41256		MCM6287	Cypress	CT2079				MN23257		
	NEC	μPD4361		MCM6256B	Krueger	41256-100 (3513) 41256-120 (3513) 41256-150 (3513)			CY7C187			• MCM63256	S-MOS	SMM23256		
	Performance	P4C187							EDI	IDT7187				SMM6325		
	SGS-Thomson								IDT	IDT7187L				SMM6326		
		IMS1600							LogicDev				• MCM63256	Signetics	23256	
		IMS1601			MicronTech	MT1259			MicronTech	L7C187				23256A		
	Toshiba	TC5561			Mitsubishi	M5M4256A				MT5C6401			• MCM63256	Toshiba	TC53257	
		TC5562			OKI	MSM37256A			Mosel	MS6287				VLSI Tech	VT23256	
		CY7B164			Panasonic	MN41256			Motorola	MCM6187					VT23257	
MCM6188	Cypress	MB81C74			Samsung	KM41256A			National	F1600			MCM67256	ATMEL	AT27HC256	
	Fujitsu	MB82B74			Siemens	HYB41256				F1602				Catalyst		
		MB82B74			Vitellic	V51C257				μPD4361				Rsch	27256	
	Hitachi	HM6288		• MCM6257		V53C256			NEC	Performance				Intel	M27256	
		HM6788			Hitachi	HM50257			Performance	P4C187					P27257	
	IDT	DPS9264			Vitellic	V51C257			SGS-Thomson						27256	
		IDT7188		• MCM6257B		V53C256										
		M5M5188			Hitachi	HM50257										
	Motorola	MCM6288			Vitellic	V51C257			Toshiba	TC5561				Krueger	27256-200 (3513)	
		NEC				V53C256				TC5562					27256-250 (3513)	
		μPD4362				V53C256				CY7B164					27256-300 (3513)	
	Performance	P4C188				CY7C182		MCM6288	Cypress	MB81C74					27256-300 (3513)	
	Saratoga	SSM7188				CY7C185			Fujitsu	MB82B74						
	SGS-Thomson					CY7C186				MB82B74						
						EDI8808			Hitachi	HM6288						
						MB82B79				HM6788						
						Harris			IDT	DPS9264						
						IDT				IDT7188						
										M5M5188						
										Motorola						
										MCM6188						
										NEC						
										μPD4362						
										P4C188						
										Saratoga						
										SSM7188						
										SGS-Thomson						

• Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
• MCM68A332	Signetics	2332		MCM76101	Waferscale	WS57C191		• MCM7649	Samsung	KF351		MCM93415	AMD	AM6685	
		2632A				WS57C291B			Signetics	PLS157			AD	AM685	
• MCM68A332	TI	D51C69		MCM76160	AMD	AM27S191			TI	LF351			Honeywell	HCMP96850	
		P51C69				AM27S191A		• MCM7680	National	DM87S180		• MCM93422A	National	93415	
• MCM68A332	VLSI Tech	VT2332			ATMEL	AM27S191SA				DM87S229			Plessey	SP9683	
MCM68B10	National	F68B10				AT27S191		• MCM7681	AMD	AM27S181			Signal Proc	HCMP96850	
MCM6810	Hitachi	HD6810				AT27S191L			Cypress	CY7C282M			AMD	AM9122	
	Motorola	MC6810				CY7C291			Gould AMI	S25089			Cypress	CY7C122	
• MCM68364	NCR	NCR2364			Cypress	CY7C292			Hitachi	HN25089		• MCM93425	Performance	P4C22	
	OKI	MSM3864				CY7C292AL			Lansdale	HL7681				P93U422	
	Plessey	SL2364C				CY7C292A			National	DM77LS181			Elantec	EDH0008	
	S-MOS	SMM2364			Hitachi	HN25169				DM77S181		• MCM93425	National	93425	
	Sharp	LH2364A			Motorola	MCM76101				DM77S281		MC08	GoldStar	GL7808	
	Signetics	2364			National	DM77S191				DM77S281			Samsung	MC7808	
	TI	TMS2364				DM87S191		• MCM7681	Raytheon	29631			SGS-Thomson	μA7808	
	VLSI Tech	VT2364				DM87S291				29631AM				L7808	
	Weitek	SC8164				DM87S291A		• MCM7681	Signetics	N82S181		MC10H119	Toshiba	TA78008	
• MCM68365	Signetics	2364				DM87S291B				S82S181			Harris	CD74HC4352	
		2664				93Z510		• MCM7681	STC	STC5089			Motorola	MC74HC4352	
• MCM68366	Microchip	RO9464				93Z511			TI	28586-60			National	MM74HC4352	
	National	MM52164				93Z512		• MCM7681	AMD	AM27S185			Signetics	74HC4352	
	Signetics	26S64			Signetics	93Z511				27S185			Toshiba	TC74HC4352A	(3674)
		2664				82S191		• MCM7685		MB7128		MC10H176	Motorola	MC10H179	
• MCM68369	Microchip	RO39365				TBP38L166		• MCM7685	Fujitsu	HN25085		MC10H179	Motorola	MC10H176	
		RO9864				TMS27C291			Hitachi	HL7685		MC10100	Signetics	10100	
• MCM68369	Mitsubishi	M5M23C64				TMS27C292			Lansdale	DM87S185		MC10101	Signetics	10101	
	National	F3568				WS57C191			National	29651		MC10102	Signetics	10102	
		F3569			Waferscale	WS57C291B			Raytheon	29651A		MC10103	Signetics	10103	
		F3570				WS57C291B		• MCM7685	Signetics	N82S185		MC10104	Signetics	10104	
		MM52264				XL46C15				S82S185		MC10105	Signetics	10105	
		NM52264				HM6617		• MCM7685	TI	24S81-55		MC10106	Signetics	10106	
• MCM68369	OKI	MSM3864				IM6716				MB85230		MC10107	Signetics	10107	
	Panasonic	MN2364				HL76161		• MCM7685	Fujitsu	HB56A18		MC10109	Signetics	10109	
	SGS-Thomson					DM77S291		MC81000	Hitachi	MT8C8024		MC10110	Signetics	10110	
		MK37000				DM77S291A				MT8C8024M		MC10111	Signetics	10111	
	TI	TMS2364				93Z511M			MicronTech	MH1M08A		MC10114	Signetics	10114	
• MCM68370	Microchip	RO39365				29681				MH1M08BOJ		MC10115	Signetics	10115	
		RO9864				29681A			Mitsubishi	MC421000A8		MC10116	National	DM10116	
• MCM68370	Mitsubishi	M5M23C64				29683				MSC231148			Signetics	10116	
	National	F3568				29683A			NEC	MSC2313AY58		MC10117	Signetics	10117	
		F3569				WS57C191			OKI	1MX8		MC10118	Signetics	10118	
		F3570				WS57C291B				KMM581000A		MC10119	Signetics	10119	
		MM52264				AM2864B			Peps	MPR68CTE64		MC10121	Signetics	10121	
• MCM68370	OKI	MSM3864				AT286C4			Samsung	TM024GAD8		MC10123	Signetics	10123	
	Panasonic	MN2364				AT28HC64			TI	THM81000		MC10124	Signetics	10124	
	SGS-Thomson					AT28PC64				THM81000A		MC10125	Signetics	10125	
		MK37000				HL76165			Toshiba	UT67164		MC10129	Signetics	10129	
	TI	TMS2364				29653				UT7164		MC10130	Signetics	10130	
MCM6845	Fujitsu	MB89321BP				KM28C65			UTMC	UT7164		MC10131	Signetics	10131	
MCM76	AMD	AM27S191				82HS195				MB85235		MC10132	Signetics	10132	
		AM27S291				HL7620				HB56A19		MC10133	Signetics	10133	
		AM27S291A				ICL7621		• MCM7620	Fujitsu	HB56A19B		MC10134	Signetics	10134	
		AM27S291SA				ICL7621		• MCM7621	Hitachi	HB58A19		MC10135	Signetics	10135	
		CY7C291				ICL7621				MT8C9024		MC10136	Signetics	10136	
	Fujitsu	MB7138				MP7621			MicronTech	MT8C9024M		MC10137	Signetics	10137	
	National	DM878291				DM74S571				MH1M09		MC10141	Signetics	10141	
		93Z511				DM74S571A				MC421000A9		MC10158	Signetics	10158	
		29683A				N82S131			Mitsubishi	MSC2310Y59		MC10159	Signetics	10159	
		TBP38A166				S82S131				MSC2317AY59		MC10160	Signetics	10160	
		TBP38S166				HL7640				PEP1MX9		MC10161	Signetics	10161	
	Waferscale	WS57C191				DM74S475		• MCM7640		KMM591000A		MC10162	Signetics	10162	
		WS57C291B				DM77S475			Peps	HYM910005		MC10164	Signetics	10164	
MCM76101	AMD	AM27S191				DM87S475			Samsung	TM024GAD9			TI	SN10164	
		AM27S191A				DM77S475			Siemens	THM91000		MC10165	Signetics	10165	
		AM27S191SA				S82S141		• MCM7641	TI	THM91000A		MC10171	Signetics	10171	
		27S191				HL7642			Toshiba	93L415		MC10172	Signetics	10172	
	ATMEL	AT28HC191				DM54S572				AM93422		MC10173	Signetics	10173	
		AT28HC191L				93452				CY93422AC		MC10174	Signetics	10174	
	Cypress	CY7C291				AM27S33		• MCM7642	National	CY93422C			TI	SN10174	
		CY7C292				MB7122				93422AC		MC10175	Signetics	10175	
		CY7C292AL				HL7643				P4C422		MC10178	National	F10178	
	Hitachi	HN25169				DM74S573		• MCM7643	Cypress	P4C422-10C		MC10179	Signetics	10179	
	Motorola	MCM76160				DM54S573A				VS12G422T		MC10180	Signetics	10180	
	National	DM77S191				OP15		• MCM93L422	National	AM93L422A		MC10181	Signetics	10181	
		DM87S191				PM157				AM93L422A		MC10188	Signetics	10188	
		DM87S291				PM157A		• MCM93L422	Performance	CY93L422		MC10189	Signetics	10189	
		DM87S291A				HL7649				CD22212		MC10192	Signetics	10192	
		DM87S291B				LF351		• MCM93L422A	Vitesse	93L422		MC10210	Signetics	10210	
		93Z510				LF157A			AMD	93L422A		MC10211	Signetics	10211	
		93Z511				μPC157				93L425		MC10216	National	F10216	
		93Z512				29621		• MCM7649					Signetics	10216	
		93Z511										MC10231	Signetics	10231	
		N82S191						• MCM7649	Cypress	CY93L422		MC10319	Harris	CA3318	
		82S191A								93L422A			Hitachi	HA19209	
		82S191						• MCM93L422A					NEC	μPD6950	
		TBP38L166							Harris	CD22212		MC12015	National	DS8615	
		TMS27C291							National	93L422		• MC12016	National	DS8616	
		TMS27C292								93L425			Plessey	SP8793	
												MC12017	National	DS8617	

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				SGS-Thomson (Cont'd)				(Cont'd)				(Cont'd)			
MC12020	AD	AD7628		MC14000B	SGS-Thomson	HCF4000		MC14014	SGS-Thomson	HCC4014		MC140194B	National	F40194	
	Dionics	DI604A				HCF4000B				HCF4014			SGS-Thomson	HCC40194	
	Maxim	AD7628			Signetics	HEF400			Signetics	HEF4014				HCC40194B	
	MicroPwr	MP7628			Toshiba	TC4000B			Toshiba	TC4014B				HCF40194	
	SGS-Thomson			MC14001	Harris	CD4001B		MC14015	Harris	CD4015B				HCF40194B	
		L604			National	CD4001			National	CD4015				HEF40194	
	Siemens	SO41P			SGS-Thomson	HCC4001				MM74C164		MC1402	Signetics	TC40194B	
MC12071	National	DS8621				HCF4001			OKI	MSM4015			Toshiba	TC40194B	
MC1309	National	μA705				HEF4001			SGS-Thomson	HCC4015			Exar	XR4202	
		LM1800			Signetics	TC4001B				HCF4015		MC14020	Plessey	TAB1042	
MC1309	Signetics	μA758		MC14001UB	Toshiba	CD4001UB				HEF4015			Harris	CD4020B	
MC1310	Exar	XR1310			Harris	CD4001UB		MC14016	Signetics	TC4015B			National	CD4020	
	National	LM1310			National	CD4001UB			Toshiba	TC4015B				F4020	
	TI	SN76115				F4001			Harris	CD4016B				HCC4020	
MC1311	National	μA705			OKI	MM74C02			Motorola	MC14066				HCF4020	
		LM1800			Toshiba	TC4001UB			National	CD4016				HEF4020	
MC1311	Signetics	μA758		MC14002	Harris	CD4002B				CD4066		MC14021	Toshiba	TC4020B	
MC1327	Motorola	TDA1327			National	CD4002				F4016			Harris	CD4021B	
	TI	SN76227				F4002			SGS-Thomson	HCC4016			National	CD4021	
MC1344	National	μA705			SGS-Thomson	HCC4002				HCC4066				F4021	
		LM1800				HCF4002				HCF4016				HCC4021	
MC1344	Signetics	μA758			Signetics	HEF4002				HCF4066				HCF4021	
MC1350	SGS-Thomson	ESM1350			Toshiba	TC4002B			Signetics	HEF4016		MC14022	Toshiba	TC4021B	
				MC14006	Harris	CD4006B				HEF4066			Harris	CD4022B	
MC1374	Allegro	UDN5714			National	CD4006			Toshiba	TC4016B			National	CD4022	
	Micro	SN75479				F4006				TC4066B				F4022	
	TI	UDN5714			SGS-Thomson	F4006B		MC14016B	Unitrode	PIC7516				HCC4022	
	Toshiba	TD62479				HCC4006			Harris	CD40161B				HCF4022	
MC1384	National	TBA810				HCF4006			Motorola	MC14161				HEF4022	
	SGS-Thomson					HEF4006			National	CD40161		MC14023	Signetics	TC4022B	
		TBA810			Signetics	TC4006B				CD40161B			Toshiba	CD4023B	
MC1391	Harris	CA1391		MC14007	Toshiba	CD4007B			Panasonic	MN40161			Harris	CD4023	
	National	LM1391			National	CD4007			SGS-Thomson	HCC40161			National	F4023	
MC1400	AD	REF03	(3238)			F4007				HCC40161B				MM74C10	
		REF43	(3238)		SGS-Thomson	HCC4007				HCF40161				HCC4023	
	Cherry Semi	CS1009				HCF4007				HCF40161B				HCF4023	
	Lin Int Sys	LS1009			Signetics	HEF4007			Signetics	HEF40161				HEF4023	
	LinearTech	LT1009			Toshiba	TC4007UB		MC140162B	Toshiba	TC40161B				TC4023B	
	Motorola	MC1500			Harris	CD4008B			Harris	CD40162B				CD4024B	
	National	LM185-2.5		MC14008	National	CD4008			Motorola	MC14162		MC14024	Harris	MC4024	
		LM236				F4008			National	CD40162			National	CD4024	
		LM285-2.5			SGS-Thomson	MM74C83				CD40162B				F4024	
		LM385-2.5				HCC4008			SGS-Thomson	HCC40162				HCC4024	
	TeledyneS	TSC05				HCF4008				HCC40162B				HCF4024	
MC1400AG10	AD	ADREF01			Signetics	HEF4008				HCF40162				HEF4024	
		REF01AZ	(3238)		Toshiba	TC4008B				HCF40162B		MC14025	Toshiba	TC4024B	
		REF02	(3238)		Harris	CD4009UB				HCF40162B			Harris	CD4025B	
	LinearTech	LT1019-10		MC14009	National	CD4009			Signetics	HEF40162			National	CD4025	
		REF01			SGS-Thomson	HCC4009			Toshiba	TC40162B				F4025	
		REF01A				HCF4009		MC140163B	Harris	CD40163B				HCC4025	
	Maxim	REF01				TC4009UB			Motorola	MC14163				HCF4025	
	MicroPwr	MPREF01			Toshiba	CD4010B			National	CD40163B				HEF4025	
		MP5531		MC14010	National	CD4010			SGS-Thomson	HCC40163B				TC4025B	
	Motorola	MC1400AU10			SGS-Thomson	HCC4010				HCF40163B		MC14027	Harris	CD4027B	
		MC1404				HCF4010				HEF40163			Motorola	MC14027B	
		MC1504			Toshiba	TC4010B			Signetics	TC40163B			National	CD4027	
	Raytheon	REF01		MC14011	National	CD4011				TC40163B				CD4027B	
	TeledyneS	REF01			SGS-Thomson	HCC4011				CD4017				F4027	
		TSC9495				HCF4011		MC14017	National	F4017				MM74C76	
		TSC9496			Signetics	HEF4011			SGS-Thomson	HCC4017			OKI	MSM4027	
	Thaler	VRE100				HEF4011				HCF4017			SGS-Thomson	HCC4027	
MC1400AU10	AD	REF01EZ	(3238)			TC4010B				HEF4017				HCC4027B	
	LinearTech	REF01E				CD4011				TC4017B				HCF4027	
MC1400AU5	AD	ADREF02		MC14011UB	SGS-Thomson	HCC4011				TC4017B				HCF4027B	
		REF02	(3238)			HCF4011				CD40174B				HEF4027	
		REF02EZ	(3238)		Signetics	TC4011UB			MC140174B	MC14174				TC4027B	
	LinearTech	LT1019-5			National	CD4011UB				CD40174B		MC14027B	Signetics	CD4027B	
		REF02			Toshiba	TC4011UB				F40174B			Toshiba	CD4027	
		REF02E		MC14012	Harris	CD4012B							Harris	MC14027	
	Maxim	REF02			National	CD4012							Motorola	CD4027	
	MicroPwr	MPREF02				F4012			SGS-Thomson	HCC40174			National	CD4027B	
	Raytheon	REF02			SGS-Thomson	HCC4012				HCC40174B				F4027	
	TeledyneS	TSC9496				HCF4012				HCF40174B				MM74C76	
MC14000	Motorola	MC14000B			Signetics	HEF4012				HEF40174				MSM4027	
	National	CD4000			Toshiba	TC4012B				TC40174B				HCC4027	
		CD4000B			Harris	CD4013B			Signetics	HEF40174				HCC4027B	
	SGS-Thomson	HCC4000		MC14013	National	CD4013				TC40174B				HCF4027B	
		HCC4000B				F4013				CD4018				HCF4027	
		HCF4000				MM74C74		MC14018	National	F4018				HCF4027B	
		HCF4000B			OKI	MSM4013			SGS-Thomson	HCC4018				HEF4027	
	Signetics	HEF400			SGS-Thomson	HCC4013				HCF4018		MC14028	Signetics	TC4027B	
	Toshiba	TC4000B				HEF4013				HEF4018			Toshiba	CD4028B	
	Motorola	MC14000			Signetics	HEF4013				TC4018B			Harris	CD4028	
	National	CD4000		MC14014		CD4014B				CD40194B			National	F4028	
		CD4000B				CD4014				MC14194				MM74C42	
	SGS-Thomson	HCC4000				F4014									
		HCC4000B													

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Motorola (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
MC14028	OKI SGS-Thomson	MSM4028 HCC4028 HCF4028	(Cont'd)	MC14044	National SGS-Thomson	CD4044 F4044 HCC4044 HCF4044	(Cont'd)	MC14070	Harris National SGS-Thomson	CD4070B CD4070 F4070 MM74C86 HCC4070 HCF4070	(Cont'd)	MC14078	Harris National SGS-Thomson	CD4078B F4078 HCC4078 HCF4078	(Cont'd)
MC14029	Signetics Toshiba Harris	HEF4028 TC4028B CD40192B CD4029B CD40192 CD4029 F40192 F4029		MC14046	Signetics Toshiba Harris	HEF4044 TC4044B CD4046B CD4046 F4046		MC14071	Signetics Harris Motorola National	HEF4070 CD4071B MC14071B CD4071 CD4071B F4071 MM74C32 MSM4071		MC1408	Signetics Toshiba AD Hitachi	TC4078B AD1408 DAC1408 HA17008 HA17408 µA0801 µA0802 DAC0806 DAC0807 DAC0808 MA0802M KDA0806 KDA0807 KDA0808 MC1408 CD4081B CD4081 F4081	
MC1403	AD SiliconG TI	AD1403 SG3503 TMS416C74		MC14049	SGS-Thomson Harris National	HCC4046 HCF4046 CD4049UB CD4049 F4049 MSM4049		MC14071B	OKI SGS-Thomson Signetics Toshiba Harris Motorola National	HCC4071 HCC4071B HCF4071 HCF4071B HEF4071 TC4071B CD4071B MC14071 CD4071B F4071 MM74C32 MSM4071		MC14081	Signetics Harris National OKI SGS-Thomson	CD4081 F4081 MM74C08 MSM4081 HCC4081 HCF4081	
MC14032	SGS-Thomson	HCC4032 HCF4032 TC4032B CD4034B CD4034 F4034		MC14050	SGS-Thomson	HCC4050 HCF4050 HEF4050 TC4050B CD4051B CD4051 F4051		MC14072	OKI SGS-Thomson Signetics Toshiba AD	HCC4071 HCC4071B HCF4071 HCF4071B HEF4071 TC4071B DAC08 MB4072 CD4072B CD4072 F4072		MC14082	Signetics Toshiba Harris National SGS-Thomson	HEF4081 TC4081B CD4082B CD4082 F4082 HCC4082 HCF4082	
MC14034	Toshiba Harris National SGS-Thomson	TC4034B CD4034B CD4034 F4034 HCC4034 HCF4034 CD4034B		MC14051	Harris National SGS-Thomson	CD4051B CD4051 F4051 HCC4051 HCF4051 HEF4051 TC4051B HII1828A		MC14073	Fujitsu Harris National	MB4072 CD4072B CD4072 F4072		MC14093	Signetics Toshiba Harris Motorola National	HEF4093 TC4093B CD4093B MC14093B CD4093B F4093B	
MC14035	Harris National SGS-Thomson	CD4035B CD4035B F4035 HCC4035 HCF4035 HEF4035 TC4035B CD4038B		MC14052	Toshiba Harris	TC4052B CD4053B CD4053 F4053		MC14074	SGS-Thomson Signetics Toshiba Harris National	HCC4072 HCF4072 HEF4072 TC4072B CD4073B CD4073 F4073		MC14093B	Signetics Toshiba Harris Motorola National	HEF4093 TC4093B CD4093B MC14093 CD4093B F4093B	
MC14038	Harris SGS-Thomson	CD4038B HCC4038 HCF4038 TC4038B ADREF01 REF01AZ REF02 REF01 REF01A REF01 MPREF01 MP5531 MC1400AG10 MC1400AU10 MC1504 REF01 REF01 TSC9495 TSC9496 VRE100 CD4040B CD4040 F4040	(3238) (3238)	MC14060	SGS-Thomson Signetics Toshiba Harris National SGS-Thomson	HCC4060 HCF4060 HEF4060 TC4060B CD4060 HCC4060 HCF4060 HCF4066 HEF4066 TC4016B PIC7516 TC4066B		MC14075	SGS-Thomson Signetics Toshiba Harris National	HCC4075 HCF4075 HEF4075 TC4075B CD4076B CD4076 F4076 MM54C173 MM74C173		MC14094	Signetics Toshiba Harris Motorola National SGS-Thomson	HEF4093 TC4093B CD4094B MC14094B CD4094B HCC4094 HCC4094B HCF4094 HCF4094B	
MC14040	Thaler Harris National SGS-Thomson	CD4040B CD4040 F4040 HCC4040 HCF4040 HEF4040 TC4040B CD4042B CD4042 F4042		MC14066	Motorola National	MC14016 CD4016 CD4066 F4016 F4066		MC14076	SGS-Thomson Signetics Toshiba Harris National	HCC4076 HCF4076 HEF4076 TC4076B CD4077B F4077		MC14094B	Signetics Toshiba Harris Motorola National SGS-Thomson	HEF4094 TC4094B CD4094B MC14094 CD4094B HCC4094 HCC4094B HCF4094 HCF4094B	
MC14042	SGS-Thomson	HCC4042 HCF4042 HEF4042 TC4042B CD4042B CD4042 F4042		MC14067	Unitrode National SGS-Thomson	F4067 HCC4067 HCF4067 HEF4067 CD4068B F4068		MC14077	Signetics Toshiba Harris Motorola National	HCC4077 HCF4077 HEF4077 TC4077B CD4077B MC14077B CD4077 F4077		MC14097	Signetics Toshiba National SGS-Thomson	HEF4097 TC4097B F4097 HCC4097 HCC4097B HCF4097 HCF4097B	
MC14043	Signetics Toshiba Harris National SGS-Thomson	HEF4042 TC4042B CD4043B CD4043 HCC4043 HCF4043 HEF4043 TC4043B CD4044B MC4044		MC14068	Signetics Harris National SGS-Thomson	HEF4068 HCF4068 HEF4068 TC4068B CD4069UB CD4069 F4069 MM54C04 MM74C04 MSM4069		MC14077B	Signetics Toshiba Harris Motorola National	HEF4077 TC4077B CD4077B MC14077 CD4077 F4077		MC14099	Harris Motorola National SGS-Thomson	CD4099B MC14099B CD4099B HCC4099 HCC4099B HCF4099 HCF4099B	
MC14044	Signetics Toshiba Harris Motorola	HEF4043 TC4043B CD4044B MC4044	(Continued)	MC14069	Signetics Harris National	HCC4069 HCF4069 HEF4069 TC4069UB	(Continued)		Signetics Toshiba	HEF4077 TC4077B	(Continued)		Toshiba	TC4099B	(Continued)

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Motorola (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
MC14099B	Harris	CD4099B		MC14161	Signetics	HEF40161		MC14502	Signetics	HEF4502		MC14516	Harris	CD4516B	
	Motorola	MC14099			Toshiba	TC40161B			Toshiba	TC4502B			National	CD4516	
	National	CD4099B		MC14162	Harris	CD40162B		MC14502B	Harris	CD4502B			SGS-Thomson	F4516	
	SGS-Thomson				Motorola	MC140162B			Motorola	MC14502				HCC4516	
		HCC4099			National	CD40162			SGS-Thomson					HCF4516	
		HCC4099B				CD40162B				HCC4502				HEF4516	
		HCF4099				F40162				HCC4502B		MC14517	Signetics	HEF4516	
		HCF4099B			SGS-Thomson					HCF4502			Toshiba	TC4516B	
		TC4099B				HCC40162				HCF4502B			Harris	CD4517B	
MC14106	Toshiba	TC4099B				HCC40162B				MK4502			SGS-Thomson		
	Harris	CD40106B				HCF40162				HEF4502				HCC4517	
	Micrel	MIC54C14				HCF40162B		MC145026	Signetics	HEF4502				HCF4517	
	Motorola	MC14584			Signetics	HEF40162			Toshiba	TC4502B		MC14518	Signetics	HEF4517	
		MC14584B			Toshiba	TC40162B			SGS-Thomson	M145026			Harris	CD4518B	
	National	CD40106		MC14163	Harris	CD40163B		MC145027	SGS-Thomson	M145027			National	CD4518	
		CD4584			Motorola	MC140163B				CD4503B			SGS-Thomson	F4518	
		CD4584B			National	CD40163		MC14503	Harris	CD4503B				HCC4518	
		F400014				CD40163B			National	CD4503				HCF4518	
		F40014				F40163				F40097B				HEF4518	
		MM54C14			SGS-Thomson				SGS-Thomson					TC4518B	
		MM74C14				HCC40163B				HCF4503		MC14519	Signetics	TC4518B	
	SGS-Thomson					HCF40163B		MC14504	Toshiba	TC4503B			Harris	CD4519B	
		HCC40106				HEF40163			Harris	CD4504B			Motorola	MC14519B	
		HCF40106			Signetics	HEF40163		MC14504B	Motorola	MC14504B			National	CD4519	
		HEF40106		MC14174	Toshiba	TC40163B			Harris	CD4504B				CD4519B	
		TC4584B			Harris	CD40174B			Motorola	MC14504				HEF4519	
		μA5524			Motorola	MC140174B		MC145040	National	ADC0811		MC14519B	Signetics	TC4519B	
MC1411	Mitsubishi	μA5524			National	CD40174B			TI	TLC540			Toshiba	CD4519B	
	National	μA9665				F40174B				TLC541			Harris	CD4519B	
	Samsung	KA2655			SGS-Thomson			MC14506	Harris	CD4086B			Motorola	MC14519	
	Sanyo	LB1231				HCC40174			SGS-Thomson				National	CD4519	
	TI	SN75476				HCC40174B				HCC4086				CD4519B	
	Toshiba	TD62001				HCF40174				HCC4086B				HEF4519	
		TD62101				HCF40174B				HCF4086		MC14520	Signetics	TC4519B	
MC1412	Mitsubishi	μA5425			Signetics	HEF40174				HCF4086B			Harris	CD4520B	
	National	μA9666				TC40174B			Signetics	HEF4086B				CD4520	
		MC1412		MC14175	Motorola	MC40175				TC4086B				F4520	
		μPA2002			National	CD40175		MC14508	Harris	CD4508B			OKI	MSM4520	
	NEC	KA2656				F40175			SGS-Thomson				SGS-Thomson	HCC4520	
	Samsung	LB1232				MM54C175				HCC4508				HCF4520	
	Sanyo	LB1232				MM74C175				HCF4508				HEF4520	
	SGS-Thomson					HEF40175				HEF4508		MC14521	Signetics	TC4520B	
		L202			Signetics	HEF40175				TC4508B			Toshiba	CD4521B	
		SN75477				TC40175B			Signetics	HEF4508			Harris	CD4521B	
	Toshiba	TD62002			SGS-Thomson			MC14510	Toshiba	CD4510B			National	F4521	
MC1412T	Allegro	ULQ2002		MC14188		HCF40188			Harris	CD4510			SGS-Thomson	HCC4045	
	Micro	XR2002			Harris	CD40194B			National	F4510				HCF4045	
	Exar	M52523		MC14194	Motorola	MC140194B			SGS-Thomson					HEF4521	
	Mitsubishi	M54523			National	F40194				HCC4510		MC1452100	Signetics	TC4521B	
		μA9667			SGS-Thomson					HCF4510			Toshiba	CD22100	
	National	MC1413				HCC40194				HEF4510			Harris	SGS-Thomson	
		KA2657				HCC40194B			Signetics	TC4510B				M22100	
	Samsung	LB1233				HCF40194B		MC14511	Toshiba	CD4511B				CD4522	
	Sanyo	LB1233				HEF40194			Harris	CD4511		MC14522B	National	CD4522B	
	SGS-Thomson					TC40194B			National	F4511				F4522	
		ULN2003			Signetics	LM343			NEC	μPD4511				TC4522B	
		SN75478		MC1436	Toshiba	LM343			SGS-Thomson					CD4526	
		ULN2003			National	SG1436				HCC4511		MC14526	Toshiba	F4526	
		TD62003				SG343				HCF4511			National	HEF4526	
		TD62103			SiliconG	MB6045				HEF4511				TC4526B	
		SN75468		MC14400-5	Fujitsu	TP3064			Signetics	TC4511B				CD4527B	
MC1413T	TI	LM1414			Intel	KT8564		MC14512	Toshiba	CD4512B		MC14527	Harris	CD4527	
MC1414	National	M54526			National	ETC5064			Harris	CD4512			National	F4527	
MC1416	Mitsubishi	KA2658			Samsung	SC11311			National	F4512				HCC4527	
	Sanyo	LB1234			SGS-Thomson	XR14412			SGS-Thomson	HCC4512				HCF4527	
	Toshiba	TD62004				TSC14433				TC4512B				HEF4527	
		TD62104				TSC14433A		MC14514	Harris	CD4514B				TC4527B	
MC1416T	Allegro	ULQ2004			National	ADC0829			National	CD4514		MC14528	National	CD4528	
	Micro	XR2004			TI	TLC532				F4514				F4528	
	Exar	CD40160B		MC14442		TLC533			SGS-Thomson					MM74C221	
	Motorola	MC40160B			Fujitsu	MB4063				HCC4514				HCC4098	
	National	CD40160			Harris	CD4063B				HCF4514				HCF4098	
		F40160			National	μA9708				HEF4514				HEF4528	
	SGS-Thomson				SGS-Thomson				Signetics	TC4514B				TC4528B	
		HCC40160				HCC4063		MC145145	Toshiba	IM145145				CD4529	
		HCC40160B				TC4063B		MC145146	IMI	IM145146		MC14529	Toshiba	TC4530B	
		HCF40160				ADC0830		MC14515	Harris	CD4515B		MC14530B	Toshiba	TC4530B	
		HCF40160B				TLC530			National	CD4515		MC14531	National	F4531	
		HEF40160				TLC531				F4515			SGS-Thomson	HCC40101	
	Signetics	TC40160B		MC14444	TI	MB4053			SGS-Thomson					MCF40101	
	Toshiba	CD40161B			Fujitsu	MC1445				HCC4515				HEF4531	
	Harris	MC140161		MC1445	TI	CD4502B				HCF4515				TC4531B	
	Motorola	CD40161B		MC14502	Harris	MC14502B			Signetics	HEF4515				CD4532B	
	National	F40161			Motorola	MC14502B			Toshiba	TC4515B		MC14532	Harris	F4532	
		MM40161			SGS-Thomson					IM145151			National	SGS-Thomson	
	Panasonic					HCC4502		MC145151	IMI	IM145152				HCC4532	
	SGS-Thomson					HCC4502B				IM145155				HCF4532	
		HCC40161B				HCF4502				IM145156				HEF4532	
		HCF40161				HCF4502B				IM145157				TC4532B	
		HCF40161B				MK4502		MC145158	IMI	IM145158			Signetics		
													Toshiba		

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

VALI. SOURCE DIRECTORY

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				MC2001	Lansdale	ML2001		MC3008	Lansdale	ML3008 (3514)		MC3162	Lansdale	ML3162 (3514)	
MC1741	AD	AD741 (3245)	MC2002	Lansdale	ML2002		MC3009	Lansdale	ML3009 (3514)		MC3301	National	DM54S113		
			MC2003	Lansdale	ML2003		MC3010	Lansdale	ML3010 (3514)			TI	SN54S113		
			MC2004	Lansdale	ML2004		MC3011	Lansdale	ML3011 (3514)			Hitachi	HA17301		
			MC2005	Lansdale	ML2005		MC3012	Lansdale	ML3012 (3514)			Motorola	LM2900		
			MC2006	Lansdale	ML2006		MC3015	Lansdale	ML3015 (3514)			National	LM2900		
			MC2007	Lansdale	ML2007		MC3016	Lansdale	ML3016 (3514)				LM3301		
			MC2011	Lansdale	ML2011		MC3020	Lansdale	ML3020 (3514)			TI	LM2900		
			MC2012	Lansdale	ML2012		MC3021	Lansdale	ML3021 (3514)			AD	PM139		
			MC2013	Lansdale	ML2013		MC3022	Lansdale	ML3022 (3514)			IDT	IDT39C01		
			MC2016	Lansdale	ML2016		MC3023	Lansdale	ML3023 (3514)			Motorola	LM2901		
			MC2023	Lansdale	ML2023		MC3024	Lansdale	ML3024 (3514)			National	μA2901		
			MC2024	Lansdale	ML2024		MC3025	Lansdale	ML3025 (3514)				μA3302		
			MC2025	Lansdale	ML2025		MC3026	Lansdale	ML3026 (3514)				LM2901		
			MC2026	Lansdale	ML2026		MC3028	Lansdale	ML3028 (3514)				LM3302		
			MC2028	Lansdale	ML2028		MC3029	Lansdale	ML3029 (3514)			Samsung	LM2901		
			MC2050	Lansdale	ML2050		MC3031	Lansdale	ML3031 (3514)				LM3302		
			MC2051	Lansdale	ML2051		MC3032	Lansdale	ML3032 (3514)			SGS-Thomson			
			MC2052	Lansdale	ML2052								LM2901		
			MC2053	Lansdale	ML2053								MC3302		
			MC2054	Lansdale	ML2054		MC3051	Lansdale	ML3051 (3514)			Signetics	LM2901		
MC2055	Lansdale	ML2055		MC3052	Lansdale	ML3052 (3514)			MC3302						
MC2056	Lansdale	ML2056						TI	LM3302						
MC2057	Lansdale	ML2057			National	74H105		Toshiba	TA75339						
MC2061	Lansdale	ML2061		MC3060	Lansdale	ML3060 (3514)		National	μA3303						
MC2062	Lansdale	ML2062						Samsung	MC3303						
MC2063	Lansdale	ML2063		MC3061	Lansdale	ML3061 (3514)		SGS-Thomson							
MC2065	Lansdale	ML2065							MC3303						
MC2066	Lansdale	ML2066		MC3062	Lansdale	ML3062 (3514)		Signetics	MC3303						
MC2073	Lansdale	ML2073			TI	SN74S114		TI	MC3303						
MC2074	Lansdale	ML2074			National	DM74S113		AD	OP271						
MC2075	Lansdale	ML2075			TI	SN74S113		Harris	HA2650						
MC2076	Lansdale	ML2076		MC3100	Lansdale	ML3100 (3514)			HA2655						
MC2078	Lansdale	ML2078						MC33074	AnalogSys	MA374					
MC2100	Lansdale	ML2100		MC3101	Lansdale	ML3101 (3514)		Harris	CA3410						
MC2101	Lansdale	ML2101						Motorola	MC3400A						
MC2102	Lansdale	ML2102		MC3101	National	DM5408			MC3400A						
MC2103	Lansdale	ML2103							MC3407A						
MC2104	Lansdale	ML2104		MC3101	TI	SN5408		National	μA774						
MC2105	Lansdale	ML2105						TI	TL074						
MC2106	Lansdale	ML2106		MC3102	Lansdale	ML3102 (3514)			TL084BC						
MC2107	Lansdale	ML2107		MC3103	Lansdale	ML3103 (3514)		MC33151	Harris	ICL7667					
MC2111	Lansdale	ML2111		MC3104	Lansdale	ML3104 (3514)		IXYS	IXLD1426						
MC2112	Lansdale	ML2112							IXLD426						
MC2113	Lansdale	ML2113							IXLD4426						
MC2116	Lansdale	ML2116		MC3105	Lansdale	ML3105 (3514)		Maxim	ICL7667						
MC2123	Lansdale	ML2123							TSC426						
MC2124	Lansdale	ML2124		MC3106	Lansdale	ML3106 (3514)		Micrel	MC426						
MC2125	Lansdale	ML2125						Motorola	MC34151						
MC2126	Lansdale	ML2126							MMH0026						
MC2128	Lansdale	ML2128		MC3107	Lansdale	ML3107 (3514)		National	DS0026						
MC2150	Lansdale	ML2150							NMH0026						
MC2151	Lansdale	ML2151		MC3108	Lansdale	ML3108 (3514)		SiiconG	SG1626 (3643)						
MC2152	Lansdale	ML2152		MC3109	Lansdale	ML3109 (3514)		TeledyneS							
MC2153	Lansdale	ML2153		MC3110	Lansdale	ML3110 (3514)			TSC4426						
MC2154	Lansdale	ML2154						AD	OP400						
MC2155	Lansdale	ML2155		MC3111	Lansdale	ML3111 (3514)		Exar	XR3403						
MC2156	Lansdale	ML2156		MC3112	Lansdale	ML3112 (3514)			XR3503						
MC2157	Lansdale	ML2157						Harris	HA5134						
MC2161	Lansdale	ML2161		MC3115	Lansdale	ML3115 (3514)		Motorola	LM3403						
MC2162	Lansdale	ML2162		MC3116	Lansdale	ML3116 (3514)		National	μA324						
MC2163	Lansdale	ML2163							μA3403						
MC2165	Lansdale	ML2165						Samsung	LM323						
MC2166	Lansdale	ML2166		MC3120	Lansdale	ML3120 (3514)			MC3403						
MC2173	Lansdale	ML2173						Signetics	LM224						
MC2174	Lansdale	ML2174		MC3121	Lansdale	ML3121 (3514)			LM324						
MC2175	Lansdale	ML2175		MC3122	Lansdale	ML3122 (3514)			MC3403						
MC2176	Lansdale	ML2176		MC3123	Lansdale	ML3123 (3514)		TI	TLE2024						
MC2178	Lansdale	ML2178						Plessey	SL3046						
MC2257	Micrel	MIC2257		MC3124	Lansdale	ML3124 (3514)			SL3086						
MC2259	Micrel	MIC2259							SL3146						
MC2260	Micrel	MIC2260						SGS-Thomson							
MC26510	AMD	AM26S10							CA3046						
	National	DS26S10		MC3125	Lansdale	ML3125 (3514)			LM3046						
	TI	AM26S10							SFC2046						
MC2652	Signetics	SCN2652						AD	OP220						
MC2661	Microchip	AY2661		MC3126	Lansdale	ML3126 (3514)		Fujitsu	MB47358						
	Motorola	MC68661		MC3128	Lansdale	ML3128 (3514)		Harris	CA358A						
	Signetics	SCN2661		MC3129	Lansdale	ML3129 (3514)			CA5260AX						
	SMC	AY2661		MC3131	Lansdale	ML3131 (3514)			HA5142						
		COM2661						SGS-Thomson							
MC2681	Exar	XR88C681 (3393)							TS272						
	Signetics	SCN2681						Signetics	NE532						
MC2682	Signetics	SCN2682		MC3132	Lansdale	ML3132 (3514)		TI	TLC252						
MC2910	National	29F10							TLC272						
MC3000	Lansdale	ML3000 (3514)							TLE2022						
MC3001	Lansdale	ML3001 (3514)						MC3361	Allegro	ULN3859					
MC3002	Lansdale	ML3002 (3514)		MC3151	Lansdale	ML3151 (3514)		Micro	MC3361						
MC3003	Lansdale	ML3003 (3514)		MC3152	Lansdale	ML3152 (3514)		Samsung	MC3361						
MC3004	Lansdale	ML3004 (3514)		MC3160	Lansdale	ML3160 (3514)		Sharp	IR3N06						
MC3005	Lansdale	ML3005 (3514)						Signetics	MC3361						
MC3006	Lansdale	ML3006 (3514)		MC3161	Lansdale	ML3161 (3514)		NCR	NCR6500-12						
MC3007	Lansdale	ML3007 (3514)						Rockwell	R6500/12 (3575)						

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
MC3373	Rockwell	R6500/13 R6500/15	(3575) (3575)	MC34074	National	μ A774 TL074 TL084BC AD712 OP249		MC3490	Allegro Micro	UDN6116A-2 UDN6118		MC4050	Micrel	MIC4350 MK4350	
MC34001	AD	AD547 OP41 OP43		MC34082	AD	SSM2300 CA4051 LT1057 TL072	(3262)	MC3490	Dionics National	DI5138 DM8887 DS8887		MC4051	Lansdale	ML4051	
	Burr-Brown	OPA121 CA3140 CA3160		MC3410	Harris LinearTech	TL072 MC3410		MC3490	Samsung Sanyo	KA2651 LB1290		MC4052	Lansdale	ML4052	
	Harris	CA3160 CA3160		MC3412	Signetics	AD565A AD5651	(3219)	MC3492	National	DM8885 DS8885		MC4053	Lansdale	ML4053	
MC34001A	Motorola	MC34071 LH0052		MC3412	Harris	HI565A AD565A MCE565		MC3494	Dionics	DI805A		MC4054	Lansdale	ML4054	
MC34001B	National	SP121 LL081BC TL081AC		MC3412	Maxim	AD565A MCE565		MC3500B	TI	TL081M		MC4055	Lansdale	ML4055	
MC34002	Sipex-HSD	MA336 CA3240 ICL8043		MC3415	MCE	LM565 NE565		MC3500A	TI	TL084M		MC4056	Harris	CD4056B	
	TI	OP215 MC34072 μ A772			National	SE565		MC3510	Signetics	MC3410			SGS-Thomson	HCC4056 HCC4056B HCF4056 HCF4056B	
	Motorola	TL072 TL082C			IXYS	ICL7667 IXLD1426 IXLD426 IXLD4426		MC3523	SiliconG	MC3510 NE5410		MC4056	Toshiba	TC4056B	
	Toshiba	TA75072 TA75074			Maxim	ICL7667 TSC426		MC3558	TI	SG3523 MC3523		MC4058	Lansdale	ML4058	
MC34002A	TI	TL082BC TL082AC			Micrel	MC426 MC33151		MC4000	National	MC3458 μ A798		MC4060	Lansdale	ML4060	
MC34002B	TI	CA34002			Motorola	MMH0026 DS0026		MC4002	Lansdale	ML4000		MC4062	Lansdale	ML4062	
MC34002P	Harris	MA374 CA3410			National	NMH0026		MC4004	Lansdale	ML4002		MC4064	Lansdale	ML4064	
MC34004	AnalogSys	MC33074 MC34004A MC34074			SiliconG	SG1626	(3643)	MC4005	Motorola	MC4005		MC4068	Lansdale	ML4068	
	Motorola	μ A774 TL074 TL084BC		MC3423	TeledyneS	TSC426 TSC4426	(3642)	MC4006	National	ML4006		MC4070	Lansdale	ML4070	
	National	TL084BC MA374 CA3410		MC3430	SiliconG	MC3423 MC3441		MC4007	Lansdale	ML4007		MC4078	Lansdale	ML4078	
MC34004A	AnalogSys	MC33074 MC34004 MC34074		MC3432	TI	DS3651 DS3653		MC4008	Lansdale	ML4008		MC4080	Lansdale	ML4080	
	Harris	LM3401 LM3900		MC3437	National	DS8837 N8T37		MC4009	Lansdale	ML4009		MC4088	Lansdale	ML4088	
	Motorola	LM3900 LM3900		MC3441	Signetics	MC3430 DS3651		MC4010	Lansdale	ML4010		MC4090	Lansdale	ML4090	
MC34004B	TI	LM3900 LM3900		MC3446	Motorola	MC3446A MC3446		MC4012	Lansdale	ML4012		MC4100	Lansdale	ML4100	
MC3401	Harris	LM3900 LM3900		MC3448A	TI	μ A3487 DS3650		MC4015	Lansdale	ML4015		MC4110	Lansdale	ML4110	
MC3401B	TI	LM3900 LM3900		MC3450	National	MC3450 DS3652		MC4016	Lansdale	ML4016		MC4120	Lansdale	ML4120	
MC34012	Samsung	KA2418		MC3452	TI	MC3452 MC3453		MC4016B	Harris	CD4016B		MC4130	Lansdale	ML4130	
MC34017	SGS-Thomson	LS1240		MC3456	AdvLinear	ALD2502 ALD2504		MC40175	Motorola	MC14160 CD40160		MC4140	Lansdale	ML4140	
MC3402B	TI	LS3240			Harris	ICM7556 ICM7556M			National	CD40160B F40160		MC4150	Lansdale	ML4150	
MC3403	SGS-Thomson	TL062M TL072M			Maxim	ICM7556 TLC552C			SGS-Thomson	HCC40160 HCC40160B HCF40160 HCF40160B		MC4160	Lansdale	ML4160	
MC3404B	TI	MC3403 MC3403 TL064M		MC3458	Motorola	MC3446A MC3446			Signetics	HEF40160 TC40160B		MC4170	Lansdale	ML4170	
MC34065	Cherry Semi	CS3865			National	μ A798 XR3470			Toshiba	MC14175 CD40175		MC4180	Lansdale	ML4180	
MC34066	Cherry Semi	CS360		MC3470	Exar	MC3471			Motorola	MM54C175 MM74C175		MC4190	Lansdale	ML4190	
MC34071	AD	AD547 OP41 OP43		MC3471	TI	OP22			National	HEF40175 TC40175B		MC4200	Lansdale	ML4200	
	Burr-Brown	OPA121 CA3140 CA3160		MC3476	AD	OP43 ICL7611 ICL8021		MC4019	Signetics	ML4019		MC4210	Lansdale	ML4210	
	Harris	CA3160 CA3160			Harris	LM4250 ICL7611		MC4020	Toshiba	ML4020		MC4220	Lansdale	ML4220	
MC34072	Motorola	MC34001 LH0052			Maxim	LM4250 ICL7611		MC4022	Motorola	ML4022		MC4230	Lansdale	ML4230	
	National	SP121 MA336			Motorola	MC1776 μ A776		MC4023	TI	ML4023		MC4240	Lansdale	ML4240	
	Sipex-HSD	CA3240 ICL8043			National	LF441		MC4024	Lansdale	CD4023 CD4024B		MC4250	Lansdale	ML4250	
	TI	OP215 MC34002 μ A772			SGS-Thomson	μ A776 TS271			Harris	CD4024B MC14024		MC4260	Lansdale	ML4260	
	Motorola	TL072 TL082C			TI	TL061 MC3481			Motorola	MC14024 CD4024		MC4270	Lansdale	ML4270	
	Toshiba	TA75072 TA75074		MC3481	TI	DS3486			National	F4024		MC4280	Lansdale	ML4280	
MC34074	AnalogSys	MA374 CA3410		MC3486	National	SN75ALS195			SGS-Thomson	HCC4024 HCF4024		MC4290	Lansdale	ML4290	
	Harris	MC33074 MC34004			TI	SN75ALS194			Signetics	HEF4024 TC4024B		MC4300	Lansdale	ML4300	
	Motorola	MC34004A		MC3487	National	DS3487			Toshiba	ML4027 ML4028		MC4306	Lansdale	ML4306	
				MC3488	TI	9636 9636A			Motorola	ML4030 ML4031		MC4307	Lansdale	ML4307	
									National	ML4032 ML4035		MC4308	Lansdale	ML4308	
									SGS-Thomson	ML4037 ML4038		MC4310	Lansdale	ML4310	
									TI	ML4039 ML4040		MC4312	Lansdale	ML4312	
									Motorola	ML4040 ML4041		MC4315	Lansdale	ML4315	
									National	ML4042 ML4043		MC4316	Lansdale	ML4316	
									SGS-Thomson	ML4044 ML4045		MC4317	Lansdale	ML4317	
									Signetics	ML4046 ML4047		MC4318	Lansdale	ML4318	
									Toshiba	ML4048 ML4049		MC4319	Lansdale	ML4319	
									Motorola	ML4050 ML4051		MC4320	Lansdale	ML4320	
									National	ML4052 ML4053		MC4321	Lansdale	ML4321	
									SGS-Thomson	ML4054 ML4055		MC4322	Lansdale	ML4322	
									TI	ML4056 ML4057		MC4323	Lansdale	ML4323	
									Signetics	ML4058 ML4059		MC4324	Lansdale	ML4324	
									Toshiba	ML4060 ML4061		MC4325	Lansdale	ML4325	
									Motorola	ML4062 ML4063		MC4326	Lansdale	ML4326	
									National	ML4064 ML4065		MC4327	Lansdale	ML4327	
									SGS-Thomson	ML4066 ML4067		MC4328	Lansdale	ML4328	
									TI	ML4068 ML4069		MC4329	Lansdale	ML4329	
									Motorola	ML4070 ML4071		MC4330	Lansdale	ML4330	
									National	ML4072 ML4073		MC4331	Lansdale	ML4331	
									SGS-Thomson	ML4074 ML4075		MC4332	Lansdale	ML4332	
									TI	ML4076 ML4077		MC4333	Lansdale	ML4333	
									Motorola	ML4078 ML4079		MC4334	Lansdale	ML4334	
									National	ML4080 ML4081		MC4335	Lansdale	ML4335	
									SGS-Thomson	ML4082 ML4083		MC4336	Lansdale	ML4336	
									TI	ML4084 ML4085		MC4337	Lansdale	ML4337	
									Motorola	ML4086 ML4087		MC4338	Lansdale	ML4338	
									National	ML4088 ML4089		MC4339	Lansdale	ML4339	
									SGS-Thomson	ML4090 ML4091		MC4340	Lansdale	ML4340	
									TI	ML4092 ML4093		MC4341	Lansdale	ML4341	
									Motorola	ML4094 ML4095		MC4342	Lansdale	ML4342	
									National	ML4096 ML4097		MC4343	Lansdale	ML4343	
									SGS-Thomson	ML4098 ML4099		MC4344	Lansdale	ML4344	
									TI	ML4100 ML4101		MC4345	Lansdale	ML4345	
									Motorola	ML4102 ML4103		MC4346	Lansdale	ML4346	
									National	ML4104 ML4105		MC4347	Lansdale	ML4347	
									SGS-Thomson	ML4106 ML4107		MC4348	Lansdale	ML4348	
									TI	ML4108 ML4109		MC4349	Lansdale	ML4349	
									Motorola	ML4110 ML4111		MC4350	Lansdale	ML4350	
									National	ML4112 ML4113		MC4351	Lansdale	ML4351	
									SGS-Thomson	ML4114 ML4115		MC4352	Lansdale	ML4352	
									TI	ML4116 ML4117		MC4353	Lansdale	ML4353	
									Motorola	ML4118 ML4119		MC4354	Lansdale	ML4354	
									National	ML4120 ML4121		MC4355	Lansdale	ML4355	
									SGS-Thomson	ML4122 ML4123		MC4356	Lansdale	ML4356	
									TI	ML4124 ML4125		MC4357	Lansdale	ML4357	
									Motorola	ML4126 ML4127		MC4358	Lansdale	ML4358	
									National	ML4128 ML4129		MC4359	Lansdale	ML4359	
									SGS-Thomson	ML4130 ML4131		MC4360	Lansdale	ML4360	
									TI	ML4132 ML4133		MC4361	Lansdale	ML4361	
									Motorola	ML4134 ML4135		MC4362	Lansdale	ML4362	
									National	ML4136 ML4137		MC4363	Lansdale	ML4363	
									SGS-Thomson	ML4138 ML4139		MC4364	Lansdale	ML4364	
									TI	ML4140 ML4141		MC4365	Lansdale	ML4365	
									Motorola	ML4142 ML4143		MC4366	Lansdale	ML4366	
									National	ML4144 ML4145		MC4367	Lansdale	ML4367	
									SGS-Thomson	ML4146 ML4147		MC4368	Lansdale	ML4368	
									TI	ML4148 ML4149		MC4369			

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				• MC5151	Lansdale	ML5151		MC54F353	National	54F353		MC54HCT640	Harris	CD54HCT640	
				• MC5153	Lansdale	ML5153		TI	SN54F353			MC54HCT643	Harris	MM54HCT640	
				• MC5161	Lansdale	ML5161		MC54F373	National	54F373		MC54HCU04	Harris	CD54HCT643	
				• MC5163	Lansdale	ML5163		TI	SN54F373			TI	National	MM54HCU04	
				• MC5171	Lansdale	ML5171		MC54F374	National	54F374		MC54HC00	Harris	CD54HCU04	
				• MC5173	Lansdale	ML5173		TI	SN54F374			TI	National	SN54HCU04	
				• MC5181	Lansdale	ML5181		MC54F381	National	54F381		MC54HC02	Harris	CD54HC00	
				• MC5183	Lansdale	ML5183		TI	SN54F381			TI	National	MM54HC00	
				• MC5191	Lansdale	ML5191		MC54F382	National	54F382		MC54HC03	Harris	SN54HC00	
				• MC5193	Lansdale	ML5193		TI	SN54F382			TI	National	CD54HC02	
				• MC5201	Lansdale	ML5201		MC54F521	National	54F521		MC54HC08	Harris	MM54HC02	
				• MC5221	Lansdale	ML5221		TI	SN54F521			TI	National	SN54HC02	
				• MC5231	Lansdale	ML5231		MC54F533	National	54F533		MC54HC10	Harris	CD54HC03	
				• MC5241	Lansdale	ML5241		TI	SN54F533			TI	National	MM54HC03	
				• MC5261	Lansdale	ML5261		MC54F534	National	54F534		MC54HC107	Harris	74HC03	
				• MC5271	Lansdale	ML5271		TI	SN54F534			TI	National	SN54HC03	
				• MC5281	Lansdale	ML5281		MC54F620	National	54F620		MC54HC109	Harris	CD54HC04	
				• MC5291	Lansdale	ML5291		TI	SN54F620			TI	National	MM54HC04	
				• MC5350	Lansdale	ML4350		MC54F623	National	54F623		MC54HC11	Harris	74HC04	
				• MC54F00	National	54F00		TI	SN54F623			TI	National	SN54HC04	
				MC54F02	National	54F02		MC54F74	National	54F74		MC54HC12	Harris	CD54HC08	
				MC54F04	National	54F04		TI	SN54F74			TI	National	MM54HC08	
				MC54F08	National	54F08		MC54HCT00	National	MM54HCT00		MC54HC17	Harris	SN54HC10	
				MC54F10	National	54F10		MC54HCT03	Harris	CD54HCT03		MC54HC109	Harris	CD54HC107	
				MC54F109	National	54F109		MC54HCT04	National	MM54HCT04		MC54HC112	Harris	SN54HC109	
				MC54F11	National	54F11		TI	SN54HCT04			TI	National	CD54HC11	
				MC54F112	National	54F112		MC54HCT125	Harris	CD54HCT125		MC54HC113	Harris	MM54HC11	
				MC54F138	National	54F138		MC54HCT126	Harris	CD54HCT126		MC54HC112	Harris	SN54HC11	
				MC54F139	National	54F139		MC54HCT138	Harris	CD54HCT138		MC54HC125	Harris	CD54HC12	
				MC54F153	National	54F153		Marconi	54HCT138			TI	National	MM54HC12	
				MC54F157	National	54F157		TI	MM54HCT138			MC54HC113	Harris	SN54HC12	
				MC54F158	National	54F158		MC54HCT157	National	MM54HCT157		MC54HC123	Harris	MM54HC13	
				MC54F20	National	54F20		MC54HCT158	National	MM54HCT158		MC54HC125	Harris	SN54HC13	
				MC54F240	National	54F240		MC54HCT240	Harris	CD54HCT240		MC54HC133	National	CD54HC13	
				MC54F241	National	54F241		Marconi	54HCT240			MC54HC137	Harris	SN54HC13	
				MC54F242	National	54F242		Micrel	MC54HCT240			TI	National	MM54HC137	
				MC54F243	National	54F243		TI	MM54HCT240			MC54HC138	Harris	CD54HC13	
				MC54F244	National	54F244		MC54HCT241	Harris	CD54HCT241		MC54HC139	Harris	SN54HC13	
				MC54F245	National	54F245		TI	MM54HCT241			MC54HC14	Harris	MM54HC14	
				MC54F257	National	54F257		MC54HCT244	Harris	CD54HCT244		MC54HC147	Harris	CD54HC14	
				MC54F258	National	54F258		Marconi	54HCT244			MC54HC151	Harris	SN54HC14	
				MC54F280	National	54F280		TI	MM54HCT244			MC54HC153	Harris	CD54HC15	
				MC54F283	National	54F283		MC54HCT245	Harris	CD54HCT245		MC54HC154	Harris	MM54HC15	
				MC54F32	National	54F32		MC54HCT257	Harris	CD54HCT257		MC54HC157	Harris	SN54HC15	
				MC54F350	National	54F350		MC54HCT258	Harris	CD54HCT258		MC54HC158	Harris	CD54HC15	
				MC54F352	National	54F352		MC54HCT373	Harris	CD54HCT373		MC54HC160	Harris	MM54HC15	
								Marconi	54HCT373			MC54HC161	Harris	SN54HC15	
								TI	MM54HCT373			MC54HC162	Harris	CD54HC16	
								MC54HCT374	Harris	CD54HCT374					
								Marconi	54HCT374						
								TI	MM54HCT374						
								MC54HCT533	Harris	CD54HCT533					
								Marconi	54HCT533						
								TI	MM54HCT533						
								MC54HCT534	Harris	CD54HCT534					
								Marconi	54HCT534						
								TI	MM54HCT534						
								MC54HCT540	Harris	CD54HCT540					
								Marconi	54HCT540						
								TI	MM54HCT540						
								MC54HCT541	Harris	CD54HCT541					
								Marconi	54HCT541						
								TI	MM54HCT541						

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
MC54HC163	Harris National TI	CD54HC163 MM54HC163 SH54HC163		MC54HC273	National TI	MM54HC273 SN54HC273		MC54HC42	Harris National TI	CD54HC42 MM54HC42 SN54HC42		MC54HC86	Harris National TI	CD54HC86 MM54HC86 SN54HC86	
MC54HC164	Harris National TI	CD54HC164 MM54HC164 SN54HC164		MC54HC280	Harris National TI	MM54HC280 SN54HC280		MC54HC423	Harris National Signetics	CD54HC423 CD74HC4516 MM54HC423A 74HC4516		MC54H00	Lansdale	ML3100 ML54H00 SL54H00	(3514)
MC54HC165	Harris National TI	CD54HC165 MM54HC165 SN54HC165		MC54HC283	Harris National Signetics	CD54HC283 MM54HC283 CD74HC4015 74HC4015		MC54HC4316	Harris National Signetics	CD54HC4316 MM54HC4316 74HC93		MC54H01	Lansdale	ML3104 ML54H01 SL54H01	(3514)
MC54HC166	Harris National TI	CD54HC166 MM54HC166 SN54HC166		MC54HC292	Harris National Signetics	CD54HC292 MM54HC292 CD74HC4059 74HC4059		MC54HC4351	Harris National	CD54HC4351 MM54HC4351 CD54HC4352		MC54H08	Lansdale	ML54H08	
MC54HC173	Harris National TI	CD54HC173 MM54HC173 SN54HC173		MC54HC294	Harris National Signetics	CD54HC294 MM54HC294 74HC4059		MC54HC4352	Harris National	CD54HC4352 MM54HC4352 CD54HC4353		MC54H10	Lansdale	ML3105 ML54H10 SL54H10	(3514)
MC54HC174	Harris National TI	CD54HC174 MM54HC174 SN54HC174		MC54HC298	Harris National Signetics	CD54HC298 MM54HC298 74HC4510		MC54HC4353	Harris National	CD54HC4353 MM54HC4353 CD54HC4511		MC54H101	Lansdale	ML54H101	
MC54HC175	Harris National TI	CD54HC175 MM54HC175 SN54HC175		MC54HC299	Harris National	CD54HC299 MM54HC299 CD54HC30		MC54HC4511	Harris National	CD54HC4511 MM54HC4511 CD54HC4514		MC54H103	Lansdale	ML54H103	
MC54HC181	Harris National	CD54HC181 MM54HC181 SN54HC181		MC54HC30	Harris National	CD54HC30 MM54HC30 SN54HC30		MC54HC4514	Harris National	CD54HC4514 MM54HC4514 CD54HC4518		MC54H108	National	DM54H108	
MC54HC182	Harris National	CD54HC182 MM54HC182 SN54HC182		MC54HC32	Harris National	CD54HC32 MM54HC32 SN54HC32		MC54HC4518	Harris National	CD54HC4518 MM54HC4518 CD54HC4520		MC54H11	Lansdale	ML3106 ML54H11 SL54H11	(3514)
MC54HC190	Harris National TI	CD54HC190 MM54HC190 SN54HC190		MC54HC354	Harris National	CD54HC354 MM54HC354 CD54HC356		MC54HC4538	Harris National	CD54HC4538 MM54HC4538 CD54HC4543		MC54H20	Lansdale	ML3110 ML54H20 SL54H20	(3514)
MC54HC191	Harris National TI	CD54HC191 MM54HC191 SN54HC191		MC54HC356	Harris National	CD54HC356 MM54HC356 CD54HC365		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H22	Lansdale	ML3112 ML54H22 SL54H22	(3514)
MC54HC192	Harris National TI	CD54HC192 MM54HC192 SN54HC192		MC54HC365	Harris National Signetics	CD54HC365 MM54HC365 74HC365		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H30	Lansdale	ML3116 ML54H30 SL54H30	(3514)
MC54HC193	Harris National TI	CD54HC193 MM54HC193 SN54HC193		MC54HC366	Harris National	CD54HC366 MM54HC366 SN54HC366		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H40	Lansdale	ML3124 ML54H40 SL54H40	(3514)
MC54HC194	Harris National	CD54HC194 MM54HC194 SN54HC194		MC54HC367	Harris National	CD54HC367 MM54HC367 SN54HC367		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H50	Lansdale	ML3120 ML54H50 SL54H50	(3514)
MC54HC195	Harris National	CD54HC195 MM54HC195 SN54HC195		MC54HC368	Harris National	CD54HC368 MM54HC368 SN54HC368		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H51	Lansdale	ML3123 ML54H51 SL54H51	(3514)
MC54HC195	Harris National TI	CD54HC195 MM54HC195 SN54HC195		MC54HC373	Harris National	CD54HC373 MM54HC373 SN54HC373		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H52	Lansdale	ML3131 ML54H52 SL54H52	(3514)
MC54HC20	Harris National TI	CD54HC20 MM54HC20 SN54HC20		MC54HC374	Harris National	CD54HC374 MM54HC374 SN54HC374		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H53	Lansdale	ML3132 ML54H53 SL54H53	(3514)
MC54HC21	Harris Signetics TI	CD54HC21 74HC21 SN54HC21		MC54HC377	Harris National	CD54HC377 MM54HC377 SN54HC377		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H54	Lansdale	ML3132 ML54H54 SL54H54	(3514)
MC54HC221	Harris National	CD54HC221 MM54HC221 SN54HC221		MC54HC386	Harris National	CD54HC386 MM54HC386 SN54HC386		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H55	Lansdale	ML3132 ML54H55 SL54H55	(3514)
MC54HC237	Harris National TI	CD54HC237 MM54HC237 SN54HC237		MC54HC390	Harris National	CD54HC390 MM54HC390 SN54HC390		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H56	Lansdale	ML3132 ML54H56 SL54H56	(3514)
MC54HC240	Harris National TI	CD54HC240 MM54HC240 SN54HC240		MC54HC393	Harris National	CD54HC393 MM54HC393 SN54HC393		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H57	Lansdale	ML3131 ML54H57 SL54H57	(3514)
MC54HC241	Harris National TI	CD54HC241 MM54HC241 SN54HC241		MC54HC4002	Harris National	CD54HC4002 MM54HC4002 SN54HC4002		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H72	Lansdale	ML3160 ML54H72 SL54H72	(3514)
MC54HC242	Harris National TI	CD54HC242 MM54HC242 SN54HC242		MC54HC4016	Harris National	CD54HC4016 MM54HC4016 SN54HC4016		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H74	Lansdale	ML3160 ML54H74 SL54H74	(3514)
MC54HC243	Harris National TI	CD54HC243 MM54HC243 SN54HC243		MC54HC4017	Harris National	CD54HC4017 MM54HC4017 SN54HC4017		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H76	Lansdale	ML3160 ML54H76 SL54H76	(3514)
MC54HC244	Harris National TI	CD54HC244 MM54HC244 SN54HC244		MC54HC4024	Harris National	CD54HC4024 MM54HC4024 SN54HC4024		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H77	Lansdale	ML3160 ML54H77 SL54H77	(3514)
MC54HC245	Harris National TI	CD54HC245 MM54HC245 SN54HC245		MC54HC404	Harris National	CD54HC404 MM54HC404 SN54HC404		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H78	Lansdale	ML3160 ML54H78 SL54H78	(3514)
MC54HC251	Harris National TI	CD54HC251 MM54HC251 SN54HC251		MC54HC4040	Harris National	CD54HC4040 MM54HC4040 SN54HC4040		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H79	Lansdale	ML3160 ML54H79 SL54H79	(3514)
MC54HC253	Harris National TI	CD54HC253 MM54HC253 SN54HC253		MC54HC4046	Harris National	CD54HC4046 MM54HC4046 SN54HC4046		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H80	Lansdale	ML3160 ML54H80 SL54H80	(3514)
MC54HC257	Harris National TI	CD54HC257 MM54HC257 SN54HC257		MC54HC4049	Harris National	CD54HC4049 MM54HC4049 SN54HC4049		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H81	Lansdale	ML3160 ML54H81 SL54H81	(3514)
MC54HC259	Harris National TI	CD54HC259 MM54HC259 SN54HC259		MC54HC4050	Harris National	CD54HC4050 MM54HC4050 SN54HC4050		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H82	Lansdale	ML3160 ML54H82 SL54H82	(3514)
MC54HC259	Harris National TI	CD54HC259 MM54HC259 SN54HC259		MC54HC4051	Harris National	CD54HC4051 MM54HC4051 SN54HC4051		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H83	Lansdale	ML3160 ML54H83 SL54H83	(3514)
MC54HC266	Harris National TI	CD54HC266 MM54HC266 SN54HC266		MC54HC4052	Harris National	CD54HC4052 MM54HC4052 SN54HC4052		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H84	Lansdale	ML3160 ML54H84 SL54H84	(3514)
MC54HC27	Harris National TI	CD54HC27 MM54HC27 SN54HC27		MC54HC4053	Harris National	CD54HC4053 MM54HC4053 SN54HC4053		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H85	Lansdale	ML3160 ML54H85 SL54H85	(3514)
MC54HC273	Harris Marconi	CD54HC273 54HC273		MC54HC4060	Harris National	CD54HC4060 MM54HC4060 SN54HC4060		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H86	Lansdale	ML3160 ML54H86 SL54H86	(3514)
(Continued)				MC54HC4066	Harris National	CD54HC4066 MM54HC4066 SN54HC4066		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H87	Lansdale	ML3160 ML54H87 SL54H87	(3514)
(Continued)				MC54HC4075	Harris National	CD54HC4075 MM54HC4075 SN54HC4075		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H88	Lansdale	ML3160 ML54H88 SL54H88	(3514)
(Continued)				MC54HC4078	Harris National	CD54HC4078 MM54HC4078 SN54HC4078		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H89	Lansdale	ML3160 ML54H89 SL54H89	(3514)
(Continued)				MC54HC4079	Harris National	CD54HC4079 MM54HC4079 SN54HC4079		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H90	Lansdale	ML3160 ML54H90 SL54H90	(3514)
(Continued)				MC54HC4080	Harris National	CD54HC4080 MM54HC4080 SN54HC4080		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H91	Lansdale	ML3160 ML54H91 SL54H91	(3514)
(Continued)				MC54HC4081	Harris National	CD54HC4081 MM54HC4081 SN54HC4081		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H92	Lansdale	ML3160 ML54H92 SL54H92	(3514)
(Continued)				MC54HC4082	Harris National	CD54HC4082 MM54HC4082 SN54HC4082		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H93	Lansdale	ML3160 ML54H93 SL54H93	(3514)
(Continued)				MC54HC4083	Harris National	CD54HC4083 MM54HC4083 SN54HC4083		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H94	Lansdale	ML3160 ML54H94 SL54H94	(3514)
(Continued)				MC54HC4084	Harris National	CD54HC4084 MM54HC4084 SN54HC4084		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H95	Lansdale	ML3160 ML54H95 SL54H95	(3514)
(Continued)				MC54HC4085	Harris National	CD54HC4085 MM54HC4085 SN54HC4085		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H96	Lansdale	ML3160 ML54H96 SL54H96	(3514)
(Continued)				MC54HC4086	Harris National	CD54HC4086 MM54HC4086 SN54HC4086		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H97	Lansdale	ML3160 ML54H97 SL54H97	(3514)
(Continued)				MC54HC4087	Harris National	CD54HC4087 MM54HC4087 SN54HC4087		MC54HC4543	Harris National	CD54HC4543 MM54HC4543 CD54HC4543		MC54H98	Lansdale	ML3160 ML54H98 SL54H98	(3514)
(Continued)				MC54HC4088	Harris National	CD54HC4088 MM54HC4088 SN54HC4088		MC54HC4543	Harris National						

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				Motorola (Cont'd)				Motorola (Cont'd)				Motorola (Cont'd)			
• MC54177	Signetics	S7281		• MC5539	Signetics	NE5539	(Cont'd)	• MC6802	Hitachi	HD6802		• MC7234	Lansdale	ML7234	
• MC54181	National	DM54181		• MC554	Lansdale	SE5539		• MC6804	National	F6802		• MC7235	Lansdale	ML7235	
• MC54182	Lansdale	ML54182	(3514)	• MC555	Lansdale	ML554			SGS-Thomson	EF6802		• MC7241	Lansdale	ML7241	
		SL54182		• MC556	Lansdale	ML556				EF6804		• MC7242	Lansdale	ML7242	
• MC54182	National	DM54182		• MC557	Lansdale	ML557		• MC6805	Harris	CDP6805		• MC7250	Lansdale	ML7250	
• MC54190	National	DM54190		• MC558	Lansdale	ML558			Hitachi	HD6805		• MC7251	Lansdale	ML7251	
• MC54192	National	DM54192		• MC559	Lansdale	ML559			SGS-Thomson	EF6805		• MC7260	Lansdale	ML7260	
		DM7560		• MC560	Lansdale	ML560		• MC6809	Hitachi	HD6809		• MC7261	Lansdale	ML7261	
• MC54193	National	DM54193		• MC561	Lansdale	ML561			SGS-Thomson	EF6809		• MC7266	Lansdale	ML7266	
		DM7563		• MC562	AD	PM562				EF6809		• MC7267	Lansdale	ML7267	
• MC54194	Lansdale	ML54194	(3514)		Lansdale	ML562		• MC681	Lansdale	ML681		• MC7270	Lansdale	ML7270	
	National	DM54194		• MC563	Lansdale	ML563		• MC6810	Hitachi	HD6810		• MC7271	Lansdale	ML7271	
	Signetics	54194		• MC564	Lansdale	ML564			Motorola	MCM6810		• MC7280	Lansdale	ML7280	
• MC54195	National	DM54195		• MC565	Lansdale	ML565				ML681		• MC7281	Lansdale	ML7281	
• MC54196	National	DM54196		• MC566	Lansdale	ML566		• MC682	Lansdale	ML682		• MC7284	Lansdale	ML7284	
• MC54197	National	DM54197		• MC569	Lansdale	ML569		• MC6821	Hitachi	HD6821		• MC7285	Lansdale	ML7285	
• MC54198	National	DM54198		• MC570	Lansdale	ML570			SGS-Thomson	EF6821		• MC7288	Lansdale	ML7288	
• MC54199	National	DM54199		• MC571	Lansdale	ML571				ML683		• MC7290	Lansdale	ML7290	
• MC5423	National	DM5423		• MC572	Lansdale	ML572		• MC683	Lansdale	ML683		• MC7291	Lansdale	ML7291	
• MC5427	National	DM5427		• MC573	Lansdale	ML573		• MC6840	Hitachi	HD6840		• MC74F00	National	74F00	
• MC54290	Lansdale	ML54290	(3514)	• MC574	Lansdale	ML574			SGS-Thomson	EF6840		• MC74F02	National	74F02	
• MC54293	Lansdale	ML54293	(3514)	• MC576	Lansdale	ML576		• MC6844	Hitachi	HD6844			Signetics	74F02	
• MC5437	National	DM5437		• MC577	Lansdale	ML577		• MC6845	Hitachi	HD6845			TI	SN74F02	
		5437		• MC578	Lansdale	ML578			Motorola	ML6845		• MC74F04	National	74F04	
• MC5441	Lansdale	ML5441		• MC579	Lansdale	ML579			National	F6845A			Signetics	74F04	
• MC5443	Lansdale	ML5443	(3514)	• MC6108	AD	AD7503		• MC6845A	Samsung	KS68C45	(3689)	• MC74F08	National	74F08	
• MC5444	Lansdale	ML5444	(3514)			MUX88			UMC	UM6845			Signetics	74F08	
• MC5446	National	DM5446			Burr-Brown	MPC88		• MC6845P	Hitachi	HD6845A		• MC74F10	National	74F10	
• MC5448	National	DM5448			Datel	MUX808		• MC6845P	Rockwell	R6545P	(3576)		Signetics	74F10	
• MC5449	Lansdale	ML5449				MX808	(3360)	• MC685	Hitachi	HD68450		• MC74F109	National	74F109	
• MC5450	National	DM5450			Harris	DG505A			Lansdale	HL7602			Signetics	74F109	
• MC5453	National	DM5453				DG508		• MC6850	Hitachi	HD6350			TI	SN74F109	
		MM5453				HI508				HD6850		• MC74F11	National	74F11	
• MC5454	National	DM5454				MAX358			Samsung	KS5824			Signetics	74F11	
• MC5470	National	DM5470				MAX368			SGS-Thomson	EF6850		• MC74F112	National	74F112	
• MC5472	National	DM5472				MP7508DI		• MC686	Lansdale	ML686			Signetics	74F112	
• MC5474	National	DM5474				LF11508		• MC6860	National	F6860			TI	SN74F112	
		5474				LF13508		• MC6862	National	F6862		• MC74F114	National	74F114	
• MC5477	Lansdale	ML5477	(3514)			TP4554		• MC68661	Microchip	AY2661			Signetics	74F114	
• MC5479	Lansdale	ML5479	(3514)		TeledyneS	ML461			Motorola	MC2661		• MC74F138	National	74F138	
• MC5480	Lansdale	ML5480	(3514)	• MC641	Lansdale	ML462			Signetics	SCN2661			Signetics	74F138	
• MC5482	Lansdale	ML5482	(3514)	• MC642	Lansdale	ML462			SMC	AY2661			TI	SN74F138	
• MC5483	Lansdale	ML5483	(3514)	• MC643	Lansdale	ML463		• MC68681	Signetics	SCN68681		• MC74F139	National	74F139	
• MC5484	Lansdale	ML5484		• MC66	Lansdale	ML667		• MC68682	Lansdale	ML687		• MC74F148	National	74F148	
• MC5490A	Lansdale	ML5490A	(3514)	• MC660	Lansdale	ML660			Lansdale	ML688		• MC74F151	National	74F151	
• MC5491	National	SN5491		• MC661	Lansdale	ML661		• MC687	Motorola	SL8726			Signetics	74F151	
• MC5492A	Lansdale	ML5492A	(3514)	• MC662	Lansdale	ML662		• MC688	Signetics	NC8726		• MC74F153	National	74F153	
• MC5493A	Lansdale	ML5493A	(3514)	• MC663	Lansdale	ML663		• MC688A	Motorola	MC8795			Signetics	74F153	
• MC5494	Lansdale	ML5494	(3514)	• MC664	Lansdale	ML664			National	DM8095		• MC74F157	National	74F157	
• MC5495A	Lansdale	ML5495A	(3514)	• MC665	Lansdale	ML665			Signetics	SL8796			Signetics	74F157	
• MC5496	National	DM5496		• MC666	Lansdale	ML666			TI	DM7096		• MC74F158	National	74F158	
• MC550	Lansdale	ML550		• MC668	Lansdale	ML668				SL689			Signetics	74F158	
• MC551	Lansdale	ML551		• MC669	Lansdale	ML669			SGS-Thomson	MK68901		• MC74F160	National	74F160	
• MC55107	National	DS55107		• MC670	Lansdale	ML670		• MC690	Lansdale	ML690			Signetics	74F160	
		LM55107A		• MC671	Lansdale	ML671		• MC691	Lansdale	ML691		• MC74F161	National	74F161	
• MC55107	TI	SN55107A		• MC672	Lansdale	ML672		• MC696	Lansdale	ML697			Signetics	74F161	
		SN55107B		• MC673	Lansdale	ML673		• MC697	Lansdale	ML699		• MC74F162	National	74F162	
• MC55108	National	DS55108		• MC674	Lansdale	ML674T		• MC689	Lansdale	ML689			Signetics	74F162	
		LM55108A		• MC675	Lansdale	ML675		• MC68901				• MC74F163	National	74F163	
		55108		• MC676	Lansdale	ML676				KA710C			Signetics	74F163	
• MC55108	TI	SN55108A		• MC677	Lansdale	ML677			GoldStar	GL7924		• MC74F164	National	74F164	
		SN55108B		• MC678	Lansdale	ML678		• MC719924	Hitachi	HD74LS195A			Signetics	74F164	
• MC552	Lansdale	ML552		• MC679	Lansdale	ML679			Motorola	MC7924		• MC74F168	National	74F168	
• MC5522	Motorola	LM5522		• MC68HC01	Hitachi	HD6301			National	SN74LS195A			Signetics	74F168	
• MC5523	Motorola	LM5523		• MC68HC03	Hitachi	HD6301				DM74LS195		• MC74F169	National	74F169	
• MC5524	National	LM5524		• MC68HC05C4	Toshiba	TMP68HC05C4				LM7924			Signetics	74F169	
		LM5524		• MC68HC11A0	Toshiba	TMP68HC11A0	(3673)			74LS195A		• MC74F174	National	74F174	
• MC5525	National	LM5525		• MC68HC11A1	Toshiba	TMP68HC11A1	(3673)			TA7902A		• MC74F175	National	74F175	
		LM5525		• MC68HC11A8	Toshiba	TMP68HC11A8	(3673)			ML7200			Signetics	74F175	
• MC5528	National	LM5528		• MC68HC11E1	Toshiba	TMP68HC11E1	(3673)			ML7201		• MC74F181	National	74F181	
		LM5528		• MC68HC11E9	Toshiba	TMP68HC11E9	(3673)			ML7202			Signetics	74F181	
• MC5529	National	LM5529								ML7203		• MC74F182	National	74F182	
		MC5529		• MC68HC68T1	Harris	CDP68HC68T1				ML7233			Signetics	74F182	
• MC553	Lansdale	ML553		• MC680	Lansdale	ML680			Panasonic	DN74LS195A					
• MC5534	Exar	XR5534		• MC6800	National	F6800A			Samsung	MC7924C					
	National	LM5534			SGS-Thomson	EF6800	(3513)			L7924					
		MC5534				TS68000				T74LS195A					
	Raytheon	RC5534		• MC68000	Krueger	68000	(3513)			TA7902A					
• MC5535	National	LM5535			Signetics	SCN68000		• MC7200	TI	TA7902A					
• MC5539	AD	AD5539	(3240)		SGS-Thomson	68008	(3513)			SN74LS195A					
		AD839				TS68008		• MC7201	Toshiba	TA7902A					
		AD849	(3240)			68008		• MC7202	Lansdale	ML7200					
	Elantec	EL2038				68008		• MC7203	Lansdale	ML7201					
		EL2039				68008		• MC7203	Lansdale	ML7202					
	National	LM5539				68010	(3513)			ML7203					
		LM6365				68010	(3513)			ML7233					
			(Continued)				(Continued)				(Continued)				(Continued)

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)								(Cont'd)				(Cont'd)			
MC74F189	Cypress	CY7C189		MC74F382	National	74F382		MC74HCT373	Marconi	74HCT373		MC74HCU04	Signetics	74HCU04	
	National	74F189			TI	SN74F382			National	MM74HCT373			TI	SN74HCU04	
	Signetics	74F189A		MC74F398	National	74F398			Plessey	MV74HCT373			Toshiba	TC74HCU04A	(3674)
		74F198			Signetics	74F398				MV74SC373					
• MC74F190	National	74F190		MC74F399	National	74F399			SGS-Thomson	M74HCT373		MC74HC00	Harris	CD74HC00	
	Signetics	74F190			Signetics	74F399				74HCT373			Hitachi	HD74HC00	
• MC74F191	National	74F191		MC74F521	National	74F521			Signetics	74HCT373			National	MM74HC00	
	Signetics	74F191			Signetics	74F521			TI	SN74HCT373			SGS-Thomson		
• MC74F192	National	74F192		MC74F533	National	74F533			Toshiba	TC74HCT373A	(3674)			M74HC00	
	Signetics	74F192			Signetics	74F533							Signetics	74HC00	
• MC74F193	National	74F193			TI	SN74BCT533		MC74HCT374	Harris	CD74HCT374			TI	SN74HC00	
	Signetics	74F193				74F533			Hitachi	HD74HCT374			Toshiba	TC74HC00A	(3674)
MC74F194	National	74F194		MC74F534	National	74F534			LinearTech	LTC1044		MC74HC02	Harris	CD74HC02	
	Signetics	74F194			Signetics	74F534			Marconi	74HCT374			Hitachi	HD74HC02	
MC74F195	Signetics	74F195			TI	SN74BCT534			National	MM74HCT374			National	MM74HC02	
MC74F20	National	74F20				SN74F534			Plessey	MV74HCT374			SGS-Thomson		
	Signetics	74F20		MC74F620	National	74F620				MV74SC374				M74HC02	
	TI	SN74F20			Signetics	74F620			SGS-Thomson	M74HCT374			Signetics	74HC02	
MC74F21	TI	SN74F21			TI	SN74BCT620			Signetics	74HCT374			TI	SN74HC02	
MC74F240	National	74F240				SN74F620				SN74HCT374		MC74HC03	Toshiba	TC74HC02A	(3674)
	Signetics	74F240		MC74F623	National	74F623			Toshiba	TC74HCT374A	(3674)		Harris	CD74HC03	
	TI	SN74BCT240			Signetics	74F623							National	MM74HC03	
		SN74F240			TI	SN74BCT623		MC74HCT533	Harris	CD74HCT533			SGS-Thomson		
MC74F241	National	74F241				SN74F623			Hitachi	HD74HCT533				M74HC03	
	Signetics	74F241		MC74F653	Harris	CD74ACT151			Marconi	74HCT533			Signetics	74HC03	
	TI	SN74BCT241			National	74ACT151			National	MM74HCT533			TI	SN74HC03	
		SN74F241				74F653			Plessey	MV74HCT533		• MC74HC04	Toshiba	TC74HC03A	(3674)
MC74F242	Signetics	74F242		MC74F74	National	74F74			Signetics	74HCT533			Harris	CD74HC04	
	TI	SN74F242			Signetics	74F74			TI	SN74HCT533			Hitachi	HD74HC04	
MC74F243	National	74F243			TI	SN74F74			Toshiba	TC74HCT533A	(3674)		National	MM74HC04	
	Signetics	74F243		• MC74HCT00	Harris	CD74HCT00							SGS-Thomson		
	TI	SN74F243			National	MM74HCT00		MC74HCT534	Harris	CD74HCT534			Signetics	M74HC04	
MC74F244	National	74F244			Signetics	74HCT00			Hitachi	HD74HCT534			TI	74HC04	
	Signetics	74F244		• MC74HCT04	Harris	CD74HCT04			Marconi	74HCT534			Toshiba	TC74HC04A	(3674)
	TI	SN74BCT244			National	MM72HCT04			National	MM74HCT534		MC74HC05	TI	SN74HC05	
		SN74F244			SGS-Thomson	M74HCT04			Plessey	MV74HCT534			Toshiba	TC74HC05A	
MC74F245	National	74F245				74HCT04			Signetics	74HCT534			Harris	CD74HC08	
	Signetics	74F245			Signetics	74HCT04			TI	SN74HCT534		MC74HC08	Hitachi	HD74HC08	
	TI	SN74BCT245			TI	SN74HCT04			Toshiba	TC74HCT534A	(3674)		National	MM74HC08	
		SN74F245			Toshiba	TC74HCT04A	(3674)						SGS-Thomson		
MC74F251	National	74F251		• MC74HCT05	National	MM74HCT05		MC74HCT540	Harris	CD74HCT540			Signetics	M74HC08	
	Signetics	74F251			Harris	CD74HCT240			Marconi	74HCT540			TI	74HC08	
	TI	SN74F251		MC74HCT240	Hitachi	HD74HCT240			National	MM74HCT540			TI	SN74HC08	
MC74F253	National	74F253			Marconi	74HCT240			Plessey	MV74HCT540			Toshiba	TC74HC08A	(3674)
	Signetics	74F253			National	MM74HCT240			SGS-Thomson	M74HCT540		MC74HC10	Harris	CD74HC10	
	TI	SN74F253			Plessey	MV74HCT240				74HCT540			Hitachi	HD74HC10	
MC74F257	National	74F257			Samsung	74HCT240			Signetics	74HCT540			National	MM74HC10	
	Signetics	74F257			SGS-Thomson				TI	SN74HCT540			SGS-Thomson		
	TI	SN74F257				M74HCT240			Toshiba	TC74HCT540A	(3674)			M74HC10	
MC74F258	National	74F258			Signetics	74HCT240		• MC74HCT541	Harris	CD74HCT541			Signetics	74HC10	
	Signetics	74F258			TI	SN74HCT240			Marconi	74HCT541			TI	SN74HC10	
	TI	SN74F258			Toshiba	TC74HCT240A	(3674)		National	MM74HCT541		MC74HC107	Toshiba	TC74HC10A	(3674)
MC74F259	National	74F259							Plessey	MV74HCT541			Harris	CD74HC107	
	Signetics	74F259		MC74HCT241	Harris	CD74HCT241			SGS-Thomson				Hitachi	HD74HC107	
MC74F280	National	74F280			Hitachi	HD74HCT241				M74HCT541			National	MM74HC107	
	Signetics	74F280A			Marconi	74HCT241				74HCT541			SGS-Thomson		
	TI	SN74F280			National	MM74HCT241			Signetics	SN74HCT541			Signetics	M74HC107	
MC74F283	National	74F283			Plessey	MV74HCT241			TI	TC74HCT541A	(3674)		TI	SN74HC107	
	Signetics	74F283			Samsung	74HCT241			Toshiba				Toshiba	TC74HC107A	(3674)
	TI	SN74F283			SGS-Thomson			MC74HCT564	Harris	CD74HCT564					
MC74F32	National	74F32				M74HCT241			Marconi	74HCT564		MC74HC109	Harris	CD74HC109	
	Signetics	74F32			Signetics	74HCT241			National	MM74HCT564			Hitachi	HD74HC109	
MC74F323	National	74F323			TI	SN74HCT241			Plessey	MV74HCT564			National	MM74HC109	
	Signetics	74F323			Toshiba	TC74HCT241A	(3674)		SGS-Thomson				SGS-Thomson		
	TI	SN74F323								M74HCT564			Signetics	M74HC109	
MC74F350	National	74F350		MC74HCT244	Harris	CD74HCT244			Signetics	74HCT564			TI	SN74HC109	
	Signetics	74F350			Hitachi	HD74HCT244			TI	SN74HCT564			Toshiba	TC74HC109A	(3674)
	TI	SN74F350			Marconi	74HCT244			Toshiba	TC74HCT564	(3674)				
MC74F352	National	74F352			National	MM74HCT244		• MC74HCT620	SGS-Thomson	M74HCT620		MC74HC11	Harris	CD74HC11	
	Signetics	74F352			Plessey	MV74HCT244				SN74HCT620			Hitachi	HD74HC11	
	TI	SN74F352			Samsung	74HCT244			TI	SN74HCT623			National	MM74HC11	
MC74F353	National	74F353			SGS-Thomson			• MC74HCT623	TI	SN74HCT623			SGS-Thomson		
	Signetics	74F353				M74HCT244			Harris	CD74HCT640				M74HC11	
	TI	SN74F353			Signetics	74HCT244			National	MM74HCT640			Signetics	74HC11	
MC74F373	National	74F373			TI	SN74HCT244			SGS-Thomson				TI	SN74HC11	
	Signetics	74F373			Toshiba	TC74HCT244A	(3674)			M74HCT640			Toshiba	TC74HC11A	(3674)
	TI	SN74BCT373								74HCT640					
MC74F374	National	74F374		MC74HCT245	Harris	CD74HCT245			Signetics	SN74HCT640		MC74HC112	Harris	CD74HC112	
	Signetics	74F374			Hitachi	HD74HCT245			TI	TC74HCT640A	(3674)		Hitachi	HD74HC112	
	TI	SN74BCT374			Marconi	74HCT245			Toshiba				National	MM74HC112	
		SN74F374			National	MM74HCT245		• MC74HCT643	Harris	CD74HCT643			SGS-Thomson		
MC74F378	National	74F378			Plessey	MV74HCT245			SGS-Thomson	M74HCT643			Signetics	M74HC112	
	Signetics	74F378				MV74SC245				74HCT643			TI	SN74HC112	
	TI	SN74F378			SGS-Thomson				Signetics	SN74HCT643A			Toshiba	TC74HC112A	(3674)
MC74F379	National	74F379			Signetics	M74HCT245			TI	TC74HCT643A	(3674)				
	Signetics	74F379			TI	SN74HCT245			Toshiba			MC74HC113	Harris	CD74HC113	
	TI	SN74F379			Toshiba	TC74HCT245A	(3674)						Hitachi	HD74HC113	
MC74F381	National	74F381		MC74HCT373	Harris	CD74HCT373				CD74HCU04			National	MM74HC113	
	Signetics	74F381			Hitachi	HD74HCT373			SGS-Thomson	M74HCU04			SGS-Thomson		
	TI	SN74F381												M74HC113	
			(Continued)				(Continued)				(Continued)				(Continued)

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALT SOURCE DIRECTORY

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
MC74HC243	Signetics	74HC243	(Cont'd)	SGS-Thomson	Signetics	M74HC283		MC74HC367	TI	SN74HC367	(Cont'd)	MC74HC4024	Signetics	74HC4024	(Cont'd)
	TI	SN74HC243		Signetics	TI	74HC283			Toshiba	TC74HC367A	(3674)		TI	SN74HC4024	
MC74HC244	Toshiba	TC74HC243		TI	Toshiba	TC74HC283A	(3674)	MC74HC368	Harris	CD74HC368		MC74HC4028	SGS-Thomson	M74HC4028	
	Harris	CD74HC244		National	SGS-Thomson	MM74HC292			Hitachi	HD74HC368		MC74HC4040	Harris	CD74HC4040	
	Hitachi	HD74HC244		SGS-Thomson	Signetics	M74HC292			National	MM74HC368			Hitachi	HD74HC4040	
	National	MM74HC244		SGS-Thomson	TI	74HC368			SGS-Thomson				National	MM74HC4040	
	SGS-Thomson			MC74HC292	TI	SN74HC368							SGS-Thomson		
		M74HC244		MC74HC294	TI	TC74HC368A	(3674)								
	Signetics	74HC244		SGS-Thomson	TI	SN74HC368									
	TI	SN74HC244													
	Toshiba	TC74HC244A	(3674)	MC74HC298	Hitachi	M74HC294		MC74HC373	Harris	CD74HC373			Signetics	M74HC4040	
MC74HC245	Harris	CD74HC245		Hitachi	HD74HC298				Hitachi	HD74HC373			TI	SN74HC4040	
	Hitachi	HD74HC245		SGS-Thomson	SGS-Thomson	M74HC298			National	MM74HC373			Toshiba	TC74HC4040A	(3674)
	National	MM74HC245			Signetics	TC74HC298A			SGS-Thomson						
	SGS-Thomson				TI	SN74HC298									
		M74HC245			Toshiba	TC74HC298A	(3674)								
	Signetics	74HC245		MC74HC299	Harris	CD74HC299		MC74HC374	Harris	CD74HC374					
	TI	SN74HC245		National	SGS-Thomson	MM74HC299			Hitachi	HD74HC374					
	Toshiba	TC74HC245A	(3674)						National	MM74HC374					
MC74HC251	Harris	CD74HC251		SGS-Thomson	Signetics	M74HC299			SGS-Thomson						
	Hitachi	HD74HC251			TI	74HC299									
	National	MM74HC251			Toshiba	TC74HC299A	(3674)								
	SGS-Thomson			MC74HC30	Harris	CD74HC30									
		M74HC251			Hitachi	HD74HC30									
	Signetics	74HC251			National	MM74HC30									
	TI	SN74HC251			SGS-Thomson										
	Toshiba	TC74HC251A	(3674)												
MC74HC253	Harris	CD74HC253													
	Hitachi	HD74HC253			Signetics	M74HC30									
	National	MM74HC253			TI	74HC30									
	SGS-Thomson				Toshiba	TC74HC30A	(3674)								
		M74HC253													
	Signetics	74HC253													
	TI	SN74HC253													
	Toshiba	TC74HC253A	(3674)												
MC74HC257	Harris	CD74HC257													
	Hitachi	HD74HC257													
	National	MM74HC257													
	SGS-Thomson														
		M74HC257													
	Signetics	74HC257													
	TI	SN74HC257													
	Toshiba	TC74HC257A	(3674)												
MC74HC259	Harris	CD74HC259													
	Hitachi	HD74HC259													
	National	MM74HC259													
	Signetics	74HC259													
	TI	SN74HC259													
	Toshiba	TC74HC259A	(3674)												
MC74HC266	Harris	CD74HC266													
	National	MM74HC266													
	SGS-Thomson														
		M74HC266													
	Signetics	74HC266													
	TI	SN74HC266													
	Toshiba	TC74HC266A													
MC74HC27	Harris	CD74HC27													
	Hitachi	HD74HC27													
	National	MM74HC27													
	SGS-Thomson														
		M74HC27													
	Signetics	74HC27													
	TI	SN74HC27													
	Toshiba	TC74HC27A	(3674)												
MC74HC273	Harris	CD74HC273													
	Hitachi	HD74HC273													
	Marconi	74HC273													
	National	MM74HC273													
	SGS-Thomson														
		M74HC273													
	Signetics	74HC273													
	TI	SN74HC273													
	Toshiba	TC74HC273A	(3674)												
MC74HC280	Harris	CD74HC280													
	Hitachi	HD74HC280													
	National	MM74HC280													
	SGS-Thomson														
		M74HC280													
	Signetics	74HC280													
	TI	SN74HC280													
	Toshiba	TC74HC280A	(3674)												
MC74HC283	Harris	CD74HC283													
	National	MM74HC283													
			(Continued)				(Continued)								

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page		
Motorola (Cont'd)				MC74HC533 (Cont'd)				MC74HC595 (Cont'd)				MC74HC74					
MC74HC42	Harris	CD74HC42		SGS-Thomson		M74HC533		Vitelc	V61C62			Harris	CD74HC74				
	Hitachi	HD74HC42		Signetics		74HC533		VLSI Tech	CT64KS4			Hitachi	HD74HC74				
	National	MM74HC42		TI		SN74HC533		Harris	CD74HC597			National	MM74HC74				
	SGS-Thomson			Toshiba		TC74HC533A	(3674)	Hitachi	HD74HC597			SGS-Thomson					
		M74HC42						National	MM74HC597				Signetics	M74HC74			
	Signetics	74HC42		MC74HC534	Harris	CD74HC534		SGS-Thomson	M74HC597				TI	74HC74			
	TI	SN74HC42		Hitachi	HD74HC534			Signetics	74HC597			Toshiba	SN74HC74				
	Toshiba	TC74HC42A (3674)		National	MM74HC534			TI	SN74HC597				TC74HC74A (3674)	(3674)			
MC74HC423A	Harris	CD74HC423		SGS-Thomson				Toshiba	TC74HC597A	(3674)		MC74HC75	Harris	CD74HC75			
	SGS-Thomson				M74HC534							Hitachi	HD74HC75				
		M74HC423		Signetics	74HC534							National	MM74HC75				
	Signetics	74HC423		TI	SN74HC534			MC74HC620	Hitachi	HD74HC620		SGS-Thomson					
	TI	SN74HC423		Toshiba	TC74HC534A	(3674)		National	MM74HC620				Signetics	M74HC75			
	Toshiba	TC74HC423A (3674)						SGS-Thomson				TI	74HC75				
MC74HC4316	Harris	CD74HC4316		MC74HC540	Harris	CD74HC540			M74HC620			MC74HC76	Toshiba	TC74HC75A (3674)			
	National	MM74HC4316		Hitachi	HD74HC540				SN74HC620				Harris	CD74HC76			
	Signetics	74HC4316		National	MM74HC540				TC74HC620A	(3674)			Hitachi	HD74HC76			
MC74HC4351	Harris	CD74HC4351		SGS-Thomson				MC74HC623	Hitachi	HD74HC623		National	MM74HC76				
	National	MM74HC4351			M74HC540				National	MM74HC623		SGS-Thomson					
	Signetics	74HC4351		Signetics	74HC540				SGS-Thomson				TI	M74HC76			
	Toshiba	TC74HC4351A (3674)		TI	SN74HC540				TI	SN74HC623		MC74HC85	Toshiba	TC74HC76A (3674)			
MC74HC4352	Harris	CD74HC4352		Toshiba	TC74HC540A (3674)				Toshiba	TC74HC623A (3674)			Harris	CD74HC85			
	Motorola	MC10H119						MC74HC640	Harris	CD74HC640		National	MM74HC85				
	National	MM74HC4352		MC74HC541	Harris	CD74HC541			Hitachi	HD74HC640		SGS-Thomson					
	Signetics	74HC4352		Hitachi	HD74HC541				National	MM74HC640				Signetics	M74HC85		
	Toshiba	TC74HC4352A (3674)		National	MM74HC541				SGS-Thomson				TI	74HC85			
				SGS-Thomson									TI	SN74HC85			
MC74HC4353	Harris	CD74HC4353			M74HC541				Signetics	M74HC640		MC74HC86	Toshiba	TC74HC85A (3674)			
	National	MM74HC4353		Signetics	74HC541				TI	74HC640			Harris	CD74HC86			
	Signetics	74HC4353		TI	SN74HC541				TI	SN74HC640			Hitachi	HD74HC86			
	Toshiba	TC74HC4353A		Toshiba	TC74HC541A (3674)				Toshiba	TC74HC640A (3674)			National	MM74HC86			
MC74HC4511	Harris	CD74HC4511						MC74HC643	Harris	CD74HC643		SGS-Thomson					
	National	MM74HC4511		MC74HC563	Harris	CD74HC563			Hitachi	HD74HC643			Signetics	M74HC86			
	SGS-Thomson			Hitachi	HD74HC563				National	MM74HC643			TI	SN74HC86			
		M74HC4511		National	MM74HC563				SGS-Thomson				Toshiba	TC74HC86A (3674)			
	Signetics	74HC4511		SGS-Thomson								MC74H00					
	Toshiba	TC74HC4511A (3674)			M74HC563				Signetics	M74HC643		MC74H01	Lansdale	ML74H00			
MC74HC4514	Harris	CD74HC4514			74HC563				TI	SN74HC643				ML74H01			
	Hitachi	HD74HC4514		Signetics	74HC563				TI	SN74HC643			Toshiba	ML74H08			
	National	MM74HC4514		TI	SN74HC563				Toshiba	TC74HC643A (3674)		MC74H01	National	DM74H01			
	SGS-Thomson			Toshiba	TC74HC563A (3674)									DM74H08			
		M74HC4514		MC74HC564	Harris	CD74HC564						MC74H08	Lansdale	ML74H01			
	Signetics	74HC4514		Hitachi	HD74HC564				Harris	CD74HC646				ML74H08			
	TI	SN74HC4514		National	MM74HC564				National	MM74HC646			MC74H08	National	DM74H01		
	Toshiba	TC74HC4514A (3674)		SGS-Thomson					SGS-Thomson					DM74H08			
					M74HC564								MC74H10	Lansdale	ML74H10		
MC74HC4515	Harris	CD74HC4515			74HC564				Signetics	74HC646				ML74H10			
	National	MM74HC4515		Signetics	74HC564				TI	SN74HC646			MC74H10	National	DM74H10		
	Signetics	74HC4515		TI	SN74HC564				Toshiba	TC74HC646A (3674)			TI	SN74H10			
	TI	SN74HC4515		Toshiba	TC74HC564A (3674)												
	Toshiba	TC74HC4515A (3674)															
MC74HC4518	Harris	CD74HC4518		MC74HC573	Harris	CD74HC573			CD74HC648			MC74H101	Lansdale	ML74H101			
	IDT	IDT71781		Hitachi	HD74HC573				National	MM74HC648			MC74H103	Lansdale	ML74H103		
	LogicDev	L7C171		National	MM74HC573				SGS-Thomson				MC74H11	Lansdale	ML74H11		
	SGS-Thomson			SGS-Thomson									MC74H20	Lansdale	ML74H20		
		M74HC4518			M74HC573				Signetics	M74HC648			MC74H22	Lansdale	ML74H22		
	Signetics	74HC4518			74HC573				TI	SN74HC648			MC74H30	Lansdale	ML74H30		
	Toshiba	TC74HC4518			SN74HC573				Toshiba	TC74HC648A (3674)			MC74H40	Lansdale	ML74H40		
MC74HC4520	Harris	CD74HC4520			TC74HC573A (3674)								MC74H50	Lansdale	ML74H50		
	SGS-Thomson			MC74HC574	Harris	CD74HC574			MC74HC651	Harris	CD74HC651			MC74H51	Lansdale	ML74H51	
		M74HC4520		Hitachi	HD74HC574				SGS-Thomson					MC74H52	Lansdale	ML74H52	
	Signetics	74HC4520		National	MM74HC574									MC74H53	Lansdale	ML3032 (3514)	
	Toshiba	TC74HC4520		SGS-Thomson													
MC74HC4538	Harris	CD74HC4538			M74HC574				MC74HC652	Harris	CD74HC652			MC74H54	Lansdale	ML74H54	
	National	MM74HC4538			74HC574				SGS-Thomson					MC74H55	Lansdale	ML74H55	
	SGS-Thomson				SN74HC574									MC74H60	Lansdale	ML74H60	
		M74HC4538			TC74HC574A (3674)									National		74H60	
	Signetics	74HC4538											MC74H71	Lansdale	ML74H71		
	Toshiba	TC74HC4538A (3674)		MC74HC58	National	MM74HC58								National	74H71		
				MC74HC589	National	MM74HC589									ML74H72		
MC74HC4543	Harris	CD74HC4543		MC74HC590	Hitachi	HD74HC590									ML74H73		
	IDT	IDT71782			National	MM74HC590									ML3023 (3514)		
	LogicDev	L7C172			SGS-Thomson										ML74H76		
	National	MM74HC4543													ML7400 (3514)		
	SGS-Thomson				M74HC590										DM7400		
		M74HC4543			74HC590										7400		
	Signetics	74HC4543			SN74HC590												
	Toshiba	TC74HC4543A (3674)			TC74HC590A (3674)												
MC74HC51	Harris	CD74HC51		MC74HC592	Hitachi	HD74HC592			MC74HC7266	Harris	CD74HC7266						
	Hitachi	HD74HC51			National	MM74HC592				National	MM74HC7266						
	National	MM74HC51			Toshiba	TC74HC592 (3674)				SGS-Thomson							
	SGS-Thomson				Toshiba												
		MC74HC51			Hitachi	HD74HC593											
	Signetics	74HC51			National	MM74HC593											
	TI	SN74HC51			Toshiba	TC74HC593A											
	Toshiba	TC74HC51A (3674)			Hitachi	HD74HC595											
MC74HC533	Harris	CD74HC533		MC74HC595	LogicDev	L7C164											
	Hitachi	HD74HC533			SGS-Thomson												
	National	MM74HC533															
					M74HC595												
					SN74HC595												
					TC74HC595A (3674)												

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				MC74154	National	DM7213 DM74154 DM8311 9311		MC74197	National	DM74197 DM8291 74197		MC7473	Lansdale National	ML7473 DM7473 7473	(3514)
MC7403	Saratoga Signetics TI	SSL7403 7403 SN7403		MC74154	Signetics TI	74154 SN54154		MC74197	Signetics TI	74197 SN74197		MC7473	TI	SN7473	
MC7404	Lansdale National	ML7404 DM7404 7404	(3514)	MC74155	Lansdale National	ML74155 DM74155	(3514)	MC7420	Lansdale National	ML7420 DM7420 DM9004C	(3514)	MC7474	Lansdale	HL7611	
MC7404	Saratoga Signetics TI	SSL7404 7404 SN7404		MC74155	TI	SN74155		MC7420	Signetics TI	7420 SN7420		MC7474	National	ML7474 DM7474 7474	(3514)
MC7405	Lansdale National	ML7405 DM7405	(3514)	MC7416	National	DM7416 7416		MC7420	Signetics TI	9004 7420		MC7475	Signetics TI	SN7474	
MC7405	Signetics TI	7405 SN7405		MC7416	Signetics TI	7416 SN7416		MC7423	Lansdale National	ML7423 DM7423	(3514)	MC7475	Lansdale National	ML7475 DM7475 7475	(3514)
MC7406	Lansdale National	ML7406 DM7406 7406	(3514)	MC74160	Lansdale	ML74160 ML8310	(3514)	MC7423	Lansdale National	ML7423 DM7423	(3514)	MC7476	TI	SN7475	
MC7406	Signetics TI	7406 SN7406		MC74160	National	DM74160		MC7425	Lansdale National	ML7425 DM7425	(3514)	MC7476	Lansdale National	ML7476 DM7476 7476	(3514)
MC7407	Lansdale National	ML7407 DM7407 7407	(3514)	MC74161	TI	ML74161 DM74161	(3514)	MC7425	TI	7425		MC7476	TI	SN7476	
MC7407	Signetics TI	7407 SN7407		MC74161	Lansdale National	ML74161 DM74162	(3514)	MC7426	Lansdale National	ML7426 μA75451 DM7426	(3514)	MC7477	Lansdale	ML7477 DM7477	(3514)
MC7408	Lansdale National	ML7408 DM7408 7408	(3514)	MC74162	TI	SN74162		MC7426	Signetics TI	7426 SN7426		MC7477	Lansdale	ML7477 DM7477	(3514)
MC7408	Signetics TI	7408 SN7408		MC74163	Lansdale National	ML74163 DM74163	(3514)	MC7427	Lansdale National	ML7427 DM7427	(3514)	MC7478	Lansdale	ML7478 DM7478	(3514)
MC7409	Lansdale National	ML7409 DM7409 7409	(3514)	MC74163	TI	SN74163		MC7427	TI	7427		MC7485	Signetics TI	7485	
MC7409	Saratoga TI	SSL7409 SN7409		MC74165	Lansdale National	ML74165 DM74165	(3514)	MC7427	Lansdale	SN7427		MC7486	Lansdale National	ML7486 DM7486 7486	(3514)
MC7410	Lansdale National	ML7410 DM7410 7410	(3514)	MC74167	Lansdale	ML74167 DM74167	(3514)	MC74290	Lansdale	ML74290 DM74290	(3514)	MC7486	Signetics TI	SN7486	
MC7410	Signetics TI	7410 SN7410		MC7417	Lansdale National	ML7417 DM7417	(3514)	MC74293	Lansdale	ML74293 DM74293	(3514)	MC7490A	Lansdale	ML7490A DM7490A	(3514)
MC74100	Lansdale	ML74100 DM74100	(3514)	MC7417	Signetics TI	7417 SN7417		MC74298	Lansdale	ML74298 DM74298	(3514)	MC7491A	Lansdale	ML7491A DM7491A	(3514)
MC74107	Lansdale	ML74107 DM74107	(3514)	MC74174	Lansdale National	ML74174 DM74174	(3514)	MC7430	Lansdale National	ML7430 DM7430	(3514)	MC7492	Lansdale	ML7492 DM7492	(3514)
MC74120	Lansdale	ML74120 DM74120	(3514)	MC74174	Signetics TI	74174 SN74174		MC7430	TI	SN7430		MC7492A	Lansdale	ML7492A DM7492A	(3514)
MC74121	National	DM74121 74121		MC74175	Lansdale National	ML74175 DM74175	(3514)	MC7437	Lansdale National	ML7437 DM7437	(3514)	MC7493	Lansdale	ML7493 DM7493	(3514)
MC74121	Signetics TI	74121 SN74121		MC74175	TI	SN74175		MC7437	Signetics TI	7437 SN7437		MC7493A	Lansdale	ML7493A DM7493A	(3514)
MC74122	Lansdale	ML74122 DM74122	(3514)	MC74176	TI	SN74176		MC7438	Signetics TI	7438 SN7438		MC7494	GoldStar	GL7101	
MC74122	National	ML8601 DM8601		MC74177	National	DM54177		MC7438	Lansdale National	ML7440 DM7440	(3514)	MC7495A	Lansdale	ML7495A DM7495A	(3514)
MC74122	Signetics	DM9601 9601		MC74177	Signetics Lansdale	S7281 ML8271		MC7440	Signetics TI	7440 SN7440		MC7496	Lansdale	ML7496 DM7496	(3514)
MC74122	TI	N8T22 SN74122		MC74179	Lansdale	RL8271		MC7441	Lansdale National	ML7441 DM7441	(3514)	MC7497	Lansdale National	ML7497 DM7497	(3514)
MC74123	Lansdale National	ML74123 DM74123	(3514)	MC74180	Lansdale National	ML74180 DM74180	(3514)	MC7441	Signetics	93141 74141		MC75110	National	LM75110 75110	
MC74123	Signetics TI	74123 SN74123		MC74180	TI	SN74180		MC7441	Signetics	7441		MC7506	TI AD	SN75110A AD7506	
MC7413	Lansdale National	ML7413 DM7413	(3514)	MC74181	Lansdale	ML54181 DM74181	(3514)	MC7442	Lansdale National	ML7442 DM7442	(3514)	MC7506	Datel	ML1606 MX1606	(3360)
MC7413	Saratoga TI	SSL7413 SN7413		MC74181	National	ML74181 DM74181	(3514)	MC7442	TI	SN7442A		MC7506	Harris	DCS06 H1506	
MC74132	Lansdale National	ML74132 DM74132	(3514)	MC74182	Lansdale	ML74182 DM74182	(3514)	MC7442	Lansdale National	ML7442 DM7442	(3514)	MC75107	MicroPwr National	MP7506 DS75107	
MC74132	TI	SN74132		MC74190	Lansdale	ML74190 DM74190	(3514)	MC7442	TI	7442		MC75108	TI	SN75108B DS75108	
MC74136	Lansdale National	ML74136 DM74136	(3514)	MC74191	TI	SN74191		MC7443	Lansdale	ML7443 DM7443	(3514)	MC75108	National	LM75108A 75108	
MC7414	Lansdale National	ML7414 DM7414	(3514)	MC74192	Lansdale National	ML74192 DM74192	(3514)	MC7443	Lansdale	ML7443 DM7443	(3514)	MC75125	TI	SN75108B DS75125	
MC7414	Signetics TI	7414 SN7414		MC74192	Signetics TI	74192 SN74192		MC7444	Lansdale	ML7444 DM7444	(3514)	MC75125	TI	SN75125 DS75125	
MC74146	Lansdale	ML74146 DM74146	(3514)	MC74193	Lansdale	ML74193 DM74193	(3514)	MC7444	Lansdale	ML7444 DM7444	(3514)	MC75127	National	SN75127 SN75ALS127	
MC74150	Lansdale National	ML74150 DM74150	(3514)	MC74194	Lansdale National	ML74194 DM74194	(3514)	MC7445	National	7445		MC75128	TI	SN75128 DS75128	
MC74150	Signetics TI	74150 SN74150		MC74195	Lansdale	ML74195 DM74195	(3514)	MC7445	Signetics TI	7445 SN7445		MC75129	National	DS75129 SN75129	
MC74151	Lansdale	ML74151 DM74151	(3514)	MC74196	TI	SN74196		MC7446	Lansdale TI	ML7446 SN7446A		MC7520	TI	AD7520	
MC74152	Lansdale	ML74152 DM74152	(3514)	MC74196	National	DM74196		MC7447	Lansdale	ML7447 DM7447		MC7520	Harris	MX7520	
MC74153	Lansdale National	ML74153 DM74153	(3514)	MC74196	Signetics TI	74196 SN74196		MC7448	Lansdale	ML7448 DM7448		MC7520	Maxim	MP7520	
MC74153	TI	SN74153		MC74197	Lansdale	ML74197 DM74197	(3514)	MC7449	Lansdale	ML7449 DM7449		MC7520	MicroPwr National	AD7520 DAC1020	
MC74154	Lansdale	ML74154 ML8311 ML9311	(3514)	MC74197	Signetics TI	74197 SN74197		MC7450	National	ML7450 DM7450	(3514)	MC7521	Samsung Sanyo	KA2919 LA7520N	
			(Continued)				(Continued)	MC7450	TI	SN7450		MC7521	Unitrode	PICT520	
								MC7451	Lansdale National	ML7451 DM7451	(3514)	MC7521	Harris	AD7521	
								MC7451	Signetics TI	7451 SN7451		MC7521	Maxim	MX7521	
								MC7453	Lansdale	ML7453 DM7453	(3514)	MC7521	MicroPwr National	AD7521 DAC1222	
								MC7454	Lansdale National	ML7454 DM7454	(3514)	MC7521	TI	7521	
								MC7470	Lansdale	ML7470 DM7470	(3514)	MC7521	TI	7521	
								MC7472	Lansdale	ML7472 DM7472	(3514)	MC7521	TI	7521	

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Motorola (Cont'd)				• MC78L06	TI	μA78L06 μA78L06A μA87L06 TA78L012		MC78M12	SGS-Thomson	L78M12 L78M12CV	(Cont'd)	MC7812	SiliconG	SG7812 SG7812A SG7812AT	(3642) (3642) (3642)
MC7521	Sipex-HSD	DAC331-12	(Cont'd)	• MC78L06	Toshiba	μA78L08			TI	μA78M12		MC7815	TI	μA7812	
MC7523	AD	AD7523		MC78L08	National	μA78L08A LM78L08		MC78M15	Toshiba	TA78M12			National	μA7815 LM7815	
	Date!	DAC7523			Samsung	MC78L08AC			National	μA78M15			SiliconG	SG7815 SG7815A	(3642) (3642)
	Harris	AD7523			TI	μA78L08				LM341-15		MC7818	TI	μA7815	
	Maxim	MX7523				μA78L08A			Samsung	LM342-15			Unitrode	UC7815	
	MicroPwr	MP7523				TA78L008			Sanyo	LM78M15			National	μA7818 LM7818	
	National	LM7523		• MC78L09	National	μA78L09			SGS-Thomson	L78M15			SiliconG	SG7818 SG7818A	(3642) (3642)
MC7524	AD	AD7524			Toshiba	μA78L09A		MC78M18	TI	L78M15CV		• MC7820	TI	μA7818	
	Maxim	PM7524				LM78L09			Toshiba	μA78M15			AD	AD7820	
	MicroPwr	MP7524		• MC78L09	Samsung	MC78L09AC			National	TA78M15			Crystal	CS7820	
	TI	TLC7524			TI	μA78L09			Samsung	μA78M18		• MC7820	Maxim	MAX150	
MC7525	National	LM7525		• MC78L10	National	μA78L09A			Sanyo	MC78M18			National	μA7820	
	Unitrode	PICT524				μA78L10		MC78M20	SGS-Thomson	L78M18			Samsung	KAD0820	
MC7528	AD	AD7528		• MC78L10	TI	μA78L10A			TI	TA78M18		MC7824	TI	μA7820	
	Maxim	PM7528				LM78L10			Toshiba	TA78M18			National	SN55182	
	MicroPwr	MP7528		• MC78L10	Toshiba	μA78L10A			National	μA78M20			Siliconix	TLC0820	
	TI	TLC7528		• MC78L12	National	μA78L12			TI	LM78M20			TI	μA7820	
MC7529	National	LM7529				μA78L12A			Toshiba	TA78M20			TI	SN55182	
	Unitrode	PICT529		• MC78L11	Samsung	LM340LA-12			National	μA78M20		MC7824	National	μA7824	
MC75325	SiliconG	SG55327	(3643)			LM78L12			NEC	μPC78M20			SiliconG	LM7824	
		SG75325		MC78L15	Toshiba	MC78L12AC			Samsung	MC78M20C				SG7824 SG7824A	(3642) (3642)
MC7535	National	LM7535			TI	μA78L12		MC78M24	SGS-Thomson	L78M20		MC79L05	TI	μA7824	
MC7538	Unitrode	PICT535				TA78L012			TI	μA78M20		MC79L05AC	Toshiba	TA79L005	
	National	LM7538				μA78L15			Toshiba	TA78M20			Samsung	MC79L05AC	
MC7539	National	LM7539				μA78L15A			National	μA78M24			Samsung	TA79L012	
		7539				LM340T-15			Samsung	MC78M24C		MC79L15	Toshiba	MC79L15AC	
MC75401	National	DS75461			Samsung	LM78L15			Sanyo	L78M24			Samsung	TA79L015	
MC75402	National	DS75462			TI	μA78L15A			SGS-Thomson	L78M24		MC79L18	Toshiba	MC79L18AC	
MC75403	National	DS75463				TA78L015			TI	L78M24CV			Samsung	MC79L18AC	
MC75404	National	DS75464		MC78L18	Toshiba	μA78L18			Toshiba	TA78M24		MC79L24	Toshiba	TA79L018	
• MC75450	National	μA75450				LM78L18			TI	TA78M24			Samsung	MC79L24AC	
		75450				MC78L18AC		MC78T05	Lambda	LA51405		MC79M05C	Toshiba	TA79L24	
• MC75450	SiliconG	SG75450				μA78L18			Micropac	M78H05		MC79M12	Samsung	MC79M05C	
		SG75450B		• MC78L20	TI	TA78L018			National	SH0323			GoldStar	GL7912	
• MC75450	TI	SN75450				LM78L20		MC78T06	Samsung	KA78T06		MC79M12	National	μA79M12M	
• MC75451	National	75451		• MC78L20	Toshiba	TA78L020		MC78T08	Samsung	KA78T08			Samsung	LM79M12C	
	SiliconG	SG75451				LM78L20		MC78T12	Lambda	LA51412			SGS-Thomson	MC7912	
		SG75451A		• MC78L20	TI	μA78L20			Micropac	M78H12				μA7912	
		SG75451B			Toshiba	TA78L024			National	μA78H12A			TI	L7912	
• MC75451	TI	SN75451		MC78L24AC	Samsung	MC78L24AC		MC78T15	Lambda	LA51415			Toshiba	TA79012	
		SN75451B		MC78M05	National	μA78M05			Mitsubishi	M54516		MC79M15	National	μA79M15	
• MC75452	National	μA75452				LM78M05			Sanyo	LB1288			Samsung	MC79M15C	
		75452			SiliconG	SG14005		MC78T18	Samsung	KA78T18		• MC7902	National	μA7902	
• MC75452	SiliconG	SG75452				SG14012		MC78T24	Samsung	KA78T24			Samsung	MC7902	
		SG75452A		MC78M06	TI	μA78M06		• MC7802	National	μA78L02		MC7905	National	μA7905	
• MC75452	TI	SN75452				LM78M06				μA78L02A				LM7905	
		SN75452B				MC78M06			TI	μA78L02A				MC7905	
• MC75453	National	μA75453			Samsung	LM78M06				LM7805			SiliconG	SG7905 SG7905A	(3642) (3642)
		LM75453			Sanyo	L78M06		MC7805	National	μA7805				μA7905	
		75453			SGS-Thomson	L78M06				LM7805		MC7906	TI	UC7905	
• MC75453	SiliconG	SG75453				L78M06CV			SiliconG	SG7805 SG7805A	(3642) (3642)			μA7906	
		SG75453A		MC78M08	Toshiba	TA78M06				μA7805			Unitrode	LM7906	
• MC75453	TI	SN75453B				LM78M08		MC7806	TI	UC7805		MC7906	National	MC7906	
• MC75454	SiliconG	SG75454B			National	LM78M08			Unitrode	μA7806				SGS-Thomson	
	TI	SN75454B				LM78M08			National	LM7806				L7906	
MC75460	SiliconG	SG75460			Samsung	MC78M08				μA7806			TI	μA7906	
• MC75461	National	μA75461			Sanyo	L78M08		MC7806	SiliconG	SG7806 SG7806A	(3642) (3642)			TA78006	
	SiliconG	SG75461			SGS-Thomson	L78M08				μA7808		MC7908	National	μA7908	
• MC75462	National	μA75462				L78M08CV			TI	LM7808				LM7908	
	SiliconG	SG75462			TI	μA78M08		MC7808	National	SG340-8			SiliconG	SG7908 SG7908A	(3642) (3642)
	TI	SN75462		• MC78M09	Toshiba	TA78M08				μA7809				μA7908	
• MC75463	SiliconG	SG75463			National	LM78M09			SiliconG	μA7809		• MC7909	GoldStar	GL7909	
	TI	SN75463				LM78M09				LM7809			National	μA7909	
• MC75464	National	SG75464		• MC78M09	SGS-Thomson	L78M09				μA7809		• MC7909	NEC	μPC7909	
	SiliconG	SG75464				LM78M09		MC7809	TI	GL7809			SGS-Thomson	L7909	
• MC78L02	National	μA78L02			TI	μA78M09			GoldStar	HA17809				μA7909	
		μA78L02A		• MC78M10	Toshiba	TA78M09			National	μA7809				LM7909	
• MC78L02	TI	μA78L02			National	μA78M10				TA78009		• MC7910	TI	μA7910	
		μA78L02A		• MC78M10	SGS-Thomson	LM78M10			TI	μA7810			National	LM7910	
MC78L05	National	μA78L05				L78M10		• MC7810	Toshiba	TA7810		• MC7910	TI	μA7910	
		μA78L05A			TI	μA78M10			National	LM7810				TA78020	
		LM340LA-5		MC78M12	Toshiba	TA78M10			SGS-Thomson	L7810				(Continued)	
		LM78L05				μA78M12		• MC7810		μA7810					
	Samsung	MC78L05AC				LM341-12				TA78010					
	TI	μA78L05A				LM342-12				μA7812					
		TA78L005				MC78M12		MC7812	National	LM7812					
• MC78L06	National	μA78L06			Samsung	L78M12				(Continued)					
		μA78L06A			Sanyo	(Continued)									

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				• MC8242	Panasonic	DN74LS266		• MC8311	National	DM7213 DM74154 DM8311 9311		• MC840	Lansdale	ML840	
MC7912	Motorola	MC7912C LM7912 S67912 S67912A (3642)			Signetics	T74LS266		• MC8311	Signetics	74154		• MC841	Lansdale	ML841	
	TI	μA7912		• MC825	Lansdale	ML825			TI	SN54154		• MC841	Motorola	MC941	
MC7912C	Motorola	MC7912 LM7912		• MC8250	Lansdale	ML8250		• MC8312	Lansdale	ML8312		• MC843	Lansdale	ML843	
	National	LM7912		• MC8251	Lansdale	ML8251				RL8230		• MC844	Lansdale	ML844	
	SiliconG	S67912 S67912A (3642)		• MC826	Lansdale	ML826		• MC8312	National	9312		• MC844	Motorola	MC944	
	TI	μA7912		• MC8260	Lansdale	ML8260		• MC8314	Lansdale	ML8314			National	DM944	
MC7915	National	LM7915		• MC8261	Lansdale	ML8261		• MC83145	National	DM74145				944	
		μA7915				RL8261		• MC83145	Signetics	74145		• MC845	Lansdale	ML845	
	SiliconG	S67915 S67915A (3642)		• MC8266	Lansdale	ML8266			TI	SN74145		• MC845	Motorola	MC945	
	TI	UC7915		• MC8266	Signetics	S8266		• MC8315	National	DM54141			National	DM945	
	Unitrode	μA7918		• MC8267	Lansdale	ML8267		• MC83150	Lansdale	ML74150 (3514)				945	
MC7918	National	LM7918		• MC8270	Lansdale	ML8270			National	DM74150		• MC846	Lansdale	ML846	
	SiliconG	S67918 S67918A (3642)		• MC8271	Lansdale	ML8271		• MC83150	Signetics	74150				ML946	
	TI	μA7918		• MC8280	Lansdale	ML8280		• MC83153	TI	SN74150		• MC846	Motorola	MC946	
• MC7920	National	LM7920		• MC8280	National	DM74176		• MC83153	Lansdale	ML74153 (3514)			National	DM946	
• MC7920	SiliconG	S67920 (3642)		• MC8280	Signetics	DM8280			National	DM74153				946	
MC7924	GoldStar	GL7924		• MC8280	TI	74176		• MC8316	Lansdale	SN74153		• MC847	Lansdale	ML847	
	Hitachi	HD74LS195A		• MC8281	Lansdale	ML8281		• MC8316	National	ML8316		• MC848	Lansdale	ML848	
	Motorola	MC719924		• MC8281	National	DM74177		• MC83165	Lansdale	DM74165		• MC848	Motorola	MC948	
	National	μA7924		• MC8281	Signetics	DM8281			National	DM8590			National	DM948	
		DM74LS195		• MC8281	TI	74177		• MC83165	TI	74165		• MC849	Lansdale	ML849	
		LM7924		• MC8284	Lansdale	ML8284		• MC8317	Lansdale	SN74165		• MC849	Motorola	MC949	
		74LS195A		• MC8285	Lansdale	ML8285		• MC83176	Lansdale	ML8317			National	DM949	
	Panasonic	MC7924C		• MC8288	Lansdale	ML8288		• MC83176	National	ML8280		• MC850	Lansdale	ML850	
	SGS-Thomson	L7924		• MC8288	Lansdale	SL8288				RL8280		MC8503	National	F9401	
		T74LS195A		• MC8290	Lansdale	ML74196 (3514)		• MC83176	Signetics	DM74176			Signetics	9401	
	TI	μA7924		• MC8290	National	ML8290		• MC83177	TI	74176		MC851	Lansdale	ML851	
MC7952	Toshiba	TA79024		• MC8290	Signetics	RL8290			Lansdale	SN74176			Motorola	ML852	
	SGS-Thomson	LM320-5		• MC8291	TI	DM74196		• MC83177	National	ML8281				ML951	
		L7952		• MC8291	TI	DM8290		• MC83177	Signetics	DM8281		MC852	National	MC852	
• MC8T13	Lansdale	SL8T13		• MC8291	Lansdale	74196		• MC83179	TI	74177			Lansdale	ML851	
• MC8T14	Lansdale	SL8T14		• MC8291	Lansdale	SN74196		• MC83179	Lansdale	SN74177				ML852	
	National	DS55122		• MC8291	National	ML74197 (3514)		• MC8318	Lansdale	ML8271		MC852	Motorola	ML851	
• MC8T24	TI	SN55122		• MC8291	Signetics	RL8291		• MC8318	Lansdale	RL8271				ML951	
	Lansdale	SL8T24		• MC8291	TI	DM74197		• MC83180	Lansdale	ML8318		MC853	National	MC851	
	National	DS75124		• MC8291	Signetics	DM8291		• MC83180	National	ML74180 (3514)			Lansdale	MC951	
	Signetics	N8T24		• MC8291	TI	74197				DM74180				9951	
MC8T26	Lansdale	SL8T26		• MC8291	TI	SN74197		• MC83180	TI	74180		MC853	Motorola	ML853	
	Motorola	MC6880A		MC830	Lansdale	ML830		• MC832	Lansdale	SN74180			National	MC953	
	Signetics	N8T26			Motorola	ML930		• MC832	Motorola	ML832		MC855	Motorola	DM9093	
MC8T26A	National	μA8T26A			National	MC930			National	ML932			National	9093	
		DS8T26A		• MC8300	Lansdale	DM930		• MC832	Motorola	MC932			Lansdale	ML855	
	Signetics	N8T26A		• MC8300	Lansdale	930				932				ML955	
MC8T95	Motorola	MC6885		• MC8300	Lansdale	9930		• MC8324	Lansdale	9932		MC855	Motorola	MC955	
	National	DM8095		• MC8300	Lansdale	ML54195 (3514)		• MC8328	Lansdale	ML8324			National	DM9097	
• MC8T96	Signetics	N8T95		• MC8300	National	ML8300		• MC8328	Lansdale	ML8328		MC856	Lansdale	9097	
	National	DM7096		• MC8301	TI	ML9300		• MC833	Lansdale	ML833				ML856	
	TI	SN54366A		• MC8301	Lansdale	9300		• MC834	Lansdale	ML384			Motorola	ML956	
• MC815	Lansdale	ML815		• MC8301	Lansdale	SN54195		• MC835	Lansdale	ML385		MC857	Motorola	MC956	
• MC816	Lansdale	ML816		• MC8301	Lansdale	ML8301			Motorola	ML935			National	DM9094	
• MC817	Lansdale	ML817		• MC8301	Lansdale	ML9301		• MC836	National	MC935		MC857	Lansdale	9094	
• MC818	Lansdale	ML818		• MC8301	National	RL8252				DM935				ML857	
• MC819	Lansdale	ML819		• MC8301	National	SL8252		• MC836	Lansdale	9135			Motorola	ML957	
• MC8200	Lansdale	ML8200		• MC8301	National	DM8301		• MC836	Motorola	ML936		MC858	National	DM9567	
		SL8200		• MC8301	Signetics	DM9301			National	MC936				9157	
• MC8201	Lansdale	ML8201		• MC8301	Lansdale	9301		• MC836	Motorola	DM936			Lansdale	ML858	
• MC8202	Lansdale	ML8202		• MC8304	Lansdale	S8252				936				ML958	
• MC8203	Lansdale	RL8202		• MC8306	Lansdale	ML8304		• MC837	Lansdale	9936			Motorola	MC958	
		ML8233		• MC8306	Lansdale	ML9304				ML387		• MC8601	National	DM958	
• MC822	Lansdale	RL8233		• MC8308	Lansdale	ML8306		• MC837	Motorola	ML937				9158	
• MC8233	Lansdale	ML8233		• MC8308	Lansdale	ML8308			National	MC937		• MC8601	Lansdale	ML74122 (3514)	
• MC8234	Lansdale	ML8234		• MC8308	National	ML9308		• MC838	Lansdale	DM937		• MC8601	National	ML8601	
		RL8234		• MC8309	TI	9308		• MC839	Lansdale	937				DM8601	
• MC8235	Lansdale	ML8235		• MC8309	Lansdale	SN74116		• MC8396	Lansdale	9937		• MC8601	Signetics	9601	
• MC824	Lansdale	ML824		• MC831	Lansdale	ML8309				ML838		• MC8601	TI	N8T22	
• MC8241	Lansdale	ML8241		• MC8310	Lansdale	DM8309		• MC838	Lansdale	ML839		• MC8602	Lansdale	SN74122	
		RL8241		• MC8310	National	DM9309		• MC8396	National	DM7496		• MC861	Lansdale	ML861	
• MC8242	Lansdale	ML8242		• MC8310	Lansdale	9309			TI	SN7496		• MC862	Lansdale	ML862	
	Motorola	SN74LS266		• MC8311	Lansdale	ML831		MC84HC4050	Harris	CD74HC4050		• MC862	Motorola	ML962	
	National	DM74LS266		• MC8311	Lansdale	ML74160 (3514)			Motorola	MC74HC4050			National	MC962	
		74LS266		• MC8311	Lansdale	ML8310			National	MM74HC4050				DM962	
				• MC8311	National	DM74160			SGS-Thomson	M74HC4050		• MC862	Motorola	962	
				• MC8311	Lansdale	ML74154			Signetics	74HC4050				9962	
						ML9311			Toshiba	TC74HC4050A (3674)					

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				MC9311	Lansdale	ML74154 (3514)		MC952	Lansdale	ML952		MLM139	Raytheon	LM139	
MC863	Lansdale	HL7641		MC9311	National	ML8311		MC953	National	9099		ML1556	Signetics	LM139	
MC863	Motorola	ML863		MC9311		ML9311			Lansdale	ML853			Elantec	EHA2600	
MC864	Lansdale	ML963		MC9311	Signetics	DM7213			Motorola	ML953			Harris	HA2600	
MC867	Lansdale	ML963		MC9312	TI	DM74154		MC955	Lansdale	MC853			Motorola	MC1556	
MC870	Lansdale	ML870		MC9312	Lansdale	DM8311			National	DM9093			Signetics	SE556	
MC871	Lansdale	ML871		MC9312		9311				9093			Sipex-HSD	SP2600	
MC877	Lansdale	ML877		MC9312		74154		MC955	Lansdale	ML855			TI	MC1556	
MC878	Lansdale	ML878		MC9312		SN54154				ML955				SE556M	
MC879	Lansdale	ML879		MC9312		ML8312		MC956	Lansdale	MC855		ML4017	Lansdale	ML4017	
MC880	Lansdale	ML880		MC9312		ML9312			National	DM9097		ML4021	Lansdale	ML4021	
MC883	Lansdale	ML883		MC9312		RL8230				9097		ML4026	Lansdale	ML4026	
MC884	Lansdale	ML884		MC9312		9312		MC956	Lansdale	ML856		ML74F113	National	74F113	
MC885	Lansdale	ML885		MC9312		ML9314				ML956			Signetics	74F113	
MC886	Lansdale	ML886		MC9312		ML8316			Motorola	MC856		MMH0026	TI	SN74F113	
MC887	Lansdale	ML887		MC9312		ML9316			National	DM9094			Harris	ICL7667	
MC888	Lansdale	ML888		MC9312		9316		MC957	Lansdale	9094			IXYS	IXLD1426	
MC889	Lansdale	ML889		MC9312		ML9317				ML957				IXLD426	
MC890	Lansdale	ML890		MC9312		S8271				MC857			Maxim	IXLD426	
MC891	Lansdale	ML891		MC9312		ML9318			Motorola	DM9567				ICL7667	
MC892	Lansdale	ML892		MC9312		ML832			National	DM957				TSC426	
MC893	Lansdale	ML893		MC9312		ML932		MC958	Lansdale	9157			Micrel	MIC426	
MC896	Lansdale	ML896		MC9312		DM932				ML858			Motorola	MC33151	
MC897	Lansdale	ML897		MC9312		932				ML958				MC34151	
MC898	Lansdale	ML898		MC9312		9332			Motorola	MC858			National	DS0026	
MC899	Lansdale	ML899		MC9312		ML9322		MC9601	Lansdale	DM958				NMH0026	
MC900	Lansdale	ML900		MC9312		DM54157			National	9158			SiliconG	SG1626 (3643)	
MC9001	Lansdale	ML3052 (3514)		MC9312		54157		MC9602	Lansdale	ML9601			TeledyneS	TSC426	
	National	74H105		MC9322	TI	SN54157				ML9602				TSC4426	
MC901	Lansdale	ML901		MC9322		ML9324		MC9603	Lansdale	DM8602		MPQ3904	Allegro	TPQ3904	
MC902	Lansdale	ML902		MC9322		ML9328			National	DM9602			Micro	EL2015	
MC903	Lansdale	ML903		MC9322		ML933				9602			Elantec	CA3045	
MC904	Lansdale	ML904		MC9322		DM933				ML54121 (3514)			Harris	EL2016	
MC905	Lansdale	ML905		MC9322		9333				DM54121		MPQ3906	Elantec	FQ3724	
MC906	Lansdale	ML906		MC9322		ML934				54121		MQ3724	National	SP3724	
MC907	Lansdale	ML907		MC9322		ML935		MC9603	Lansdale	SN54121			Raytheon	DH3725	
MC908	Lansdale	ML908		MC9322		MC835			TI	ML961		MQ3725	National	FQ3725	
MC909	Lansdale	ML909		MC9322		DM935				DM961				SP3725	
		ML910		MC9322		9135		MC961	National	9961		MT1259	Raytheon	MB81256	
MC911	Lansdale	ML911		MC9322		9935				ML862			Fujitsu	HM50256	
MC912	Lansdale	ML912		MC9322		ML836		MC962	Lansdale	ML962			Hitachi	HM50257	
MC913	Lansdale	ML913		MC9322		ML936				DM962			Hyundai	HY51C256	
MC914	Lansdale	ML914		MC9322		DM936			National	962				HY53C256	
MC915	Lansdale	ML915		MC9322		936		MC963	Lansdale	9962			Mitsubishi	MSM4257	
MC916	Lansdale	ML916		MC9322		9936				HL7641				M5M4256	
MC917	Lansdale	ML917		MC9322		ML387				ML863			NEC	M5M4257	
MC918	Lansdale	ML918		MC9322		ML937				ML963			OKI	μPD41256	
MC919	Lansdale	ML919		MC9322		MC837				DM963				MSM37256	
MC920	Lansdale	ML920		MC9322		DM937			National	9963				MSM37257A	
MC921	Lansdale	ML921		MC9322		937		MC971	Lansdale	ML971				MSM41256	
MC922	Lansdale	ML922		MC9322		9937				ML974			Samsung	KM41256	
MC924	Lansdale	ML924		MC9322		ML938		MC974	Lansdale	ML974				KM41256A	
MC925	Lansdale	ML925		MC9322		ML939				ML975			Vitelco	V51C257	
MC926	Lansdale	ML926		MC9322		DM5496		MC975	Lansdale	ML975				V53C256	
MC927	Lansdale	ML927		MC9322		ML940		MC976	Lansdale	ML976				WCM41256	
MC928	Lansdale	ML928		MC9322		ML841		MC978	Lansdale	ML978			Western	AM9114	
MC929	Lansdale	ML929		MC9322		ML941				ML9801		M5L2114	AMD	2114A	
MC930	Lansdale	ML930		MC9322		ML941		MC9801	Lansdale	ML9802			Intel	2114A	
	Motorola	ML930		MC9322		9941				ML9804			Krueger	2114-150 (3513)	
	National	DM930		MC9322		ML943		MC9802	Lansdale	ML9807				2114-200 (3513)	
		930		MC9322		SH2001		MC9809	Lansdale	ML9809				2114-450 (3513)	
		9930		MC9322		ML844				ML981			Mitsubishi	M5L2114	
MC9300	Lansdale	ML54195 (3514)		MC9322		ML944		MC981	Lansdale	ML9813			National	F2114	
		ML8300		MC9322		DM944				ML9814				NMC2114A	
		ML9300		MC9322		944		MC9813	Lansdale	ML9818			OKI	MSM2114	
MC9300	National	9300		MC9322		9944		MC9818	Lansdale	ML9819			Rockwell	R6514	
MC9301	TI	SN54195		MC9322		ML845		MC9819	Lansdale	ML982			Sharp	LH2114	
MC9301	Lansdale	ML8301		MC9322		ML945				ML9820			Toshiba	TMM2114A	
		ML9301		MC9322		DM945		MC982	Lansdale	ML9822			UMC	UM6114	
		RL8252		MC9322		945				ML9822		M5140	Harris	CD22212	
MC9301	National	DM8301		MC9322		9945		MC9822	Lansdale	ML9822				IH5040	
		DM9301		MC9322		ML846				ML9823				IH5140	
		9031		MC9322		ML946		MC9823	Lansdale	ML9824			Maxim	IH5140	
MC9301	Signetics	S8252		MC9322		946				ML983			SiliconSys	SSI73K272	
MC9306	Lansdale	ML9306		MC9322		9946		MC983	Lansdale	ML984				DG5140	
	SGS-Thomson	ML9306		MC9322		ML947				ML984				HD6845	
		ML9306		MC9322		ML848		MC984	Lansdale	ML985				MC6845	
MC9307	Lansdale	ML9307		MC9322		ML948				ML986			Motorola	F6845A	
MC9308	Lansdale	ML9308		MC9322		DM948		MC986	Lansdale	ZN515			National	KS68C45	
		ML9308		MC9322		948				ML988			Samsung	UM6845	
MC9308	National	9308		MC9322		9948		MC988	Lansdale	ML988			UMC	UM6845	
MC931	TI	SN74116		MC9322		ML849				ML989		NE592	Adv Analog	A733	
MC9310	Lansdale	ML931		MC9322		ML949		MC989	Lansdale	ML991			Motorola	MC1733	
	National	DM54160		MC9322		DM949				ML992			National	μA733	
				MC9322		949		MC990	Lansdale	ML992				LM733	
				MC9322		9950				ML993			Signetics	μA733	
				MC9322		ML851		MC991	Lansdale	ML996				NE592	
				MC9322		ML852				ML997				SE592	
				MC9322		ML951		MC992	Lansdale	ML997				SG1401 (3643)	
				MC9322		ML851				ML998			SiliconG	μA733	
				MC9322		ML852		MC993	Lansdale	ML999			TI	μA733M	
				MC9322		ML951				CA0139				NE592	
				MC9322		ML851		MLM139	Motorola	LM139				NE592-8	
				MC9322		ML852			National	μA139				SE592	
				MC9322		9951				LM139					

* Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				SG1526	SiliconG	SG1526B SG3526	(Cont'd) (3642)	SG3526	LinearTech	LT1526		SN54LS01	National	DM54LS01	
OP27	AD	ADOP27 AD510 AD517 OP77			Unitrode	UC1526 UC1526A			Motorola	SG1526		SN54LS02	National	DM54LS02	
	Burr-Brown	OPA27		* SG1527	LinearTech	LT1527 LT1527A			SiliconG	SG1526 SG3526 SG1526B SG3526	(3642) (3642)		SGS-Thomson	T54LS02	
	Lin Int Sys	OP27			Motorola	SG1527			Unitrode	UC1526 UC1526A			Signetics	54LS02	
	LinearTech	LT1007		* SG1527	SGS-Thomson	SG1527		SG3527A	Exar	XR3527A		SN54LS03	National	DM54LS03	
	Maxim	OP27							LinearTech	LT3527				54LS03	
	MicroPwr	MPOP27			SiliconG	SG1527A	(3642)		SGS-Thomson	SG3527			SGS-Thomson	T54LS03	
	Raytheon	OP27			TeledyneS	TSC15C27A						SN54LS04	TI	SN54LS03	
	TI	OP27			TI	TL1527			SiliconG	SG3527A	(3642)		National	DM54LS04	
OP37	AD	ADOP37			Unitrode	UC1527 UC1527A			TeledyneS	TSC35C27A				54LS04	
		OP37		SG1527A	LinearTech	LT1527 LT1527A		SN54ALS00	National	DM54ALS00			SGS-Thomson	T54LS04	
	Burr-Brown	OPA37							TI	UC3527A			Signetics	54LS04	
	Harris	HA5137			SGS-Thomson	SG1527		SN54ALS02	National	DM54ALS02		SN54LS05	National	DM54LS05	
	Lin Int Sys	OP37							TI	SN54ALS02				54LS05	
	LinearTech	LT1037			SiliconG	SG1527A	(3642)		National	DM54ALS04			SGS-Thomson	T54LS05	
	Maxim	OP37			TeledyneS	TSC15C27A			TI	DM54ALS08			TI	SN54LS05	
	MicroPwr	MPOP37			TI	TL1527			National	DM54ALS08		SN54LS08	National	DM54LS08	
	Raytheon	OP37			Unitrode	UC1527			National	DM54ALS09				54LS08	
	TI	OP37							National	DM54ALS160			SGS-Thomson	T54LS08	
SE4558	AD	OP14 (3245, 3248)		* SG2525	Exar	XR2525A			DM54ALS161				Signetics	54LS08	
		OP215			Harris	HA2525		SN54ALS161	TI	SN54ALS161B			TI	SN54LS08	
	Exar	XR1458			LinearTech	LT2525A			National	DM54ALS162		SN54LS09	National	DM54LS09	
		XR4558			Motorola	SG2525A			TI	SN54ALS162B				54LS09	
	Fujitsu	MB3607			SGS-Thomson	SG2525A			National	DM54ALS163			SGS-Thomson	T54LS09	
	Harris	CA1458							TI	SN54ALS163B				54LS09	
		CA1558			SiliconG	SG2525A	(3642)								
	Hitachi	HA17458			Sipex-HSD	SP2525			National	DM54ALS240			TI	SN54LS09	
	Motorola	MC4558			TeledyneS	TSC25C25A			National	DM54ALS241		SN54LS10	National	DM54LS10	
	National	μA1458			TI	SG2525A			National	DM54ALS242				54LS10	
		μA4558		* SG2525	Unitrode	UC2525A			TI	SN54ALS242B			SGS-Thomson	T54LS10	
		LM1558		SG2525A	Exar	XR2525A			National	DM54ALS243				54LS10	
	Raytheon	RC4558			Harris	HA2525			TI	SN54ALS243A			Signetics	54LS10	
		RM4558			LinearTech	LT2525A			National	DM54ALS244			TI	SN54LS10	
	Samsung	MC4558			SGS-Thomson	SG2525A			TI	SN54ALS244A		SN54LS107	TI	SN54LS107A	
	SGS-Thomson								National	DM54ALS245		SN54LS109	National	DM54LS109	
		LS4558			SiliconG	SG2525A	(3642)		TI	SN54ALS245A			SGS-Thomson	T54LS109	
		MC4558			Sipex-HSD	SP2525			National	DM54ALS273				54LS109	
	Signetics	MC1458			TeledyneS	TSC25C25A			TI	SN54ALS273			Signetics	54LS109	
		MC1558			TI	SG2525A			National	DM54ALS32			TI	SN54LS109A	
		NE4558							TI	SN54ALS32				54LS11	
		SA4558			Unitrode	UC2525A			National	DM54ALS373			SGS-Thomson	T54LS11	
		SE4558			LinearTech	LT2526			TI	SN54ALS373		SN54LS11	TI	SN54LS11	
		MC1458			SiliconG	SG2526	(3642)		National	DM54ALS374					
	TI	MC1558			Unitrode	UC2526			TI	SN54ALS374					
		MC4558C		* SG2527	Exar	XR2527A			National	DM54ALS377			SGS-Thomson	T54LS11	
		RC4558			LinearTech	LT2527A			National	DM54ALS573			TI	SN54LS11	
		RM4558			Motorola	SG2527A			TI	SN54ALS573B		SN54LS12	Lansdale	SL8270	
		TL4558			SiliconG	SG2527A	(3642)		National	SN54ALS574				SL8471	
	Toshiba	TA75458			TeledyneS	TSC25C27A			TI	SN54ALS574A			TI	SN54LS12	
		TA75558			TI	SG2527A			National	DM54ALS576				54LS12	
* SE592	Adv Analog	A733							TI	SN54ALS576A		SN54LS122	National	DM54LS122	
	Motorola	MC1733		* SG2527	Unitrode	UC2527			National	DM54ALS580			TI	SN54LS122	
		NE592							TI	SN54ALS580A		SN54LS123	National	DM54LS123	
* SE592	National	μA733			Exar	XR2527A			National	DM54ALS620			TI	SN54LS123	
		LM733			LinearTech	LT2527A			National	DM54ALS621		SN54LS125	Motorola	SN54LS125A	
* SE592	Signetics	μA733			SiliconG	SG2527A	(3642)		National	DM54ALS622			National	DM54LS125	
		NE592			TeledyneS	TSC25C27A			National	DM54ALS623				54LS125A	
		SE592			TI	SG2527A			National	DM54ALS640			SGS-Thomson	T54LS125	
* SE592	SiliconG	SG1401	(3643)						TI	SN54ALS640A			Signetics	54LS125	
	TI	μA733			Unitrode	UC2527			National	DM54ALS641				54LS125A	
		μA733M							National	DM54ALS643			TI	SN54LS125A	
		NE592							National	DM54ALS644		SN54LS125A	Motorola	SN54LS125	
		NE592-8			Ericsson	RL3525A			National	DM54ALS646			National	DM54LS125	
		SE592			Exar	XR3525A			National	DM54ALS647				54LS125A	
* SG1525	Exar	XR1525A			LinearTech	LT3525			National	DM54ALS648			SGS-Thomson	T54LS125	
	LinearTech	LT1525							National	DM54ALS649				54LS125	
		LT1525A		* SG3525	Motorola	SG3525A			National	DM54ALS690			Signetics	54LS125	
* SG1525	Motorola	SG1525A			SGS-Thomson	SG3525A			National	DM54ALS691				54LS125A	
	SiliconG	SG1525A	(3642)						National	DM54ALS692			TI	SN54LS125A	
	TeledyneS	TSC15C25A			SiliconG	SG3525A	(3642)		National	DM54ALS693		SN54LS126	National	DM54LS126	
	TI	TL1525			TeledyneS	TSC35C25A			National	DM54ALS696				54LS126	
	Unitrode	UC1525			TI	SG3525			National	DM54ALS697			SGS-Thomson	T54LS126	
		UC1525A			Unitrode	UC3525			National	DM54ALS698				54LS126	
SG1525A	Exar	XR1525A							National	DM54ALS699			TI	SN54LS126A	
	LinearTech	LT1525			Ericsson	RL3525A			National	DM54ALS74		SN54LS13	National	DM54LS13	
		LT1525A			Exar	XR3525A			TI	SN54ALS74A				54LS13	
	SiliconG	SG1525A	(3642)		LinearTech	LT3525			National	DM54ALS873			SGS-Thomson	T54LS13	
	TeledyneS	TSC15C25A							National	DM54ALS876			TI	SN54LS13	
	TI	TL1525			SGS-Thomson	SG3525			National	DM54ALS880				54LS13	
	Unitrode	UC1525							National	DM54ALS800			SGS-Thomson	T54LS13	
		UC1525A			SiliconG	SG3525A	(3642)		SGS-Thomson	T54LS00		SN54LS132	National	DM54LS132	
SG1526	LinearTech	LT1526			TeledyneS	TSC35C25A							SGS-Thomson	T54LS132	
	Motorola	SG3526			TI	SG3525			Signetics	54LS00			TI	SN54LS132	
	Signetics	SG3526			Unitrode	UC3525			TI	SN54LS00				54LS132	
	SiliconG	SG1526	(3642)												

* Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				SN54LS165	National	54LS165		SN54LS20	(Cont'd)			SN54LS28	National	54LS28	
SN54LS133	National	54LS133		SN54LS166	TI	SN54LS165A		SGS-Thomson		T54LS20		SN54LS280	TI	T54LS28	
SN54LS136	SGS-Thomson	DM54LS136		SN54LS168	National	DM54LS168		Signetics		54LS20		SGS-Thomson	SGS-Thomson	SN54LS28	
		54LS136				54LS168		TI		SN54LS20				T54LS280	
	SGS-Thomson	T54LS136		SN54LS169	National	T54LS168		SN54LS21	National	DM54LS21		SN54LS283	TI	SN54LS280	
		SN54LS136				DM54LS169				54LS21			National	DM54LS283	
SN54LS137	TI	SN54LS137			SGS-Thomson	54LS169			SGS-Thomson	T54LS21				54LS283	
SN54LS138	TI	SN54LS138				54LS169		SN54LS221	National	DM54LS221				T54LS283	
	National	DM54LS138		SN54LS170	TI	SN54LS169B		TI		SN54LS221		SN54LS290	TI	SN54LS283	
		54LS138		SN54LS170	National	DM54LS170		SGS-Thomson		54LS240			National	DM54LS290	
	SGS-Thomson	T54LS138		SN54LS170	SGS-Thomson	54LS170				T54LS240			SGS-Thomson	T54LS290	
	Signetics	54LS138		SN54LS173	TI	SN54LS170		SN54LS241	TI	SN54LS240			TI	SN54LS290	
SN54LS139	TI	SN54LS138		SN54LS173	Motorola	SN54LS173A		National		54LS241		SN54LS293	National	DM54LS293	
	National	DM54LS139			National	DM54LS173		SGS-Thomson		T54LS241			SGS-Thomson	T54LS293	
		54LS139		SN54LS173	Signetics	54LS173		TI		SN54LS241		SN54LS295	TI	SN54LS293	
	SGS-Thomson	T54LS139		SN54LS173A	TI	SN54LS173A		TI		SN54LS242			Motorola	SN54LS295A	
SN54LS14	TI	SN54LS139A			National	DM54LS173		SN54LS243	TI	SN54LS243			National	54LS295A	
	National	DM54LS14				54LS173		SN54LS244	National	54LS244			SGS-Thomson	T54LS295	
		54LS14			Signetics	54LS173			SGS-Thomson	T54LS244				SN54LS295B	
	SGS-Thomson	T54LS14		SN54LS174	TI	SN54LS173A		SN54LS245	TI	SN54LS244		SN54LS295A	TI	54LS295A	
	Signetics	54LS14			National	DM54LS174			National	DM54LS245			SGS-Thomson	T54LS295	
SN54LS145	TI	SN54LS14				54LS174				54LS245				SN54LS298	
SN54LS147	TI	SN54LS145			SGS-Thomson	T54LS174		SN54LS247	Signetics	54LS245			TI	SN54LS295B	
SN54LS148	TI	SN54LS147				54LS174			TI	SN54LS245		SN54LS298	National	DM54LS298	
SN54LS15	TI	SN54LS148		SN54LS175	TI	SN54LS174			National	DM54LS247				54LS298	
	National	DM54LS15			National	DM54LS175				54LS247			SGS-Thomson	T54LS298	
		54LS15				54LS175		SN54LS248	TI	SN54LS247				54LS298	
	SGS-Thomson	T54LS15			SGS-Thomson	T54LS175			National	DM54LS248		SN54LS30	TI	SN54LS298	
SN54LS151	TI	SN54LS15				54LS175		SN54LS249	National	DM54LS249			National	DM54LS30	
	National	DM54LS151			Signetics	54LS175				54LS249				54LS30	
		54LS151		SN54LS181	TI	SN54LS175		SN54LS251	SGS-Thomson	T54LS251			SGS-Thomson	T54LS30	
	SGS-Thomson	T54LS151			National	54LS181				SN54LS251		SN54LS32	TI	SN54LS30	
SN54LS153	TI	SN54LS151			SGS-Thomson	T54LS181		SN54LS253	National	DM54LS253			National	DM54LS32	
	National	DM54LS153				SN54LS181				DM7214				54LS32	
		54LS153		SN54LS190	SGS-Thomson	54LS253				54LS253			SGS-Thomson	T54LS32	
	SGS-Thomson	T54LS153				SN54LS190				T54LS253		SN54LS33	TI	SN54LS32	
SN54LS155	TI	SN54LS153		SN54LS191	National	DM54LS191		SN54LS256	TI	SN54LS253			National	54LS33	
	National	DM54LS155			SGS-Thomson	54LS155			National	54LS256			SGS-Thomson	T54LS33	
		54LS155				T54LS191				T54LS256		SN54LS348	TI	SN54LS33	
	SGS-Thomson	T54LS155		SN54LS192	Signetics	54LS191		SN54LS257A	National	DM54LS257		SN54LS352	TI	SN54LS348	
SN54LS156	TI	SN54LS155A			TI	DM54LS192				54LS257A			National	DM54LS352	
	National	DM54LS156				54LS192			SGS-Thomson	T54LS257				54LS352	
		54LS156			SGS-Thomson	T54LS192				SN54LS257B			SGS-Thomson	T54LS352	
	SGS-Thomson	T54LS156		SN54LS193	TI	SN54LS192		SN54LS258A	TI	54LS258A		SN54LS353	TI	SN54LS352	
SN54LS157	TI	SN54LS156			National	DM54LS193			National	SN54LS258B			National	DM54LS353	
	National	DM54LS157				54LS193		SN54LS259	TI	54LS259				54LS353	
		54LS157			SGS-Thomson	T54LS193			SGS-Thomson	T54LS259			SGS-Thomson	T54LS353	
	SGS-Thomson	T54LS157				54LS193				SN54LS259B				T54LS354	
SN54LS158	TI	SN54LS157		SN54LS194	Signetics	54LS193		SN54LS26	TI	SN54LS26		SN54LS365A	TI	SN54LS353	
	National	DM54LS158			TI	SN54LS193			National	DM54LS26			National	54LS365A	
		54LS158			Motorola	SN54LS194A				54LS26			SGS-Thomson	T54LS365	
	SGS-Thomson	T54LS158			National	54LS194A				T54LS26		SN54LS366	TI	SN54LS366A	
SN54LS160A	TI	SN54LS158		SN54LS194A	SGS-Thomson	54LS194A		SN54LS260	SGS-Thomson	T54LS26			SGS-Thomson	54LS366A	
	National	54LS160A				T54LS194				SN54LS260A		SN54LS366	Motorola	SN54LS366A	
	SGS-Thomson	T54LS160				SN54LS194A				54LS260A			National	DM54LS366	
SN54LS161A	TI	SN54LS160A		SN54LS195	TI	SN54LS194A				T54LS260				54LS366A	
	National	DM54LS161A			Motorola	SN54LS195A		SN54LS260A	National	54LS260		SN54LS366	SGS-Thomson	T54LS366	
		54LS161A			National	DM54LS195A				54LS260				SN54LS366A	
	SGS-Thomson	T54LS161		SN54LS195A	SGS-Thomson	54LS195A				T54LS260			TI	SN54LS366A	
		54LS161A				T54LS195		SN54LS266	National	DM54LS266		SN54LS366A	National	DM54LS366	
SN54LS162A	TI	SN54LS161A				54LS195A				54LS266				54LS366A	
	National	DM54LS162A		SN54LS195A	Signetics	54LS195A			SGS-Thomson	T54LS266			SGS-Thomson	T54LS366	
		54LS162A			TI	SN54LS195A		SN54LS27	TI	SN54LS266		SN54LS367A	TI	SN54LS366A	
	SGS-Thomson	T54LS162			National	DM54LS195A			National	DM54LS27			National	54LS367A	
		SN54LS162A				54LS195A				54LS27				54LS367A	
SN54LS163A	TI	SN54LS162A			SGS-Thomson	T54LS195			SGS-Thomson	T54LS27			SGS-Thomson	T54LS367	
	National	DM54LS163				54LS195A		SN54LS273	TI	SN54LS27			Signetics	54LS367A	
		DM54LS163A		SN54LS196	TI	SN54LS195A			National	DM54LS273		SN54LS368A	TI	SN54LS367A	
		54LS163A			National	DM54LS196				54LS273			National	DM54LS368	
	SGS-Thomson	T54LS163			SGS-Thomson	T54LS196				T54LS273				54LS368A	
SN54LS164	Signetics	54LS163A				SN54LS196			SGS-Thomson	T54LS273			SGS-Thomson	T54LS368	
	TI	SN54LS163A		SN54LS197	TI	SN54LS196				54LS273				SN54LS368A	
	National	DM54LS164			National	DM54LS197		SN54LS279	Signetics	SN54LS273		SN54LS37	TI	SN54LS368A	
		54LS164			SGS-Thomson	T54LS197			TI	DM54LS279			National	DM54LS37	
	SGS-Thomson	T54LS164				54LS197				54LS279				54LS37	
	Signetics	54LS164		SN54LS20	TI	SN54LS197			SGS-Thomson	T54LS279			SGS-Thomson	T54LS37	
	TI	SN54LS164			National	DM54LS20				SN54LS279A			TI	SN54LS37	
		54LS164				54LS20									
		(Continued)				(Continued)				(Continued)				(Continued)	

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				(Cont'd)											
SN54LS373	National	DM54LS373		SN54LS670	SGS-Thomson	T54LS670		SN74ALS09	National	DM74ALS09		SN74ALS641	National	DM74ALS641	
	SGS-Thomson				TI	SN54LS670		SN74ALS160	National	DM74ALS160		SN74ALS642	National	DM74ALS642	
	Signetics	T54LS373		SN54LS673	TI	SN54LS673		SN74ALS161	National	DM74ALS161		SN74ALS643	National	DM74ALS643	
SN54LS374	TI	SN54LS373		SN54LS674	TI	SN54LS674			Signetics	74ALS161		SN74ALS644	National	DM74ALS644	
	National	DM54LS374		SN54LS682	TI	SN54LS682		SN74ALS162	National	DM74ALS162		SN74ALS646	National	DM74ALS646	
	SGS-Thomson	54LS374		SN54LS684	TI	SN54LS684		SN74ALS163	Mitsubishi	M74ALS163		SN74ALS647	National	DM74ALS647	
	Signetics	T54LS374		SN54LS685	TI	SN54LS685			National	DM74ALS163		SN74ALS648	National	DM74ALS648	
SN54LS375	TI	SN54LS374		SN54LS688	TI	SN54LS688		SN74ALS163	Signetics	74ALS163		SN74ALS649	National	DM74ALS649	
	National	54LS375		• SN54LS73	Motorola	SN54LS73A			TI	SN74ALS163		SN74ALS690	National	DM74ALS690	
SN54LS377	TI	SN54LS375			National	DM54LS73A		SN74ALS192	National	DM74ALS192		SN74ALS691	National	DM74ALS691	
	SGS-Thomson	54LS377		• SN54LS73A	National	DM54LS73A		SN74ALS193	Mitsubishi	M74ALS193		SN74ALS692	National	DM74ALS692	
	Signetics	T54LS377			TI	SN54LS73A			National	DM74ALS193		SN74ALS693	National	DM74ALS693	
SN54LS378	TI	SN54LS377		• SN54LS74	Motorola	SN54LS74A		SN74ALS240	Mitsubishi	M74ALS240A-1		SN74ALS697	National	DM74ALS697	
	National	54LS378			National	DM54LS74A			Signetics	74ALS193		SN74ALS698	National	DM74ALS698	
	SGS-Thomson				TI	SN54LS74A		SN74ALS241	National	DM74ALS241		SN74ALS74	National	DM74ALS74	
SN54LS379	TI	SN54LS378		• SN54LS74	SGS-Thomson	T54LS74			TI	SN74ALS241A-1		SN74ALS873	National	DM74ALS873	
	National	54LS379			Signetics	54LS74A		SN74ALS242	National	DM74ALS242		SN74ALS874	National	DM74ALS874	
	SGS-Thomson			SN54LS74A	National	DM54LS74A			TI	SN74ALS242A		SN74ALS876	National	DM74ALS876	
	TI	SN54LS379			SGS-Thomson	54LS74		SN74ALS241	Mitsubishi	M74ALS241A-1		SN74ALS877	National	DM74ALS877	
SN54LS38	National	DM54LS38			Signetics	54LS74			National	DM74ALS241		SN74ALS880	National	DM74ALS880	
	SGS-Thomson	54LS38			TI	SN54LS74A			Signetics	74ALS241A-1		SN74LS00	Hitachi	HD74LS00	
	TI	SN54LS38		SN54LS75	Signetics	54LS75		SN74ALS242	National	DM74ALS242			National	DM74LS00	
SN54LS385	TI	SN54LS385			TI	SN54LS75		SN74ALS243	National	DM74ALS243			Panasonic	DM74LS00	
SN54LS386	Lansdale	SL8241		SN54LS76A	National	DM54LS76			TI	SN74ALS243A			SGS-Thomson	T74LS00	
	National	DM54LS386			TI	SN54LS76A		SN74ALS244	Mitsubishi	M74ALS244A-1			Signetics	74LS00	
	TI	SN54LS386		SN54LS77	National	DM54LS77			National	DM74ALS244		SN74LS01	Hitachi	HD74LS01	
SN54LS390	SGS-Thomson	T54LS390		SN54LS78A	National	DM54LS78A			Signetics	74ALS244A-1			National	74LS01	
	TI	SN54LS390		• SN54LS83	Motorola	SN54LS83A			TI	SN74ALS244A-1			Panasonic	DN74LS01	
SN54LS393	SGS-Thomson	T54LS393			National	DM54LS83A		SN74ALS245	Mitsubishi	M74ALS245A-1			SGS-Thomson	T74LS01	
	Signetics	54LS393		• SN54LS83	SGS-Thomson	T54LS83			National	DM74ALS245			Signetics	74LS01	
	TI	SN54LS393			Signetics	54LS83A		SN74ALS273	Mitsubishi	M74ALS273		SN74LS02	Hitachi	HD74LS02	
SN54LS395	National	54LS395		SN54LS83A	National	DM54LS83A			Signetics	74ALS245A-1			National	DM74LS02	
	SGS-Thomson				SGS-Thomson	54LS83A			TI	SN74ALS245A-1				74LS02	
SN54LS40	TI	SN54LS395A			Signetics	54LS83A		SN74ALS273	National	DM74ALS273			Panasonic	DN74LS02	
	National	DM54LS40			TI	SN54LS83A			Signetics	74ALS273			SGS-Thomson	T74LS02	
	SGS-Thomson	54LS40		SN54LS85	National	DM54LS85		SN74ALS32	National	DM74ALS32			Signetics	74LS02	
	TI	SN54LS40			Signetics	54LS85			Signetics	74ALS32		SN74LS03	Hitachi	HD74LS03	
SN54LS42	National	DM54LS42			TI	SN54LS85			TI	SN74ALS32			National	DM74LS03	
	SGS-Thomson	54LS42		SN54LS86	National	DM54LS86		SN74ALS373	Mitsubishi	M74ALS373				74LS03	
	TI	T54LS42			SGS-Thomson				National	DM74ALS373			Panasonic	DN74LS03	
SN54LS47	National	DM54LS47			Signetics	T54LS86			Signetics	74ALS373			SGS-Thomson	T74LS03	
	TI	54LS47			TI	SN54LS86A		SN74ALS374	Mitsubishi	M74ALS374		SN74LS04	TI	SN74LS03	
	TI	SN54LS47		SN54LS90	National	DM54LS90			National	DM74ALS374			Hitachi	HD74LS04	
SN54LS49	National	DM54LS49			SGS-Thomson				Signetics	74ALS374			National	DM74LS04	
	TI	54LS49			TI	T54LS90		SN74ALS377	National	DM74ALS377				74LS04	
SN54LS490	National	54LS490			TI	SN54LS90			Signetics	74ALS377			Panasonic	DN74LS04	
	SGS-Thomson			• SN54LS91	National	DM54LS91		SN74ALS573	National	DM74ALS573			SGS-Thomson	T74LS04	
	TI	T54LS490		SN54LS92	SGS-Thomson	DM54LS92			Signetics	74ALS573			Signetics	74LS04	
SN54LS51	National	DM54LS51			TI	T54LS92		SN74ALS574	National	DM74ALS574		SN74LS05	Hitachi	HD74LS05	
	SGS-Thomson	54LS51		SN54LS93	National	DM54LS93			Signetics	74ALS574			National	DM74LS05	
	TI	SN54LS51			SGS-Thomson				TI	SN74ALS574				74LS05	
SN54LS54	National	DM54LS54			TI	T54LS93		SN74ALS576	National	DM74ALS576			Panasonic	DN74LS05	
	SGS-Thomson	54LS54		SN54LS95B	National	DM54LS95B			TI	SN74ALS576			SGS-Thomson	T74LS05	
	TI	T54LS54			SGS-Thomson			SN74ALS580	National	DM74ALS580			Signetics	74LS05	
• SN54LS540	TI	SN54LS54			TI	T54LS95			TI	SN74ALS580A		SN74LS08	TI	SN74LS05	
SN54LS55	National	DM54LS55			SGS-Thomson	54LS95B		SN74ALS620	Mitsubishi	M74ALS620A-1			Hitachi	HD74LS08	
	SGS-Thomson	54LS55		SN74ALS00	National	DM74ALS00			National	DM74ALS620			National	DM74LS08	
	TI	T54LS55			Signetics	74ALS00			TI	74ALS620A-1				74LS08	
SN54LS640	TI	SN54LS640			TI	SN74ALS00		SN74ALS621	National	DM74ALS621			Panasonic	DN74LS08	
SN54LS641	TI	SN54LS641		SN74ALS02	National	DM74ALS02			TI	SN74ALS621A			Signetics	74LS08	
SN54LS642	TI	SN54LS642			Signetics	74ALS02		SN74ALS623	Mitsubishi	M74ALS623A-1		SN74LS09	TI	SN74LS08	
SN54LS644	TI	SN54LS644		SN74ALS04	National	DM74ALS04			National	DM74ALS623			Hitachi	HD74LS09	
SN54LS645	TI	SN54LS645			Signetics	74ALS04			Signetics	74ALS623			National	DM74LS09	
SN54LS668	TI	SN54LS668			TI	SN74ALS04		SN74ALS640	National	DM74ALS640				74LS09	
SN54LS669	TI	SN54LS669		SN74ALS08	National	DM74ALS08			TI	SN74ALS640A			Panasonic	DN74LS09	
SN54LS670	National	DM54LS670			Signetics	74ALS08		SN74ALS640	National	DM74ALS640			SGS-Thomson	T74LS09	
		54LS670			TI	SN74ALS08			TI				TI	SN74LS09	

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
SN74LS10	Hitachi National	HD74LS10 DM74LS10 74LS10		SN74LS13	Signetics TI	74LS13 SN74LS13		SN74LS156	Panasonic SGS-Thomson	DN74LS156 T74LS156		SN74LS170	Panasonic SGS-Thomson	DN74LS170 T74LS170	
	Panasonic SGS-Thomson	DN74LS10		SN74LS132	Hitachi National	DM74LS132 74LS132			Signetics TI	74LS156 SN74LS156		• SN74LS173	TI Motorola	SN74LS173A DM74LS173	
SN74LS109	Hitachi National	HD74LS109 DM74LS109 74LS109			Panasonic SGS-Thomson	DN74LS132		SN74LS157	Hitachi National	HD74LS157 DM74LS157 74LS157		• SN74LS173	Panasonic SGS-Thomson	DN74LS173	
	Panasonic SGS-Thomson	DN74LS109		SN74LS133	Signetics TI	T74LS132 74LS132 SN74LS132			Panasonic SGS-Thomson	DN74LS157			Signetics TI	T74LS173 74LS173	
SN74LS11	Hitachi National	HD74LS11 DM74LS11 74LS11		SN74LS136	Hitachi National	HD74LS136 DM74LS136 74LS136		SN74LS158	Hitachi National	HD74LS158 DM74LS158 74LS158		SN74LS173A	National	DM74LS173 74LS173	
	Panasonic SGS-Thomson	DN74LS11			Panasonic SGS-Thomson	DN74LS136			Panasonic SGS-Thomson	DN74LS158			Panasonic SGS-Thomson	DN74LS173	
SN74LS112A	Hitachi National	HD74LS112 DM74LS112 74LS112		SN74LS137	Signetics TI	T74LS136 74LS136 SN74LS136		SN74LS160A	Hitachi National	HD74LS160A DM74LS160 74LS160		SN74LS174	Hitachi National	DM74LS174 74LS174	
	Panasonic SGS-Thomson	DN74LS112		SN74LS138	Hitachi National	HD74LS138 DM74LS138 74LS138			Panasonic SGS-Thomson	DN74LS160A			Panasonic SGS-Thomson	DN74LS174	
SN74LS113A	Hitachi National	HD74LS113 DM74LS113 74LS113		SN74LS139	Panasonic SGS-Thomson	DN74LS138		SN74LS161A	Hitachi National	HD74LS161A DM74LS161 74LS161A		SN74LS175	Hitachi National	DM74LS175 74LS175	
	Panasonic SGS-Thomson	DN74LS113			Signetics TI	T74LS138 74LS138 SN74LS138			Signetics TI	74LS160 74LS160A SN74LS160A			Panasonic SGS-Thomson	DN74LS175	
• SN74LS114	Hitachi Motorola National	DM74LS114 SN74LS114A DM74LS114		SN74LS14	Hitachi National	HD74LS14 DM74LS14 74LS14		SN74LS162A	Panasonic SGS-Thomson	DN74LS162A		SN74LS181	Hitachi National	DM74LS181 74LS181	
	Panasonic SGS-Thomson	DN74LS114			Panasonic SGS-Thomson	DN74LS14			Signetics TI	T74LS161 74LS161A SN74LS161A			TI	SN74LS181	
SN74LS114A	Hitachi National	HD74LS114 DM74LS114 74LS114		SN74LS145	Hitachi National	HD74LS145 DM74LS145 74LS145		SN74LS163A	Hitachi National	HD74LS163A DM74LS163 74LS163		SN74LS190	Hitachi National	DM74LS190 74LS190	
	Panasonic SGS-Thomson	DN74LS114		SN74LS147	Hitachi	HD74LS147			Panasonic SGS-Thomson	DN74LS163A			Panasonic SGS-Thomson	DN74LS190	
SN74LS12	Hitachi National	HD74LS12 DM74LS12 74LS12		SN74LS148	Hitachi	HD74LS148		• SN74LS164	Hitachi Motorola	DM74LS164 SN74LS164		SN74LS191	Hitachi National	DM74LS191 74LS191	
	Panasonic SGS-Thomson	DN74LS12			SGS-Thomson				Panasonic SGS-Thomson	DN74LS164			Panasonic SGS-Thomson	DN74LS191	
SN74LS122	Hitachi National	HD74LS122 DM74LS122 74LS122		SN74LS15	TI	SN74LS15		• SN74LS164	Panasonic SGS-Thomson	DN74LS164		SN74LS192	Hitachi National	DM74LS192 74LS192	
SN74LS123	Hitachi National	HD74LS123 DM74LS123 74LS123		SN74LS151	Hitachi	HD74LS151A DM74LS151 74LS151			Signetics TI	T74LS162 74LS162A SN74LS162A			Signetics TI	SN74LS192	
SN74LS125A	Hitachi National	HD74LS125A DM74LS125A 74LS125A			National	DM74LS151		• SN74LS164	Hitachi National	HD74LS164 DM74LS164 74LS164		SN74LS193	Hitachi National	DM74LS193 74LS193	
	Panasonic SGS-Thomson	DN74LS125A		• SN74LS152	Panasonic SGS-Thomson	DN74LS151		SN74LS164A	Hitachi National	HD74LS164A DM74LS164 74LS164			Panasonic SGS-Thomson	DN74LS193	
• SN74LS126	Motorola National	DM74LS126 74LS126			Hitachi	HD74LS152			Panasonic SGS-Thomson	DN74LS164		• SN74LS194	Hitachi Motorola	DM74LS194 74LS194	
	SGS-Thomson			SN74LS153	Hitachi National	HD74LS153 DM74LS153 74LS153		SN74LS165	National SGS-Thomson	74LS165		• SN74LS194	Panasonic SGS-Thomson	DN74LS194A	
SN74LS126A	Hitachi National	HD74LS126A DM74LS126 74LS126			Panasonic SGS-Thomson	DN74LS153		SN74LS166	TI National	SN74LS166A DM74LS166			Signetics TI	SN74LS194A	
	SGS-Thomson			SN74LS155	Hitachi National	HD74LS155 DM74LS155 74LS155		SN74LS168	TI National	SN74LS166A DM74LS168		SN74LS194A	Hitachi National	DM74LS194 74LS194A	
SN74LS13	Hitachi National	HD74LS13 DM74LS13 74LS13			Panasonic SGS-Thomson	DN74LS155		SN74LS169	National	DM74LS169 74LS169		• SN74LS195	Panasonic SGS-Thomson	DN74LS194A	
	Panasonic SGS-Thomson	DN74LS13		SN74LS156	Hitachi National	HD74LS156 DM74LS156 74LS156			SGS-Thomson				Signetics TI	74LS194A SN74LS194A	
					Signetics TI	74LS155 SN74LS155A		SN74LS170	Hitachi National	DM74LS170 74LS170			GoldStar Motorola	GL7924 MC7924	
														SN74LS195A	

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				SN74LS241	Hitachi	HD74LS241		SN74LS258A	(Cont'd)				SN74LS299	National	74LS299
• SN74LS195	National	μA7924 DM74LS195 LM7924 74LS195A			National	74LS241			Signetics	74LS258			SGS-Thomson	T74LS299	
• SN74LS195	Panasonic	DN74LS195A			Panasonic	DN74LS241		SN74LS259	TI	SN74LS258B			TI	SN74LS299	
	SGS-Thomson	MC7924C			SGS-Thomson				SGS-Thomson	74LS259			Hitachi	HD74LS30	
		L7924		SN74LS242	Signetics	74LS241				74LS259			National	DM74LS30	
• SN74LS195	TI	T74LS195A			TI	SN74LS241		SN74LS26	Signetics	74LS259			Panasonic	DN74LS30	
• SN74LS195	Toshiba	TA79024			National	74LS242A			TI	SN74LS259B			SGS-Thomson	T74LS30	
SN74LS195A	GoldStar	GL7924		SN74LS243	Signetics	74LS242			Hitachi	HD74LS26			Signetics	74LS30	
	Hitachi	HD74LS195A			TI	SN74LS242			National	DM74LS26			TI	SN74LS30	
	Motorola	MC719924		SN74LS244	Hitachi	HD74LS244			Panasonic	DN74LS26			SGS-Thomson	DM74LS32	
		MC7924			National	74LS244		SN74LS260	SGS-Thomson	74LS26				T74LS32	
	National	μA7924			Panasonic	DN74LS244		SN74LS266		74LS266				74LS32	
		DM74LS195		SN74LS245	SGS-Thomson	74LS244			Signetics	74LS26			SN74LS322	National	74LS322
	Panasonic	DN74LS195A				74LS244			TI	SN74LS26			TI	SN74LS322A	
	SGS-Thomson	MC7924C			Signetics	74LS244			National	74LS260			SN74LS323	National	54LS323
		L7924			TI	SN74LS244			Lansdale	ML8242				74LS323	
		T74LS195A		SN74LS247	Hitachi	HD74LS247				DM74LS266				TI	SN54LS323
	TI	μA7924			National	74LS247		SN74LS27		74LS266			SN74LS33	National	74LS33
		SN74LS195A			TI	SN74LS247			Hitachi	HD74LS27			Panasonic	DM74LS33	
• SN74LS195A	Toshiba	TA79024		SN74LS248	Hitachi	HD74LS248			National	DM74LS27			SGS-Thomson	T74LS33	
	GoldStar	GL7924			National	DM74LS248				74LS27			SN74LS352	National	DM74LS352
	Hitachi	HD74LS195A			SGS-Thomson	74LS248			Panasonic	DN74LS27				74LS352	
	Motorola	MC719924				74LS248		SN74LS273	SGS-Thomson	74LS27				TI	SN74LS352
		MC7924				74LS248				74LS27				TI	SN74LS352
		SN74LS195A		SN74LS249	Hitachi	HD74LS249			National	74LS273				National	DM74LS353
• SN74LS195A	National	μA7924			National	DM74LS249			SGS-Thomson	74LS273				74LS353	
		DM74LS195			SGS-Thomson	74LS249				74LS273				TI	SN74LS353
		LM7924				74LS249		SN74LS279		74LS273				National	DM74LS365
		74LS195A		SN74LS251	Hitachi	HD74LS251			Signetics	74LS273					74LS365A
• SN74LS195A	Panasonic	DN74LS195A			National	DM74LS251			TI	SN74LS273			SN74LS365A	National	DM74LS365
	SGS-Thomson	MC7924C				74LS251			Hitachi	HD74LS279				Panasonic	DN74LS365A
		L7924			Panasonic	DN74LS251			National	DM74LS279				SGS-Thomson	T74LS365
		T74LS195A			SGS-Thomson	74LS251				74LS279					74LS365A
• SN74LS195A	TI	μA7924			Signetics	74LS251			Panasonic	DN74LS279				Signetics	74LS365A
• SN74LS195A	Toshiba	TA79024			TI	SN74LS251			SGS-Thomson	74LS279				TI	SN74LS365A
SN74LS196	National	DM74LS196		SN74LS253	Hitachi	HD74LS253			Signetics	74LS279			SN74LS366A	National	DM74LS366
		74LS196			National	DM74LS253			TI	SN74LS279A					74LS366A
	Panasonic	DN74LS196				DM8214		SN74LS28	National	74LS28				Panasonic	DN74LS366A
	SGS-Thomson	T74LS196				74LS253			SGS-Thomson	74LS28				SGS-Thomson	T74LS366
		N82580			Panasonic	DN74LS253			TI	SN74LS28					T74LS366A
SN74LS197	TI	SN74LS196			SGS-Thomson	74LS253		SN74LS280	Hitachi	HD74LS280				Signetics	74LS366A
	National	DM74LS197				74LS253			Panasonic	DN74LS280				TI	SN74LS366A
		74LS197			Signetics	74LS253			SGS-Thomson	74LS280			SN74LS367A	Hitachi	HD74LS367A
	Panasonic	DN74LS197		SN74LS256	National	74LS256			TI	SN74LS280				National	DM74LS367
	SGS-Thomson	T74LS197			SGS-Thomson	74LS256			Hitachi	HD74LS283					74LS367A
		74LS197				74LS256		SN74LS283	National	DM74LS283				Panasonic	DN74LS367A
SN74LS20	TI	SN74LS197			Signetics	74LS256				74LS283				SGS-Thomson	T74LS367
	Hitachi	HD74LS20		• SN74LS257	TI	SN74LS257			Panasonic	DN74LS283					T74LS367A
	National	DM74LS20			Hitachi	HD74LS257		• SN74LS289	Signetics	74LS283					74LS367A
		74LS20			Motorola	SN74LS257A		SN74LS290	TI	SN74LS283			SN74LS368A	Hitachi	HD74LS368
	Panasonic	DN74LS20			National	DM74LS257			National	DM74LS290				National	DM74LS368
	SGS-Thomson	T74LS20				74LS257A				74LS290					74LS368A
		74LS20		• SN74LS257	SGS-Thomson	74LS257				74LS290				Panasonic	DN74LS368A
SN74LS21	TI	SN74LS20			Signetics	74LS257			Panasonic	DN74LS290				SGS-Thomson	T74LS368
	Hitachi	HD74LS21				74LS257A			SGS-Thomson	74LS290					74LS368A
	National	DM74LS21		• SN74LS257	TI	SN74LS257B				74LS290			SN74LS37	Hitachi	HD74LS37
		74LS21		SN74LS257A	Hitachi	HD74LS257				74LS290				National	DM74LS37
	Panasonic	DN74LS21			National	DM74LS257				74LS290					74LS37
	SGS-Thomson	T74LS21				74LS257A				74LS290				Panasonic	DN74LS37
		74LS21			SGS-Thomson	74LS257		SN74LS293	Hitachi	HD74LS293				SGS-Thomson	T74LS37
SN74LS22	TI	SN74LS21			Signetics	74LS257			National	DM74LS293					74LS37
	Hitachi	HD74LS22				74LS257A				74LS293					DM74LS37
	National	DM74LS22		• SN74LS258	TI	SN74LS257B				74LS293					74LS37
	Panasonic	DN74LS22			Hitachi	HD74LS258			Panasonic	DN74LS293			SN74LS373	National	74LS373
	SGS-Thomson	T74LS22			Motorola	SN74LS258A			SGS-Thomson	74LS293				Panasonic	DM74LS373
SN74LS221	Hitachi	HD74LS221			National	74LS258A				74LS293				SGS-Thomson	T74LS373
	National	DM74LS221		• SN74LS258	Panasonic	DN74LS258A		SN74LS295A	Signetics	74LS293					74LS373
		74LS221			SGS-Thomson	74LS258			TI	SN74LS293					SN74LS373
	TI	SN74LS221				74LS258			National	74LS295A					DM74LS374
SN74LS240	Hitachi	HD74LS240			Signetics	74LS258			SGS-Thomson	74LS295A					74LS374
	National	74LS240			TI	SN74LS258B				74LS295B			SN74LS374	National	DM74LS374
	Panasonic	DN74LS240		SN74LS258A	Hitachi	HD74LS258				74LS298				SGS-Thomson	T74LS374
	SGS-Thomson	T74LS240			National	DM74LS258		SN74LS298	Hitachi	HD74LS298					74LS374
		74LS240				74LS258A			National	74LS298					74LS374
		SN74LS240			Panasonic	DN74LS258A			SGS-Thomson	74LS298				Signetics	SN74LS374
	TI	SN74LS240			SGS-Thomson	74LS258				74LS298				TI	SN74LS374
		(Continued)				(Continued)				SN74LS298					(Continued)

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
SN74LS375	National	74LS375		SN74LS51	Signetics	74LS51		SN74LS83	Hitachi	HD74LS83A		SN75172	National	DS3695	
	Signetics	74LS375			TI	SN74LS51			Motorola	SN74LS83A			TI	DS8T28	
	TI	SN74LS375		SN74LS54	Hitachi	HD74LS54			National	74LS83A				SN751176B	
SN74LS377	National	74LS377			National	DM74LS54		SN74LS83	Panasonic	DN74LS83A				SN75145	
	SGS-Thomson	74LS377			Panasonic	DN74LS54			SGS-Thomson	T74LS83				SN75172	
		T74LS377			SGS-Thomson	T74LS54				74LS83A				SN75173	
	Signetics	74LS377				T74LS54			Signetics	SN74LS83A				SN75174	
	TI	SN74LS377			Signetics	74LS54		SN74LS83A	TI	SN74LS83A				SN75175	
SN74LS378	National	74LS378			TI	SN74LS54			Hitachi	HD74LS83A		SN75173	Motorola	SN75177B	
	SGS-Thomson	74LS378		SN74LS540	National	74LS540			National	DM74LS83A				SN75172	
		T74LS378			SGS-Thomson	74LS540				74LS83A				SN75174	
	Signetics	74LS378				T74LS540			Panasonic	DN74LS83A				SN75175	
	TI	SN74LS378			Signetics	74LS540			SGS-Thomson	T74LS83			National	μA8T28	
SN74LS379	National	74LS379			TI	SN74LS540				74LS83A				μA96172	
	SGS-Thomson	74LS379		SN74LS541	SGS-Thomson	T74LS541			Signetics	SN74LS83A				μA96173	
		T74LS379				T74LS541		SN74LS85	TI	SN74LS83A				μA96174	
	TI	SN74LS379			Signetics	74LS541			Hitachi	HD74LS85				μA96175	
SN74LS38	Hitachi	HD74LS38		SN74LS55	TI	SN74LS541			National	DM74LS85				μA96176	
	National	DM74LS38			Hitachi	HD74LS55				74LS85				μA96177	
		74LS38			National	DM74LS55			Panasonic	DN74LS85				μA96178	
	Panasonic	DN74LS38				74LS55			Signetics	74LS85				DS3695	
	SGS-Thomson	74LS38			Panasonic	DN74LS55		SN74LS86	TI	SN74LS85				DS8T28	
		T74LS38			SGS-Thomson	T74LS55			Hitachi	HD74LS86			TI	SN751176B	
	Signetics	74LS38				T74LS55			National	DM74LS86				SN75145	
SN74LS386	Hitachi	HD74LS386		SN74LS569	TI	SN74LS55				74LS86				SN75172	
	National	DM74LS386		SN74LS607	Signetics	74LS569		SN74LS86	Panasonic	DN74LS86				SN75173	
	Panasonic	DN74LS386		SN74LS640	TI	SN74LS607			SGS-Thomson	T74LS86				SN75174	
	TI	SN74LS386A				SN74LS640				74LS86				SN75175	
SN74LS390	Panasonic	DN74LS390		SN74LS641	Signetics	74LS641			Signetics	SN74LS86A				SN75177B	
	SGS-Thomson	74LS390			TI	SN74LS641		SN74LS90	TI	SN74LS86A			Motorola	SN75172	
		T74LS390				SN74LS641			National	DM74LS90				SN75173	
	TI	SN74LS390		SN74LS642	Signetics	74LS642				74LS90				SN75175	
SN74LS393	National	74LS393		SN74LS644	TI	SN74LS642			Panasonic	DN74LS90			National	SN75177	
	Panasonic	DN74LS393		SN74LS645	SGS-Thomson	SN74LS644			SGS-Thomson	T74LS90				μA8T28	
	SGS-Thomson	74LS393				T74LS645				74LS90				μA96172	
		T74LS393			Signetics	SN74LS645-1		SN74LS91	Signetics	SN74LS90				μA96173	
	Signetics	74LS393				74LS645			TI	SN74LS90				μA96174	
	TI	SN74LS393			TI	SN74LS645			Hitachi	HD74LS91				μA96175	
SN74LS395	National	74LS395		SN74LS669	TI	SN74LS645-1			TI	SN74LS91				μA96176	
		74LS395		SN74LS670	National	SN74LS669		SN74LS92	Hitachi	HD74LS92				μA96177	
	Panasonic	DN74LS395A				SN74LS670			National	DM74LS92				μA96178	
	SGS-Thomson	74LS395A				74LS670			Panasonic	DN74LS92				DS3695	
		T74LS395			SGS-Thomson	T74LS670			SGS-Thomson	T74LS92			TI	SN751176B	
	Signetics	74LS395				74LS670				74LS92				SN75145	
	TI	SN74LS395A			Signetics	SN74LS670		SN74LS93	Signetics	SN74LS92				SN75172	
SN74LS398	SGS-Thomson	74LS398		SN74LS674	TI	SN74LS670			TI	SN74LS92				SN75173	
		T74LS398			TI	SN74LS674			Hitachi	HD74LS93				SN75174	
SN74LS399	TI	SN74LS398		SN74LS73	Hitachi	HD74LS73			National	DM74LS93				SN75175	
	SGS-Thomson	74LS399			Motorola	SN74LS73A			Panasonic	DN74LS93				SN75177B	
		T74LS399			National	DM74LS73			SGS-Thomson	T74LS93			Motorola	SN75172	
	TI	SN74LS399			Panasonic	DN74LS73				74LS93				SN75173	
SN74LS40	Hitachi	HD74LS40			Signetics	74LS73			Signetics	SN74LS93				SN75174	
	National	DM74LS40		SN74LS73A	TI	SN74LS73A		SN74LS95	TI	SN74LS93				SN75177	
		74LS40			Hitachi	HD74LS73			Hitachi	HD74LS95B			National	μA8T28	
	Panasonic	DN74LS40			National	DM74LS73			Motorola	SN74LS95B				μA96172	
	SGS-Thomson	74LS40			Panasonic	DN74LS73			National	DM74LS95B				μA96173	
		T74LS40			Signetics	74LS73				74LS95B				μA96174	
	TI	SN74LS40				SN74LS73A		SN74LS95	Panasonic	DN74LS95B				μA96175	
SN74LS42	Hitachi	HD74LS42		SN74LS74	Hitachi	HD74LS74A			SGS-Thomson	T74LS95				μA96176	
	National	DM74LS42			Motorola	SN74LS74A				T74LS95B				μA96177	
		74LS42			National	DM74LS74				74LS95B				μA96178	
	Panasonic	DN74LS42				74LS74				SN74LS95B				DS3695	
	SGS-Thomson	74LS42		SN74LS74	Panasonic	DN74LS74A				HD74LS95B			TI	SN751176B	
		T74LS42			SGS-Thomson	T74LS74		SN74LS95B	Hitachi	HD74LS95B				SN75145	
	TI	SN74LS42				74LS74			National	DM74LS95B				SN75172	
SN74LS47	Hitachi	HD74LS47			Signetics	74LS74				74LS95B				SN75173	
	National	DM74LS47		SN74LS74A	TI	SN74LS74A			Panasonic	DN74LS95B				SN75174	
		74LS47			Hitachi	HD74LS74A			SGS-Thomson	T74LS95				SN75175	
	SGS-Thomson	74LS47			National	DM74LS74				T74LS95B				SN75177B	
		T74LS47				74LS74				74LS95B				HD74LS76	
	TI	SN74LS47			Panasonic	DN74LS74A		SN74S112	Signetics	SN74LS95B				SN74LS76A	
SN74LS48	National	DM74LS48			SGS-Thomson	T74LS74			TI	SN74LS95B				DM74LS76	
		74LS48				74LS74			National	DM74S112				DN74LS76	
	SGS-Thomson	74LS48				T74LS74				74S112				74LS76	
		T74LS48			Signetics	SN74LS74A				74S112				SN74LS76A	
	Signetics	74LS48		SN74LS75	TI	SN74LS75			Signetics	SN74S112				SN75172	
	National	DM74LS49			Hitachi	HD74LS75		SN74S113	TI	SN74S112				SN75173	
	SGS-Thomson	74LS49			National	DM74LS75			Lansdale	ML3062	(3514)			SN75174	
		T74LS49			Panasonic	DN74LS75			National	DM74S113				SN75175	
	TI	SN74LS49			SGS-Thomson	T74LS75		SN75172	TI	SN74S113			National	μA8T28	
SN74LS490	National	74LS490				74LS75			Motorola	SN75173				μA96172	
	Panasonic	DN74LS490			Signetics	74LS75				SN75174				μA96173	
	SGS-Thomson	74LS490		SN74LS76A	TI	SN74LS75				SN75175				μA96174	
		T74LS490			Hitachi	HD74LS76				SN75177				μA96175	
	Signetics	74LS490			Motorola	SN75176			National	μA8T28				μA96176	
	Hitachi	HD74LS51			National	DM74LS76				μA96172				μA96177	
SN74LS51	National	DM74LS51			Panasonic	DN74LS76				μA96173				μA96178	
		74LS51		SN74LS78A	Signetics	74LS76				μA96174				DS3695	
	Panasonic	DN74LS51			TI	SN74LS76A				μA96175				DS8T28	
	SGS-Thomson	T74LS51			National	DM74LS78				μA96176					
		T74LS51			Panasonic	DN74LS78				μA96177					
					TI	SN74LS78A				μA96178					

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Motorola (Cont'd)				ULN2002 (Cont'd)				National Semiconductor				μA108A (Cont'd)			
SN75177	TI	SN751176B	(Cont'd)	SGS-Thomson	ULN2002			μAF255	AD	PM155		SGS-Thomson	LM108A		
		SN75145		SiliconG	SG2002	(3643)		μAF255	MicroPwr	PM255		TI	LM108A		
		SN75172		TI	ULN2002				National	MP255		Motorola	LM109		
		SN75173		Allegro	ULN2003				SGS-Thomson	LF255		National	LM109		
		SN75174		Micro	ULN2003			μAF256	National	LM255		SiliconG	SG109	(3642)	
		SN75175		Exar	XR2003C				SGS-Thomson	LF256		LinearTech	LM111		
		SN75177B			XR2203					LM256		Motorola	LM111		
SN75178	TI	SN75178		SiliconG	SG2003	(3643)		μAF355	AD	OP15		National	LM111		
TCA4500	National	LM4500		Allegro	ULN2004				SGS-Thomson	OP43		SiliconG	SG111	(3643)	
	Siemens	TCA4500		Micro	ULN2004			μAF355	LinearTech	LF355		LinearTech	LM117		
	TI	TMS4500A		Exar	ULS2004				Motorola	LF355		Motorola	LM117		
	VLSI Tech	VL4500A		SGS-Thomson	XR2204				National	LF355		SiliconG	SG117	(3642)	
TDA1085	Plessey	TDA1085			ULN2004			μAF356	SGS-Thomson	LF355		TI	TL117		
TDA1085A	Plessey	TDA1085A		SiliconG	SG2004	(3643)				OP16		Unitrode	UC117		
TDA1327	TI	SN76227		TI	ULN2004				LinearTech	LF356		LinearTech	LM123		
TL431	National	μA431			ULN2004A			μAF398	AD	OP16		Motorola	LM123		
	Samsung	KA431		Allegro	ULN2064	(3206)			Motorola	LF356		National	μA138		
TL493	TI	TL431		Micro	ULN2064				SGS-Thomson	LF356		SiliconG	SH123		
	Cherry Semi	CS593C		Mitsubishi	M54532			μAF398	LinearTech	LF398		AD	SG123		
	TI	TL493CN		SGS-Thomson	ULN2064				National	LF398		Harris	CA0124		
	UMC	UC493ACJ			ULN2064			μAF398	Signetics	LM298		LinearTech	LT1014		
	Unitrode	UC493ACN		TI	SN75064				TI	LF398		National	LM124A		
TL494	Cherry Semi	CS494M		Toshiba	ULN2064			μAF771	AD	OP16		SGS-Thomson	LM124		
	Exar	XR494			TD62064				SGS-Thomson	LF351		Signetics	LM124		
	Samsung	KA7500		Allegro	ULN2065	(3206)		μAF774	Exar	TL081		SiliconG	SG124		
TL780-05C	TI	TL494M		Micro	ULN2065				SGS-Thomson	XR084		AD	OP400		
TL780-12C	TI	TL780-05C		SGS-Thomson	ULN2065			μA0801	TI	TL084			CA0124		
TL780-15C	TI	TL780-12C			ULN2065				AD	AD1408		Harris	CA0124		
UC1842A	LinearTech	LT1842	(3642)	SiliconG	SG2065	(3642)			Hitachi	DAC1408		LinearTech	LT1014		
	SiliconG	SG1842		TI	SN75065			μA0802	Motorola	HA17008		National	μA124		
	TeledyneS	TSC18C42			ULN2065				National	MC1408		SGS-Thomson	LM124A		
	Unitrode	UC1842		ULN2066	ULN2066				AD	μA0802			LM124		
UC1843A	LinearTech	LT1843	(3642)		ULN2066			μA0802	AD	DAC0806		Signetics	LM124		
	SiliconG	SG1843		SiliconG	SG2066	(3642)			Hitachi	DAC0807		SiliconG	SG124		
	Unitrode	UC1843		TI	SN75066				Motorola	DAC0808		Exar	XR1310		
UC1844A	SGS-Thomson	UC1843A			ULN2066			μA0802	National	MA0802M		National	LM1310		
		UC1844		ULN2067	ULN2067					DAC0806		TI	SN76115		
	TeledyneS	TSC18C44			ULN2067			μA0802	AD	DAC0807		LinearTech	LM123		
	Unitrode	UC1844		SiliconG	SG2067	(3642)			Samsung	DAC0808		Motorola	LM123		
UC1845A	TeledyneS	TSC18C45		TI	SN75067					MA0802M		National	μA123		
		TSC28C45			ULN2067			μA0802	Signetics	KDA0806			LM123		
	Unitrode	UC1845		Allegro	ULN2068	(3206)			AD	KDA0807		SiliconG	SH123		
UC2842A	Unitrode	UC1845A		Micro	ULN2068				Hitachi	KDA0808		Harris	SG123		
UC2843A	Unitrode	UC2843A		SGS-Thomson	ULN2068			μA0802	AD	AD1408		Motorola	CA0139		
UC2844	Cherry Semi	CS2844			ULN2068				Hitachi	DAC1408		National	LM139		
	TeledyneS	TSC28C44		SiliconG	SG2068	(3642)			Motorola	HA17008		Raytheon	LM139		
	Unitrode	UC2844		TI	SN75068			μA0801	National	MC1408		Signetics	LM139		
UC2844A	Unitrode	UC2844A			ULN2068					μA0801		AD	OP14 (3245, 3248)		
UC3842	SGS-Thomson	UC3842		ULN2069	ULN2069					DAC0806		Exar	OP215		
		UC3842			ULN2069					DAC0807			OP270		
	SiliconG	SG3842	(3642)	SiliconG	SG2069	(3642)			Samsung	DAC0808			XR1458		
	TeledyneS	TSC38C42		TI	SN75069			μA101	Signetics	MA0802M		Fujitsu	MB3607		
	Unitrode	UC3842			ULN2069				AD	KDA0806		Harris	CA1458		
UC3842A	Cherry Semi	CS3842A		Allegro	ULN2074	(3206)			Hitachi	KDA0807			CA1558		
	TeledyneS	TSC28C42		Micro	ULN2074				AD	KDA0808		Hitachi	HA17458		
	Unitrode	UC3842A		SGS-Thomson	ULN2074					OP77		Motorola	MC4558		
UC3843A	Cherry Semi	CS3843A			ULN2074			μA101	LinearTech	LM101		National	SE4558		
	SGS-Thomson	UC3843	(3642)	SiliconG	SG2074	(3642)			Motorola	LM101			μA4558		
		UC3843		TI	ULN2074				Raytheon	LM101A		Raytheon	LM1558		
UC3844A	SiliconG	SG3843			ULN2075	(3206)		μA105	SiliconG	SG101			RC4558		
UC3845A	Unitrode	UC3843A		ULN2075	ULN2075				National	LM105		Samsung	RM4558		
UDN2841	Unitrode	UC3844A			ULN2075			μA108	SiliconG	SG105	(3642)	SGS-Thomson	MC4558		
	Allegro	UC3845A		SiliconG	SG2075	(3642)			AD	AD108			LS4558		
ULN2001	Allegro	UDN2841		TI	ULN2075					AD705		Signetics	MC4558		
	Micro				ULS2801					OP97			MC1458		
		ULN2001		SGS-Thomson	ULN2801					PM1008			MC1558		
		ULQ2001			ULN2801			μA108A	LinearTech	PM108			NE4558		
	Exar	ULS2001		SiliconG	SG2801	(3642)			Motorola	LM108		TI	SA4558		
		XR2001		Allegro	ULN2804				National	LT1097			SE4558		
		XR2001C		Micro	ULN2804					LM108			MC1458		
		XR2201			ULS2804					μA208			MC1558		
	SGS-Thomson	ULN2001		SGS-Thomson	ULN2804					LM108			MC4558C		
		ULN2001A			ULN2804					RC4097			RC4558		
ULN2002	Allegro	ULN2002		SiliconG	SG2804	(3642)			Raytheon	SSI32R108			RM4558		
	Micro	ULN2002		Toshiba	TD62084				SiliconSys	AD108A		Toshiba	TL4558		
		ULS2002			AL2905				AD	PM108A			TA75458		
	Exar	XR2002C		Lansdale	518128				Harris	LM108A		AD	TA75558		
		XR2202		Krueger	ML54H73			μA108A	LinearTech	LM108A			OP14 (3245, 3248)		
					68020	(3513)			Motorola	LM108A		Harris	OP270		
					ML8307				National	LM108A			HA2102		
					ML8304				Raytheon	LM108A			HA5102		
					ML9304										

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page			
National Semiconductor (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)						
μA1458HC	MicroPwr National	MPOP14	(3247)	μA208	National Raytheon	LH0044	(3250)	μA2524	National SGS-Thomson	LM2524	(3642)	μA301A	National	LM301	(3642)			
		LF412				OP77				SG2524				LM301A				
		LM1458				AD108				SG2524C				μPC301				
		μPC251				AD705				SG2524				KA301				
		RC4207				OP97				SG2524B				LM301				
	NEC Raytheon	RC4227			LinearTech	PM1008			TI	SG2524			SiliconG TI	LM301A				
		MC1458				PM108				UC2524				SG301				
		SGS-Thomson				LT1097				UC2524A				μA301				
		μA1458				LM108			μA26LS31	AM26LS31				LM301				
		MC1458				μA108				26LS31				LM301A				
μA148	Signetics	NE5512		μA208A	Raytheon SiliconSys	LM108				AM26LS31		μA3045	Allegro Micro	ULS2045	(3643)			
		SA1458				RC4097				DS26LS31				LM3045				
		SE5512				SSI32R108				AM26LS31				SGS-Thomson				
		LF412				AD208A				AM26LS32				LM3045				
		TA75458				OP97			μA26LS32	AM26LS32A			μA3046	CA3146				
	TI Toshiba	TA75558			Motorola	PM208A				26LS32				μA3086				
		OP11				LM208A				41LF				LM3046				
		OP400				LM208				AM26LS32			SiliconG	SG3146				
		OP470				LM209				DS26LS32				SG3821				
		PM148				SG209				AM26LS32A				LM305				
μA1488	Exar Harris	PM248		μA209	SiliconG	AD211		μA2901	AD IDT	PM139	(3642)	μA305	National SiliconG	SG305				
		XR4741				PM211				IDT39C01				ULN2054				
		LT1014				LM211				LM2901				ULN3054				
		MPOP11				LM211				MC3302				LM3054				
		LM148			SGS-Thomson	LM211				μA3302			μA3057	SGS-Thomson				
	National Raytheon	MC33174				SG211				LM2901				SFC2054				
		MC4741				SG211				LM3302				MB6042				
		LM148				LM211				LM2901				CD22357				
		RC4741				UHD508				LM2902				CD22357A				
μA1489	SGS-Thomson	LM148		μA212A	Allegro Micro	LM217			SGS-Thomson	LM2901		μA3065	Harris	2917	(3243, 3245)			
		LM148				μA750				MC3302				TP3057				
		XR1488				LM217				MC3302				KT8557				
		MC1488				LM217				LM3302				ETC5057				
		μA212A				SG217				TA75339				SC11302				
	Exar Motorola	μA750		μA217	National SGS-Thomson	SG217A		μA2902	TI Toshiba	LM2903			μA307	CA3065				
		DS1488				UC217				LM2902				LSC1008				
		MC1488				VM217				LM2903				KA2101				
		MC1488				LM223				LM2902				TA7176				
		MC1488				LM223				LM2903				ADOP07				
μA1489A	Samsung SGS-Thomson	MC1488		μA223	Motorola National	LM223			SGS-Thomson	LM2903		μA307	National	AD201	(3642)			
		MC1488				SG223				LM2903				OP06				
		SG1488				OP400				LM2903				OP77				
		SN75188				LM224				LM2903				CA0201				
		MC1489			SiliconG	LM224				μA2902				CA0301				
	Motorola National	MC1489				ZN448				LM2902				CA3193				
		MC1489				LM224				LM2903				CA3493				
		SN75189				LM224A				LM2902				HA5130				
		MC1489				LM224				LM2903				HA5135				
	TI	SN75189		μA2240	Signetics TI	LM224			SGS-Thomson	LM2903			μA307	HA5177				
μA1524		MC1489A				XR2240				LM2903				μA207				
		MC1489A				ICL8240				LM2903				LH0044				
		SN75189A				μA2240				LM293				OP77				
		XR1524			Harris	LM238				LM293			μA3075 μA308	LM3075				
LinearTech	LT1524	SG238				LM293				AD308								
	SG1524	PM239				LM293				OP97								
	LM1524	CA0239				LM293				PM1008								
	μA193	SGS-Thomson			LM1524	μA238				Motorola National				LM239		μA301	AD	AD301
SG1524				μA239				μA250	μA308				PM308					
SG1524								LM239					OP77	LM308				
SG1524B								LM239					CA0301A	LM308				
UC1524				Samsung SGS-Thomson	LM239			LM301		AD308A								
UC1524A		LM239			LM301A			LM308A										
Unitrode		LM193			LM239			LM301A		LM308A								
		LM193A			EL2017			LM301A		LM308A								
		LM193			EL2037			LM301		CA3146								
		LM193			ML402	LM301A		μA3046										
	LM201	SSI32H569			μPC301	LM3046												
μA201	Motorola SGS-Thomson	LM201		μA2460	MicroLinear SiliconSys	LM248		μA293	NEC Samsung	KA301		μA309	Motorola National	SG3146	(3643)			
		SG201				LM248				LM301				SG3821				
		LM201				PM239				LM301A				LM309				
		ADOP07				CA0239				SG301				LM309				
		AD201				LM239				μA301				SG309				
μA207	TI	OP06		μA250	Harris Motorola	LM239				LM301A		μA311	Harris	AD311	(3642)			
		OP77				LM239				LM301				PM211				
		CA0201				LM239				LM301A				CA0311				
		CA0301				LM239				AD301				LM311				
μA207	Harris	CA3193	SGS-Thomson	LM239	μA2524	Exar LinearTech	Motorola National	LM301	μA301A	LinearTech	LM311	(3642)						
		CA3493		LM239				LM301			LM311							
		HA5130		XR2524				LM301A			LM311							
		HA5135		LT2524				LM301			SG311							
		HA5177		SG2524				μA301			LM311							
	μA207	Harris	AD201	SGS-Thomson		LM239		SGS-Thomson		LM301	SGS-Thomson		LM311	SGS-Thomson	TA75393			
			OP06			LM248				LM301			LM311					
			OP77			PM239				LM301A			LM311					
			CA0201			CA0239				LM301			LM311					
			CA0301		LM239	LM301	LM311											

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
μA317	Lambda	LLM317		μA3403	Harris	HA5134		μA494	Toshiba	TA76494		μA723	Harris	CA0723	
	LinearTech	LM317			Motorola	LM3403			Unitrode	UC494A			Motorola	MC1723	
	Motorola	LM317			National	μA324		μA5116	Intel	2910			National	μA723M	
	National	LM317			Samsung	LM323			National	TP5116			NEC	LM723	
	NEC	LM317				MC3403				5116			Samsung	LM723	
	Samsung	LM317			Signetics	LM224			Samsung	KT5116			SGS-Thomson		
		LM317L				LM324				M5116				μA723	
	SGS-Thomson	LM317			TI	MC3403		μA5151	Intel	ID2910			Signetics	LM723	
		LM317				TLE2024				2910			SiliconG	SG723	(3642)
	SiliconG	SG317	(3642)	μA3448A	Motorola	MC3448A			National	TP3020		μA723M	TI	μA723	
	TI	LM317			National	μA3486		μA55450	Samsung	KT8520				μA723M	
	Unitrode	UC317		μA348	AD	OP11			SiliconG	SG55450	(3643)	μA723M	Harris	CA0723	
μA318	AD	AD518			Exar	XR4751	(3247)	μA55452	TI	SNJ55452			Motorola	MC1723	
	Elantec	EL2041			GoldStar	GL348				SN55452			National	μA723	
	LinearTech	LM318			Harris	LM348		μA55462	SiliconG	SG55462	(3643)		NEC	LM723	
		LT1023			Motorola	LM348			TI	SNJ55462			Samsung	LM723	
μA318	National	LM118			National	LM348				SN55462			SGS-Thomson		
		LM318			Samsung	LM348		μA555	Exar	XR555				μA723	
μA318	SGS-Thomson	LM318			TI	LM348				XR555M			Signetics	LM723	
		LM318			Motorola	MC3448A			GoldStar	GLC555			SiliconG	SG723	(3642)
	Signetics	NE530		μA3486	National	μA3448A			Harris	CA0555		μA725	AD	OP06	
		NE538				μA3487				NE555				OP77	
		SE530		μA3487	Motorola	MC3448A			Mitsubishi	M5E555			National	LM725	
		SE531			National	μA3448A				M51841		μA7327	AEG Corp	TDA1170	
μA318	TI	LM318				μA3486				M51848			Adv Analog	A733	
μA323	LinearTech	LM323		μA350	LinearTech	LM350			Motorola	MC1455		μA733	Motorola	MC1733	
		LT323				LT350			National	LM555				NE592	
	Motorola	LM323			Motorola	LM350			Samsung	NE555			National	LM733	
	National	LM323			National	LM350			SGS-Thomson	NE555			Signetics	μA733	
	SGS-Thomson	LM323			NEC	LM350				NE555				NE592	
		SG323			SiliconG	SG350	(3642)		Signetics	NE555				SE592	
	AD	OP400		μA3524	Unitrode	UC350			TI	SE555			SiliconG	SG1401	(3643)
μA324	Exar	XR3403		μA3680	LinearTech	SG3524				SE555M			TI	μA733	
		XR3503			National	DS3680		μA565	Toshiba	TA7555		μA739	Exar	XR4739	
	Harris	HA5134			TI	DS3680			AD	AD565A	(3219)		National	μA749	
	Motorola	LM3403		μA376	National	LM376				AD565A			SGS-Thomson	LM1303	
		MC33174		μA393	Motorola	LM393			Harris	HI565A				TBA231	
	National	μA3403			NEC	μPC393C			Maxim	AD565A		μA741	Fujitsu	MB3603	
	Samsung	LM323			Samsung	LM393			MCE	MC5655			Waferscale	WS57C257	
		MC3403		μA393	SGS-Thomson	LM393A			MicroNet	MN565A		μA741M	AD	OP77	(3245)
	Signetics	LM224				LM393			National	LM565				OP02	
		LM324			Signetics	LM393			Signetics	NE565			MicroPwr	MP0P02	
	TI	MC3403			TI	LM393		μA571	AD	ADC910			Motorola	MC1741	
	AD	TLE2024		μA4136	Toshiba	TA75393				AD571			National	LM741	
μA3302	PM139				AD	OP09				AD573			Raytheon	RM741	
	IDT	IDT39C01		μA4151	MicroPwr	MP0P09			MCE	MC571			Samsung	LM741	
	Motorola	LM2901			Exar	XR4151		μA5912	NEC	μPC571			SGS-Thomson		
		MC3302			Raytheon	RC4151			Signetics	NE571		μA747	AD	OP04	
	National	μA2901			TI	XR4151			CMD Micro	G8912B			Harris	CA0747	
		LM2901		μA431	Motorola	TL431			Intel	ID2912			Hitachi	HA17747	
	Samsung	LM2901			Samsung	KA431				2912			MicroPwr	MP0P04	
		LM3302		μA4558	AD	OP14 (3245, 3248)				TP3040			Motorola	MC1747	
	SGS-Thomson	LM2901				OP215			National	MV8912			NEC	μPC1418	
		MC3302				OP270			Plessey	KT3040			Raytheon	RC747	
	Signetics	LM2901			Exar	XR1458			Samsung				Signetics	RM747	
		MC3302				XR4558			SGS-Thomson	ETC5040		μA749	TI	μA747	
	TI	LM3302			Fujitsu	MB3607		μA705	TI	TCM2912C				μA747M	
	Toshiba	TA75339			Harris	CA1458			National	LM1800			AD	OP04	
μA3303	Motorola	MC3303				CA1558			Signetics	μA758			Harris	CA0747	
	Samsung	MC3303			Hitachi	HA17458		μA709	AD	OP06			MicroPwr	HA17747	
	SGS-Thomson	MC3303			Motorola	MC4558			Motorola	MC1709			Raytheon	MP0P04	
		MC3303				SE4558			National	LM1709			Motorola	MC1747	
	Signetics	MC3303			National	LM1458				LM709			National	LM747	
	TI	MC3303				LM1558			NEC	μPC55			NEC	RC747	
μA338	Lambda	LLM338			Raytheon	RC4558			TI	μA709			Raytheon	RM747	
	LinearTech	LM338			Samsung	MC4558				μ709			Signetics	μA747	
		LT338			SGS-Thomson	LS4558		μA710	Fujitsu	MB4001			TI	μA747	
	National	LM338				MC4558			Motorola	MC710C		μA749	Exar	μA747M	
	SiliconG	SG338	(3642)			MC1458			National	LM710			National	XR4739	
	GoldStar	GL339			Signetics	MC1558			Samsung	KA710C				μA739	
	Harris	CA0339				NE4558		μA711	National	LM711			SGS-Thomson	LM1303	
		CA0339A				SA4558			Samsung	KA711C				TBA231	
	Motorola	LM339				SE4558			AD	OP77					
	National	LM339				MC1458		μA714	LinearTech	OP07			Allegro	UHD508	
	NEC	μPC137			TI	MC1558			TI	OP07			Micro	μA212A	
		μPC177				MC4558C		μA715	AD	AD841	(3241)		National	75450	
	Raytheon	LM339				RM4558				OP44			SiliconG	SG75450	
	Samsung	LM339				TA7558			Elantec	EL2041				SG75450B	
		LM339A				TL4558			Harris	HA2522		μA75450	TI	SN75450	
	SGS-Thomson	LM339				TA75458				HA5160				ML7426	(3514)
		LM339				TA7558				HA5162			Lansdale	DM7426	
	TI	TA75339				MB3759			VTC	CA705			National	DM8810	
μA3403	AD	OP400		μA494	Fujitsu	GL494				VA706			Signetics	7426	
	Exar	XR3403			GoldStar	TL494		μA720	National	LM1820			TI	SN7426	
		XR3503			TI										

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				μ A78L06	TI	μ A78L06 μ A78L06A μ A87L06 TA78L012	(Cont'd)	μ A78M05	Motorola National SiliconG	MC78M05 LM78M05 SG14005 SG14012		μ A7806	SiliconG	SG7806 SG7806A	(Cont'd)
μ A75452	National SiliconG	75452 SG75452 SG75452A SG75452B		μ A78L06A	Toshiba National	TA78L012 μ A78L06 μ A78L06		μ A78M05M μ A78M06	TI TI Motorola	μ A78M05 μ A78M05M MC78M06		μ A7807 μ A7808	Mitel Motorola National SiliconG	MT8978 MC7808 LM7808 SG340-8	
μ A75453	TI	SN75452 SN75452B			TI	μ A78L06 μ A78L06A μ A87L06 TA78L012			Motorola National Samsung Sanyo SGS-Thomson	MC78M06 LM78M06 MC78M06 L78M06			TI	SG7808 SG7808A	(3642) (3642)
	National	LM75453		μ A78L08	Toshiba Motorola	TA78L012 MC78L08 μ A78L08A LM78L08		μ A78M08	TI Toshiba Motorola	L78M06 L78M06CV μ A78M06 TA78M06		μ A7809	GoldStar Hitachi Motorola	GL7809 HA17809 MC7809	
	SiliconG	SG75453 SG75453A SG75453B SN75453B			Samsung TI	MC78L08AC μ A78L08 μ A78L08A			National National	MC78M08 LM78M08 MC78M08			TI	LM7809 μ A7809	
μ A75461	TI	SN75461		μ A78L08A	Toshiba Motorola	TA78L008 MC78L08 National		μ A78M09	Toshiba National SGS-Thomson	MC78M08 LM78M08 L78M08		μ A7810	Toshiba National SGS-Thomson	TA78009 LM7810	
μ A75462	SiliconG	SG75462			Samsung TI	MC78L08AC μ A78L08 μ A78L08A			TI Toshiba National	L78M08CV μ A78M08 TA78M08			TI	L7810 μ A7810	
μ A771	AD AnalogSys TI	OP15 MA333 TL071 TL081C		μ A78L09	Toshiba National	TA78L008 μ A78L09A LM78L09		μ A78M10	TI Toshiba National	L78M09 TA78M09 LM78M10		μ A7812	TI Toshiba Motorola National SiliconG	SG7812 SG7812A SG7812AT	(3642) (3642) (3642)
μ A772	Toshiba AnalogSys Harris	TA75071 MA336 CA3240 ICL8043			Samsung TI	MC78L09AC μ A78L09 μ A78L09A			TI Toshiba National	L78M09 TA78M09 LM78M10		μ A7815	TI Motorola National SiliconG	SG7815 SG7815A SG7815A	(3642) (3642) (3642)
	LinearTech Motorola	OP215 MC34002 MC34072		μ A78L09A	National	LM78L09 LM78L09 MC78L09AC		μ A78M12	TI Toshiba National	L78M10 μ A78M10 TA78M10		μ A7818	TI Unitrode Motorola National SiliconG	SG7818 SG7818A SG7818A	(3642) (3642)
	SGS-Thomson	TL072 TL082C TA75072 TA75074		μ A78L10	National	μ A78L09A μ A78L10A LM78L10			Samsung Sanyo SGS-Thomson	LM342-12 LM78M12 MC78M12 L78M12		μ A7820	TI AD Crystal Maxim	μ A7818 AD7820 CS7820 AD7820	
μ A774	AnalogSys Harris Motorola	MA374 CA3410 MC33074 MC34004 MC34004A MC34074			TI	μ A78L10 μ A78L10A TA78L010		μ A78M12M μ A78M15	TI Toshiba TI Motorola National	TA78M12 TA78M12 μ A78M12M MC78M15 LM341-15			Samsung Siliconix TI	KAD0820 SI7820 μ A7820	
	TI	TL074 TL084BC OP22 OP43		μ A78L10A	National	LM340LA-12 LM78L12 MC78L12AC			Samsung Sanyo SGS-Thomson	LM78M15 MC78M15 L78M15		μ A7824	Motorola National SiliconG	MC7824 LM7824 SG7824	(3642) (3642)
μ A776	AD Harris	ICL7611 ICL8021 LM4250 ICL7611 MC1776 MC3476 LF441		μ A78L12A	Toshiba Motorola National	TA78L012 MC78L12 μ A78L12		μ A78M18	TI Toshiba TI Motorola	L78M15CV μ A78M15 TA78M15 MC78M18		μ A787	TI Harris National	SG7824A μ A787 LM1829	
	Maxim Motorola	LM4250 ICL7611 MC1776 MC3476 LF441			Samsung TI	LM78L12 MC78L12AC μ A78L12			Samsung Sanyo SGS-Thomson	LM78M15 MC78M15 L78M15		μ A7885	Samsung	MC7885AC MC7885C	
	National SGS-Thomson	μ A776 TS271 TLC251 TLC271 TL061		μ A78L15	Toshiba Motorola National	TA78L012 MC78L15 μ A78L15A LM340LA-15 LM340T-15 LM78L15		μ A78M20	TI Toshiba TI Motorola National NEC	L78M18 μ A78M18 TA78M18 MC78M20 LM78M20 μ PC78M20		μ A79HG μ A79M05	Lambda National SiliconG	LM79HG LM120 LM79M05 SG120-5	
μ A78HGA	Lambda	LLM350			Samsung TI	MC78L15AC μ A78L15 μ A78L15A			Samsung SGS-Thomson	MC78M20C LM78M20C		μ A79M05M μ A79M06 μ A79M08	TI TI Samsung	μ A79M05M TA79M06 MC79M08C MC7908	
μ A78H05	Samsung Lambda	KA350 LAS1405 M78H05 MC78T05 SH0323 SH323		μ A78L15A	Toshiba Motorola National	TA78L015 MC78L15 μ A78L15A LM340LA-15 LM340T-15 LM78L15		μ A78M24	TI Toshiba TI Motorola Samsung	L78M20 μ A78M20 TA78M20 MC78M24 MC78M24C			SGS-Thomson	L7908 TA79008 GL7912 MC79M12 μ A79M12M	
μ A78H12A	Lambda Micropac	LAS1412 M78H12 MC78T12			Samsung TI	MC78L15AC μ A78L15 μ A78L15A			Sanyo SGS-Thomson	L78M24 L78M24CV μ A78M24		μ A79M12M	GoldStar Motorola National	GL7912 MC79M12 μ A79M12M	
μ A78L02	National TI	μ A78L02A μ A78L02 μ A78L02A μ A78L02			Toshiba Motorola National	TA78L015 MC78L15 μ A78L15A LM340LA-15 LM340T-15 LM78L15			TI Toshiba TI Motorola	L78M24 L78M24CV μ A78M24			TI	TA79012 GL7912 MC79M12	
μ A78L02A	National TI	μ A78L02 μ A78L02 μ A78L02A μ A78L02			Samsung TI	MC78L15AC μ A78L15 μ A78L15A			Sanyo SGS-Thomson	L78M24 L78M24CV μ A78M24			TI	TA79012 GL7912 MC79M12	
μ A78L05	Motorola National	MC78L05 μ A78L05A LM340LA-5 LM78L05		μ A78L18	Toshiba Motorola National	TA78L015 MC78L15 μ A78L15A LM340LA-15 LM340T-15 LM78L15		μ A78P05	TI Toshiba Lambda Micropac	L78M24 L78M24CV μ A78M24 LAS3905 MLAS3905			TI	TA79012 GL7912 MC79M12	
	Samsung TI	MC78L05AC μ A78L05 μ A78L05A TA78L005		μ A78L20	National TI	LM78L18AC TA78L018 LM78L20 μ A78L20		μ A78S40	Motorola Samsung	M78P05 μ A78S40 KA78S40		μ A7805	Motorola National SiliconG	MC7805 LM7805 SG7805 SG7805A	(3642) (3642)
μ A78L05A	Toshiba Motorola National	TA78L005 MC78L05 μ A78L05 LM340LA-5 LM78L05			Toshiba TI	TA78L018 LM78L20 μ A78L20			TI Unitrode	μ A7805 UC7805			SGS-Thomson	MC79M12C MC7912	
	Samsung TI	MC78L05AC μ A78L05 μ A78L05A TA78L005		μ A78L22AC	Samsung	MC78L22AC		μ A7806	Motorola National	MC7806 LM7806			SGS-Thomson	μ A7912 L7912	(Continued)
μ A78L06	National	μ A78L06A LM78L06		μ A78L82AC	Samsung	MC78L82AC									

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

ALTI: SOURCE DIRECTORY

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ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				AM9711	Harris	IH5011		CD40106	National	MM54C14	(Cont'd)	CD40161	National	CD40161B	(Cont'd)
				AM9712	Harris	AH5011				MM74C14				F40161	
ADC0834	MicroLinear	ADC0834				AH5012			SGS-Thomson	HCC40106			Panasonic	MN40161	
	TI	ADC0834A		BLC80/316	Intel	ISBC80/30				HCF40106			SGS-Thomson	HCC40161	
ADC0838	MicroLinear	ADC0838		CD4000	Motorola	MC14000			Signetics	HEF40106				HCC40161B	
		ML2288				MC14000B		CD4011	Toshiba	TC4584B				HCF40161	
		ML2288B			National	CD4000B			Motorola	MC14011				HCF40161B	
		ADC0838B			SGS-Thomson				SGS-Thomson					HEF40161	
AD7520	Harris	AD7520				HCC4000				HCC4011			Signetics	TC40161B	
	Maxim	MX7520				HCC4000B				HCF4011		CD40161B	Harris	CD40161B	
	MicroPwr	MP7520				HCF4000			Signetics	HEF4011			Motorola	MC14016B	
	Motorola	MC7520				HCF4000B		CD4011UB	Harris	CD4011UB				CD40161	
	National	DAC1020				HEF400			Motorola	MC14011UB			National	CD40161	
		DAC1021		CD4000B	Signetics	TC4000B			Toshiba	TC4011UB				F40161	
		DAC1022			Motorola	MC14000		CD4012	Harris	CD4012B			Panasonic	MN40161	
		7520				MC14000B			Motorola	MC14012			SGS-Thomson	HCC40161	
	Samsung	KA2919			National	CD4000			National	F4012				HCC40161B	
	Sanyo	LA7520N			SGS-Thomson				SGS-Thomson					HCF40161	
	Unitrode	PIC7520				HCC4000				HCC4012				HCF40161B	
AD7521	Harris	AD7521				HCC4000B				HCF4012				HCF40161B	
	Maxim	MX7521				HCF4000			Signetics	HEF4012				HCF40161B	
	MicroPwr	MP7521				HCF4000B		CD4013	Toshiba	TC4012B			Signetics	HEF40161	
	Motorola	MC7521			Signetics	HEF400			Harris	CD4013B			Toshiba	TC40161B	
	National	DAC1222		CD4001	Toshiba	TC4000B			Motorola	MC14013		CD40162	Harris	CD40162B	
		7521			Harris	CD4001B			National	F4013			Motorola	MC140162B	
		DAC331-12			Motorola	MC14001				MM74C74				MC14162	
	Sipex-HSD	DAC331-12			SGS-Thomson				OKI	MSM4013			National	CD40162B	
AD7530	Harris	AD7530				HCC4001			SGS-Thomson					F40162	
	Maxim	MX7530				HCF4001				HCC4013			SGS-Thomson	HCC40162	
	MicroPwr	MP7530				HEF4001				HCF4013				HCC40162B	
	Samsung	KA2923			Signetics	TC4001B		CD4014	Signetics	HEF4013				HCF40162	
	Sanyo	LA7530N		CD4001UB	Toshiba	CD4001B			Harris	CD4014B				HCF40162B	
	Unitrode	PIC7530			Harris	CD4001UB			Motorola	MC14014				HCF40162B	
AD7531	AD	AD8531			Motorola	MC14001UB			National	F4014			Signetics	HEF40162	
	Harris	AD7531			National	F4001			SGS-Thomson				Toshiba	TC40162B	
	Maxim	MX7531			OKI	MM74C02				HCC4014			Harris	CD40162B	
	MicroPwr	MP7531		CD4002	Toshiba	TC4001UB				HCF4014		CD40162B	Motorola	MC140162B	
	Unitrode	PIC7531			Harris	CD4002B			Signetics	HEF4014				MC14162	
AD7533	AD	AD7530			Motorola	MC14002		CD4015	Toshiba	TC4014B			National	CD40162	
		AD7533			National	F4002			Harris	CD4015B				F40162	
		PM7533			SGS-Thomson				Motorola	MC14015			SGS-Thomson	HCC40162	
		DAC7533				HCC4002			National	F4015				HCC40162B	
	Datel	AD7533				HCF4002			OKI	MM74C164				HCF40162	
	Harris	MX7533			Signetics	HEF4002			SGS-Thomson					HCF40162B	
	Maxim	MP7533			Toshiba	TC4002B				HCC4015			Signetics	HEF40162	
	MicroPwr	MP7533		CD4006	Harris	CD4006B				HCF4015			Toshiba	TC40162B	
		MP7633			Motorola	MC14006			Signetics	HEF4015			Harris	CD40163B	
	Unitrode	PIC7533			National	F4006		CD4016	Toshiba	TC4015B			Motorola	MC140163B	
• AH0126	Siliconix	DG126			SGS-Thomson	F4006B			Harris	CD4016B				MC14163	
• AH0129	Siliconix	DG129				HCC4006			Motorola	MC14016			National	CD40163B	
• AH0133	Siliconix	DG133				HCF4006				MC14066				F40163	
• AH0134	Siliconix	DG134			Signetics	HEF4006			National	CD4066			SGS-Thomson	HCC40163B	
• AH0139	Siliconix	DG139			Toshiba	TC4006B				F4016				HCF40163B	
• AH0140	Siliconix	DG140			Harris	CD4007B				F4066				HEF40163	
• AH0141	Siliconix	DG141			Motorola	MC14007			SGS-Thomson				Signetics	TC40163B	
• AH0142	Siliconix	DG142			National	F4007				HCC4016			Toshiba	CD40163B	
• AH0143	Siliconix	DG143			SGS-Thomson					HCC4066			Harris	MC140163B	
• AH0144	Siliconix	DG144				HCC4007				HCF4016			Motorola	MC14163	
• AH0145	Siliconix	DG145				HCF4007			Signetics	HEF4016			National	CD40163	
• AH0146	Siliconix	DG146				HEF4007				HCF4066				F40163	
• AH0154	National	AM0154			Signetics	HEF4007				HEF4066				HCC40163B	
• AH0163	National	AM0163			Toshiba	TC4007UB			Signetics	HEF4066				HCF40163B	
• AH0164	National	AM0164			Harris	CD4008B			Toshiba	TC4016B				HEF40163	
AH5009	Harris	IH5009		CD4008	Motorola	MC14008				TC4066B			SGS-Thomson	MC14017	
	National	AM97C09			National	F4008		CD40160	Unitrode	PIC7516				F4017	
		AM9709				MM74C83			Harris	CD40160B			Signetics	HEF40163	
		AM9710			SGS-Thomson				Motorola	MC14160			Toshiba	TC40163B	
AH5010	Harris	IH5010				HCC4008				MC40160B			Motorola	MC14017	
	National	AM9710				HCF4008			National	CD40160B			National	F4017	
AH5011	Harris	IH5011				HEF4008				F40160			SGS-Thomson	HCC4017	
	National	AM9711			Signetics	TC4008B				HCC40160				HCF4017	
AH5012	Harris	IH5012		CD4009	Harris	CD4009UB			SGS-Thomson	HCF40160				HEF4017	
	National	AM9712			Motorola	MC14009				HCF40160B			Signetics	TC4017B	
AH5013	Harris	IH5013			SGS-Thomson					HEF40160			Toshiba	CD40174B	
AH5014	Harris	IH5014				HCC4009			Signetics	HEF40160			Harris	MC140174B	
AH5016	Harris	IH5016				HCF4009		CD40160B	Toshiba	TC40160B			Motorola	MC14174	
AM97C09	Harris	IH5009				TC4009UB			Harris	CD40160B				F40174B	
	National	AH5009		CD4010	Harris	CD4010B			Motorola	MC14160			National	HCC40174	
		AM9709			SGS-Thomson	MC14010				MC40160B			SGS-Thomson	HCC40174B	
• AM97C10	Harris	IH5010				HCC4010				CD40160				HCF40174	
	National	AH5010				HCF4010				F40160				HCF40174B	
		AM9710				TC4010B			SGS-Thomson	HCC40160				HEF40174	
• AM97C11	Harris	IH5011				CD40106B				HCC40160B			Signetics	TC40174B	
	National	AH5011		CD40106	Harris	MC140106B				HCF40160			Toshiba	MC14175	
		AM9711			Micrel	MC14106				HCF40160B			Motorola	MC40175	
• AM97C12	Harris	IH5012			Motorola	MC14106				HEF40160				F40175	
	National	AH5012				MC14584			Signetics	HEF40160				MM54C175	
		AM9712				MC14584B				TC40160B				MM74C175	
AM9709	Harris	IH5009			National	CD4584		CD40161	Toshiba	TC40160B				HEF40175	
	National	AH5009				CD4584B			Harris	CD40161B				TC40175B	
		AM97C09				F400014			Motorola	MC14016B					
AM9710	Harris	IH5010				F40014				MC14161					
	National	AH5010													

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• Discontinued

The manufacturers report their devices can be used as direct replacements.
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◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				CD4511	NEC	μPD4511	(Cont'd)	CD4528	Signetics	HEF4528	(Cont'd)	COP495	Hyundai	HY93C46	(3475)
CD4076	Harris	CD4076B			SGS-Thomson	HCC4511		CD4529	Toshiba	TC4528B			ICT	93C46	(3505)
	Motorola	MC14076				HCF4511		CD4538	Motorola	MC14529			Microchip	93C46C	(3505)
	National	F4076			Signetics	HEF4511			Harris	CD14538B			National	NMC93CS46	
		MM54C173		CD4512	Toshiba	TC4511B			Motorola	MC14538B				NMC93C46	
	SGS-Thomson	MM74C173			Harris	MC4512B			National	CD4538B				NMC9345	
					Motorola	MC14512			OKI	MSM4538				NMC9346	
					National	F4512			SGS-Thomson	GCC4538B				9346	
					SGS-Thomson	HCC4512				HCF4538B			OKI	MSM16811	
	Signetics	HEF4076				HCF4512			Signetics	HEF4538				MSM16811RS	
CD4077	Toshiba	TC4076B			Toshiba	TC4512B		CD4538B	Toshiba	TC4538B				MSM16911	
	Harris	CD4077B		CD4514	Harris	TC4514B			Harris	CD14538B			ROHM	BR93C46	
	Motorola	MC14077			Motorola	MC14514			Motorola	MC14538B			SGS-Thomson		
		MC14077B			National	F4514			National	CD4538				M9346	
	National	F4077			SGS-Thomson	HCC4514			OKI	MSM4538				ST93CS46	
	SGS-Thomson	HCC4077				HCF4514			SGS-Thomson	GCC4538B				ST93CS47	
		HCC4077B			Signetics	HEF4514				HCF4538B			Sierra	TS93C46A	
		HCF4077			Toshiba	TC4514B				HEF4538			COP820	SC22011	
		HCF4077B			Harris	CD4515B			Signetics	HEF4538			Sierra	SC44820	
	Signetics	HEF4077		CD4515	Motorola	MC14515			Toshiba	TC4538B			COP821	SC44821	
	Toshiba	TC4077B			National	F4515		CD4543	Harris	CD4543B			COP822	SC44822	
CD4081	Harris	CD4081B			SGS-Thomson	HCC4515			Motorola	MC14543			COP841	SC44840	
	Motorola	MC14081				HCF4515				MC14543B			COP844	SC44844	
	National	F4081			Signetics	HEF4515			National	F4543				SC46844	
		MM74C08			Toshiba	TC4515B			Signetics	HEF4543			COP848	SC44848	
	OKI	MSM4081			Harris	CD4516B		CD4584	Harris	CD40106B				SC46848	
	SGS-Thomson	HCC4081		CD4516	Motorola	MC14516			Micrel	MIC54C14			COP8620	SC48620	
		HCF4081			National	F4516			Motorola	MC14106			COP8621	SC48621	
	Signetics	HEF4081			SGS-Thomson	HCC4516				MC14584			COP8622	SC48622	
CD4082	Toshiba	TC4081B				HCF4516			National	CD40106			COP8720	SC48720	
	Harris	CD4082B			Signetics	HEF4516				CD4584B			COP8721	SC48721	
	Motorola	MC14082			Toshiba	TC4516B				F400014			COP8722	SC48722	
	National	F4082			Harris	CD4518B				F40014			COP884	SC44884	
	SGS-Thomson	HCC4082		CD4518	Motorola	MC14518				MM54C14			COP888	SC46888	
		HCF4082			National	F4518			SGS-Thomson	MM74C14				SC46888	
	Signetics	HEF4082			SGS-Thomson	HCC4518				HCC40106			CY3341AC	Cypress	CY3341
CD4089	Toshiba	TC4082B				HCF4518				HCF40106				Lansdale	NL3341
	Harris	CD4089B			Signetics	HEF4518				HEF40106				National	3341
	SGS-Thomson	HCC4089			Toshiba	TC4518B		CD4584B	Toshiba	TC4584B			DAC0630	Plessey	MJ2841
		HCF4089			Harris	CD4519B			Signetics	HEF40106				AD	ADV476
		CD4093B		CD4519	Motorola	MC14519B				TC4584B				ATMEL	AT76C171
CD4093B	Motorola	MC14093			National	MC14519B			Harris	CD40106B					AT76C176
		MC14093B			Signetics	HEF4519			Micrel	MIC54C14				Avasem	AV3676
	National	F4093B			Toshiba	TC4519B			Motorola	MC14106				Brooktree	BT476
	SGS-Thomson	HCC4093		CD4519B		MC14519B				MC14584				EdsunLabs	EL171CE6
		HCC4093B			Signetics	HEF4519B			National	MC14584B				National	DAC0631
		HCF4093			Toshiba	TC4519B				CD40106					DP85176
		HCF4093B			Harris	CD4519B				CD4584				NCR	77C171
	Signetics	HEF4093		CD4519B	Motorola	MC14519B			SGS-Thomson	F400014			DAC0631	SGS-Thomson	IMSG171
	Toshiba	TC4093B			National	CD4519				F40014				AD	ADV476
CD4094B	Harris	CD4094B			Signetics	HEF4519				MM54C14				ATMEL	AT76C176
	Motorola	MC14094		CD4520	Toshiba	TC4519B			SGS-Thomson	MM74C14				Avasem	AV3676
		MC14094B			Harris	CD4520B				HCC40106				Brooktree	BT476
	SGS-Thomson	HCC4094			Motorola	MC14520			Signetics	HCF40106				National	DP85176
		HCC4094B			National	F4520				HEF40106				SGS-Thomson	IMSG176
		HCF4094			OKI	MSM4520		CD4723	Toshiba	TC4584B			DAC08	AD	ADDAC-08
		HCF4094B			SGS-Thomson	HCC4520		CD4724	National	F4723				Datel	DAC1508
	Signetics	HEF4094				HCF4520			SGS-Thomson	HCC4724					DAC1508
CD4099B	Toshiba	TC4094B			Signetics	HEF4520				HCF4724				Motorola	DAC1508
	Harris	CD4099B		CD4522	Toshiba	TC4520B			MicroNet	MN7145				National	DAC1508
	Motorola	MC14099			Motorola	MC14522B			SGS-Thomson	ET9410					DAC0801
		MC14099B			National	CD4522B			Sipex-HSD	HS9410					DAC0802
	SGS-Thomson	HCC4099				F4522			SGS-Thomson	ET9411				NEC	μPC624
		HCC4099B		CD4522B	Toshiba	TC4522B				ET9420				Raytheon	DAC08
		HCF4099			Motorola	MC14522B				ET9421				Samsung	KDA0800
		HCF4099B			National	F4522				ET9422					KDA0802
		HCF4099B				TC4522B				ET9422					DAC08
	Toshiba	TC4099B		CD4526	Toshiba	TC4526B				ET9422				Signetics	DAC08
CD4503	Harris	CD4503B			Motorola	MC14526				ET9422			• DAC0800	AD	ADDAC-08
	Motorola	MC14503			National	F4526				ET9422					DAC1508
		MC14503B			Signetics	HEF4526				ET9422				Datel	DAC1508
	National	F40097B			Toshiba	TC4526B				ET9422					DAC1508
	SGS-Thomson	HCF4503		CD4527	Harris	CD4527B				ET9422					DAC1508
		HCF4503B			Motorola	MC14527				ET9422					DAC1508
		HCF4503B			National	F4527				ET9422					DAC1508
		HCF4503B			SGS-Thomson	HCC4527				ET9422					DAC1508
		HCF4503B				HCF4527				ET9422					DAC1508
		HCF4503B				HEF4527				ET9422					DAC1508
	Toshiba	TC4503B		CD4528	Toshiba	TC4527B				ET9422					DAC1508
CD4510	Harris	CD4510B			Motorola	MC14528				ET9422					DAC1508
	Motorola	MC14510			National	F4528				ET9422					DAC1508
	National	F4510			SGS-Thomson	MM74C221				ET9422					DAC1508
	SGS-Thomson	HCC4510				HCC4098				ET9422					DAC1508
		HCF4510				HCF4098				ET9422					DAC1508
		HCF4510				HCF4098				ET9422					DAC1508
	Signetics	HEF4510				HCF4098				ET9422					DAC1508
CD4511	Toshiba	TC4510B				HCF4098				ET9422					DAC1508
	Harris	CD4511B				HCF4098				ET9422					DAC1508
	Motorola	MC14511				HCF4098				ET9422					DAC1508
	National	F4511				HCF4098				ET9422					DAC1508

• Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				DAC1022	Harris	AD7520		DM10415	Motorola	MCM10146		DM54ALS162	Motorola	SN54ALS162	
					Maxim	MX7520			Siemens	GXB10415			TI	SN54ALS162B	
					MicroPwr	MP7520		DM10422	Fujitsu	MBM10422A		DM54ALS163	Motorola	SN54ALS163	
					Motorola	MC7520			Hitachi	HM10422			TI	SN54ALS163B	
					National	AD7520		DM10470	NEC	μPB10422		DM54ALS168B	National	DM54AS880	
						DAC1020			Fujitsu	MBM10470A			TI	SN54ALS169B	
						DAC1021			Hitachi	HM10470		DM54ALS169	TI	SN54ALS169B	
						7520			NEC	μPB10470		DM54ALS174	TI	SN54ALS174	
						KA2919			Saratoga	SSM10470		DM54ALS175	TI	SN54ALS175	
					Samsung	LA7520N		DM10474	Cypress	CY10E47L		DM54ALS191	TI	SN54ALS191	
					Sanyo	PIC7520			Fujitsu	MBM10474A		DM54ALS193	TI	SN54ALS193	
					Unitrode	MP1208			Hitachi	HM10474		DM54ALS20	TI	SN54ALS20A	
				DAC1208	MicroPwr	MP1209			National	F10474		DM54ALS21	TI	SN54ALS21A	
				DAC1209	MicroPwr	MP1209			NEC	μPB10474		DM54ALS22	TI	SN54ALS22B	
				DAC1210	MicroPwr	MP1210				μPB10474A		DM54ALS240	Motorola	SN54ALS240	
				DAC1220	AD	AD7521		DM25C02	Saratoga	SSM10474		DM54ALS241	Motorola	SN54ALS241	
						AD7531			National	DM25C03		DM54ALS242	Motorola	SN54ALS242	
						AD7541				DM2502			TI	SN54ALS242B	
						PM7541				KS25C02		DM54ALS243	Motorola	SN54ALS243	
					Burr-Brown	DAC7541		DM25C03	Samsung	DM25C02			TI	SN54ALS243A	
					MicroPwr	MP7541			National	DM2502		DM54ALS244	Motorola	SN54ALS244	
					National	DAC1221				KS25C02			TI	SN54ALS244A	
					Sipex-HSD	HS7541		DM2502	Samsung	DM25C02		DM54ALS245	Motorola	SN54ALS245	
				DAC1221	AD	AD7521			National	DM25C03			TI	SN54ALS245A	
						AD7531				KS25C02		DM54ALS251	TI	SN54ALS251	
						AD7541		DM2503	Samsung	KS25C03		DM54ALS253	TI	SN54ALS253	
						PM7541		DM2504	Samsung	KS25C04		DM54ALS257	TI	SN54ALS257	
					Burr-Brown	DAC7541		DM26LS32	AMD	AM26LS32		DM54ALS258	TI	SN54ALS258	
					MicroPwr	MP7541				AM26LS32A		DM54ALS27	TI	SN54ALS27	
					National	DAC1220				26LS32		DM54ALS273	Motorola	SN54ALS273	
				DAC1222	Sipex-HSD	AD7521			AT&T	41LF			TI	SN54ALS273	
					Harris	MX7521			Motorola	AM26LS32		DM54ALS28	TI	SN54ALS28A	
					Maxim	MP7521			National	μA26LS32		DM54ALS30A	TI	SN54ALS30A	
					MicroPwr	MC7521				DS26LS32		DM54ALS32	Motorola	SN54ALS32	
					Motorola	AD7521			TI	AM26LS32A			TI	SN54ALS32	
					National	7521		DM54ALS00	Motorola	SN54ALS00		DM54ALS33	TI	SN54ALS33A	
						DAC331-12			TI	SN54ALS00A		DM54ALS352	TI	SN54ALS352	
				DAC1230	MicroPwr	MP1230				SN54ALS01		DM54ALS353	National	M74ALS158	
				DAC1231	MicroPwr	MP1231		DM54ALS01	TI	SN54ALS01			TI	DM74ALS158	
				DAC1232	MicroPwr	MP1232		DM54ALS02	Motorola	SN54ALS02			TI	74ALS158	
				DAC1280	AD	ADDAC80			TI	SN54ALS02		DM54ALS373	Motorola	SN54ALS373	
						DAC80			TI	SN54ALS03B			TI	SN54ALS373	
					Burr-Brown	DAC80		DM54ALS03	TI	SN54ALS03B		DM54ALS374	Motorola	SN54ALS374	
						DAC800			Motorola	SN54ALS04			TI	SN54ALS373	
						ICM7216		DM54ALS04A	TI	SN54ALS04B		DM54ALS374	Motorola	SN54ALS374	
						ICM7226		DM54ALS05	TI	SN54ALS05A			TI	SN54ALS374	
						DAC80		DM54ALS08	Motorola	SN54ALS08		DM54ALS377	Motorola	SN54ALS377	
					MicroNet	HSDAC80			TI	SN54ALS08		DM54ALS38	TI	SN54ALS38A	
				DAC1285	Sipex-HSD	AD7521		DM54ALS09	Motorola	SN54ALS09		DM54ALS40	National	DM54ALS1032	
					AD	ADDAC85		DM54ALS10	TI	SN54ALS10A			TI	DM54AS808	
					Burr-Brown	DAC85			National	DM54AS160		DM54ALS465	National	DM54AS1004	
						DAC850		DM54ALS100					TI	DM74ALS231	
					Datel	DACHZ		DM54ALS1002				DM54ALS466	National	DM54AS1008	
						DACHZ12B			National	DM54AS162		DM54ALS467	National	DM54AS1032	
					Harris	HIDAC80V		DM54ALS1003				DM54ALS468	National	DM54AS1034	
						HIDAC85V			National	DM54AS168		DM54ALS519	National	DM54AS1036	
						HS6851		DM54ALS1004	Allegro	ULN2813		DM54ALS520	TI	SN54ALS520	
					MicroNet	DAC85			Micro	ULN2813		DM54ALS521	National	DM54AS04	
						DAC85V			National	DM54AS175		DM54ALS522	National	DM54AS32	
				DAC1287	Burr-Brown	DAC85/CCD		DM54ALS1005	SiiconG	SG2813	(3642)	DM54ALS563	TI	SN54ALS563A	
				DH0006	Elantec	EDH0006						DM54ALS564	TI	SN54ALS564A	
				DH0008	Elantec	EDH0008						DM54ALS573	Motorola	SN54ALS573	
					Marconi	CT0008			Micro	ULN2814			TI	SN54ALS573B	
					Motorola	MQ3725		DM54ALS1008	National	DM54AS243		DM54ALS574	Motorola	SN54ALS574	
					National	FQ3725			SiiconG	SG2814	(3642)		TI	SN54ALS574A	
					Raytheon	SP3725						DM54ALS576	Motorola	SN54ALS576	
				DM100422	Fujitsu	MBM100422A							TI	SN54ALS576A	
					Hitachi	HM100422		DM54ALS1010				DM54ALS580	Motorola	SN54ALS580	
					National	F100422			Micro	ULN2815	(3642)		TI	SN54ALS580A	
						F100422C		DM54ALS1011	SiiconG			DM54ALS620	Motorola	SN54ALS620	
						NMC5295			TI	54ALS1010A		DM54ALS621	Motorola	SN54ALS621	
						μPB100422						DM54ALS622	Motorola	SN54ALS622	
						100422A		DM54ALS1012	National	DM54AS258		DM54ALS623	Motorola	SN54ALS623	
						100422B						DM54ALS640	Motorola	SN54ALS640	
						VS12G422E							TI	SN54ALS640A	
				DM100470	Vitesse	MBM100470A		DM54ALS1032	National	DM54AS264		DM54ALS641	Motorola	SN54ALS641	
					Fujitsu	HM100470						DM54ALS643	Motorola	SN54ALS643	
					Hitachi	HM100470						DM54ALS644	Motorola	SN54ALS644	
					Hyundai	HY53C256		DM54ALS1035	National	DM54AS264		DM54ALS645	TI	SN54ALS645A	
					Motorola	MCM100470						DM54ALS646	Motorola	SN54ALS646	
					NEC	μPB100470		DM54ALS11	TI	SN54ALS11A		DM54ALS647	Motorola	SN54ALS647	
					Vitellic	V51C257		DM54ALS131	National	DM54ALS1035		DM54ALS648	Motorola	SN54ALS648	
						V53C256		DM54ALS138	TI	SN54ALS138		DM54ALS649	Motorola	SN54ALS649	
				DM100474	Cypress	CY100E474L		DM54ALS15	TI	SN54ALS15A		DM54ALS690	Motorola	SN54ALS690	
					Fujitsu	MBM100474A						DM54ALS691	Motorola	SN54ALS691	
					Hitachi	HM100474		DM54ALS151	TI	SN54ALS151		DM54ALS692	Motorola	SN54ALS692	
					Motorola	MCM100474		DM54ALS153	TI	SN54ALS153		DM54ALS693	Motorola	SN54ALS693	
					National	F100474		DM54ALS160	Motorola	SN54ALS160		DM54ALS696	Motorola	SN54ALS696	
					NEC	μPB100474			National	DM54ALS160B		DM54ALS697	Motorola	SN54ALS697	
						SSM100474		DM54ALS160B	Motorola	SN54ALS160		DM54ALS698	Motorola	SN54ALS698	
					Saratoga	MC10116			National	DM54ALS161		DM54ALS699	Motorola	SN54ALS699	
				DM10116	Motorola	MC10116						DM54ALS74	Motorola	SN54ALS74	
					Signetics	10116		DM54ALS161	Motorola	SN54ALS161			TI	SN54ALS74A	
				DM10414	Motorola	MCM10152			TI	SN54ALS161B					
							(Continued)				(Continued)				(Continued)

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				DM54LS11	SGS-Thomson	(Cont'd)		DM54LS161A	Signetics	54LS161A	(Cont'd)	DM54LS21	Motorola	SN54LS21	
DM54ALS804	TI	SN54ALS804A		TI	SN54LS11			TI	SN54LS161A			National	54LS21		
DM54ALS86	TI	SN54ALS86		DM54LS122	Motorola	SN54LS122		DM54LS162A	Motorola	SN54LS162A		DM54LS22	TI	T54LS21	
DM54ALS873	Motorola	SN54ALS873		TI	SN54LS122			SGS-Thomson	54LS162A			National	54LS22		
DM54ALS876	Motorola	SN54ALS876		DM54LS123	Motorola	SN54LS123		TI	T54LS162			SGS-Thomson			
DM54ALS880	Motorola	SN54ALS880		TI	SN54LS123			TI	SN54LS162A			TI	T54LS22		
DM54AS04	National	DM54ALS521		DM54LS125	Motorola	SN54LS125		Motorola	SN54LS163A			DM54LS221	Motorola	SN54LS221	
DM54AS1000	Mitsubishi	M74ALS158			SN54LS125A			National	DM54LS163A			TI	SN54LS221		
	National	DM54ALS353			54LS125A			SGS-Thomson	54LS163A			DM54LS240	Signetics	54LS240	
		DM74ALS158			SGS-Thomson	T54LS125			T54LS163			DM54LS241	Signetics	54LS241	
	Signetics	74ALS158			Signetics	54LS125			54LS163A			DM54LS244	Signetics	54LS244	
DM54AS1004	TI	SN54ALS353			54LS125A			DM54LS163A	Motorola	SN54LS163A		DM54LS245	Motorola	SN54LS245	
	National	DM54ALS465			DM74ALS231			National	DM54LS163			National	54LS245		
		DM74ALS231			DM54ALS466			SGS-Thomson	54LS163A			Signetics	54LS245		
DM54AS1008	National	DM54ALS466		DM54LS126	Motorola	SN54LS126			T54LS163			DM54LS247	Motorola	SN54LS247	
DM54AS1032	National	DM54ALS467		National	54LS126			SGS-Thomson	T54LS163			National	54LS247		
DM54AS1034	National	DM54ALS468		SGS-Thomson	T54LS126			Signetics	54LS163A			TI	SN54LS247		
DM54AS1036	National	DM54ALS519			54LS126			TI	SN54LS163A			DM54LS248	Motorola	SN54LS248	
DM54AS160	National	DM54ALS1000			SN54LS126A			DM54LS164	Motorola	SN54LS164		National	54LS248		
DM54AS162	National	DM54ALS1002		DM54LS13	Motorola	SN54LS13			National	54LS164		DM54LS249	Motorola	SN54LS249	
DM54AS168	National	DM54ALS1003		National	54LS13			SGS-Thomson	T54LS164			DM54LS253	Motorola	SN54LS253	
DM54AS175	Allegro	ULN2813		SGS-Thomson	T54LS13			Signetics	54LS164			National	DM7214		
	Micro	DM54ALS1004		TI	SN54LS13			TI	SN54LS164			54LS253			
	National	SG2813 (3642)		DM54LS132	Motorola	SN54LS132		DM54LS168	Motorola	SN54LS168		SGS-Thomson	T54LS253		
DM54AS243	Allegro	ULN2814		SGS-Thomson	T54LS132			National	54LS168			TI	SN54LS253		
	Micro	DM54ALS1005			TI	SN54LS132		SGS-Thomson	T54LS168			DM54LS257	Motorola	SN54LS257A	
	National	SG2814 (3642)		DM54LS136	Motorola	SN54LS136			SGS-Thomson	54LS169		National	54LS257A		
DM54AS258	National	DM54ALS1011		SGS-Thomson	54LS136			DM54LS169	Motorola	SN54LS169		SGS-Thomson	T54LS257		
DM54AS264	National	DM54ALS1020			TI	SN54LS136			National	54LS169		TI	SN54LS257B		
DM54AS32	National	DM54ALS522			SGS-Thomson	54LS136			SGS-Thomson	T54LS169		Signetics	54LS257A		
DM54AS808	National	DM54ALS1032			TI	SN54LS136		DM54LS170	TI	SN54LS169B		DM54LS257A	Signetics	54LS257B	
		DM54ALS40		DM54LS138	Motorola	SN54LS138			National	54LS170		DM54LS258A	Signetics	54LS258A	
DM54AS880	National	DM54ALS168B		National	54LS138			SGS-Thomson	T54LS170			DM54LS26	Motorola	SN54LS26	
DM54LS00	Motorola	SN54LS00		SGS-Thomson	T54LS138			TI	SN54LS170			National	54LS26		
	National	54LS00			Signetics	54LS138		DM54LS173	Motorola	SN54LS173A		SGS-Thomson	T54LS26		
	Signetics	54LS00		DM54LS139	TI	SN54LS138			National	54LS173		TI	SN54LS26		
DM54LS01	Motorola	SN54LS01		Motorola	SN54LS139				Signetics	54LS173		DM54LS266	Motorola	SN54LS266	
TI	SN54LS01			National	54LS139			DM54LS174	TI	SN54LS173A		National	54LS266		
DM54LS02	Motorola	SN54LS02		SGS-Thomson	T54LS139			Motorola	SN54LS174			SGS-Thomson	T54LS266		
National	54LS02				TI	SN54LS139A			National	54LS174		TI	SN54LS266		
SGS-Thomson	T54LS02			DM54LS14	Motorola	SN54LS14			Signetics	54LS174		DM54LS27	Motorola	SN54LS27	
	54LS02			National	54LS14				TI	SN54LS174		National	54LS27		
	TI	SN54LS02		SGS-Thomson	T54LS14			DM54LS175	Motorola	SN54LS175		SGS-Thomson	T54LS27		
DM54LS03	Motorola	SN54LS03			Signetics	54LS14			National	54LS175		TI	SN54LS27		
National	54LS03			DM54LS15	TI	SN54LS14			SGS-Thomson	54LS175		DM54LS273	Motorola	SN54LS273	
SGS-Thomson	54LS03			Motorola	SN54LS15				Signetics	T54LS175		National	54LS273		
	TI	SN54LS03		SGS-Thomson	54LS15			DM54LS191	TI	SN54LS175		SGS-Thomson	T54LS273		
DM54LS04	Motorola	SN54LS04			TI	SN54LS15			Motorola	SN54LS191		Signetics	54LS273		
National	54LS04			DM54LS151	Motorola	SN54LS151			SGS-Thomson	54LS191		TI	SN54LS273		
SGS-Thomson	T54LS04				National	54LS151				TI	SN54LS191	DM54LS279	Motorola	SN54LS279	
	54LS04				SGS-Thomson	54LS151			Signetics	54LS191		National	54LS279		
	TI	SN54LS04			TI	T54LS151			TI	SN54LS191		SGS-Thomson	T54LS279		
DM54LS05	Motorola	SN54LS05			DM54LS153	TI			Motorola	SN54LS192		TI	SN54LS279A		
National	54LS05				Motorola	SN54LS153			National	54LS192		DM54LS283	Motorola	SN54LS283	
SGS-Thomson	54LS05				National	54LS153			SGS-Thomson	T54LS192		National	54LS283		
	TI	SN54LS05			SGS-Thomson	T54LS153			TI	SN54LS192		SGS-Thomson	T54LS283		
DM54LS08	Motorola	SN54LS08			TI	SN54LS153			DM54LS193	Motorola	SN54LS193		TI	SN54LS283	
National	54LS08			DM54LS154	Signetics	54LS154			National	54LS193		DM54LS290	Motorola	SN54LS290	
SGS-Thomson	54LS08			DM54LS155	Motorola	SN54LS155			SGS-Thomson	T54LS193		SGS-Thomson	T54LS290		
	Signetics	54LS08			National	54LS155				Signetics	54LS193		TI	SN54LS290	
	TI	SN54LS08			SGS-Thomson	T54LS155			DM54LS195A	Motorola	SN54LS195A		TI	SN54LS293	
DM54LS09	Motorola	SN54LS09			TI	SN54LS155A			National	54LS195A		SGS-Thomson	TI	SN54LS290	
National	54LS09			DM54LS156	Motorola	SN54LS156			SGS-Thomson	T54LS195		DM54LS293	Motorola	SN54LS293	
SGS-Thomson	54LS09				National	54LS156				TI	SN54LS195		TI	SN54LS293	
	TI	SN54LS09			SGS-Thomson	T54LS156			Signetics	54LS195A		DM54LS295B	Signetics	54LS295B	
DM54LS10	Motorola	SN54LS10			TI	SN54LS156			TI	SN54LS195A		DM54LS298	Motorola	SN54LS298	
National	54LS10			DM54LS157	Motorola	SN54LS157			SGS-Thomson	SN54LS196		National	54LS298		
SGS-Thomson	T54LS10				National	54LS157				TI	T54LS196	SGS-Thomson	TI	SN54LS30	
	54LS10				SGS-Thomson	T54LS157			DM54LS197	Motorola	SN54LS197		TI	SN54LS298	
	Signetics	54LS10			TI	SN54LS157				TI	T54LS197	SGS-Thomson	Motorola	SN54LS30	
DM54LS109	TI	SN54LS10			Motorola	SN54LS158			SGS-Thomson	54LS197		National	54LS298		
Motorola	SN54LS109				National	54LS158				TI	SN54LS197	SGS-Thomson	TI	SN54LS30	
National	54LS109				SGS-Thomson	T54LS158			DM54LS20	Motorola	SN54LS20		TI	SN54LS30	
SGS-Thomson	T54LS109				TI	SN54LS158			National	54LS20		DM54LS32	Motorola	SN54LS32	
	54LS109				DM54LS161A	Motorola	SN54LS161A		SGS-Thomson	T54LS20		National	54LS32		
	TI	SN54LS109A			National	54LS161A				Signetics	54LS20	SGS-Thomson	TI	SN54LS32	
DM54LS11	Motorola	SN54LS11			SGS-Thomson	T54LS161			TI	SN54LS20			TI	SN54LS32	
National	54LS11					(Continued)				(Continued)				(Continued)	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				DM54LS670	Motorola National SGS-Thomson	SN54LS670 54LS670		DM54S153	Signetics TI	54S153 SN54S153		DM5409	National TI	5409 SN5409	(Cont'd)
DM54LS352	Motorola National SGS-Thomson	SN54LS352 54LS352				T54LS670 SN54LS670		DM54S157	Signetics TI	54S157 SN54S157		DM5410	Lansdale National TI	ML5410 5410 SN5410	(3514)
		T54LS352 SN54LS352		DM54LS73	Motorola National TI	SN54LS73A SN54LS73A		DM54S158	Signetics TI	SN54S158 SN54S158		DM54121	Lansdale National TI	ML54121 54121 SN54121	(3514)
DM54LS353	Motorola National SGS-Thomson	SN54LS353 54LS353		DM54LS73A	Motorola National TI	SN54LS73A SN54LS73A		DM54S163	TI	SN54S163		DM54123	Lansdale Mitsubishi National	ML54123 54123 SN54123	(3514)
		T54LS353 SN54LS353				SN54LS74A DM54LS74A		DM54S174	Signetics TI	54S174 SN54S174					
DM54LS366	TI Motorola National SGS-Thomson	SN54LS366A 54LS366A		DM54LS74	Motorola National	SN54LS74A 54LS74		DM54S175	TI	SN54S175		DM54125	National	DM7093 54125	
		T54LS366 SN54LS366A				SGS-Thomson		DM54S181	Signetics TI	54S181 SN54S181					
DM54LS367	TI Motorola National SGS-Thomson	SN54LS367A 54LS367A		DM54LS74A	Motorola National	SN54LS74A DM54LS74 54LS74		DM54S182	TI	SN54S182		DM54126	TI	SN54125	
		T54LS367 54LS367A				SGS-Thomson		DM54S188	National	DM7577		DM5414	National Lansdale	ML5414 5414	(3514)
DM54LS368	Motorola National SGS-Thomson	SN54LS368A 54LS368A		DM54LS76	Motorola TI	SN54LS76A SN54LS76A		DM54S189	National	DM54S189A					
		T54LS368 SN54LS368A				SGS-Thomson		DM54S194	TI	SN54S194		DM54148	National	DM9318	
DM54LS37	Motorola National SGS-Thomson	SN54LS37 54LS37		DM54LS77	Motorola	SN54LS77		DM54S195	TI	SN54S195		DM54150	National Lansdale	ML54150 54150	(3514)
		T54LS37 SN54LS37		DM54LS78	Motorola	SN54LS78A		DM54S200	Signetics	SN54S200					
DM54LS373	Motorola National SGS-Thomson	SN54LS373 54LS373		DM54LS83A	Motorola National SGS-Thomson	SN54LS83A 54LS83A		DM54S222	TI	SN54S222		DM54151	Lansdale National	ML54151 54151A SN54151A	(3514)
		T54LS373 SN54LS373				SGS-Thomson		DM54S241	Signetics	54S241		DM54153	Lansdale National	ML54153 54153	(3514)
DM54LS374	Motorola National SGS-Thomson	SN54LS374 54LS374		DM54LS85	Motorola National SGS-Thomson	SN54LS85 54LS85		DM54S244	Signetics	54S244					
		T54LS374 SN54LS374				SGS-Thomson		DM54S251	Signetics	54S251		DM54157	Lansdale National	ML54157 54157	(3514)
DM54LS377	Motorola National SGS-Thomson	SN54LS377 54LS377		DM54LS86	Motorola National SGS-Thomson	SN54LS86 54LS86		DM54S252	TI	SN54S252		DM54161	Lansdale National	ML54161 54161	(3514)
		T54LS377 SN54LS377				SGS-Thomson		DM54S257	TI	SN54S257					
DM54LS38	Motorola National SGS-Thomson	SN54LS38 54LS38		DM54LS89	Motorola National SGS-Thomson	SN54LS89 54LS89		DM54S258	TI	SN54S258		DM54162	Lansdale National	ML54162 54162	(3514)
		T54LS38 SN54LS38				SGS-Thomson		DM54S280	TI	SN54S280		DM54163	Lansdale National	ML54163 54163	(3514)
DM54LS386	Lansdale Motorola TI	SN54LS386 54LS386		DM54LS92	Motorola National SGS-Thomson	SN54LS92 54LS92		DM54S283	TI	SN54S283		DM54164	National	DM7570 54164	
		T54LS386 SN54LS386				SGS-Thomson		DM54S288	National	DM7578		DM54165	Lansdale National	ML54165 54165	(3514)
DM54LS395A	Signetics	54LS395A		DM54LS93	Motorola National SGS-Thomson	SN54LS93 54LS93		DM54S289	National	MM54S289		DM5417	Lansdale TI	ML5417 5417	(3514)
DM54LS40	Motorola National SGS-Thomson	SN54LS40 54LS40				SGS-Thomson		DM54S299	TI	SN54S299		DM54170	National	DM7551 54173	
		T54LS40 SN54LS40		DM54LS95B	Motorola National SGS-Thomson	SN54LS95B 54LS95B		DM54S300	TI	SN54S300		DM54173	National	DM7551 54173	
DM54LS42	TI Motorola National SGS-Thomson	SN54LS42 54LS42				SGS-Thomson		DM54S302	Signetics	54S302		DM54174	Lansdale National	ML54174 54174	(3514)
		T54LS42 SN54LS42		DM54LS98	Motorola National SGS-Thomson	SN54LS98 54LS98		DM54S322	TI	SN54S322		DM54175	Lansdale National	ML54175 54175	(3514)
DM54LS47	Motorola National TI	SN54LS47 54LS47				SGS-Thomson		DM54S332	TI	SN54S332		DM54177	National	DM7281 S7281	
		T54LS47 SN54LS47		DM54LS100	Motorola National SGS-Thomson	SN54LS100 54LS100		DM54S337	Signetics	54S337		DM54180	Lansdale	ML54180 54180	(3514)
DM54LS48	National TI	SN54LS48 54LS48				SGS-Thomson		DM54S374	Signetics	54S374		DM54182	Lansdale	ML54182 54182	(3514)
DM54LS49	Motorola National TI	SN54LS49 54LS49		DM54LS101	Motorola National SGS-Thomson	SN54LS101 54LS101		DM54S387	Signetics	SN82S126		DM54191	Lansdale National	ML54191 54191	(3514)
		T54LS49 SN54LS49				SGS-Thomson				SN82S126		DM54192	National	DM7560	
DM54LS51	Motorola National SGS-Thomson	SN54LS51 54LS51		DM54LS102	Motorola National SGS-Thomson	SN54LS102 54LS102		DM54S400	National	54S400		DM54193	National	DM7563	
		T54LS51 SN54LS51				SGS-Thomson		DM54S401	TI	SN54S401		DM54194	Lansdale	ML54194 54194	(3514)
DM54LS54	Motorola National SGS-Thomson	SN54LS54 54LS54		DM54LS103	Motorola National SGS-Thomson	SN54LS103 54LS103		DM54S402	Lansdale	ML5402 5402	(3514)	DM5420	Lansdale	ML5420 5420	(3514)
		T54LS54 SN54LS54				SGS-Thomson		DM54S403	TI	SN54S403		DM5425	National	5425	
DM54LS55	Motorola National SGS-Thomson	SN54LS55 54LS55		DM54LS104	Motorola National SGS-Thomson	SN54LS104 54LS104		DM54S404	TI	SN54S404		DM54251	National	DM7121	
		T54LS55 SN54LS55				SGS-Thomson		DM54S405	TI	SN54S405		DM5426	Lansdale	ML5426 5426	(3514)
		T54LS55 SN54LS55		DM54LS105	Motorola National SGS-Thomson	SN54LS105 54LS105		DM54S406	TI	SN54S406		DM5430	Lansdale	ML5430 5430	(3514)
		T54LS55 SN54LS55				SGS-Thomson		DM54S407	TI	SN54S407					
		T54LS55 SN54LS55		DM54LS106	Motorola National SGS-Thomson	SN54LS106 54LS106		DM54S408	Lansdale	ML5408 5408	(3514)	DM54365A	Signetics	54365A	
		T54LS55 SN54LS55				SGS-Thomson		DM54S409	Lansdale	ML5409 5409	(3514)	DM54367A	Signetics	54367A	
		T54LS55 SN54LS55		DM54LS107	Motorola National SGS-Thomson	SN54LS107 54LS107				SL5409		DM54368A	Signetics	54368A	(Continued)

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				DM74ALS02	Motorola	SN74ALS02		DM74ALS1640	TI	SN74ALS1640A		DM74ALS38	Signetics	74ALS38	
DM5437	National	5437		DM74ALS03	TI	SN74ALS03		DM74ALS168	TI	SN74ALS168B		DM74ALS40	TI	SN74ALS38A	
DM5438	Lansdale	ML5438	(3514)	DM74ALS04	Motorola	SN74ALS04		DM74ALS169	TI	SN74ALS169B		DM74ALS465	TI	SN74ALS40A	
	TI	SN5438			Signetics	74ALS04		DM74ALS174	Mitsubishi	M74ALS174		DM74ALS466	TI	SN74ALS465A	
DM5440	Lansdale	ML5440	(3514)		TI	SN74ALS04B			Signetics	74ALS174		DM74ALS467	TI	SN74ALS466A	
	National	5440		DM74ALS05	TI	SN74ALS05A		DM74ALS175	Mitsubishi	M74ALS175		DM74ALS468	TI	SN74ALS467A	
	TI	SN5440		DM74ALS08	Motorola	SN74ALS08			Signetics	74ALS175		DM74ALS518	TI	SN74ALS468A	
DM5442	Lansdale	ML5442	(3514)		Signetics	74ALS08		DM74ALS190	TI	SN74ALS190		DM74ALS519	TI	SN74ALS518	
	National	5442A		DM74ALS09	Motorola	SN74ALS09		DM74ALS191	Mitsubishi	M74ALS191		DM74ALS521	TI	SN74ALS519	
	TI	SN5442A			TI	SN74ALS09A			Signetics	74ALS191		DM74ALS522	TI	SN74ALS521	
DM5445	Lansdale	ML5445		DM74ALS10	Signetics	74ALS10		DM74ALS192	Motorola	SN74ALS192		DM74ALS523	TI	SN74ALS522	
	SGS-Thomson	L602			TI	SN74ALS10			TI	SN74ALS192		DM74ALS533	TI	SN74ALS523	
	Siemens	S042		DM74ALS1000	TI	SN74ALS1000A		DM74ALS193	Mitsubishi	M74ALS193		DM74ALS534	TI	SN74ALS533	
	Signetics	NE602		DM74ALS1002	TI	SN74ALS1002A			Motorola	SN74ALS193		DM74ALS563	Signetics	74ALS563	
	TI	SN5445		DM74ALS1003	TI	SN74ALS1003A		DM74ALS20	Signetics	74ALS20		DM74ALS564	TI	SN74ALS563	
DM5447A	Lansdale	ML5447		DM74ALS1004	TI	SN74ALS1004			TI	SN74ALS20A			Signetics	74ALS564	
	TI	SN5447A		DM74ALS1005	TI	SN74ALS1005		DM74ALS21	TI	SN74ALS21		DM74ALS573	Motorola	SN74ALS564	
DM5451	Lansdale	ML5451	(3514)	DM74ALS1008	TI	SN74ALS1008A		DM74ALS22	TI	SN74ALS22B			Signetics	74ALS573	
	Micrel	MM5451		DM74ALS1010	TI	SN74ALS1010A		DM74ALS231	National	DM54ALS231		DM74ALS574	Motorola	SN74ALS573	
	National	MM5451		DM74ALS1011	TI	SN74ALS1011A							Signetics	74ALS574	
	SGS-Thomson	M5451		DM74ALS1020	TI	SN74ALS1020A		DM74ALS240	Mitsubishi	M74ALS240A-1		DM74ALS577	Motorola	SN74ALS574	
DM5453	National	MM5453		DM74ALS1032	TI	SN74ALS1032A			Motorola	74ALS240A			Signetics	74ALS577	
DM5473	Lansdale	ML5473	(3514)	DM74ALS1034	TI	SN74ALS1034		DM74ALS241	Mitsubishi	M74ALS241A-1		DM74ALS580	Motorola	SN74ALS580A	
	National	5473		DM74ALS1035	TI	SN74ALS1035			Signetics	74ALS241A-1			TI	SN74ALS580A	
	TI	SN5473		DM74ALS109	Signetics	74ALS109		DM74ALS242	Motorola	SN74ALS242		DM74ALS620	Mitsubishi	M74ALS620A-1	
DM5474	National	5474		DM74ALS11	Signetics	74ALS11			TI	SN74ALS242B			Motorola	SN74ALS620A	
DM5475	Lansdale	ML5475	(3514)	DM74ALS112	Signetics	74ALS112		DM74ALS243	Motorola	SN74ALS243		DM74ALS621	TI	SN74ALS620A	
	National	5475		DM74ALS113	TI	SN74ALS113A			TI	SN74ALS243A			TI	SN74ALS621A	
	TI	SN5475		DM74ALS114	TI	SN74ALS114A		DM74ALS244	Mitsubishi	M74ALS244A-1		DM74ALS623	Mitsubishi	M74ALS623A-1	
DM5476	Lansdale	ML5476	(3514)	DM74ALS115	TI	SN74ALS115A			Motorola	SN74ALS244			Motorola	SN74ALS623	
	National	5476		DM74ALS116	TI	SN74ALS116A		DM74ALS245	Signetics	74ALS245			Signetics	74ALS623A	
	TI	SN5476		DM74ALS122	TI	SN74ALS122A			TI	SN74ALS245A-1		DM74ALS640	Motorola	SN74ALS640A	
DM5485	Lansdale	ML5485	(3514)	DM74ALS124	TI	SN74ALS124		DM74ALS251	Mitsubishi	M74ALS251			TI	SN74ALS640A	
	National	5485		DM74ALS1244	TI	SN74ALS1244A			Signetics	74ALS251		DM74ALS641	Motorola	SN74ALS641A	
	Signetics	5485		DM74ALS1245	TI	SN74ALS1245A		DM74ALS253	Mitsubishi	M74ALS253			TI	SN74ALS642A	
	TI	SN5485		DM74ALS131	TI	SN74ALS131			TI	SN74ALS253		DM74ALS642	Motorola	SN74ALS643A	
DM5486	Lansdale	ML5486	(3514)	DM74ALS133	TI	SN74ALS133		DM74ALS257	Mitsubishi	M74ALS257			TI	SN74ALS644	
	National	5486		DM74ALS137	TI	SN74ALS137			Signetics	74ALS257		DM74ALS645	Signetics	74ALS645A	
	SGS-Thomson	M5486		DM74ALS138	Signetics	74ALS138		DM74ALS258	Mitsubishi	M74ALS258			TI	SN74ALS645A	
	TI	SN5486		DM74ALS15	TI	SN74ALS15			TI	SN74ALS258		DM74ALS645A-1	Signetics	74ALS645A-1	
DM5488	Lansdale	SL8224		DM74ALS151	Mitsubishi	M74ALS151		DM74ALS27	Signetics	74ALS27			TI	SN74ALS645A-1	
DM5489	National	MM54S289			TI	SN74ALS151			TI	SN74ALS27		DM74ALS646	Motorola	SN74ALS646	
	TI	SN54S289		DM74ALS153	Mitsubishi	M74ALS153		DM74ALS273	Mitsubishi	M74ALS273			Motorola	SN74ALS647	
DM5490A	AD	CMP01			TI	SN74ALS153			TI	SN74ALS273		DM74ALS648	Motorola	SN74ALS648	
DM5492	Lansdale	ML5492		DM74ALS157	Mitsubishi	M74ALS157		DM74ALS28	TI	SN74ALS28A		DM74ALS649	Motorola	SN74ALS649	
	TI	SN5492A			Signetics	74ALS157		DM74ALS30	Signetics	74ALS30			TI	SN74ALS689	
DM5493	National	DM5493A		DM74ALS158	Mitsubishi	M74ALS158			TI	SN74ALS30		DM74ALS690	Motorola	SN74ALS690	
DM5493A	National	5495			TI	SN74ALS158		DM74ALS32	Motorola	SN74ALS32			TI	SN74ALS691	
DM5495	National	5495		DM74ALS160	Motorola	SN74ALS160B			Signetics	74ALS32		DM74ALS692	Motorola	SN74ALS692	
	TI	SN5495A			TI	SN74ALS160B		DM74ALS33	TI	SN74ALS33A			Motorola	SN74ALS693	
DM7093	National	DM54125		DM74ALS161	Motorola	SN74ALS161			TI	SN74ALS33A		DM74ALS697	Motorola	SN74ALS697	
	TI	54125			Signetics	74ALS161		DM74ALS352	TI	SN74ALS352			TI	SN74ALS698	
	TI	SN54125		DM74ALS162	Motorola	SN74ALS162			TI	SN74ALS352		DM74ALS699	Motorola	SN74ALS699	
DM7094	National	DM54126			TI	SN74ALS162A		DM74ALS37	TI	SN74ALS37A			TI	SN74ALS74	
DM7096	Lansdale	SL8796		DM74ALS163	Mitsubishi	M74ALS163			TI	SN74ALS37A		DM74ALS804	TI	SN74ALS804A	
	TI	SN54366A			Signetics	74ALS163		DM74ALS373	Mitsubishi	M74ALS373			TI	SN74ALS805A	
DM7097	Signetics	S8797		DM74ALS164	Signetics	74ALS164			TI	SN74ALS373		DM74ALS808	TI	SN74ALS808A	
	TI	SN54367A			TI	SN74ALS164		DM74ALS377	Motorola	SN74ALS377			TI	SN74ALS810	
DM7098	Signetics	S8798		DM74ALS166	Motorola	SN74ALS166			TI	SN74ALS377		DM74ALS811	TI	SN74ALS811	
	TI	SN54368A			TI	SN74ALS166		DM74ALS382	Motorola	SN74ALS382			TI	SN74ALS832A	
DM7121	National	DM54251		DM74ALS168	Motorola	SN74ALS168			Signetics	74ALS382		DM74ALS86	Signetics	74ALS86	
DM7160	National	DM8160			TI	SN74ALS168		DM74ALS383	TI	SN74ALS383A			TI	SN74ALS86	
DM7213	Lansdale	ML74154	(3514)	DM74ALS169	Motorola	SN74ALS169			TI	SN74ALS383A		DM74ALS873	Motorola	SN74ALS873	
	TI	ML8311			Signetics	74ALS169		DM74ALS387	TI	SN74ALS387			TI	SN74ALS874	
	National	ML9311		DM74ALS174	Motorola	SN74ALS174			TI	SN74ALS387		DM74ALS874	TI	SN74ALS874B	
	TI	DM74154			TI	SN74ALS174		DM74ALS377	Motorola	SN74ALS377			TI	SN74ALS876A	
	Signetics	DM8311		DM74ALS180	Motorola	SN74ALS180			TI	SN74ALS377		DM74ALS880	Motorola	SN74ALS880A	
DM7214	Motorola	SN54LS253			TI	SN74ALS180			TI	SN74ALS377			TI	SN74ALS880B	
	National	DM54LS253		DM74ALS182	Motorola	SN74ALS182		DM74ALS374	Mitsubishi	M74ALS374		DM74AS00	TI	SN74AS00	
	SGS-Thomson	54LS253			TI	SN74ALS182			Motorola	SN74ALS374			TI	SN74AS02	
	TI	T54LS253		DM74ALS183	Mitsubishi	M74ALS183		DM74ALS374	TI	SN74ALS374		DM74AS04	TI	SN74AS04	
DM7281	National	DM54177			Signetics	74ALS183			TI	SN74ALS374			TI	SN74AS08	
	Signetics	S7281		DM74ALS186	Motorola	SN74ALS186		DM74ALS377	Motorola	SN74ALS377		DM74AS10	TI	SN74AS10	
DM74ALS00	Motorola	SN74ALS00			TI	SN74ALS186			Signetics	74ALS377		DM74AS1000	TI	SN74AS1000	
	TI	SN74ALS00		DM74ALS192	Motorola	SN74ALS192									
DM74ALS01	TI	SN74ALS01			TI	SN74ALS192									

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
DM74LS164	Hitachi	HD74LS164		DM74LS195	Panasonic	DN74LS195A		DM74LS258	National	74LS258A		DM74LS366	Motorola	SN74LS366A	
	Motorola	SN74LS164A			Samsung	MC7924C			Panasonic	DN74LS258A			National	74LS366A	
	National	74LS164			SGS-Thomson	L7924			SGS-Thomson	74LS258			Panasonic	DN74LS366A	
	Panasonic	DN74LS164				TI	74LS195A	DM74LS26	Hitachi	HD74LS26			SGS-Thomson	74LS366	
	SGS-Thomson	74LS164				TI	μA7924		TI	SN74LS258B		DM74LS367	Signetics	74LS366A	
		74LS164		DM74LS196	Toshiba	TA79024	SN74LS195A		Hitachi	HD74LS26			TI	SN74LS366A	
	Signetics	74LS164			Motorola	SN74LS196			Motorola	SN74LS26			Hitachi	HD74LS367A	
		74LS164			National	74LS196			National	74LS26			Motorola	SN74LS367A	
	TI	SN74LS164			Panasonic	DN74LS196			Panasonic	DN74LS26			National	74LS367A	
DM74LS166	Motorola	SN74LS166			SGS-Thomson	74LS196			SGS-Thomson	74LS26			Panasonic	DN74LS367A	
	SGS-Thomson	74LS166				Signetics	N82S80			74LS26			SGS-Thomson	74LS367	
		74LS166				TI	SN74LS196		DM74LS266	Lansdale	ML8242			74LS367A	
	TI	SN74LS166A		DM74LS197	Motorola	SN74LS197			Motorola	SN74LS266		DM74LS368	Signetics	74LS367A	
DM74LS168	Motorola	SN74LS168			National	74LS197			Motorola	SN74LS266			TI	SN74LS367A	
	SGS-Thomson	74LS168			Panasonic	DN74LS197			National	74LS266			Hitachi	HD74LS368	
		74LS168			SGS-Thomson	74LS197			Panasonic	DN74LS266			Motorola	SN74LS368A	
DM74LS169	Motorola	SN74LS169				Signetics	74LS197		SGS-Thomson	74LS266			National	74LS368A	
	National	74LS169				TI	SN74LS197			74LS266			Panasonic	DN74LS368A	
	SGS-Thomson	74LS169		DM74LS20	Hitachi	HD74LS20			Signetics	74LS266			SGS-Thomson	74LS368	
		74LS169			Motorola	SN74LS20			TI	SN74LS266		DM74LS37	Signetics	74LS368A	
	Signetics	74LS169A			National	74LS20			Hitachi	HD74LS27			TI	SN74LS368A	
	TI	SN74LS169			Panasonic	DN74LS20			Motorola	SN74LS27			Hitachi	HD74LS37	
DM74LS170	Motorola	SN74LS170			SGS-Thomson	74LS20			National	74LS27			Motorola	SN74LS37	
	National	74LS170				Signetics	74LS20		Panasonic	DN74LS27			National	74LS37	
	Panasonic	DN74LS170				TI	SN74LS20		SGS-Thomson	74LS27			Panasonic	DN74LS37	
	SGS-Thomson	74LS170		DM74LS21	Hitachi	HD74LS21			Signetics	74LS27			SGS-Thomson	74LS37	
		74LS170			Motorola	SN74LS21			TI	SN74LS27		DM74LS374	Signetics	74LS37	
	TI	SN74LS170			Hitachi	HD74LS21			Hitachi	HD74LS279			TI	SN74LS37	
DM74LS173	Motorola	SN74LS173A			Motorola	SN74LS21			Motorola	SN74LS279			Motorola	SN74LS374	
	National	74LS173			National	74LS21			National	74LS279			National	74LS374	
	Panasonic	DN74LS173			Panasonic	DN74LS21			Panasonic	DN74LS279			SGS-Thomson	74LS374	
	SGS-Thomson	74LS173			SGS-Thomson	74LS21			SGS-Thomson	74LS279		DM74LS38	Signetics	74LS374	
		74LS173				Signetics	74LS21			74LS279			TI	SN74LS374	
	Signetics	74LS173		DM74LS22	Hitachi	HD74LS22			Hitachi	HD74LS283			Hitachi	HD74LS38	
	TI	SN74LS173A			Motorola	SN74LS22			Motorola	SN74LS283			Motorola	SN74LS38	
DM74LS174	Hitachi	HD74LS174			Panasonic	DN74LS22			National	74LS283			National	74LS38	
	Motorola	SN74LS174			SGS-Thomson	74LS22			Panasonic	DN74LS283			Panasonic	DN74LS38	
	National	74LS174				Hitachi	HD74LS221		SGS-Thomson	74LS283			SGS-Thomson	74LS38	
	Panasonic	DN74LS174				Motorola	SN74LS221			74LS283			Signetics	74LS38	
	SGS-Thomson	74LS174		DM74LS221	Hitachi	HD74LS221			Signetics	74LS283			TI	SN74LS38	
		74LS174			Motorola	SN74LS221			TI	SN74LS283		DM74LS386	Hitachi	HD74LS386	
	Signetics	74LS174			National	74LS221			Hitachi	HD74LS290			Motorola	SN74LS386	
	TI	SN74LS174			TI	SN74LS221			Motorola	SN74LS290			Motorola	SN74LS386	
DM74LS190	Hitachi	HD74LS190			Motorola	SN74LS245			National	74LS290			Panasonic	DN74LS386	
	Motorola	SN74LS190			SGS-Thomson	74LS245			Panasonic	DN74LS290			TI	SN74LS386A	
	National	74LS190				Signetics	74LS245		SGS-Thomson	74LS290		DM74LS395	National	74LS395	
	Panasonic	DN74LS190				TI	SN74LS245			74LS290			Panasonic	DN74LS395A	
	SGS-Thomson	74LS190				Hitachi	HD74LS247			74LS290			SGS-Thomson	74LS395	
		74LS190		DM74LS247	Hitachi	HD74LS247			Signetics	74LS290				74LS395	
	TI	SN74LS190			Motorola	SN74LS247			TI	SN74LS290		DM74LS40	Signetics	74LS395	
DM74LS191	Hitachi	HD74LS191			National	74LS247			Hitachi	HD74LS293			TI	SN74LS395A	
	Motorola	SN74LS191			TI	SN74LS247			Motorola	SN74LS293			Hitachi	HD74LS40	
	National	74LS191				Hitachi	HD74LS248		National	74LS293			Motorola	SN74LS40	
	Panasonic	DN74LS191				Motorola	SN74LS248		Panasonic	DN74LS293			National	74LS40	
	SGS-Thomson	74LS191				National	74LS248		SGS-Thomson	74LS293			Panasonic	DN74LS40	
		74LS191				SGS-Thomson	74LS248			74LS293			SGS-Thomson	74LS40	
	Signetics	74LS191		DM74LS249	Hitachi	HD74LS249			Signetics	74LS293		DM74LS42	TI	SN74LS40	
	TI	SN74LS191			Motorola	SN74LS249			TI	SN74LS293			Hitachi	HD74LS42	
DM74LS192	Hitachi	HD74LS192			National	74LS249			Hitachi	HD74LS30			Motorola	SN74LS42	
	Motorola	SN74LS192			SGS-Thomson	74LS249			Motorola	SN74LS30			National	74LS42	
	National	74LS192				Hitachi	HD74LS251		National	74LS30			Panasonic	DN74LS42	
	Panasonic	DN74LS192				Motorola	SN74LS251		Panasonic	DN74LS30			SGS-Thomson	74LS42	
	SGS-Thomson	74LS192				National	74LS251		SGS-Thomson	74LS30		DM74LS47	TI	SN74LS42	
		74LS192		DM74LS251	Hitachi	HD74LS251				74LS30			Hitachi	HD74LS47	
	Signetics	74LS192			Motorola	SN74LS251				74LS30			Motorola	SN74LS47	
	TI	SN74LS192			National	74LS251				74LS30			National	74LS47	
DM74LS193	Hitachi	HD74LS193			Panasonic	DN74LS251				74LS30			SGS-Thomson	74LS47	
	Motorola	SN74LS193			SGS-Thomson	74LS251				74LS30				74LS47	
	National	74LS193				TI	SN74LS251			74LS30		DM74LS48	TI	SN74LS47	
	Panasonic	DN74LS193				Hitachi	HD74LS253			74LS30			Motorola	SN74LS48	
	SGS-Thomson	74LS193				Motorola	SN74LS253			74LS30			National	74LS48	
		74LS193				National	74LS253			74LS30			SGS-Thomson	74LS48	
	Signetics	74LS193				DM8214				74LS30		DM74LS49	Signetics	74LS48	
	TI	SN74LS193				Panasonic	DN74LS253			74LS30			Motorola	SN74LS49	
DM74LS194	Hitachi	HD74LS194A				SGS-Thomson	74LS253			74LS30			SGS-Thomson	74LS49	
	Motorola	SN74LS194A					74LS253			74LS30				74LS49	
	National	74LS194A					74LS253			74LS30				74LS49	
	Panasonic	DN74LS194A					74LS253			74LS30				74LS49	
	SGS-Thomson	74LS194A					74LS253			74LS30				74LS49	
		74LS194A		DM74LS257	Hitachi	HD74LS257A				74LS30				74LS49	
	Signetics	74LS194A			Motorola	SN74LS257A				74LS30		DM74LS51	TI	SN74LS49	
	TI	SN74LS194A			National	74LS257A				74LS30			Hitachi	HD74LS51	
DM74LS195	GoldStar	GL7924			SGS-Thomson	74LS257				74LS30			Motorola	SN74LS51	
	Hitachi	HD74LS195A				74LS257				74LS30			National	74LS51	
	Motorola	MC719924				74LS257A				74LS30			Panasonic	DN74LS51	
		MC7924				74LS257B				74LS30			SGS-Thomson	74LS51	
		SN74LS195A				TI	SN74LS257B			74LS30				74LS51	
	National	μA7924				Hitachi	HD74LS258			74LS30			Signetics	74LS51	
		LM7924				Motorola	SN74LS258A			74LS30			TI	SN74LS51	
		74LS195A								74LS30					
				(Continued)				(Continued)							(Continued)

• Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				DM74LS93	SGS-Thomson	(Cont'd)		DM74S289	National	DM7489 DM8589 MM74S289 7489		DM7408	Lansdale	ML7408 (3514)	
DM74LS54	Hitachi	HD74LS54			Signetics	T74LS93			Signetics	74S289		DM7409	National	7408	
	Motorola	SN74LS54			TI	SN74LS93			TI	SN7489			Lansdale	ML7409 (3514)	
	National	74LS54		DM74LS95B	Hitachi	HD74LS95B		DM74S30	National	74S30			National	7409	
	Panasonic	DN74LS54			Motorola	SN74LS95B			TI	SN74S30		DM7410	Saratoga	SSL7409	
	SGS-Thomson				National	74LS95B		DM74S387	Fujitsu	MB7113			TI	SN7409	
		T74LS54			Panasonic	DN74LS95B		DM74S40	National	74S40			Lansdale	ML7410 (3514)	
	Signetics	74LS54			SGS-Thomson				Signetics	74S40			National	7410	
DM74LS55	Hitachi	HD74LS55				T74LS95		DM74S472	AMD	AM27S29		DM74107	Signetics	7410	
	Motorola	SN74LS55				T74LS95B			TI	SN74S40			TI	SN7410	
	National	74LS55		DM74L164	Signetics	74LS95B			Fujitsu	MB7124		DM74109	TI	SN74107	
	Panasonic	DN74LS55		DM74L192	TI	SN74LS95B			Raytheon	29623		DM7411	TI	SN74109	
	SGS-Thomson			DM74L193	National	DM86L70			Signetics	N82S147		DM74121	National	7411	
		T74LS55		DM74S00	National	DM85L63				N82S147A			Lansdale	ML74121 (3514)	
DM74LS670	Motorola	SN74LS670			Signetics	74S00		DM74S474	AMD	S82S147			National	74121	
	National	74LS670		DM74S02	TI	SN74S00			Harris	AM27S31		DM74123	Signetics	SN74121	
	SGS-Thomson				National	74S02			Signetics	HM6642			Lansdale	ML74123 (3514)	
		T74LS670		DM74S03	Signetics	74S02				N82S141			National	74123	
DM74LS73	Hitachi	HD74LS73			TI	SN74S02		DM74S475	Lansdale	S82S141			TI	SN74123	
	Motorola	SN74LS73A		DM74S04	National	74S03			National	DM77S475		DM74125	National	DM8093	
	Panasonic	DN74LS73			Signetics	74S03		DM74S51		DM87S475			Signetics	74125	
	Signetics	74LS73		DM74S05	TI	SN74S03			National	74S51		DM74126	TI	SN74125	
	TI	SN74LS73A			National	74S04			Signetics	SN74S51			National	DM8094	
DM74LS74	Hitachi	HD74LS74			TI	SN74S04		DM74S570	Fujitsu	MB7115			Signetics	74126	
	Motorola	SN74LS74A		DM74S10	National	74S05			Signetics	N82S130		DM7413	TI	SN74126	
	National	74LS74			Signetics	74S05				S82S130			Lansdale	ML7413 (3514)	
	Panasonic	DN74LS74A			TI	SN74S05		DM74S571	AMD	AM27S13			Saratoga	SSL7413	
	SGS-Thomson				National	74S10			Harris	ICL7621		DM74132	TI	SN7413	
		T74LS74		DM74S11	Signetics	74S10			Lansdale	HL7621			Lansdale	ML74132 (3514)	
	Signetics	74LS74			TI	SN74S10			Maxim	ICL7621			National	74132	
DM74LS75	Hitachi	HD74LS75			National	74S11			MicroPwr	MP7621			TI	SN74132	
	Motorola	SN74LS75		DM74S112	Signetics	74S11			National	DM74S571A		DM7414	Lansdale	ML7414 (3514)	
	Panasonic	DN74LS75			TI	SN74S11			Signetics	N82S131			National	7414	
	SGS-Thomson				Motorola	SN74S112		DM74S571A		S82S131			Signetics	7414	
		T74LS75		DM74S113	National	74S112			AMD	AM27S13		DM74141	TI	SN7414	
	Signetics	74LS75			Signetics	74S112			Harris	ICL7621			Lansdale	ML7441	
DM74LS76	Hitachi	HD74LS76			TI	SN74S112			Lansdale	HL7621			National	DM7441	
	Motorola	SN74LS76A		DM74S114	Lansdale	ML3062 (3514)			Maxim	ICL7621			Signetics	93141	
		SN75176			TI	SN74S113			MicroPwr	MP7621				74141	
	Panasonic	DN74LS76		DM74S133	TI	SN74S114			National	DM74S571		DM74145	TI	SN74145	
	Signetics	74LS76			National	74S133			Signetics	N82S131			National	74145	
DM74LS78	Motorola	SN74LS78A		DM74S134	Signetics	74S133		DM74S573		S82S131			Signetics	74145	
	Panasonic	DN74LS78			TI	SN74S133			AMD	AM27S33		DM74147	TI	SN74145	
	TI	SN74LS78A		DM74S135	Signetics	74S134			Fujitsu	MB7122			Signetics	N82147	
DM74LS83A	Hitachi	HD74LS83A		DM74S138	TI	SN74S134			Lansdale	HL7643		DM74148	TI	SN74147	
	Motorola	SN74LS83A			National	SN74S135		DM74S65	TI	SN74S65			National	DM8318	
	National	74LS83A		DM74S140	Signetics	74S138			TI	SN74S65			Signetics	N82148	
	Panasonic	DN74LS83A			TI	SN74S138		DM74S74	National	74S74		DM74150	TI	SN74148	
	SGS-Thomson			DM74S15	Signetics	74S138			Signetics	74S74			Lansdale	ML74150 (3514)	
		T74LS83		DM74S182	TI	SN74S138			TI	SN74S74			National	74150	
	Signetics	74LS83A			TI	SN74S15		DM74S86	National	74S86		DM74153	Signetics	SN74150	
DM74LS85	Hitachi	HD74LS85		DM74S188	Signetics	74S182			Signetics	SN74S86			TI	SN74150	
	Motorola	SN74LS85		DM74S189	TI	SN74S182		DM7400	Lansdale	ML7400 (3514)		DM74153	Lansdale	ML74153 (3514)	
	National	74LS85			Fujitsu	MB7111			National	7400			National	74153	
	Panasonic	DN74LS85			AMD	AM27S03		DM7401	Signetics	7400		DM74154	TI	SN74153	
	Signetics	74LS85				AM27S03			TI	SN7400			Lansdale	ML74154 (3514)	
DM74LS86	Hitachi	HD74LS86				SN74S189			Lansdale	7401				ML8311	
	Motorola	SN74LS86			Cypress	CY27S03M			National	SSL7401			National	DM7213	
	National	74LS86				CY27S03		DM7402	Saratoga	SN7401				DM8311	
	Panasonic	DN74LS86				CY7C189			TI	SN7401			Signetics	9311	
	SGS-Thomson					CY74S189			Lansdale	ML7402 (3514)			TI	74154	
		T74LS86				DM7599			National	7402		DM74155	TI	SN54154	
	Signetics	74LS86				DM8599			Signetics	7402			Lansdale	ML74155 (3514)	
DM74LS90	Hitachi	HD74LS90				54F189			TI	SN7402			National	74155	
	Motorola	SN74LS90		DM74S20	National	74S20			Toshiba	TA7402P		DM74156	TI	SN74155	
	National	74LS90			Signetics	74S20		DM7403	Lansdale	ML7403 (3514)			TI	SN74156	
	Panasonic	DN74LS90			TI	SN74S20			National	7403		DM74157	Signetics	74157	
	SGS-Thomson				Signetics	74S22			Saratoga	SSL7403			TI	SN74157	
		T74LS90		DM74S22	TI	SN74S22			Signetics	7403		DM7416	National	7416	
	Signetics	74LS90			Signetics	74S251		DM7404	TI	SN7403			Signetics	7416	
DM74LS92	Hitachi	HD74LS92			TI	SN74S251			Lansdale	ML7404 (3514)			TI	SN7416	
	Motorola	SN74LS92		DM74S280	Signetics	74S280			National	7404		DM74160	Signetics	SN7416	
	Panasonic	DN74LS92			TI	SN74S280			Saratoga	SSL7404			Lansdale	ML74160 (3514)	
	SGS-Thomson			DM74S287	AMD	AM27S21			Signetics	7404			TI	SN74160	
		T74LS92				27S21			TI	SN7404		DM74161	TI	SN74160	
	Signetics	74LS92			Fujitsu	MB7114			Lansdale	ML7405 (3514)			Lansdale	ML74161 (3514)	
DM74LS93	Hitachi	HD74LS93			Signetics	N82S129A			National	7405			National	74161	
	Motorola	SN74LS93		DM74S288	AMD	S82S129			Signetics	7405		DM74162	TI	SN74161	
	Panasonic	DN74LS93				S82S129			TI	SN7405			Lansdale	ML74162 (3514)	
		T74LS92				S82S129			Lansdale	ML7406 (3514)			TI	SN74162	
	Signetics	74LS92				AM27S19			National	7406		DM74163	Lansdale	ML74163 (3514)	
	TI	SN74LS92				27S19			Signetics	7406			National	74163	
	Hitachi	HD74LS93			Fujitsu	MB7112			TI	SN7406		DM74165	TI	SN74163	
	Motorola	SN74LS93			Lansdale	HL7603		DM7407	Lansdale	ML7407 (3514)			Lansdale	ML74165 (3514)	
	Panasonic	DN74LS93			Signetics	DM8578			National	7407			National	DM8590	
						N82US123			Signetics	7407				74165	
						82S123			TI	SN7407			TI	SN74165	

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				DM7437	Lansdale	ML7437 (3514)		DM76L70	National	DM54L164		DM77S191	AMD	AM27S191	
					National	7437		DM77LS181	AMD	AM27S181				AM27S191A	
DM74166	Signetics	74166		DM7438	Signetics	7437			Cypress	CY7C282M				AM27S191SA	
	TI	SN74166			TI	SN7437	(3514)		Gould AMI	S25089				27S191	
DM7417	Lansdale	ML7417 (3514)			Lansdale	ML7438 (3514)			Hitachi	HN25089			ATMEL	AT28HC191	
	National	7417			National	7438			Lansdale	HL7681				AT28HC191L	
	Signetics	7417		DM7440	Signetics	7438			National	DM77S181			Cypress	CY7C291	
DM74170	TI	SN7417			TI	SN7438	(3514)			DM77S281				CY7C292	
	National	74170			Lansdale	ML7440 (3514)				DM87S181				CY7C292A	
	TI	SN74170			National	7440				DM87S281				CY7C292AL	
DM74173	National	DM8551			Signetics	7440			Raytheon	932451			Hitachi	HN25169	
		74173		DM7441	TI	SN7440				29631			Motorola	MCM76101	
	TI	SN74173			Lansdale	ML7441				29631AM				MCM76160	
DM74174	Lansdale	ML74174 (3514)			National	DM74141			Signetics	N82S181			National	DM87S191	
	National	74174				93141				S82S181				DM87S291	
	Signetics	74174		DM7442	Signetics	74141			STC	STC5089				DM87S291A	
	TI	SN74174				7441	(3514)		TI	28586-60				DM87S291B	
DM74175	Lansdale	ML74175 (3514)			Lansdale	ML7442 (3514)			AMD	AM21L49				932510	
	National	74175			National	DM8842				AM27S25				932511	
	TI	SN74175				7442				AM27S25A				932512	
DM74176	Lansdale	ML8280		DM7450	TI	SN7442A	(3514)		Cypress	CY21L49				932511	
		RL8280			Lansdale	ML7450 (3514)				CY7C225			Signetics	N82S191	
	National	DM8280			National	7450			Motorola	MCM27S25				N82S191A	
	Signetics	96176		DM7451	TI	SN7450			National	DM77SR25B				82S191	
DM74177	TI	SN74176			Lansdale	ML7451 (3514)				DM77SR476			TI	TBP38L166	
	Lansdale	ML8281			National	7451				DM77SR476B				TMS27C291	
	National	DM8281		DM7454	Signetics	7451	(3514)			DM87SR25				TMS27C292	
	Signetics	74177			TI	SN7451				DM87SR25B			Waferscale	WS57C191	
DM74180	Lansdale	ML74180 (3514)		DM7470	Lansdale	ML7454 (3514)				DM87SR474				WS57C291B	
	National	74180			TI	SN7454				DM87SR476			DM77S191A	SGS-Thomson	TS71191
	TI	SN74180		DM7473	Lansdale	ML7470 (3514)			AMD	DM87SR476B				AM27S41	
DM74181	Lansdale	ML54181 (3514)			National	7473				AM27S25				AM27S41A	
		ML74181 (3514)		DM7474	Lansdale	ML7474 (3514)			Cypress	AM27S25A				27S41	
DM74190	Lansdale	ML74190 (3514)			National	7474				CY21L49			Fujitsu	MB7152	
	TI	SN74190		DM7475	Signetics	7474	(3514)		Motorola	CY7C225			National	DM87S195	
DM74191	Lansdale	ML74191 (3514)			TI	SN7474			National	MCM27S25			Signetics	N82HS195	
	TI	SN74191		DM7476	Lansdale	ML7475 (3514)				DM77SR25				N82HS195A	
DM74192	Lansdale	ML74192 (3514)			National	7475				DM77SR476			TI	TBP34S162	
	National	DM8560		DM7477	Signetics	7475				DM87SR25			AMD	AM27S181	
	Signetics	74192			TI	SN7475				DM87SR25B			Cypress	CY7C282M	
DM74194	Lansdale	ML74194 (3514)		DM7478	Lansdale	ML7476 (3514)				DM87SR474			Gould AMI	S25089	
	Signetics	74194			National	7476				DM87SR476			Hitachi	HN25089	
DM74195	Lansdale	ML74195 (3514)		DM7485	TI	SN7476			AMD	DM87SR476B			Lansdale	HL7681	
	TI	SN74195			Lansdale	ML7485 (3514)				AM21L49			National	DM77LS181	
DM74196	Lansdale	ML74196 (3514)		DM7486	National	7485			Cypress	AM27S25A				DM77S181	
		RL8290			Signetics	7485				CY21L49				DM87S181	
	National	DM8290		DM7488	TI	SN7485	(3514)		Motorola	CY7C225				DM87S281	
	Signetics	74196			Lansdale	ML7486 (3514)			National	MCM27S25			Raytheon	932451	
DM74197	Lansdale	ML74197 (3514)		DM7489	Signetics	7486				DM77SR25				29631AM	
		ML8291			TI	SN7486				DM77SR25B			Signetics	N82S181	
	National	RL8291		DM7496	National	DM74S289				DM77SR476B				S82S181	
	Signetics	74197		DM7507	Signetics	MM74S289				DM87SR25			STC	STC5089	
DM74198	TI	SN74197			TI	74S289				DM87SR25B			TI	28586-60	
DM74199	Signetics	74199		DM7551	National	DM54173				DM87SR474			Cypress	CY7C291	
	TI	SN74199			TI	54173				DM87SR476			EXEL	XL46C15	
DM7420	Lansdale	ML7420 (3514)		DM7560	National	SN54173				DM87SR476B			Harris	HM6617	
	National	DM9004C		DM7563	National	DM54192				AM21L49				IM6716	
		7420		DM7570	National	DM54193				AM27S25			Lansdale	HL76161	
	Signetics	9004				54164				AM27S25A			National	DM77S291A	
DM7423	Lansdale	ML7423 (3514)		DM7577	Signetics	SN7489			Cypress	CY7C225				932511M	
	TI	SN7423		DM7578	TI	SN7496				CY7C225			Raytheon	29681	
DM7425	Lansdale	ML7425 (3514)		DM7590	National	AD7511			Motorola	MCM27S25				29681A	
	National	7425			AD	AD7590			National	DM77SR25				29683	
DM74251	TI	SN7425				AD7591				DM77SR25B				29683A	
	TI	SN74251		DM7599	MicroPwr	SW7511				DM87SR476			Waferscale	WS57C191	
DM7426	Lansdale	ML7426 (3514)			TeledyneS	MP7511DI				DM87SR25B				WS57C291B	
	National	µA75451			Unitrode	TSC445				DM87SR474			Cypress	CY7C291	
	Signetics	DM8810			AMD	PIC7511				DM87SR476			EXEL	XL46C15	
	TI	SN7426				AM27LS03				DM87SR476B			Harris	HM6617	
DM7427	Lansdale	ML7427 (3514)		DM7577	National	DM54S188				AM27S181				IM6716	
	National	7427		DM7578	National	DM54S288				CY7C282M			Lansdale	HL76161	
	TI	SN7427		DM7590	AD	AD7511				S25089			National	DM77S291	
DM7430	Lansdale	ML7430 (3514)				AD7591				HN25089			Raytheon	29681A	
	National	7430				SW7511				HL7681				29683	
	TI	SN7430				MP7511DI				DM77LS181				29683A	
DM7432	National	7432				TSC445				DM77S281				WS57C191	
	Signetics	7432				PIC7511				DM87S181				WS57C291B	
	TI	SN7432				AM27LS03				DM87S181				DM54S475	
						AM27S03				932451				DM87S295	
						SN74S189				29631			AMD	AM27S43	
						CY27LS03M				29631AM				AM27S43A	
						CY27S03				N82S181				27S43	
						CY7C189				S82S181			Fujitsu	MB7142	
						CY74S189				STC5089			ICT	27CX321	
						DM74S189				28586-60			Lansdale	HL76321	
						DM8599				29651AM			Raytheon	R29671D	
						54F189				HN25168				29671	
										DM87S190				29671A	
										WS57C291B					

ALT. SOURCE DIRECTORY

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				DM8842	Lansdale National	ML7442 DM7442 7442	(3514)	DM937	Motorola National	MC837 MC937 937	(Cont'd)	DN834	Allegro Micro National	UGN3201K DN837 DN839	
DM87S291A	TI	TBP38L166 TMS27C291 TMS27C292 WS57C191	(Cont'd)	DM8875A	TI	SN7442A		DM944	Lansdale	ML844 ML944			Panasonic	DN834 DN837 DN839	
DM87S291B	AMD	AM27S191 AM27S191A AM27S191SA 27S191		DM8875B	TI	DM8875B SN74284			Motorola National	MC944 944			Siemens	SAS241 SAS250 SAS251	
	ATMEL	AT28HC191 AT28HC191L		DM8885	National	DS8885		DM945	Lansdale	ML845 ML945		DN835	Panasonic	DN835	
	Cypress	CY7C291 CY7C292 CY7C292A CY7C292AL		DM8887	Allegro Micro	UDN6116A-2 UDN6118			Motorola National	MC945 945		DN837	Allegro Micro National	UGN3201K DN834	
	Hitachi	HN25169		DM8889	Dionics	DS8887 KA2651		DM946	Lansdale	ML846 ML946			Panasonic	DN834 DN837	
	Motorola	MCM76101 MCM76160		DM8891	National	DS8889			Motorola National	MC946 946			Siemens	DN839 SAS241 SAS250	
	National	DM77S191 DM87S191 DM87S291 DM87S291A		DM8894	National	DS8891 DS75494		DM948	Lansdale	ML848 ML948		DN838	Allegro Micro	UGN3203K DN838	
		93Z510 93Z511 93Z512 93Z511		DM8897	Dionics	DS8897 DI804A			Motorola National	MC948 948		DN839	Allegro Micro National	UGN3201K DN834 DN837	
	Signetics	N82S191 N82S191A 82S191		DM9004C	Lansdale National	ML7420 DM7420 7420	(3514)	DM9567	Lansdale	ML857 ML957			Panasonic	DN834 DN837 DN839	
	TI	TBP38L166 TMS27C291 TMS27C292 WS57C191		DM9016C	Signetics TI	SN7420 ML5404	(3514)		Motorola National	MC949 949			Siemens	SAS241 SAS250 SAS251	
DM87S295	National	DM54S475 DM77S295		DM9093	Lansdale	ML853 ML953		DM957	Lansdale	ML857 ML957		DP8216	Intel	INS8216 8216	
DM87S321	AMD	AM27S43 AM27S43A 27S43		DM9094	Motorola	MC853 MC953			Motorola	MC857 MC957		DP8224	Intel	INS8224 8224	
DM87S321	Fujitsu	MB7142 27CX321		DM9097	Lansdale	ML855 ML955		DM958	Lansdale	ML858 ML958		DP8226	Intel	INS8226 8226	
	Lansdale	HL76321 DM77S321			Motorola	MC855 MC955		DM9601	National	ML74122 ML8601	(3514)	DP8303	AMD	TIM8228 DP8303	
	Raytheon	R29671D 29671		DM930	Lansdale	ML830 ML930			National	DM8601 9601		DP8304	Harris	82C86H 82C86	
DM87S321	Signetics	N82H321 WS57C43B			Motorola	MC830 MC930			Signetics	N8T22 S8T22			NEC	μPD71086	
DM87S402	AMD	67402		DM9301	National	930		DM9602	TI	SN74122		DP8340	OKI	MSM82C86	
DM87S402A	AMD	C57402 C57402A C67402 C67402A			Lansdale	ML8301 ML9301			Lansdale	ML9602 DM8602		DP8392	SMC	COM9064 MBL8392A	
		57402 67C402			National	RL8252 SL8252		DM961	Lansdale	9602		DP84C21	Signetics	NE8392A DP84C22	(3591)
	IDT	IDT72402				DM8301 9031		DM962	Motorola	ML961 MC961			Samsung	DP84C21 KS84C21	
DM87S421	AMD	DM77S402 DM77S402A AM29C116		DM9309	Signetics Lansdale	9301 S8252			National	9961 ML862		DP84C22	National	DP84C21 KS84C22	
DM87S421	Cypress	AM29C116 AM29C116A AM29116		DM9311	National	DM8309 9309		DM963	Lansdale	9962 HL7641		DP8402A	Samsung	KS84C21 KS84C22	
DM87S421	ICT	CY7C9116 CY7C9117			Lansdale	ML54154 DM54154	(3514)		Motorola	ML863 ML963		DP8421	National	SN74ALS632B SN74ALS632	
DM87S475	Raytheon	27CX322 R29671S		DM9312	Signetics	54154		DN3836	National	MC963 9963			TI	DN84C21 DP84C22	
	TI	TMS27C292 HL7640		DM9318	TI	SN54154			National	DN6835 DN6835		DP8464	Hitachi	DP84C21 KS84C21	
	Lansdale	DM74S475		DM932	Lansdale	SL8230 DM54148		DN6835	Panasonic	DN6836 DN6836			Samsung	KS84C22 KS84C22	
DM878291	AMD	DM77S475 AM27S191 AM27S291			Motorola	ML932 MC932		DN6837	National	DN6836 DN6836			Dense-Pac	DPS88H08 XR8464	
		AM27S291A AM27S291SA		DM933	National	932 9932			Allegro Micro	UGN3119U DN6839	(3207)		Exar	MB88B464 MB88C78A	
	Cypress	CY7C291			Lansdale	ML933			National	DN6837			Fujitsu	MB88B464 MB88C78A	
	Fujitsu	MB7138		DM935	Motorola	MC933		DN6838	Panasonic	DN6837 DN6839			GoldStar	GM76C88L	
	Motorola	MCM76			Lansdale	ML385			Siemens	SAS261 TL172C			Harris	CDM6264	
	National	93Z511			Motorola	ML935			TI	TL172C			Hitachi	HM6264 HM6464	
	Raytheon	29683A				MC835			Allegro	UGN3130U DN6838	(3207)		Hyundai	MB6264 HY6264	
	TI	TBP38A166 TBP38S166		DM936	National	MC935 9135		DN6839	Micro	TL170			IDT	DPS9264	
	Waferscale	WS57C191 WS57C291B			Lansdale	ML836 ML936			Panasonic	UGN3119U DN6837	(3207)		Krueger	6264-100 6264-150	(3513)
DM8810	Lansdale	ML7426 μA75451	(3514)		Motorola	MC936 936			National	DN6839				6264-150 6264LP-100	(3513)
	National	DM7426		DM937	National	936 9936			Panasonic	DN6837 DN6839				6264LP-120 6264LP-150	(3513)
	Signetics	7426			Lansdale	ML387			Siemens	SAS261 TL172C				6264LP-150 (3513)	
	TI	SN7426	(Continued)			ML937	(Continued)		TI		(Continued)				(Continued)

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page		
National Semiconductor (Cont'd)				DS26LS31	Signetics	AM26LS31	(Cont'd)	DS55122	Lansdale	SL8T14		DS8T28	TI	SN751176B	(Cont'd)		
DP8464	MicroLinear	ML8464	(Cont'd)	DS26LS32	AMD	AM26LS31	(Cont'd)	DS55522	Motorola	SN55122	(3643)	DS8615	Motorola	MC12015	(3608)		
		AM99C88				AM26LS32				MC5522				SN75145			
		M5M5178				AM26LS32A				MC5523				SN75172			
	Mitsubishi	AM99C88	AT&T	Motorola	26LS32	National	LM5522	National	MC5524	National	MC5524	National	SN75173	SN75174	SN75175	SN75177B	
		MCM6064			41LF		MC5524		MC5524								
		MCM61164			AM26LS32		MC5528		MC5528								
	Motorola	MCM6164C	TI	National	DM26LS32	TI	LM5528	Exar	XR5534	Motorola	MC5528	Motorola	SP8793	MC12017	MC12071	SP8656	
		MCM6164C			AM26LS32A		MC5528		SP8658								
		MSM5164			AM26LS32AM		MC5528		SP8658								
	OKI	MSM5165	AMD	TI	AM26LS33	DS26LS33M	MC5534	Motorola	MC5534	National	MC5534	National	SP8658	SP8658	SP8658	SP8658	
		MSM5188			AM26LS33A		MC5534		SP8658								
		SRM2064			AM26LS33AM		MC5534		SP8658								
	S-MOS	SRM2264	AMD	TI	AM26S10	DS26S10	MC5534	Raytheon	RC5534	Harris	CD22221	(3643)	DS8640	Signetics	SP380	EDH8808	
		KM6264			MC26S10		SG55471		SP380								
		KM6264A			AM26S10		SNJ55471		SP380								
Samsung	LH5164	Motorola	TI	AM26S11	DS26S11	SNJ55471	TI	SNJ55471	TI	7524	National	TI	SN75182	SN75183	SN75183		
	LH5165			AM26S11		MC75107		SN75182									
	CKX5164P			MC3486		LM75107A		SN75183									
Sharp	CKX5864	TI	Motorola	MC3486	DS3486	75107	National	SN75107B	National	MC75108	National	TI	SN75183	SN75183	SN75183		
	CKX5865			SN75ALS195		MC75108		SN75183									
	CKX5865P			MC3487		MC75108		SN75183									
Sony	TC5563	Motorola	TI	MC3487	DS3487	MC75108	TI	LM75108A	National	75108	National	TI	SN75183	SN75183	SN75183		
	TC5565A			MC3487		MC75108		SN75183									
	TC5565A			SN75ALS194		MC75108		SN75183									
DP8480	UMC	UM6264A	(3682)	DS3611	Allegro	UDN3611	(3682)	DS75113	TI	SN75108B	(3682)	DS8884A	Dionics	DI2708	(3682)		
		V61C62				LM3611				SN75113				DM8885			
		V62C64				UDN3612				N8T13				DM8885			
	Vitellic	V63C64	National	Micro	DS3632	DS3612	SN75121	National	SN75121	National	SN75121	National	TI	SN75183	SN75183		
		VT20C99			LM3612		SN75121		SN75183								
		DP8480			UDN3612		SN75121		SN75183								
	VLSI Tech	DP8480	Allegro	Micro	UDN3612	DS3613	SN75121	National	SN75121	National	SN75121	National	TI	SN75183	SN75183		
		DP8481			LM3613		SN75121		SN75183								
		ADV476			LM3613		SN75121		SN75183								
	ATMEL	AT76C176	National	Micro	UDN3614	DS3614	SN75121	National	SN75121	National	SN75121	National	TI	SN75183	SN75183		
		AV3676			LM3614		SN75121		SN75183								
		BT476			N8T25		SN75121		SN75183								
	Avaseem	DAC0631	National	Signetics	UDN3614	DS3625	SN75121	National	SN75121	National	SN75121	National	TI	SN75183	SN75183		
		BT476			LM3614		SN75121		SN75183								
		DAC0631			N8T25		SN75121		SN75183								
Brooktree	DAC0631	National	Signetics	UDN3614	DS3625	SN75121	National	SN75121	National	SN75121	National	TI	SN75183	SN75183			
	BT476			LM3614		SN75121		SN75183									
	DAC0631			N8T25		SN75121		SN75183									
National	DAC0631	National	Signetics	UDN3614	DS3625	SN75121	National	SN75121	National	SN75121	National	TI	SN75183	SN75183			
	BT476			LM3614		SN75121		SN75183									
	DAC0631			N8T25		SN75121		SN75183									
DP85176	SGS-Thomson	IMSG176	(3643)	DS3632	Allegro	UDN3612	(3643)	DS75125	Motorola	MC75125	(3643)	DS8923A	MicroLinear	ML541	(3608)		
		MH0025				DS3612				SN75ALS125				ML541			
		ICL7667				LM3612				SN75ALS125				ML541			
	National	IXL7667	Motorola	TI	MC3450	DS3650	SN75ALS127	National	SN75ALS127	National	SN75ALS127	National	TI	SN75183	SN75183		
		IXLD1426			MC3450		SN75ALS127		SN75183								
		IXLD426			MC3450		SN75ALS127		SN75183								
	IXYS	IXLD4426	Motorola	TI	MC3450	DS3651	SN75ALS127	National	SN75ALS127	National	SN75ALS127	National	TI	SN75183	SN75183		
		IXLD4426			MC3450		SN75ALS127		SN75183								
		IXLD4426			MC3450		SN75ALS127		SN75183								
	Maxim	ICL7667	Motorola	TI	MC3450	DS3652	SN75ALS127	National	SN75ALS127	National	SN75ALS127	National	TI	SN75183	SN75183		
		ICL7667			MC3450		SN75ALS127		SN75183								
		ICL7667			MC3450		SN75ALS127		SN75183								
	Micrel	ICL7667	Motorola	TI	MC3450	DS3652	SN75ALS127	National	SN75ALS127	National	SN75ALS127	National	TI	SN75183	SN75183		
		ICL7667			MC3450		SN75ALS127		SN75183								
		ICL7667			MC3450		SN75ALS127		SN75183								
Motorola	MC33151	Motorola	TI	MC3452	DS3658	SN75ALS127	National	SN75ALS127	National	SN75ALS127	National	TI	SN75183	SN75183			
	MC34151			MC3452		SN75ALS127		SN75183									
	MC34151			MC3452		SN75ALS127		SN75183									
DS0025	National	MMH0026	(3643)	DS3653	Motorola	MC3432	(3643)	DS75150	TI	SN75150	(3643)	DS8923A	MicroLinear	ML541	(3608)		
		NH00026				MC3432				SN75150				ML541			
		SG1626				MC3432				SN75150				ML541			
	SiliconG	SG1626	Hitachi	TI	HA13007	DS3658	SN75150	National	SN75150	National	SN75150	National	TI	SN75183	SN75183		
		SG1626			HA13007		SN75150		SN75183								
		SG1626			HA13007		SN75150		SN75183								
	TeledyneS	SG1626	TI	TI	SN75437	DS3668	SN75437	National	SN75437	National	SN75437	National	TI	SN75183	SN75183		
		SG1626			SN75437		SN75437		SN75183								
		SG1626			SN75437		SN75437		SN75183								
	DS0056	National	TSC426	(3643)	DS3669	Harris	CA3252	(3643)	DS75207	TI	SN75207B	(3643)	DS8923A	MicroLinear	ML541	(3608)	
			TSC426				CA3252				SN75207B				ML541		
			TSC426				CA3252				SN75207B				ML541		
		Samsung	MMH0056	SGS-Thomson	TI	L9222	DS3680	SN75440	National	SN75440	National	SN75440	National	TI	SN75183	SN75183	
			KS5788			SN75440		SN75440		SN75183							
			KS5788			SN75440		SN75440		SN75183							
DS14C88		KS5788	Motorola	TI	SN75172	DS3695	SN75172	National	SN75172	National	SN75172	National	TI	SN75183	SN75183		
		KS5789A			SN75172		SN75172		SN75183								
		KS5789A			SN75172		SN75172		SN75183								
DS14C89		Samsung	SN75C189A	(3643)	DS3695	Motorola	SN75172	(3643)	DS75207	TI	SN75207B	(3643)	DS8923A	MicroLinear	ML541	(3608)	
			SN75C189A				SN75172				SN75207B				ML541		
			SN75C189A				SN75172				SN75207B				ML541		
		TI	XR1488	National	TI	SN75172	DS3695	SN75172	National	SN75172	National	SN75172	National	TI	SN75183	SN75183	
			MC1488			SN75172		SN75172		SN75183							
			MC1488			SN75172		SN75172		SN75183							
	Motorola	MC1488	National	TI	SN75172	DS3695	SN75172	National	SN75172	National	SN75172	National	TI	SN75183	SN75183		
		MC1488			SN75172		SN75172		SN75183								
		MC1488			SN75172		SN75172		SN75183								
	DS1488	National	MC1488	(3643)	DS3695	Motorola	SN75172	(3643)	DS75207	TI	SN75207B	(3643)	DS8923A	MicroLinear	ML541	(3608)	
			MC1488				SN75172				SN75207B				ML541		
			MC1488				SN75172				SN75207B				ML541		
		Samsung	MC1488	SGS-Thomson	TI	SN75172	DS3695	SN75172	National	SN75172	National	SN75172	National	TI	SN75183	SN75183	
			MC1488			SN75172		SN75172		SN75183							
			MC1488			SN75172		SN75172		SN75183							
DS1489		Signetics	MC1488	(3643)	DS3695	Motorola	SN75172	(3643)	DS75207	TI	SN75207B	(3643)	DS8923A	MicroLinear	ML541	(3608)	
			MC1488				SN75172				SN75207B				ML541		
			MC1488				SN75172				SN75207B				ML541		
		SiliconG	SG1488	TI	TI	SN75172	DS3695	SN75172	National	SN75172	National	SN75172	National	TI	SN75183	SN75183	
			SG1488			SN75172		SN75172		SN75183							
			SG1488			SN75172		SN75172		SN75183							
		DS1489A	Motorola	MC1489A	(3643)	DS3695	Motorola	SN75172	(3643)	DS75207	TI	SN75207B	(3643)	DS8923A	MicroLinear	ML541	(3608)
				MC1489A				SN75172				SN75207B				ML541	
				MC1489A				SN75172				SN75207B				ML541	
	National		MC1489A	SGS-Thomson	TI	SN75172	DS3695	SN75172	National	SN75172	National	SN75172	National	TI	SN75183	SN75183	
			MC1489A			SN75172		SN75172		SN75183							
			MC1489A			SN75172		SN75172		SN75183							
	DS1611		Signetics	MC1489A	(3643)	DS3695	Motorola	SN75172	(3643)	DS75207	TI	SN75207B	(3643)	DS8923A	MicroLinear	ML541	(3608)
				MC1489A				SN75172				SN75207B				ML541	
				MC1489A				SN75172				SN75207B				ML541	
SiliconG			SG1488	TI	TI	SN75172	DS3695	SN75172	National	SN75172	National	SN75172	National	TI	SN75183	SN75183	
			SG1488			SN75172		SN75172		SN75183							
			SG1488			SN75172		SN75172		SN75183							
DS26LS31			Motorola	MC1489A	(3643)	DS3695	Motorola	SN75172	(3643)	DS75207	TI	SN75207B	(3643)	DS8923A	MicroLinear	ML541	(3608)
				MC1489A				SN75172				SN75207B				ML541	
				MC1489A				SN75172				SN75207B				ML541	
		National	MC1489A	SGS-Thomson	TI	SN75172	DS3695	SN75172	National	SN75172	National	SN75172	National	TI	SN75183	SN75183	
			MC1489A			SN75172		SN75172		SN75183							
			MC1489A			SN75172		SN75172		SN75183							
		DS26LS31	Motorola	MC1489A	(3643)	DS3695	Motorola	SN75172	(3643)	DS75207	TI	SN75207B	(3643)	DS8923A	MicroLinear	ML541	(3608)
				MC1489A				SN75172				SN75207B				ML541	
				MC1489A				SN75172				SN75207B				ML541	
	National		MC1489A	SGS-Thomson	TI	SN75172	DS3695	SN75172	National	SN75172	National	SN75172	National	TI	SN75183	SN75183	
			MC1489A			SN75172		SN75172		SN75183							
			MC1489A			SN75172		SN75172		SN75183							
	DS26LS31		Motorola	MC1489A	(3643)	DS3695	Motorola	SN75172	(3643)	DS75207	TI	SN75207B	(3643)	DS8923A	MicroLinear	ML541	(3608)
				MC1489A				SN75172				SN75207B				ML541	
				MC1489A				SN75172				SN75207B				ML541	
National			MC1489A	SGS-Thomson	TI	SN75172	DS3695	SN75172	National	SN75172	National	SN75172	National	TI	SN75183	SN75183	
			MC1489A			SN75172		SN75172		SN75183							
			MC1489A			SN75172		SN75172		SN75183							
DS26LS31			Motorola	MC1489A	(3643)	DS3695	Motorola	SN75172	(3643)	DS75207	TI	SN75207B	(3643)	DS8923A	MicroLinear	ML541	(3608)
				MC1489A				SN75172				SN75207B				ML541	
				MC1489A				SN75172				SN75207B				ML541	
		National	MC1489A	SGS-Thomson	TI	SN											

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				F100422	NEC Signetics	μPB100422 100422A 100422B	(Cont'd)	F10160	Motorola Signetics	MC10160 10160	F1600	Cypress EDI IDT	CY7C187 ED18164 IDT7187		
F100165	Sharp Sony TI	LH5262 CXK5464AP TIBPAL20L8 TIBPAL20L8-20	(Cont'd)	F100422C	Vitesse Fujitsu Hitachi National	VS12G422E MBM100422A HM100422 DM100422		F10161	Motorola Signetics	MC10161 10161		LogicDev MiconTech Mosel Motorola	L7C187 MT5C6401 MS6287 MCM6287		
F100166	VLSI Tech AMD Cypress Gould AMI	VT64KS4 PAL20R8 PLDC20G10 PEEL20CG10	(3442)		NEC Signetics	NMC5295 μPB100422 100422A 100422B		F10162	Motorola Signetics	MC10162 10162		National NEC	F1602 μPD4361		
	ICT Lattice National Samsung Signetics	PEEL20CG10 GAL20V8A PAL20R8 CPL20R8-35 PLUS20R8		F100474	Vitesse Cypress Fujitsu Hitachi Motorola National NEC	VS12G422E CY100E474L MBM100474A HM100474 MCM100474 DM100474 μPB100474		F10164	Motorola Signetics TI	MC10164 10164 SN10164		Performance SGS-Thomson	P4C187 IMS1600		
	TI	100166 TIBPAL20R8 TIBPAL20R8-20			Saratoga Fujitsu NEC	SSM100474 MB100480 μPB100480		F10171	Motorola Signetics	MC10171 10171			IMS1601		
F100170	AMD Cypress Gould AMI	PAL20R6 PLDC20G10 PEEL20CG10	(3442)	F100480	Saratoga Fujitsu NEC	SSM100480 MBM100484 μPB100484A		F10172	Motorola Signetics	MC10172 10172		Toshiba	TC5561		
	ICT Lattice National Samsung	PEEL20CG10 GAL20V8A PAL20R6 CPL20R6 CPL20R6-35		F100484	Motorola Signetics	MC10100 10100		F10173	Motorola Signetics	MC10173 10173			TC5562		
	Signetics TI	100170 TIBPAL20R6 TIBPAL20R6-20		F10100	Motorola Signetics	MC10100 10100		F10174	Motorola Signetics	MC10174 10174		F1601	SGS-Thomson	MK41H87	
F100171	Signetics	100171		F10101	Motorola Signetics	MC10101 10101		F10175	Motorola Signetics	MC10175 10175		F1602	Cypress EDI IDT	CY7C187 ED18164 IDT7187	
F100175	Harris Signetics	CD22223 100175		F10102	Motorola Signetics	MC10102 10102		F10178	Motorola Motorola	MC10178 MC10179		LogicDev MiconTech Mosel Motorola	L7C187 MT5C6401 MS6287 MCM6287		
F100179	AMD Cypress Gould AMI	PAL20R4 PLDC20G10 PEEL20CG10	(3442)	F10103	Motorola Signetics	MC10103 10103		F10179	Motorola Signetics	MC10179 10179		National NEC	F1600 μPD4361		
	ICT Lattice TI	PEEL20CG10 GAL20V8A TIBPAL20R4 TIBPAL20R4-20		F10104	Motorola Signetics	MC10104 10104		F10180	Motorola Signetics	MC10180 10180		Performance SGS-Thomson	P4C187 IMS1600		
F100180	Cypress Harris Signetics	CY7C510 HMA510 100180		F10105	Motorola Signetics	MC10105 10105		F10210	Motorola Signetics	MC10210 10210			IMS1601		
	Waferscale	WS59510 WS59610	(3717)	F10106	Motorola Signetics	MC10106 10106		F10211	Motorola Signetics	MC10211 10211		Toshiba	TC5561		
F100181	AMD Cypress Dense-Pac EDI Hitachi IDT	AM99C6404 CY7C164 DPS8M464 ED18416 HN6288 IDT6198 IDT7188L		F10107	Motorola Signetics	MC10107 10107		F10216	Motorola Signetics	MC10216 10216		LogicDev Motorola National	MCM1423 F1621 F1621		
	Intel LogicDev	M51C98 L7C164 L7C166		F10109	Motorola Signetics	MC10109 10109		F10414	Motorola National	MCM10152 DM10414		S-MOS Vitellic	SRM2274 V61C62		
	MicronTech	MT5C6404		F10110	Motorola Signetics	MC10110 10110		F10415	Motorola National	MCM10146 DM10415		LogicDev Motorola National	L7C164 MCM1423 F1620		
	Motorola	MCM6289		F10111	Motorola Signetics	MC10111 10111		F10416	Motorola Signetics	MCM10149 10149		S-MOS Vitellic	SRM2274 V61C62		
	National	1621		F10114	Motorola Signetics	MC10114 10114		F10422	Fujitsu Hitachi	MBM10422A HM10422	F1622	Cypress IDT	CY7C166 IDT6198		
	S-MOS	SRM2274		F10115	Motorola Signetics	MC10115 10115			National NEC	DM10422 μPB10422		LogicDev	L7C165 L7C166		
	Toshiba	TC55417		F10116	Motorola National	MC10116 DM10116		F10470	Fujitsu Hitachi National	MBM10470A HM10470 DM10470		MicronTech Motorola National	MT5C6405 MCM6290 F100182		
	VLSI Tech	CT64KS4		F10117	Motorola Signetics	MC10117 10117			NEC	μPB10470		NEC	μPD4363		
F100182	Cypress IDT LogicDev	CY7C166 IDT6198 L7C165 L7C166		F10118	Motorola Signetics	MC10118 10118		F10474	Saratoga Cypress	SSM10470 CY10E47L		Performance	P4C198 P4C198A		
	MicronTech	MT5C6405		F10119	Motorola Signetics	MC10119 10119			Fujitsu Hitachi National	MBM10474A HM10474 DM10474		Saratoga	SSM7166 SSM7198		
	Motorola	MCM6290		F10121	Motorola Signetics	MC10121 10121		F10480	Hitachi National NEC	HM10474 DM10474 μPB10474A		Vitellic Lansdale Lansdale	V61C62 ML660 ML662		
	National	1621		F10123	Motorola Signetics	MC10123 10123			NEC	μPB10480		Lansdale	ML671		
	S-MOS	SRM2274		F10124	Motorola Signetics	MC10124 10124		F10484	Saratoga Fujitsu	SSM10474 MBM10484		Lansdale	ML677		
	Toshiba	TC55417		F10125	Motorola Signetics	MC10125 10125			NEC	μPB10484 μPB10484A		Lansdale	ML663		
	VLSI Tech	CT64KS4		F10130	Motorola Signetics	MC10130 10130				SSM10484		Lansdale	ML682		
	Cypress	CY7C166		F10132	Motorola Signetics	MC10132 10132				SSM10470		Lansdale	HL7602		
	IDT	IDT6198		F10133	Motorola Signetics	MC10133 10133				CY10E47L		Lansdale	ML685		
	LogicDev	L7C165		F10134	Motorola Signetics	MC10134 10134				MBM10474A		Lansdale	ML687		
		L7C166		F10135	Motorola Signetics	MC10135 10135				MBM10484		Lansdale	ML688		
	MicronTech	MT5C6405		F10136	Motorola Signetics	MC10136 10136				μPB10484		Lansdale	HL7602		
	Motorola	MCM6290		F10137	Motorola Signetics	MC10137 10137				μPB10484A		Lansdale	ML685		
	National	F1622		F10141	Motorola Signetics	MC10141 10141		F16K	Saratoga Krueger	SSM10484 4116-120 4116-150 4116-200	(3513) (3513) (3513)	AMD Intel Krueger	AM9114 2114A 2114-150 2114-200 2114-450	(3513) (3513) (3513)	
	NEC	μPD4363			Motorola Signetics	MC10132 10132			National	F4116			2114-200 2114-450	(3513)	
	Performance	P4C198		F10133	Motorola Signetics	MC10133 10133				MM5290		Mitsubishi	M5L2114		
		P4C198A		F10134	Motorola Signetics	MC10134 10134			OKI	MSM3716		Motorola National	M5L2114 NMC2114A		
	Saratoga	SSM7166		F10135	Motorola Signetics	MC10135 10135			Siemens	HYB4116		OKI	MSM2114		
		SSM7198		F10136	Motorola Signetics	MC10136 10136		F16L8B	AMD	PAL16L8B		Rockwell	R6514		
	Vitellic	V61C62		F10137	Motorola Signetics	MC10137 10137			Signetics	2690		Sharp	LH2114		
F100183	Cypress IDT LogicDev	CY7C161 IDT71981 L7C161		F10141	Motorola Signetics	MC10141 10141		F16P8B	National National TI	PAL16L8B PAL16L8B TIBPAL16P8		Toshiba UMC	TMM2114A UM6114		
	MicronTech	MT5C6406		F10145A	Motorola Signetics	MCM10145 MC10158				PAL16P8		Harris	HM6617		
	Performance	P4C1981		F10158	Motorola Signetics	MC10158 10158		F16RP4B F16RP6B F16RP8B	National National National	16RP4B 16RP6B 16RP8B		Krueger	2716-350 2716-450 2716T-350	(3513) (3513) (3513)	
	Saratoga	SSM7161		F10159	Motorola Signetics	MC10159 10159		F16R4B	AMD	PAL16R4B			2716T-450	(3513)	
	VLSI Tech	VT16H4			Motorola Signetics	MCM10144 MCM10145			National	PAL16R6B		F2716	National OKI	MM2716 MSM2716	
F100415	Fujitsu	MBM100415			Motorola Signetics	MC10158 10158		F16R6B	AMD	PAL16R6B			SGS-Thomson	M2716	
F100422	Fujitsu Hitachi National	MBM100422A HM100422 DM100422			Motorola Signetics	MC10159 10159		F16R8B	AMD	AMPAL16R8B PAL16R8B		F2732	Intel	M2732 2732	
		F100422C			Motorola Signetics	MC10159 10159			National	PAL16R8B				2732A	
		NMC5295			Signetics	10159									

* Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

ALI. SOURCE DIRECTORY

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALT SOURCE DIRECTORY

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
F4116	National	F16K	(Cont'd)	F4521	SGS-Thomson	HCC4045 HCF4045	(Cont'd)	F64K	Samsung	KM4164A KM4164B		GAL16V8-20QN	SGS-Thomson		
	OKI	MM5290			Signetics	HEF4521			Siemens	HYB4164		GAL16V8-20QB1			
	Siemens	HYB4116		F4522	Toshiba	TC4521B		F68B10	Motorola	MC688B10		GAL16V8-20QC1	SGS-Thomson		
	Signetics	2690			Motorola	MC14522B		F6800A	Motorola	MC6800		GAL16V8-25LN	SGS-Thomson		
F4164	IDT	DPS9264			National	CD4522			SGS-Thomson	EF6800		GAL16V8-25HB1			
	Intel	IDT7164L		F4526	Toshiba	CD4522B		F6802	Hitachi	HD6802		GAL16V8-25LV	SGS-Thomson		
	Krueger	M2164A			Motorola	MC14526			Motorola	MC6802		GAL16V8-25HC1			
		4164-120 (3513)			National	CD4526			SGS-Thomson	EF6802		GAL16V8-25QN	SGS-Thomson		
		4164-150 (3513)		F4527	Signetics	HEF4526		• F6810	Hitachi	HD6810		GAL16V8-25QB1			
		4164-200 (3513)			Toshiba	TC4526B			Motorola	MCM6810		GAL16V8-25QV	Lattice	GAL16V8-25QJ	
	National	F64K			Harris	CD4527B		F681488	National	NS32488		GAL16V8-25QC1	SGS-Thomson		
	OKI	NMC4164			Motorola	MC14527		• F6821	Hitachi	HD6821		GAL16V8-35QN			
	Panasonic	MSM3764			SGS-Thomson	CD4527			Motorola	MC6821		GAL16V8-35QB1	SGS-Thomson		
		MN4164				HCC4527			SGS-Thomson	EF6821		GAL16V8-35QV			
		MN4864			Signetics	HEF4527		• F6840	Hitachi	HD6840		GAL16V8-35QC1	SGS-Thomson		
	Samsung	KM4164A		F4528	Toshiba	TC4527B			Motorola	MC6840		GAL16V8A	Lattice	GAL16V8A	
		KM4164B			Motorola	MC14528			SGS-Thomson	EF6840		GAL18V10	National	LH0034	
	Siemens	HYB4164			National	CD4528		• F6845	Hitachi	HD6845		GAL16V8A-12LN	SGS-Thomson		
	TI	SM4164			SGS-Thomson	MM74C221			Motorola	M6845		GAL16V8A-12HB1			
F4510	Harris	CD4510B				HCC4098		• F6845	National	F6845A	(3689)	GAL16V8A-12LV	SGS-Thomson		
	Motorola	MC14510		F4531	Signetics	HCF4098		F6845A	UMC	UM6845	(3689)	GAL16V8A-12HC1			
	National	CD4510			Toshiba	TC4528B			Hitachi	HD6845		GAL16V8A-15LN	SGS-Thomson		
	SGS-Thomson	HCC4510			Motorola	MC14531			Motorola	MC6845		GAL16V8A-15HB1			
		HCF4510		F4532	Signetics	HEF4531		F68456	UMC	UM6845		GAL16V8A-15LV	SGS-Thomson		
	Signetics	HEF4510			SGS-Thomson	MCF40101		• F6846	National	NS32456		GAL16V8A-15HC1			
F4511	Toshiba	TC4510B				HEF4531		• F6850	Hitachi	HD6846		GAL20V8	Gould AMI	PEEL20CG10	(3442)
	Harris	CD4511B			Signetics	TC4531B			Hitachi	HD6350			Harris	CD54AC158	
	Motorola	MC14511			Harris	CD4532B			Hitachi	HD6850			ICT	PEEL20CG10	
	National	CD4511			Motorola	MC14532				MC6850			National	54AC158	
	NEC	μPD4511			SGS-Thomson	HCC4532			Motorola	KS5824			Samsung	CPL20V8	
		HCC4511				HCF4532		• F6852	SGS-Thomson	EF6850			SGS-Thomson	GAL20V8	
		HCF4511				HEF4532		• F6854		EF6854		GAL20V8-15LN	SGS-Thomson		
F4512	Toshiba	TC4511B			Signetics	HEF4532		F8804	Mitel	MT8804		GAL20V8-15HB1			
	Harris	CD4512B		F4539	Toshiba	TC4532B		F93419	Plessey	MV8804		GAL20V8-15LV	SGS-Thomson		
	Motorola	MC14512			Motorola	MC14539			Fujitsu	MBM93419		GAL20V8-20LN	SGS-Thomson		
	National	CD4512				MC14539B		F9401	National	93419		GAL20V8-20HB1			
	SGS-Thomson	HCC4512			Signetics	CD4543B		F9403	Motorola	MC8503		GAL20V8-20LV	SGS-Thomson		
		HCF4512			Harris	MC14543		GAL16V8	Signetics	9403		GAL20V8-20QB1			
F4514	Toshiba	TC4512B			Motorola	MC14543B			Signetics	PALCE16V8		GAL20V8-20QC1			
	Harris	CD4514B				MC14543			AMD	PAL16L8		GAL20V8-25LN	SGS-Thomson		
	Motorola	MC14514			National	CD4543				PALC16L8		GAL20V8-25HB1			
	National	CD4514			Signetics	HEF4543			Cypress	PAL16L8		GAL20V8-25QV	SGS-Thomson		
	SGS-Thomson	HCC4514			Toshiba	TC4543B			Harris	HPL16L8		GAL20V8-25QN			
		HCF4514			Motorola	MC14553				HPL16LC8		GAL20V8-20QB1			
	Signetics	HEF4514			Harris	TP4553			Intel	5C031		GAL20V8-20QC1			
F4515	Toshiba	TC4514B			Motorola	CD4555B			Lattice	5C032		GAL20V8-25LV	SGS-Thomson		
	Harris	CD4515B			SGS-Thomson	MC14555				GAL16V8A		GAL20V8-25HC1			
	Motorola	MC14515				HCC4555			National	GAL18V10		GAL20V8-25QN	SGS-Thomson		
	National	CD4515			Signetics	HCF4555				PAL16L8		GAL20V8-25QV			
	SGS-Thomson	HCC4515			Toshiba	HEF4555				16L8A		GAL20V8-25LN	SGS-Thomson		
		HCF4515			Harris	TC4555B				16P8A		GAL20V8-25HB1			
F4516	Signetics	HEF4515			Motorola	MC14556				16P8B		GAL20V8-25QC1			
	Toshiba	TC4515B			SGS-Thomson	HCC4556				CPL16L8		GAL20V8-25QB1			
	Harris	CD4516B				HCF4556				CPL16L8-25		GAL20V8-25QV	SGS-Thomson		
	Motorola	MC14516				HEF4556				CPL16L8-35		GAL20V8-25HC1			
	National	CD4516				TC4556B				CPL16V8		GAL20V8-35QN	SGS-Thomson		
	SGS-Thomson	HCC4516				MC14557				GAL16V8		GAL20V8-35QB1			
		HCF4516				HEF4557				PLHS16L8		GAL20V8-35QV	SGS-Thomson		
	Signetics	HEF4516				CD40182B				PLUS16L8		GAL20V8-35QC1			
F4518	Toshiba	TC4516B				MC14582				TIBPAL16H8		GAL20V8A	Lattice	GAL20V8A	
	Harris	CD4518B			Motorola	MM74C182				TIBPAL16L8		GAL20V8A-12LN	SGS-Thomson		
	Motorola	MC14518			SGS-Thomson	HCC40182				TIBPAL16L8-20		GAL20V8A-12HB1			
	National	CD4518				HCF40182						GAL20V8A-12LV	SGS-Thomson		
	SGS-Thomson	HCC4518				MC14583						GAL20V8A-12HC1			
		HCF4518				TC4583B						GAL20V8A-15LN	SGS-Thomson		
	Signetics	HEF4518				HEF4720						GAL20V8A-15LV	SGS-Thomson		
F4520	Toshiba	TC4518B			F4723	CD4723						GAL20V8A-15HC1			
	Harris	CD4520B			F4727	HEF4723						GAL20V8A-15HB1			
	Motorola	MC14520			Signetics	DPS9264						GAL20V8A-15LC1			
	National	CD4520			IDT	IDT7164L						GAL20V8A-15QB1			
	OKI	MSM4520			Intel	M2164A						GAL20V8A-15QC1			
	SGS-Thomson	HCC4520			Krueger	4164-120 (3513)						GAL20V8A-15HB1			
		HCF4520				4164-150 (3513)						GAL20V8A-15HC1			
		HEF4520				4164-200 (3513)						GAL20V8A-15QB1			
	Signetics	HEF4520				F4164						GAL20V8A-15QC1			
F4521	Toshiba	TC4520B				NMC4164						GAL20V8A-15HB1			
	Harris	CD4521B			OKI	MSM3764						GAL20V8A-15LC1			
	Motorola	MC14521			Panasonic	MN4164						GAL20V8A-15QB1			
						MN4864						GAL20V8A-15QC1			
												GAL20V8A-15HB1			

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				LH0032		(Cont'd)		LH4001		(Cont'd)		LM109	Motorola	LM109	
LF411	AD	OP15	(Cont'd)	Elantec		ELH0032		TeledyneS		TP1359	(3713)	LM11	National	LM109	
		OP43		Harris		EL2006		VTC		VA033		LM110	SiliconG	SG109	(3642)
	Burr-Brown	PM155		TeledyneS		HA2542		AD		AD506			LinearTech	LM11	
	LinearTech	OPA606		AD		TP0032				AD542			Motorola	LM11	
		LF155				ADLH0033				OP41			AD	AD381	
		LT1022		Burr-Brown		HOS100		National		OP43				AD544	
		LT1055		Elantec		OPA633				LH0022				OP15	
		LT1056				EHOS100				LM0052	(3245)		Burr-Brown	OPA606	
	National	OP15				ELH2004				PM741			LinearTech	LF155	
		LF155				ELH2005				RC741				LT1022	
		LM110				EL2001				SN74154				LT1055	
		LM210				EL2004				DG211				LT1056	
		LM310				EL2005				DG308A				OP15	
	SGS-Thomson	LF155				EL2031				DG211			National	LF155	
		LF353				EL2033				TSC4201				LF353	
		LF411				HA5033				XRL555				LF411	
		LF411C				LH0033				ICM7555M				LM210	
		OP14 (3245, 3248)				MAX460				HI7555				LM310	
		OP270				MAX460				ICM7555			SGS-Thomson	LF155	
		HA2102				MP0033				TLCS555				LF353	
		HA5102				MP0033C				LTC1052				LF411	
		MP0P14				MP2004				LTC7652				LM111	
		LM1458HC				LH4001				ICL7650				LM111	
		LM1458				LM6121				SI7135				LM111	
		PC251				LM6321				SI7652				LM111	
		RC4207				TP1359	(3713)			TSC7652				LM111	
		RC4227				VTC				LT7660				LM111	
		MC1458				Lattice				ICL7660				LM111	
		LM1458				GAL16V8A				MAX7660				LM111	
		MC1458				GAL18V10				SI7660				LM111	
		NE5512				GAL16V8A				AD506				LM111	
		SE5512				ELH0041				AD542				LM111	
		TA75458				AD0042				OP41				LM111	
		TA75558				AD503				OP43				LM111	
		LF4126				OP41				LH0022				LM111	
		OP22				AD0P07	(3243, 3245)			LH740A				LM111	
		OP43				AD201				GC810	(3430)			LM111	
		ICL7611				OP06				LM10				LM111	
		ICL8021				OP77				Gennum				LM111	
		LM4250				CA0201				LinearTech				LM111	
		LM4250				CA0301				LM10				LM111	
		MC1776				CA3193				MCE				LM111	
		MC3476				CA3493				AD				LM111	
		TA75458				HA5130				LM101				LM111	
		TA75558				HA5135				Motorola				LM111	
		LF4126				HA5177				LM101				LM111	
		OP22				AD207				LM101				LM111	
		OP43				OP77				LM101				LM111	
		ICL7611				AD547				LM101				LM111	
		ICL8021				OP41				LM101				LM111	
		LM4250				OP43				LM101				LM111	
		MC1776				OPA121				LM101				LM111	
		MC3476				CA3140				LM101				LM111	
		TA75458				CA3160				LM101				LM111	
		TA75558				MC34001				LM101				LM111	
		LF4126				MC34071				LM101				LM111	
		OP22				SP121				LM101				LM111	
		OP43				AD528				LM101				LM111	
		ICL7611				AD528				LM101				LM111	
		ICL8021				AD528				LM101				LM111	
		LM4250				AD528				LM101				LM111	
		MC1776				AD528				LM101				LM111	
		MC3476				AD528				LM101				LM111	
		TA75458				AD528				LM101				LM111	
		TA75558				AD528				LM101				LM111	
		LF4126				AD528				LM101				LM111	
		OP22				AD528				LM101				LM111	
		OP43				AD528				LM101				LM111	
		ICL7611				AD528				LM101				LM111	
		ICL8021				AD528				LM101				LM111	
		LM4250				AD528				LM101				LM111	
		MC1776				AD528				LM101				LM111	
		MC3476				AD528				LM101				LM111	
		TA75458				AD528				LM101				LM111	
		TA75558				AD528				LM101				LM111	
		LF4126				AD528				LM101				LM111	
		OP22				AD528				LM101				LM111	
		OP43				AD528				LM101				LM111	
		ICL7611				AD528				LM101				LM111	
		ICL8021				AD528				LM101				LM111	
		LM4250				AD528				LM101				LM111	
		MC1776				AD528				LM101				LM111	
		MC3476				AD528				LM101				LM111	
		TA75458				AD528				LM101				LM111	
		TA75558				AD528				LM101				LM111	
		LF4126				AD528				LM101				LM111	
		OP22				AD528				LM101				LM111	
		OP43				AD528				LM101				LM111	
		ICL7611				AD528				LM101				LM111	
		ICL8021				AD528				LM101				LM111	
		LM4250				AD528				LM101				LM111	
		MC1776				AD528				LM101				LM111	
		MC3476				AD528				LM101				LM111	
		TA75458				AD528				LM101				LM111	
		TA75558				AD528				LM101				LM111	
		LF4126				AD528				LM101				LM111	
		OP22				AD528				LM101				LM111	
		OP43				AD528				LM101				LM111	
		ICL7611				AD528				LM101				LM111	
		ICL8021				AD528				LM101				LM111	
		LM4250				AD528				LM101				LM111	
		MC1776				AD528				LM101				LM111	
		MC3476				AD528				LM101				LM111	
		TA75458				AD528				LM101				LM111	
		TA75558				AD528				LM101				LM111	
		LF4126				AD528				LM101				LM111	
		OP22				AD528				LM101				LM111	
		OP43				AD528				LM101				LM111	
		ICL7611				AD528				LM101				LM111	
		ICL8021				AD528				LM101				LM111	
		LM4250				AD528				LM101				LM111	
		MC1776				AD528				LM101				LM111	
		MC3476				AD528				LM101				LM111	
		TA75458				AD528				LM101				LM111	
		TA75558				AD528				LM101				LM111	
		LF4126				AD528				LM101				LM111	
		OP22				AD528				LM101				LM111	
		OP43				AD528				LM101				LM111	
		ICL7611				AD528				LM101				LM111	
		ICL8021				AD528				LM101				LM111	
		LM4250				AD528				LM101				LM111	
		MC1776				AD528				LM101				LM111	
		MC3476				AD528				LM101				LM111	
		TA75458				AD528				LM101				LM111	
		TA75558				AD528				LM101				LM111	
		LF4126				AD528				LM101				LM111	
		OP22				AD528				LM101				LM111	
		OP43				AD528				LM101				LM111	
		ICL7611				AD528				LM101				LM111	
		ICL8021				AD528				LM101				LM111	
		LM4250				AD528									

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ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
LM311	TI	LM311	(Cont'd)	LM324	Hitachi	HA17324	(Cont'd)	LM340-12	SGS-Thomson	μA7812	(Cont'd)	LM342-05	SGS-Thomson	L78M05	(Cont'd)
LM312	Toshiba	TA75393			Motorola	LM324				L7812		LM342-12	Motorola	L78M05CV	
	AD	OP12			National	LM224		LM340-15	Toshiba	TA78012			National	μA78M12	
		OP97			Raytheon	LM324			Motorola	LM340-15				LM341-12	
		PM1012			Samsung	LM324			SiliconG	SG340-15				LM78M12	
	LinearTech	LT1012			SGS-Thomson	LM324		LM340-18	TI	LM340-15			Samsung	MC78M12	
	MicroPwr	MPOP12		LM324A	TI	LM324			Unitrode	UC340-15			Sanyo	LM78M12	
	National	LM112			Samsung	LM324A		LM340-18	Samsung	KA340T18	(3642)		SGS-Thomson	L78M12	
		LM212			SGS-Thomson	LM324A			SiliconG	SG340-18	(3642)			L78M12CV	
	Raytheon	LT1012		LM3301	TI	LM324A		LM340-20	TI	LM340-18	(3642)			μA78M12	
	TI	LT1012			Hitachi	HA17301		LM340-24	SiliconG	SG340-20	(3642)	LM342-15	TI	TA78M12	
LM3126	Harris	CA3126			Motorola	MC3301			Motorola	LM340-24	(3642)		Motorola	MC78M15	
LM313	National	LM1829			National	LM2900		LM340-5	GoldStar	GL7805			National	LM341-15	
	AD	AD589		LM3302	TI	LM2900			Samsung	MC7805				LM78M15	
	Harris	ICL8069			AD	PM139			SGS-Thomson	μA7805			Samsung	MC78M15	
	Lin Int Sys	LS5010			IDT	IDT39C01				L7805			Sanyo	LM78M15	
	LinearTech	LT1004			Motorola	LM2901			Toshiba	TA78005			SGS-Thomson	L78M15	
	Maxim	ICL8069				MC3302		LM340LA-12	Motorola	TA79005				L78M15	
	MicroPwr	MP5010			National	μA2901			National	MC78L12				L78M15CV	
	National	LM113				μA3302				μA78L12			TI	μA78M15	
	Plessey	ZN404				LM2901				μA78L12A		LM343	Toshiba	TA78M15	
	TeledyneS	ZN423			Samsung	LM2901				LM78L12			Motorola	MC1436	
		TSC04			SGS-Thomson	LM3302			Samsung	MC78L12AC			National	LM1436	
		TSC05				LM2901		LM340LA-15	TI	μA78L12			SiliconG	SG1436	
		TSC069				MC3302			Toshiba	TA78L012		LM346	SGS-Thomson	SG343	
		TSC9491			Signetics	LM2901			Motorola	MC78L15				LM346	
	TI	LT1004				MC3302			National	μA78L15		LM348	AD	OP11	
LM317	Lambda	LM317				MC3302				μA78L15A				PM248	(3247)
	LinearTech	LM317		LM331	TI	LM3302				LM340T-15			Exar	XR4751	
	Motorola	LM317			Toshiba	TA75339			Samsung	LM78L15			GoldStar	GL348	
	National	μA317			National	LM231			TI	MC78L15AC			Harris	LM348	
	NEC	LM317				LM231A				μA78L15			Motorola	LM348	
	Samsung	LM317				LM331A				μA78L15A			National	μA348	
	SGS-Thomson	LM317L			Samsung	KA331		LM340LA-5	Toshiba	TA78L015			Samsung	LM348	
		LM317	(3642)	LM331A	TeledyneS	TP4781			Motorola	MC78L05			TI	LM348	
	SiliconG	SG317				TSC9401			National	μA78L05		LM350	LinearTech	LM350	
	TI	LM317			National	LM231				LM78L05				LT350	
	Unitrode	UC317				LM231A			Samsung	MC78L05AC			Motorola	LM350	
LM317M	Motorola	LM317M			Samsung	KA331		LM340T-15	TI	μA78L05			National	μA350	
	NEC	LM317M			TeledyneS	TP4781				μA78L05A			NEC	LM350	
	Samsung	LM317M		LM333	LinearTech	TSC9401			Toshiba	TA78L005			SiliconG	SG350	(3642)
LM318	AD	AD518			National	LT1033			Motorola	MC78L15		LM351	Unitrode	UC350	
	Elantec	EL2041			LinearTech	LM133			National	μA78L15			National	μA75453	
	LinearTech	LM318			AD	REF03	(3238)			μA78L15A				LM75453	
	National	LM118			LinearTech	LM336				LM340LA-15			LM351	75453	
	SGS-Thomson	LM318			Samsung	KA336			Samsung	MC78L15AC				SG75453A	
	Signetics	NE530			Motorola	LM385-2.5			TI	μA78L15				SG75453B	
		NE538			Plessey	LM385-2.5				μA78L15A			LM351	SN75453B	
		SE530			TeledyneS	REF25			Toshiba	TA78L015			TI	CS3524	
		SE531			TI	TSC05		LM3401	Harris	CA3401			Cherry Semi	XR3524	
	TI	LM318			TI	LM385-2.5			Motorola	MC3401			Harris	CA3524	
LM319	AD	PM219			Plessey	REF50			National	LM3900			SGS-Thomson	SG3524	
		PM319			LinearTech	LM337			Raytheon	LM3900				SG3524C	
	National	LM219				LT337			TI	LM3900			Signetics	SG3524C	
	Samsung	KA219			Motorola	LM337		LM341-12	Motorola	MC78M12			SiliconG	SG3524	(3642)
	SGS-Thomson	KA319			SGS-Thomson	LM337			National	μA78M12				SG3524B	(3642)
		LM219				LM337	(3642)			LM342-12			Unitrode	UC3524	
	Signetics	LM219			SiliconG	SG337	(3642)		Samsung	LM78M12		LM358	GoldStar	GL358	
LM320-05	SiliconG	SG320-05	(3642)		TI	SG337A	(3642)		Sanyo	L78M12			Harris	CA0358A	
	Unitrode	UC320-05		LM337HV	Unitrode	UC337	(3642)		SGS-Thomson	L78M12				LM358	
LM320-08	SiliconG	SG320-08	(3642)		SiliconG	SG337HV	(3642)			L78M12CV			Hitachi	HA17358	
LM320-12	SiliconG	SG320-12	(3642)	LM338	Lambda	LM338				μA78M12			Motorola	LM358	
	Unitrode	UC320-12			LinearTech	LM338			TI	TA78M12			National	LM358A	
LM320-15	National	LM320T15				LT338			Toshiba	MC78M15			Samsung	LM358	
	SiliconG	SG320-15	(3642)		National	μA338		LM341-15	Motorola	μA78M15				LM358A	
LM320-18	SiliconG	SG320-18	(3642)		SiliconG	SG338	(3642)		National	LM342-15				LA6358	
LM320-20	SiliconG	SG320-20		LM339	GoldStar	GL339				LM78M15			Sanyo	LM358	
LM320-5.2	SiliconG	SG320-5.2	(3642)		Harris	CA0339				MC78M15			SGS-Thomson	LM358	
LM320MP12	SiliconG	SG320P-12				CA0339A			Samsung	L78M15			Signetics	NE532	
LM320T15	National	LM320-15			Motorola	LM339			Sanyo	L78M15			TI	LM348	
	SiliconG	SG320-15	(3642)		National	μA339			SGS-Thomson	L78M15				LM358	
LM323	LinearTech	LM323			NEC	μPC137				L78M15CV				LM358	
		LT323				μPC177				μA78M15		LM358A	Toshiba	TA75358	
	Motorola	LM323			Raytheon	LM339			TI	TA78M15			GoldStar	GL358	
	National	μA323			Samsung	LM339		LM341-5	Toshiba	TA78M15			Harris	CA0358A	
	SGS-Thomson	LM323			SGS-Thomson	LM339A			National	LM342-05				LM358	
		SG323				LM339			Samsung	MC78M05			Hitachi	HA17358	
	SiliconG	SG323A			TI	LM339			Sanyo	L78M05			Motorola	LM358	
LM323A	SiliconG	SG323A			Toshiba	TA75339			SGS-Thomson	L78M05			National	LM358	
LM324	AMD	LM324				SG340-04				L78M05CV			Samsung	LM358A	
	Fujitsu	MB3614		LM340-05	SiliconG	SG340-08	(3642)			LM341-5				LA6358	
	Harris	CA0224			GoldStar	GL7812				MC78M05			Sanyo	LM358	
		CA0324		LM340-08	SiliconG	SG340-08	(3642)			L78M05			SGS-Thomson	LM358	
		LM324	(Continued)		Samsung	MC7812	(Continued)				(Continued)				(Continued)

* Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				LM5522	Motorola	MC5522		LM6121	AD	ADLH0033		LM710	Fujitsu	MB4001	
						MC5523				HOS100			Motorola	MC710C	
				LM5524	Motorola	MC5524			Burr-Brown	OP4633			National	μA710	
					National	MC5524			Elantec	EHOS100			Samsung	KA710C	
LM358A	Signetics	LM358	(Cont'd)	LM5525	Motorola	MC5525				ELH0033		LM711	National	μA711	
		NE532			National	MC5525				ELH2004			Samsung	KA711C	
	TI	LM348		LM5528	Motorola	MC5528				ELH2005		LM723	Harris	CA0723	
		LM358			National	MC5528				EL2001			Motorola	MC1723	
	Toshiba	TA75358		LM5529	Motorola	MC5529				EL2004			National	μA723	
LM361	Signetics	NE529			National	MC5529				EL2005			NEC	μA723M	
LM3611	Allegro	UDN3611		LM5534	Exar	XR5534				EL2031			Samsung	LM723	
	Micro	DS3611			Motorola	MC5534				EL2033			SGS-Thomson	LM723	
	National				National	MC5534			Harris	HA5033					
LM3612	Allegro	UDN3612		LM5535	Raytheon	RC5534			Maxim	LH0033				μA723	
	Micro	DS3612			Motorola	MC5535				MAX460				LM723	
	National	DS3632		LM5539	AD	AD5539	(3240)			MP0033			Signetics	μA723	
						AD839				MP0033C			SiliconG	SG723	(3642)
						AD849	(3240)			MP2004			TI	μA723	
LM3613	Allegro	UDN3613			Elantec	EL2038				MP2004				μA723M	
	Micro	DS3613				EL2039				LH0033		LM725	AD	OP06	
	National				Motorola	MC5539				LH4001				OP77	
LM3614	Allegro	UDN3614			National	LM6365				LM6321			National	μA725	
	Micro	DS3614			Signetics	NE5539				TP1359		LM733	Adv Analog	A733	
	National	μA376				SE5539				VA033	(3713)		Motorola	MC1733	
LM376	TI	SN76177		• LM55450	National	μA55450		LM6161	AD	AD844	(3240)			NE592	
• LM377	Signetics	NE542			SiliconG	SG55450				AD846	(3243)			μA733	
LM381	Signetics	NE542				SG55450B	(3643)				(3240)		National	μA733	
LM382	Signetics	LM2002		• LM55451	National	DS55451					(3243)		Signetics	NE592	
LM383	National	LM2002A		• LM55452	National	μA55452			Burr-Brown	OP160			SiliconG	SG1401	(3643)
		LM383A			SiliconG	SG55452				HFA0005			TI	μA733	
LM383A	National	LM2002			TI	SNJ55452				OPA620	(3332)			μA733M	
		LM2002A				SN55452				3554AM	(3332)			NE592	
		LM383		LM55453	National	55453				3554BM	(3332)			NE592-8	
LM385	LinearTech	LM385			SiliconG	SG55453				3554SM	(3332)			SE592	
	Maxim	ICL8069			TI	SNJ55453			Comlinear	CLC400					
	MicroPwr	MP5010				SN55453				CLC400AID		LM741	AD	AD741	(3245)
	Motorola	LM385		• LM55454	SiliconG	SG55454				CLC401				OP02	
	TeledyneS	TSC04				SG55454B	(3643)		Elantec	EH45195			MicroPwr	OP77	
		TSC05		• LM55454	TI	SNJ55454				ELA5195				MPOPO2	
LM385-1.2	National	54AC00				SN55454				EL2020			Motorola	MC1741	
	Plessey	REF12		LM555	Exar	XR555				EL2030			National	μA741M	
	TeledyneS	TSC04				XR555M				EL2195			Raytheon	RM741	
LM385-2.5	Motorola	LM385-2.5			GoldStar	GLC555			Harris	HA5004			Samsung	LM741	
	National	LM336-2.5			Harris	CA0555				HA5195			SGS-Thomson	μA741	
	Plessey	REF25				NE555			Maxim	HFA0001				μA741	
	TeledyneS	TSC05			Mitsubishi	M5E555			Sipex-HSD	MAX452			Signetics	μA741	
	TI	LM385-2.5				M51841			TeledyneS	SP2542		LM747	AD	SG741	
LM386	MCE	MCE386				M51848				TP1321			TI	μA741	
LM387	Signetics	NE542			Motorola	MC1455				VA707				μA741M	
LM3900	Harris	CA3401			National	μA555		LM6218	Harris	HA5222			AD	OP04	
	Motorola	MC3401			Samsung	NE555		LM6321	AD	ADLH0033			Harris	CA0747	
	National	LM3401			SGS-Thomson	NE555				HOS100			Hitachi	HA17747	
	Raytheon	LM3900				NE555			Burr-Brown	OP4633			MicroPwr	MPOPO4	
	TI	LM3900			Signetics	SE555			Elantec	EHOS100			Motorola	MC1747	
LM393	Fujitsu	MB47393				SE555				ELH0033			National	μA747	
	NEC	μPC277			TI	SE555M				ELH2004				μPC1418	
	Toshiba	TA75393				TA75555				ELH2005			Raytheon	RC747	
LM394	AD	MAT02				TA7555				EL2001				RM747	
		SSM2210	(3239)	LM556	Toshiba	TA7555				EL2004			Signetics	μA747	
	National	LM194			Mitsubishi	M5E556				EL2005			TI	μA747	
		LM394B			Samsung	NE556				EL2031				μA747M	
		LM394C			SGS-Thomson	NE556				EL2033		LM748	AD	OP06	
LM394B	AD	MAT02				NE556				HA5033				OP77	
		SSM2210	(3239)		Signetics	NE556			Harris	LH0033				PM1008	
	National	LM194			TI	NE556			Maxim	MAX460			Harris	CA0748	
		LM394		LM5565	AD	AD565A				MAX460			Motorola	MC1748	
		LM394C				AD565J	(3219)			MP0033			SGS-Thomson	LM748	
LM394C	AD	MAT02			Harris	H1565A				MP0033C				LS148	
		SSM2210	(3239)		Maxim	AD565A				MP2004				μA748	
	National	LM194			MCE	MCE565				LH0033			TI	LM748	
		LM394			MicroNet	MN565A				LH4001				SN72748P	
		LM394B			National	μA565				LM6121				MC75107	
LM396	Micropac	MLM396			Signetics	NE565				TP1359		LM75107A	Motorola	DS75107	
LM399	LinearTech	LM399				SE565				VA033	(3713)		National	75107	
LM399A	LinearTech	LM399A		LM566	Signetics	NE566		LM6361	AD	AD847	(3241)			SN75107B	
LM4250	Cherry Semi	CS101A				SE566			Harris	HA2544			TI	MC75108	
	Harris	CD4066B		LM567	Exar	XR1567		LM6365	AD	AD5539	(3240)		LM75108A	Motorola	DS75108
	SiliconSys	SSI32H101A	(3646)			XR2567				AD839	(3240)			75108	
						XR567				AD849	(3240)			SN75108B	
	Solitron	UC4250			MCE	MCE567			Elantec	EL2038			TI	MC75110	
	VTC	VM101				LM567				EL2039				75110	
LM4500	Motorola	TCA4500			Samsung	LM567C				MC5539			Motorola	SN75110A	
	Siemens	TCA4500				LM567L				LM5539			TI	AD7520	
	TI	TMS4500A				IR3N05				NE5539		• LM7520	Harris	MX7520	
	VLSI Tech	VL4500A			Sharp	NE567				SE5539			Maxim	MP7520	
LM55107A	National	DS55107			Signetics	SE567				OP06			MicroPwr	MC7520	
	TI	SN55107A		LM607	AMD	AM6070		LM709	AD	MC1709				AD7520	
		SN55107B			AD	AD707	(3245)			μA709			Motorola	DAC1020	
LM55108A	National	DS55108				DAC86				LM1709				DAC1021	
		55108				OP177				μPC55				DAC1022	
		SN55108A				MAX400			NEC	μA709				7520	
	TI	SN55108B			Maxim	RC4077			TI	μ709					
			(Continued)		Raytheon		(Continued)				(Continued)				(Continued)

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				LM78L12	National	(Cont'd)		LM78M20	TI	µA78M20	(Cont'd)	LM7906	TI	µA7906	(Cont'd)
LM7520	Samsung	KA2919				µA78L12A			Toshiba	TA78M20		LM7908	Toshiba	TA78006	
	Sanyo	LA7520N			Samsung	MC78L12AC		LM78M24	Motorola	MC78M24			Motorola	MC7908	
LM7523	Unitrode	PIC7520		LM78L15	TI	µA78L12			National	µA78M24			National	µA7908	
	AD	AD7523			Toshiba	TA78L012			Samsung	MC78M24				µA7908	
	Datel	DA7523			Motorola	MC78L15		LM78M24	Sanyo	MC78M24C			SiliconG	SG7908	(3642)
	Harris	AD7523			National	µA78L15			SGS-Thomson	L78M24			TI	SG7908A	(3642)
	Maxim	MX7523				µA78L15A				L78M24		LM7909	GoldStar	µA79M08	
	MicroPwr	MP7523				LM340LA-15				L78M24CV			National	GL7909	
	Motorola	MC7523			Samsung	LM340T-15		LM78M24	TI	µA78M24			NEC	µPC7909	
	Unitrode	PIC7523			TI	MC78L15AC			Toshiba	TA78M24			SGS-Thomson	L7909	
LM7524	National	DS75S24				µA78L15A		LM7805	Motorola	MC7805				µA7909	
	Signetics	7524		LM78L18	Toshiba	TA78L015			National	µA7805			TI	TA79009	
LM7525	Motorola	MC7525			Motorola	MC78L18			SiliconG	SG7805	(3642)	LM7910	Toshiba	TA79009	
	National	7525			National	µA78L18			TI	µA7805			National	µA7910	
	Unitrode	PIC7524			Samsung	MC78L18AC			Unitrode	UC7805			TI	µA7910	
LM7528	AD	AD7528			TI	µA78L18		LM7806	Motorola	MC7806		LM7912	Toshiba	TA78020	
		PM7528			Toshiba	TA78L018			National	µA7806			Motorola	MC7912	
LM7528	Maxim	AD7528		LM78L20	National	µA78L20			SiliconG	SG7806	(3642)			MC7912C	
	MicroPwr	MP7528			TI	µA78L20				SG7806A	(3642)		SiliconG	SG7912	(3642)
	Motorola	MC7528			Toshiba	TA78L024			TI	µA7806				SG7912A	(3642)
LM7529	TI	TLC7528		LM78M05	Motorola	MC78M05		LM7808	Motorola	MC7808		LM7915	TI	µA7912	
	Motorola	MC7529			National	µA78M05			National	MC7808			Motorola	MC7915	
	National	7529			SiliconG	SG14005			SiliconG	SG340-8			National	µA7915	
	Unitrode	PIC7529				SG14012				SG7808	(3642)		SiliconG	SG7915	(3642)
LM7535	Motorola	MC7535			TI	µA78M05			TI	SG7808A	(3642)		TI	SG7915A	(3642)
	Unitrode	PIC7535		LM78M06	Motorola	MC78M06		LM7809	GoldStar	GL7809		LM7918	Unitrode	UC7915	
LM7538	Motorola	MC7538			National	µA78M06			Hitachi	HA17809			Motorola	MC7918	
	National	7538			Samsung	MC78M06			Motorola	MC7809			National	µA7918	
LM7539	Motorola	MC7539			Sanyo	L78M06			National	µA7809			SiliconG	SG7918	(3642)
	National	7539			SGS-Thomson				TI	µA7809				SG7918A	(3642)
LM75450	National	µA75450				L78M06		LM7810	Toshiba	TA78009		LM7920	TI	µA7918	
		75450				L78M06CV			National	µA7810			National	µA7920	
LM75450	SiliconG	SG75450			TI	µA78M06			SGS-Thomson	L7810			SiliconG	SG7920	(3642)
		SG75450B		LM78M08	Toshiba	TA78M06				µA7810		LM7924	SiliconSys	SS175957	(3647)
LM75450	TI	SN75450			Motorola	MC78M08		LM7812	TI	µA7810				GL7924	
LM75451	National	75451			National	µA78M08			Toshiba	TA78010			GoldStar	HD74LS195A	
	SiliconG	SG75451			Samsung	MC78M08			Motorola	MC7812			Hitachi	MC719924	
		SG75451A			Sanyo	L78M08			National	µA7812			Motorola	MC7924	
		SG75451B			SGS-Thomson				SiliconG	SG7812	(3642)			SN74LS195A	
LM75451	TI	SN75451				L78M08				SG7812A	(3642)		National	µA7924	
		SN75451B				L78M08CV				SG7812AT	(3642)			DM74LS195	
LM75452	National	µA75452			TI	µA78M08		LM7815	TI	µA7812				74LS195A	
		75452		LM78M09	Toshiba	TA78M08			Motorola	MC7815			Panasonic	DN74LS195A	
LM75452	SiliconG	SG75452			National	µA78M09			National	µA7815			Samsung	MC7924C	
		SG75452A			SGS-Thomson				SiliconG	SG7815	(3642)		SGS-Thomson		
		SG75452B				L78M09				SG7815A	(3642)			L7924	
LM75452	TI	SN75452			TI	µA78M09		LM7818	TI	µA7815		LM833	Toshiba	T74LS195A	
		SN75452B		LM78M10	Toshiba	TA78M09			Unitrode	UC7815			Fujitsu	MB47833	
LM75453	National	µA75453			National	µA78M10			Motorola	MC7818			Lin Int Sys	LN194	
		75453			SGS-Thomson				National	µA7818			TI	LP111	
	SiliconG	SG75453				L78M10			SiliconG	SG7818	(3642)			LP211	
		SG75453A			TI	µA78M10				SG7818A	(3642)			LP2950	
		SG75453B		LM78M12	Toshiba	TA78M10			TI	µA7818				LP2951	
		SN75453B			Motorola	MC78M12		LM7824	SiliconG	SG7820	(3642)			LP311	
LM75454	TI	SG75454			National	µA78M12				SG7820A	(3642)			LP339	
	SiliconG	SG75454B				LM341-12			Motorola	MC7824				TI	
		SN75454B				LM342-12			National	µA7824				LP365	
LM78L05	Motorola	MC78L05				MC78M12			SiliconG	SG7824A	(3642)		MA0802M	AD	
	National	µA78L05			Samsung	L78M12				µA7824				AD1408	
		µA78L05A			Sanyo	L78M12		LM79M05	TI	µA79M05				DAC1408	
		LM340LA-5			SGS-Thomson				National	LM120				HA17008	
	Samsung	MC78L05AC				L78M12				SG120-5				HA17408	
	TI	µA78L05				L78M12CV		LM79M12	SiliconG	GL7912				MC1408	
		µA78L05A			TI	µA78M12			GoldStar	MC79M12				µA0801	
LM78L06	National	TA78L005			Toshiba	TA78M15			Motorola	µA79M12				µA0802	
		µA78L06		LM78M15	National	µA78M15			National	µA79M12M				DAC0806	
		µA78L06A				LM341-15				µA7912				DAC0807	
		µA78L06				LM342-15				MC79M12C				DAC0808	
		µA87L06			Samsung	MC78M15			Samsung	MC7912			Samsung	KDA0806	
LM78L08	Toshiba	TA78L012			Sanyo	L78M15			SGS-Thomson					KDA0807	
	Motorola	MC78L08			SGS-Thomson					µA7912				KDA0808	
	National	µA78L08				L78M15				L7912				MC1408	
		µA78L08A				L78M15CV				µA79M12M				MCA500	
	Samsung	MC78L08AC			TI	µA78M15			TI	TA78024		MCA500	Signetics	MCA500	
	TI	µA78L08		LM78M18	Toshiba	TA78M15			Toshiba	TA79012		MC1412	Motorola	M54525	
		µA78L08A			Motorola	µA78M18				MC7905				MC1412	
		TA78L008			National	µA78M18			Motorola	µA7905			National	µA9666	
LM78L09	National	µA78L09			Samsung	MC78M18		LM7905	National	MC7905				µPA2002	
		µA78L09A			Sanyo	L78M18				MC7905				KA2656	
	Samsung	MC78L09AC			SGS-Thomson				SiliconG	SG7905	(3642)			LB1232	
	TI	µA78L09				L78M18				SG7905A	(3642)			SGS-Thomson	
		µA78L09A				µA78M18			TI	µA7905				L202	
LM78L10	National	µA78L10			TI	µA78M18			Unitrode	UC7905				SN75477	
		µA78L10A		LM78M20	Toshiba	TA78M18			Motorola	MC7906		MC1413	Toshiba	TD62002	
	TI	µA78L10A			National	µA78M20				µA7906			Mitsubishi	M52523	
		TA78L010			NEC	MC78M20C			National	MC7906				M54523	
LM78L12	Toshiba	TA78L012			Samsung	MC78M20C			Samsung	MC7906				MC1413	
	Motorola	MC78L12			SGS-Thomson	L78M20			SGS-Thomson	L7906				µA9667	
	National	µA78L12													

• Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				MMC2116 (Cont'd)				MM5290 (Cont'd)				MM54HCT190			
MC1413	Samsung	KA2657	(Cont'd)		Signetics	NE5517			National	F16K			Harris	CD54HCT190	
	Sanyo	LB1233			Sony	CKX5816				F4116					
	SGS-Thomson				UMC	UM6116			OKI	MSM3716			Harris	CD54HCT191	
					Vitellic	V61C16			Siemens	HYB4116					
	TI	ULN2003		MM1101	Intel	1101			Signetics	2690			Harris	CD54HCT193	
		SN75478			NCM	NCM1101Z			NCM	NCM4322Z					
		ULN2003			SGS-Thomson				Harris	CD4069UB			Harris	CD54HCT240	
	Toshiba	TD62003		MM2102A	National	2102H			Motorola	MC14069			Marconi	54HCT240	
		TD62103			Panasonic	MN2102			National	CD4069			Micrel	MC54HCT240	
MC1488	Exar	XR1488		MM2114	AMD	AM9114				F4069					
	Motorola	MC1488			Intel	2114A			OKI	MM74C04			Motorola	MC54HCT240	
	National	μA1488			Krueger	2114-150	(3513)		SGS-Thomson	MSM4069			TI	SN54HCT240	
		μA212A				2114-200	(3513)			HCC4069			Harris	CD54HCT241	
		μA750				2114-450	(3513)			HCF4069			Marconi	54HCT241	
	Samsung	MC1488		MM2114	Mitsubishi	M5L2114			Signetics	HEF4069			Micrel	MC54HCT241	
	SGS-Thomson	MC1488			Motorola	M5L2114			Toshiba	TC4069UB			Motorola	MC54HCT241	
		MC1488	(3643)		National	F2114			Harris	CD40106B			TI	SN54HCT241	
		MC1488				NMC2114A			Micrel	MC54C14					
	Signetics	MC1488		MM2114	OKI	MSM2114			Motorola	MC14106			MM54HCT244		
	SiliconG	SG1488			Rockwell	R6514				MC14584			Harris	CD54HCT244	
	TI	MC1488			Sharp	LH2114			National	MC14584B			Marconi	54HCT244	
		SN75188			Toshiba	TMM2114A				CD40106			Micrel	MC54HCT244	
MC1489	SGS-Thomson	MC1489		MM2147	UMC	UM6114				CD4584			Motorola	MC54HCT244	
		SG1489	(3643)		AMD	AM2147				CD4584B			TI	SN54HCT244	
	SiliconG	MC1489			Cypress	CY2147				F400014					
	TI	AD1508				CY7C147			SGS-Thomson	F40014			Harris	CD54HCT245	
	AD	DAC1508			Fujitsu	MBM2147				MM74C14			Marconi	54HCT245	
		DAC188B			Intel	M2147H				HCC40106			Motorola	MC54HCT245	
	Datel	MC1508				2147			Signetics	HCF40106			TI	SN54HCT245	
	Motorola	MC1508				2147H			Toshiba	HEF40106					
	Signetics	MC1508			Krueger	2147-35	(3513)			TC4584B			Harris	CD54HCT251	
	Motorola	MC5524				2147-45	(3513)		MM54C157	MIC54C157					
	National	LM5524				2147-55	(3513)		MM54C173	CD4076B			Harris	CD54HCT253	
	Motorola	MC5525				2147-70	(3513)			MC14076					
	National	LM5525			National	NMC2141				CD4076			Harris	CD54HCT257	
	Motorola	MC5528				NMC2147H				F4076					
	National	LM5528			SGS-Thomson	NM2147			SGS-Thomson	MM74C173			Harris	CD54HCT273	
	Motorola	MC5529				ET2147				HCC4076					
	National	LM5529			MM2532	2532-350	(3513)			HCF4076			Harris	CD54HCT299	
	Exar	XR5534				2532-450	(3513)		Signetics	HEF4076			Harris	CD54HCT32	
	Motorola	MC5534			National	NMC2532				HEF4076			Marconi	54HCT32	
	National	LM5534				TDA2530			MM54C175	TC4076B			Motorola	MC54HCT373	
	Raytheon	RC5534				TDA2532				MC14175			TI	SN54HCT373	
	Motorola	MC7905			Plessey	TDA2530			National	CD40175					
	National	μA7905			Harris	HM6617				F40175			MM54HCT374		
		LM7905			Krueger	2716-350	(3513)		Signetics	MM74C175			Harris	CD54HCT374	
	SiliconG	SG7905	(3642)			2716-450	(3513)		Toshiba	HEF40175			Marconi	54HCT374	
		SG7905A	(3642)			2716T-350	(3513)			TC40175B			Micrel	MIC54HCT374	
	TI	μA7905				2716T-450	(3513)		MM54C192	MM74C192			Motorola	MC54HCT374	
	Unitrode	UC7905			OKI	MSM2716			MM54C193	CD40193B			TI	SN54HCT374	
	Motorola	MC7908			SGS-Thomson					CD40193					
	National	μA7908				M2716				F40193			Harris	CD54HCT533	
		LM7908			MM2732	M2732			SGS-Thomson	MM74C193			Marconi	54HCT533	
	SiliconG	SG7908	(3642)			2732				HCC40193			Motorola	MC54HCT533	
		SG7908A	(3642)			2732A			Signetics	HCF40193					
	TI	μA79M08			Krueger	2732-250	(3513)			HEF40193			Harris	CD54HCT534	
		μA7908				2732-300	(3513)		MM54C244	TC40193B			Marconi	54HCT534	
	Exar	XR1010				2732-350	(3513)		MM54C905	MIC54C244			Motorola	MC54HCT534	
	LinearTech	LT1060				2732-450	(3513)			MIC54C905					
	Maxim	MF10				2732A-250	(3513)		MM54C906	KA2283			Harris	CD54HCT540	
	MicroLinear	ML2110				2732A-300	(3513)		MM54C922	MIC54C906			Marconi	54HCT540	
	Sierra	SC11122				2732A-350	(3513)		MM54HCT00	MIC54C922			Motorola	MC54HCT540	
	Exar	XR1001				2732A-450	(3513)		MM54HCT04	CD54HCT00			TI	SN54HCT540	
	National	MF4			National	NMC2732				CD54HCT04					
	Exar	XR1002			OKI	MSM2732			MM54HCT08	SN54HCT04			MM54HCT541		
	Exar	XR1001			SGS-Thomson				Harris	CD54HCT08			Harris	CD54HCT541	
	National	MF10-100				M2732A							Marconi	54HCT541	
		DS0025			TI	TMS2732A			MM54HCT112				Motorola	MC54HCT541	
	National	DS0056			National	SM10248				CD54HCT112			TI	SN54HCT541	
	EDI	EDH8808			NCM	NCM4230Z			MM54HCT138				Harris	CD54HCT563	
	Harris	HM8808				RO9464				CD54HCT138			Marconi	54HCT563	
		HM8808A			Microchip	26S64			Harris	54HCT138					
	National	DS8808			Signetics	2664			Marconi	MC54HCT138			Harris	CD54HCT564	
						RO9365			Motorola	SN54HCT138			Marconi	54HCT564	
	Allegro	UDN6116				RO9864			TI						
	Micro	HM6116				M5M23C64			MM54HCT139				Harris	CD54HCT573	
	Hitachi	MSM5517			Mitsubishi	F3569				CD54HCT139			Marconi	54HCT573	
	Mitsubishi	MSM2128			National	F3570			MM54HCT151						
	OKI	MSM5126				NM52264				CD54HCT151			Harris	CD54HCT574	
		MSM5128			OKI	MSM3864			MM54HCT153				Marconi	54HCT574	
		MSM5129			Panasonic	MN2364				CD54HCT153					
	S-MOS	SMC6116			SGS-Thomson				MM54HCT157				Harris	CD54HCT640	
		SRM2016C				MK37000				CD54HCT157			Motorola	MC54HCT640	
	SGS-Thomson	ET2128				TMS2364			MM54HCT158						
		MK2817			TI	MN1001				CD54HCT158			Harris	CD54HCT643	
		MK6116			Panasonic				MM54HCT164				Motorola	MC54HCT643	
		LH5115			Krueger	4116-120	(3513)			CD54HCT164					
	Sharp	LH5116				4116-150	(3513)						Harris	CD54HCT688	
						4116-200	(3513)								
			(Continued)				(Continued)								(Continued)

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				MM54HC163	Harris Motorola	CD54HC163 MC54HC163 SH54HC163		MM54HC294	Harris Signetics	CD74HC4059 74HC4059		MM54HC42	Harris Motorola	CD54HC42 MC54HC42	
MM54HC004	Harris Motorola TI	CD54HC004 MC54HC004 SN54HC004		MM54HC164	Harris Motorola TI	CD54HC164 MC54HC164 SN54HC164		MM54HC298	Harris Signetics	CD74HC4510 74HC4510		MM54HC423A	Harris	CD54HC423 CD74HC4516	
MM54HC00	Harris Motorola TI	CD54HC00 MC54HC00 SN54HC00		MM54HC165	Harris Motorola TI	CD54HC165 MC54HC165 SN54HC165		MM54HC299	Harris Motorola	CD54HC299 MC54HC299		MM54HC42316	Motorola Signetics	MC54HC423 74HC4516	
MM54HC02	Harris Motorola TI	CD54HC02 MC54HC02 SN54HC02		MM54HC166	Harris Motorola TI	CD54HC166 MC54HC166 SN54HC166		MM54HC30	Harris Motorola TI	CD54HC30 MC54HC30 SN54HC30		MM54HC4316	Harris Motorola Signetics	CD54HC4316 MC54HC4316 74HC93	
MM54HC03	Harris Motorola Signetics TI	CD54HC03 MC54HC03 74HC03 SN54HC03		MM54HC173	Harris Motorola TI	CD54HC173 MC54HC173 SN54HC173		MM54HC32	Harris Motorola TI	CD54HC32 MC54HC32 SN54HC32		MM54HC4351	Harris Motorola	CD54HC4351 MC54HC4351	
MM54HC04	Harris Motorola Signetics TI	CD54HC04 MC54HC04 74HC04 SN54HC04		MM54HC174	Harris Motorola TI	CD54HC174 MC54HC174 SN54HC174		MM54HC354	Harris Motorola	CD54HC354 MC54HC354		MM54HC4352	Harris Motorola	CD54HC4352 MC54HC4352	
MM54HC08	Harris Motorola TI	CD54HC08 MC54HC08 SN54HC08		MM54HC175	Harris Motorola TI	CD54HC175 MC54HC175 SN54HC175		MM54HC356	Harris Motorola	CD54HC356 MC54HC356		MM54HC4353	Harris Motorola	CD54HC4353 MC54HC4353	
MM54HC10	Harris Motorola TI	CD54HC10 MC54HC10 SN54HC10		MM54HC182	Harris Motorola TI	CD54HC182 MC54HC182 SN54HC182		MM54HC365	Harris Motorola	CD54HC365 MC54HC365		MM54HC4511	Harris Motorola	CD54HC4511 MC54HC4511	
MM54HC107	Harris Motorola TI	CD54HC107 MC54HC107 SN54HC107		MM54HC190	Harris Motorola TI	CD54HC190 MC54HC190 SN54HC190		MM54HC366	Harris Motorola TI	CD54HC366 MC54HC366 SN54HC366		MM54HC4514	Harris Motorola	CD54HC4514 MC54HC4514	
MM54HC109	Harris Motorola TI	CD54HC109 MC54HC109 SN54HC109		MM54HC191	Harris Motorola TI	CD54HC191 MC54HC191 SN54HC191		MM54HC367	Harris Motorola TI	CD54HC367 MC54HC367 SN54HC367		MM54HC4538	Harris Motorola	CD54HC4538 MC54HC4538	
MM54HC11	Harris Motorola TI	CD54HC11 MC54HC11 SN54HC11		MM54HC192	Harris Motorola TI	CD54HC192 MC54HC192 SN54HC192		MM54HC373	Harris Motorola TI	CD54HC373 MC54HC373 SN54HC373		MM54HC51	Harris Motorola TI	CD54HC51 MC54HC51 SN54HC51	
MM54HC112	Harris Motorola TI	CD54HC112 MC54HC112 SN54HC112		MM54HC193	Harris Motorola TI	CD54HC193 MC54HC193 SN54HC193		MM54HC374	Harris Motorola TI	CD54HC374 MC54HC374 SN54HC374		MM54HC533	Harris Motorola TI	CD54HC533 MC54HC533 SN54HC533	
MM54HC113	Harris Motorola TI	CD54HC113 MC54HC113 SN54HC113		MM54HC194	Harris Motorola TI	CD54HC194 MC54HC194 SN54HC194		MM54HC390	Harris Motorola TI	CD54HC390 MC54HC390 SN54HC390		MM54HC534	Harris Motorola TI	CD54HC534 MC54HC534 SN54HC534	
MM54HC123	Harris Motorola TI	CD54HC123 MC54HC123 SN54HC123		MM54HC195	Harris Motorola TI	CD54HC195 MC54HC195 SN54HC195		MM54HC393	Harris Motorola TI	CD54HC393 MC54HC393 SN54HC393		MM54HC540	Harris Motorola TI	CD54HC540 MC54HC540 SN54HC540	
MM54HC125	Harris Motorola Signetics TI	CD54HC125 MC54HC125 74HC125 SN54HC125		MM54HC20	Harris Motorola TI	CD54HC20 MC54HC20 SN54HC20		MM54HC4002	Harris Motorola TI	CD54HC4002 MC54HC4002 SN54HC4002		MM54HC541	Harris Motorola TI	CD54HC541 MC54HC541 SN54HC541	
MM54HC126	Harris Motorola TI	CD54HC126 MC54HC126 SN54HC126		MM54HC221	Harris Motorola TI	CD54HC221 MC54HC221 SN54HC221		MM54HC4016	Harris Motorola TI	CD54HC4016 MC54HC4016 SN54HC4016		MM54HC563	Harris Motorola TI	CD54HC563 MC54HC563 SN54HC563	
MM54HC132	Harris Motorola TI	CD54HC132 MC54HC132 SN54HC132		MM54HC237	Harris Motorola TI	CD54HC237 MC54HC237 SN54HC237		MM54HC4017	Harris Motorola TI	CD54HC4017 MC54HC4017 SN54HC4017		MM54HC564	Harris Motorola TI	CD54HC564 MC54HC564 SN54HC564	
MM54HC133	Harris Motorola TI	CD54HC133 MC54HC133 SN54HC133		MM54HC240	Harris Motorola TI	CD54HC240 MC54HC240 SN54HC240		MM54HC4020	Harris Motorola TI	CD54HC4020 MC54HC4020 SN54HC4020		MM54HC573	Harris Motorola TI	CD54HC573 MC54HC573 SN54HC573	
MM54HC137	Harris Motorola TI	CD54HC137 MC54HC137 SN54HC137		MM54HC241	Harris Motorola TI	CD54HC241 MC54HC241 SN54HC241		MM54HC4024	Harris Motorola TI	CD54HC4024 MC54HC4024 SN54HC4024		MM54HC574	Harris Motorola TI	CD54HC574 MC54HC574 SN54HC574	
MM54HC138	Harris Motorola TI	CD54HC138 MC54HC138 SN54HC138		MM54HC242	Harris Motorola TI	CD54HC242 MC54HC242 SN54HC242		MM54HC404	Harris Motorola TI	CD54HC404 MC54HC404 SN54HC404		MM54HC58	Harris Motorola Signetics	CD74HC583 MC54HC58 74HC583	
MM54HC139	Harris Motorola TI	CD54HC139 MC54HC139 SN54HC139		MM54HC243	Harris Motorola TI	CD54HC243 MC54HC243 SN54HC243		MM54HC4040	Harris Motorola TI	CD54HC4040 MC54HC4040 SN54HC4040		MM54HC589	Harris Motorola Signetics	CD74HC7030 MC54HC589 74HC7030	
MM54HC14	Harris Motorola TI	CD54HC14 MC54HC14 SN54HC14		MM54HC244	Harris Motorola TI	CD54HC244 MC54HC244 SN54HC244		MM54HC4046	Harris Motorola TI	CD54HC4046 MC54HC4046 SN54HC4046		MM54HC590	Harris Motorola TI	CD54HC590 MC54HC590 SN54HC590	
MM54HC147	Harris Motorola TI	CD54HC147 MC54HC147 SN54HC147		MM54HC245	Harris Motorola TI	CD54HC245 MC54HC245 SN54HC245		MM54HC4049	Harris Motorola TI	CD54HC4049 MC54HC4049 SN54HC4049		MM54HC595	Harris Motorola TI	CD54HC595 MC54HC595 SN54HC595	
MM54HC151	Harris Motorola TI	CD54HC151 MC54HC151 SN54HC151		MM54HC251	Harris Motorola TI	CD54HC251 MC54HC251 SN54HC251		MM54HC4050	Harris Motorola TI	CD54HC4050 MC54HC4050 SN54HC4050		MM54HC597	Harris Motorola TI	CD54HC597 MC54HC597 SN54HC597	
MM54HC153	Harris Motorola TI	CD54HC153 MC54HC153 SN54HC153		MM54HC253	Harris Motorola TI	CD54HC253 MC54HC253 SN54HC253		MM54HC4052	Harris Motorola TI	CD54HC4052 MC54HC4052 SN54HC4052		MM54HC640	Harris Motorola TI	CD54HC640 MC54HC640 SN54HC640	
MM54HC154	Harris Motorola TI	CD54HC154 MC54HC154 SN54HC154		MM54HC257	Harris Motorola TI	CD54HC257 MC54HC257 SN54HC257		MM54HC4053	Harris Motorola TI	CD54HC4053 MC54HC4053 SN54HC4053		MM54HC643	Harris Motorola TI	CD54HC643 MC54HC643 SN54HC643	
MM54HC157	Harris Motorola TI	CD54HC157 MC54HC157 SN54HC157		MM54HC259	Harris Motorola TI	CD54HC259 MC54HC259 SN54HC259		MM54HC4060	Harris Motorola TI	CD54HC4060 MC54HC4060 SN54HC4060		MM54HC645	Harris Motorola TI	CD54HC645 MC54HC645 SN54HC645	
MM54HC158	Harris Motorola TI	CD54HC158 MC54HC158 SN54HC158		MM54HC266	Harris Motorola TI	CD54HC266 MC54HC266 SN54HC266		MM54HC4066	Harris Motorola TI	CD54HC4066 MC54HC4066 SN54HC4066		MM54HC646	Harris Motorola TI	CD54HC646 MC54HC646 SN54HC646	
MM54HC160	Harris Motorola TI	CD54HC160 MC54HC160 SN54HC160		MM54HC273	Harris Marconi Motorola	CD54HC273 MC54HC273 SN54HC273		MM54HC4075	Harris Motorola TI	CD54HC4075 MC54HC4075 SN54HC4075		MM54HC648	Harris Motorola TI	CD54HC648 MC54HC648 SN54HC648	
MM54HC161	Harris Motorola TI	CD54HC161 MC54HC161 SN54HC161		MM54HC280	Harris Motorola TI	CD54HC280 MC54HC280 SN54HC280		MM54HC4078	Harris Motorola TI	CD54HC4078 MC54HC4078 SN54HC4078		MM54HC688	Harris Motorola TI	CD54HC688 MC54HC688 SN54HC688	
MM54HC162	Harris Motorola	CD54HC162 MC54HC162		MM54HC283	Harris	CD54HC283		MM54HC4078A	Harris	CD54HC4078A		MM54HC73	Harris Motorola	CD54HC73 MC54HC73	
		(Continued)		MM54HC292	Signetics	74HC4015						MM54HC74	Harris Motorola	CD54HC74 MC54HC74	
						(Continued)						MM54HC75	Harris Motorola	CD54HC75 MC54HC75	
												MM54HC76	Harris Motorola	CD54HC76 MC54HC76	

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				MM74C164	Harris Motorola National OKI SGS-Thomson	CD4015B MC14015 CD4015 F4015 MSM4015		MM74C76		(Cont'd)		MM74HCT158	Harris Signetics Toshiba	CD74HCT158 74HCT158 TC74HCT158A	
MM54HC85	Harris Motorola TI	CD54HC85 MC54HC85 SN54HC85A							National	CD4027 CD4027B F4027		MM74HCT160	Harris Signetics	CD74HCT160 74HCT160	
MM54HC86	Harris Motorola TI	CD54HC86 MC54HC86 SN54HC86			OKI SGS-Thomson	HCC4015 HCF4015 HEF4015 TC4015B			OKI SGS-Thomson	HCC4027 HCC4027B HCF4027 HCF4027B		MM74HCT164	Harris Signetics Toshiba	CD74HCT164 74HCT164 TC74HCT164A	
MM54S289	National	DM54S289 DM5489 MM5450		MM74C173	Harris Motorola National	CD4076B MC14076 CD4076 F4076 MM54C173		MM74C83	Signetics Toshiba Harris Motorola National	HEF4027 TC4027B CD4008B MC14008 CD4008 F4008		MM74HCT190	Harris Signetics	CD74HCT190 74HCT190	
MM5450	Micrel SGS-Thomson	M5450 SN5450 SN5451			SGS-Thomson	HCC4076 HCF4076 HEF4076 TC4076B			SGS-Thomson	HCC4008 HCF4008 HEF4008 TC4008B		MM74HCT191	Harris Signetics	CD74HCT191 74HCT191	
MM5451	Lansdale Micrel National SGS-Thomson	ML5451 MM5451 DM5451 M5451	(3514)	MM74C175	Signetics Toshiba Motorola	MC14175 MC40175 CD40175 F40175 MM54C175		MM74C85	Signetics Toshiba Harris Motorola National SGS-Thomson	CD4585B MC14585 F40085 HCC4585 HCF4585 HEF4585 TC4585B		MM74HCT193	Harris Signetics	CD74HCT193 74HCT193	
MM5453	National	DM5453			National	CD40175 F40175 MM54C175			SGS-Thomson	CD4070B MC14070 CD4070 F4070		MM74HCT240	Harris Hitachi Marconi Motorola Plessey Samsung SGS-Thomson	CD74HCT240 HD74HCT240 74HCT240 MC74HCT240 MV74HCT240 74HCT240 M74HCT240 74HCT240 SN74HCT240 TC74HCT240A	
MM5480	SGS-Thomson	M5480		MM74C181	Signetics Toshiba Harris Motorola SGS-Thomson	HEF40175 TC40175B CD40181B MC14581		MM74C86	Signetics Toshiba Harris Motorola National	CD4070B MC14070 CD4070 F4070			Signetics TI Toshiba	74HCT240 SN74HCT240 TC74HCT240A	(3674)
MM5481	SGS-Thomson	M5481			SGS-Thomson	HCC40181 HCF40181 CD40182B MC14582			SGS-Thomson	HCC4070 HCF4070 HEF4070		MM74HCT241	Harris Hitachi Marconi Motorola Plessey Samsung SGS-Thomson	CD74HCT241 HD74HCT241 74HCT241 MC74HCT241 MV74HCT241 74HCT241 M74HCT241 74HCT241 SN74HCT241 TC74HCT241A	
MM58438	Hughes Microchip	HC0438A AY0438I		MM74C182	Harris Motorola National	MC14582		MM74C89	Signetics	CD4070			Signetics TI Toshiba	74HCT241 SN74HCT241 TC74HCT241A	(3674)
MM58538	Hughes	HLCDO538			SGS-Thomson	HCC40182 HCF40182		MM74C920	National	F40089		MM74HCT244	Harris Hitachi Marconi Motorola Plessey SGS-Thomson	CD74HCT244 HD74HCT244 74HCT244 MC74HCT244 MV74HCT244 74HCT244 M74HCT244 74HCT244 SN74HCT244 TC74HCT244A	
MM58539	Hughes	HLCDO539		MM74C192	National	MM54C192			National	HA5101			Signetics TI Toshiba	74HCT245 SN74HCT245 TC74HCT245A	(3674)
MM58540	Hughes	HC0540		MM74C193	Harris National	CD40193B CD40193 F40193 MM54C193		MM74C929	MicroNet Mitsubishi Motorola Panasonic Sharp	5101 MNS101 M5L5101 MCMS1L01 MCM145101 MNS101 LH5101	(3547)		Signetics TI Toshiba	74HCT245 SN74HCT245 TC74HCT245A	(3674)
MM72HCT04	Harris SGS-Thomson	CD74HCT04 M74HCT04 74HCT04 SN74HCT04 TC74HCT04A	(3674)		SGS-Thomson	HCC40193 HCF40193 HEF40193 TC40193B CD40195 F40195			Fujitsu Harris	MB8401 HM6508 IM6508-1 6508		MM74HCT245	Harris Hitachi Marconi Motorola Plessey SGS-Thomson	CD74HCT245 HD74HCT245 74HCT245 MC74HCT245 MV74HCT245 74HCT245 M74HCT245 74HCT245 SN74HCT245 TC74HCT245A	
MM74C00	National OKI	F4011 MSM4011		MM74C221	Motorola National	MC14528 CD4528 F4528		MM74C930	National	NM2102			Signetics TI Toshiba	74HCT245 SN74HCT245 TC74HCT245A	(3674)
MM74C02	Toshiba Harris Motorola National	TC4011B CD4001UB MC14001UB CD4001UB F4001			SGS-Thomson	HCC4098 HCF4098 HEF4098 TC4528B		MM74C945	Harris	HM6518		MM74HCT251	Harris Signetics	CD74HCT251 74HCT251	
MM74C04	OKI Toshiba Harris Motorola National	MSM4001 TC4001UB CD4069UB MC14069 CD4069 F4069 MM54C04 MSM4069		MM74C32	Signetics Toshiba Harris Motorola National	HCC4098 HCF4098 HEF4098 TC4528B CD4071B MC14071 MC14071B CD4071 CD4071B F4071 MSM4071		MM74C947	Maxim	MM74C945		MM74HCT253	Harris Signetics	CD74HCT253 74HCT253	
MM74C08	OKI SGS-Thomson	MSM4001 TC4001UB CD4069UB MC14069 CD4069 F4069 MM54C04 MSM4069			SGS-Thomson	HCC4098 HCF4098 HEF4098 TC4528B		MM74HCT00	Maxim	MM74C947		MM74HCT257	Harris Signetics TI Toshiba	CD74HCT257 74HCT257 SN74HCT257 TC74HCT257A	(3674)
MM74C10	Signetics Toshiba Harris Motorola National	HCC4069 HCF4069 HEF4069 TC4069UB CD4081B MC14081 CD4081 F4081 MSM4081		MM74C42	Signetics Toshiba Harris Motorola National	HCC4071 HCC4071B HCF4071 HCF4071B HEF4071 TC4071B CD4028B MC14028 CD4028 F4028 MSM4028		MM74HCT04	Signetics	CD74HCT00			Signetics TI Toshiba	74HCT257 SN74HCT257 TC74HCT257A	(3674)
MM74C14	OKI SGS-Thomson	MSM4001 TC4001UB CD4069UB MC14069 CD4069 F4069 MM54C04 MSM4069			SGS-Thomson	HCC4071 HCC4071B HCF4071 HCF4071B HEF4071 TC4071B CD4028B MC14028 CD4028 F4028 MSM4028		MM74HCT08	Signetics	CD74HCT03 74HCT03		MM74HCT273	Harris Signetics TI Toshiba	CD74HCT273 74HCT273 SN74HCT273 TC74HCT273A	
MM74C16	Signetics Toshiba Harris Motorola National	HCC4081 HCF4081 HEF4081 TC4081B CD4023B MC14023 CD4023 F4023		MM74C74	Signetics Toshiba Harris Motorola National	HCC4028 HCF4028 HEF4028 TC4028B CD4013B MC14013 CD4013 F4013 MSM4013		MM74HCT109	Harris Signetics	CD74HCT109 74HCT109		MM74HCT299	Harris Signetics	CD74HCT299 74HCT299	
MM74C18	OKI SGS-Thomson	MSM4001 TC4001UB CD4069UB MC14069 CD4069 F4069 MM54C04 MSM4069			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B		MM74HCT112	Harris Signetics	CD74HCT112 74HCT112		MM74HCT32	Harris Signetics	CD74HCT32 74HCT32	
MM74C20	Signetics Toshiba Harris Motorola National	HCC4069 HCF4069 HEF4069 TC4069UB CD4081B MC14081 CD4081 F4081 MSM4081		MM74C76	Signetics Toshiba Harris Motorola	CD4027B MC14027 MC14027B		MM74HCT138	Harris Marconi Plessey SGS-Thomson	CD74HCT138 74HCT138 MV74HCT138					
MM74C22	OKI SGS-Thomson	MSM4001 TC4001UB CD4069UB MC14069 CD4069 F4069 MM54C04 MSM4069			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B		MM74HCT151	Harris Signetics	CD74HCT151 74HCT151					
MM74C24	Signetics Toshiba Harris Motorola National	HCC4023 HCF4023 HEF4023 TC4023B CD40106B MIC54C14 MC14106 MC14584 MC14584B CD40106 CD4584 CD4584B F400014 F40014 F40014 MM54C14			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B		MM74HCT153	Harris Signetics	CD74HCT153 74HCT153					
MM74C26	OKI SGS-Thomson	MSM4001 TC4001UB CD4069UB MC14069 CD4069 F4069 MM54C04 MSM4069			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B		MM74HCT157	Harris Signetics Toshiba	CD74HCT157 74HCT157 TC74HCT157A					
MM74C28	Signetics Toshiba Harris Motorola National	HCC4023 HCF4023 HEF4023 TC4023B CD40106B MIC54C14 MC14106 MC14584 MC14584B CD40106 CD4584 CD4584B F400014 F40014 F40014 MM54C14			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C30	OKI SGS-Thomson	MSM4001 TC4001UB CD4069UB MC14069 CD4069 F4069 MM54C04 MSM4069			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C32	Signetics Toshiba Harris Motorola National	HCC4023 HCF4023 HEF4023 TC4023B CD40106B MIC54C14 MC14106 MC14584 MC14584B CD40106 CD4584 CD4584B F400014 F40014 F40014 MM54C14			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C34	OKI SGS-Thomson	MSM4001 TC4001UB CD4069UB MC14069 CD4069 F4069 MM54C04 MSM4069			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C36	Signetics Toshiba Harris Motorola National	HCC4023 HCF4023 HEF4023 TC4023B CD40106B MIC54C14 MC14106 MC14584 MC14584B CD40106 CD4584 CD4584B F400014 F40014 F40014 MM54C14			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C38	OKI SGS-Thomson	MSM4001 TC4001UB CD4069UB MC14069 CD4069 F4069 MM54C04 MSM4069			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C40	Signetics Toshiba Harris Motorola National	HCC4023 HCF4023 HEF4023 TC4023B CD40106B MIC54C14 MC14106 MC14584 MC14584B CD40106 CD4584 CD4584B F400014 F40014 F40014 MM54C14			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C42	OKI SGS-Thomson	MSM4001 TC4001UB CD4069UB MC14069 CD4069 F4069 MM54C04 MSM4069			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C44	Signetics Toshiba Harris Motorola National	HCC4023 HCF4023 HEF4023 TC4023B CD40106B MIC54C14 MC14106 MC14584 MC14584B CD40106 CD4584 CD4584B F400014 F40014 F40014 MM54C14			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C46	OKI SGS-Thomson	MSM4001 TC4001UB CD4069UB MC14069 CD4069 F4069 MM54C04 MSM4069			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C48	Signetics Toshiba Harris Motorola National	HCC4023 HCF4023 HEF4023 TC4023B CD40106B MIC54C14 MC14106 MC14584 MC14584B CD40106 CD4584 CD4584B F400014 F40014 F40014 MM54C14			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C50	OKI SGS-Thomson	MSM4001 TC4001UB CD4069UB MC14069 CD4069 F4069 MM54C04 MSM4069			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C52	Signetics Toshiba Harris Motorola National	HCC4023 HCF4023 HEF4023 TC4023B CD40106B MIC54C14 MC14106 MC14584 MC14584B CD40106 CD4584 CD4584B F400014 F40014 F40014 MM54C14			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C54	OKI SGS-Thomson	MSM4001 TC4001UB CD4069UB MC14069 CD4069 F4069 MM54C04 MSM4069			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C56	Signetics Toshiba Harris Motorola National	HCC4023 HCF4023 HEF4023 TC4023B CD40106B MIC54C14 MC14106 MC14584 MC14584B CD40106 CD4584 CD4584B F400014 F40014 F40014 MM54C14			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C58	OKI SGS-Thomson	MSM4001 TC4001UB CD4069UB MC14069 CD4069 F4069 MM54C04 MSM4069			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C60	Signetics Toshiba Harris Motorola National	HCC4023 HCF4023 HEF4023 TC4023B CD40106B MIC54C14 MC14106 MC14584 MC14584B CD40106 CD4584 CD4584B F400014 F40014 F40014 MM54C14			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C62	OKI SGS-Thomson	MSM4001 TC4001UB CD4069UB MC14069 CD4069 F4069 MM54C04 MSM4069			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C64	Signetics Toshiba Harris Motorola National	HCC4023 HCF4023 HEF4023 TC4023B CD40106B MIC54C14 MC14106 MC14584 MC14584B CD40106 CD4584 CD4584B F400014 F40014 F40014 MM54C14			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C66	OKI SGS-Thomson	MSM4001 TC4001UB CD4069UB MC14069 CD4069 F4069 MM54C04 MSM4069			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C68	Signetics Toshiba Harris Motorola National	HCC4023 HCF4023 HEF4023 TC4023B CD40106B MIC54C14 MC14106 MC14584 MC14584B CD40106 CD4584 CD4584B F400014 F40014 F40014 MM54C14			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C70	OKI SGS-Thomson	MSM4001 TC4001UB CD4069UB MC14069 CD4069 F4069 MM54C04 MSM4069			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C72	Signetics Toshiba Harris Motorola National	HCC4023 HCF4023 HEF4023 TC4023B CD40106B MIC54C14 MC14106 MC14584 MC14584B CD40106 CD4584 CD4584B F400014 F40014 F40014 MM54C14			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C74	OKI SGS-Thomson	MSM4001 TC4001UB CD4069UB MC14069 CD4069 F4069 MM54C04 MSM4069			SGS-Thomson	HCC4028 HCF4028 HEF4028 TC4028B									
MM74C76	Signetics Toshiba Harris Motorola National	HCC4023 HCF4023 HEF4023 TC4023B CD40106B MIC54C14 MC14106 MC14584 MC14584B CD40106 CD4584 CD4584B F400014 F40014 F40014 													

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
MM74HCT373	Harris	CD74HCT373		MM74HCT573	SGS-Thomson	M74HCT573		MM74HC109	Harris	CD74HC109		MM74HC139	Motorola	MC74HC139	
	Hitachi	HD74HCT373			Signetics	74HCT573			Hitachi	HD74HC109			SGS-Thomson	M74HC139	
	Marconi	74HCT373			TI	SN74HCT573			Motorola	MC74HC109			Signetics	74HC139	
	Motorola	MC74HCT373		MM74HCT574	Toshiba	TC74HCT573			SGS-Thomson	M74HC109			TI	SN74HC139	
	Plessey	MV74HCT373			Harris	CD74HCT574			Signetics	74HC109			Toshiba	TC74HC139A	(3674)
		MV74SC373			Marconi	74HCT574			TI	SN74HC109					
	SGS-Thomson	M74HCT373			Plessey	MV74HCT574		MM74HC11	Harris	CD74HC11		MM74HC14	Harris	CD74HC14	
		74HCT373			SGS-Thomson	M74HCT574			Hitachi	HD74HC11			Hitachi	HD74HC14	
	Signetics	74HCT373			Signetics	74HCT574			Motorola	MC74HC11			Motorola	MC74HC14	
	TI	SN74HCT373			TI	SN74HCT574			SGS-Thomson	M74HC11			SGS-Thomson	M74HC14	
	Toshiba	TC74HCT373A	(3674)		Toshiba	TC74HCT574				74HC11			Signetics	74HC14	
MM74HCT374				MM74HCT640					TI	SN74HC11			TI	SN74HC14	(3674)
	Harris	CD74HCT374			Harris	CD74HCT640		MM74HC112	Harris	CD74HC112		MM74HC147	Harris	CD74HC147	
	Hitachi	HD74HCT374			Motorola	MC74HCT640			Hitachi	HD74HC112			Hitachi	HD74HC147	
	LinearTech	LTC1044			SGS-Thomson	M74HCT640			Motorola	MC74HC112			Motorola	MC74HC147	
	Marconi	74HCT374			Signetics	74HCT640			SGS-Thomson	M74HC112			SGS-Thomson	M74HC147	
	Motorola	MC74HCT374			TI	SN74HCT640			Signetics	74HC112			Signetics	74HC147	
	Plessey	MV74HCT374			Toshiba	TC74HCT640A	(3674)		TI	SN74HC112			TI	SN74HC147	
		MV74SC374							Toshiba	TC74HC112A	(3674)		Toshiba	TC74HC147A	(3674)
	SGS-Thomson	M74HCT374		MM74HCT688				MM74HC113	Harris	CD74HC113		MM74HC151	Harris	CD74HC151	
	Signetics	74HCT374			Harris	CD74HCT688			Hitachi	HD74HC113			Hitachi	HD74HC151	
	TI	SN74HCT374			Signetics	74HCT688			Motorola	MC74HC113			Motorola	MC74HC151	
	Toshiba	TC74HCT374A	(3674)		Toshiba	TC74HCT688A	(3674)		SGS-Thomson	M74HC113			SGS-Thomson	M74HC151	
MM74HCT533				MM74HCT74					Signetics	74HC113			Signetics	74HC151	
	Harris	CD74HCT533			Harris	CD74HCT74			TI	SN74HC113			TI	SN74HC151	
	Hitachi	HD74HCT533		MM74HCU04					Toshiba	TC74HC113A	(3674)		Toshiba	TC74HC151A	(3674)
	Marconi	74HCT533			Harris	CD74HCU04									
	Motorola	MC74HCT533			Motorola	MC74HCU04		MM74HC123	Harris	CD74HC123		MM74HC153	Harris	CD74HC153	
	Plessey	MV74HCT533			SGS-Thomson	M74HCU04			Hitachi	HD74HC123			Hitachi	HD74HC153	
	Signetics	74HCT533			Signetics	74HCU04			SGS-Thomson	M74HC123			Motorola	MC74HC153	
	TI	SN74HCT533			TI	SN74HCU04				74HC123			SGS-Thomson	M74HC153	
	Toshiba	TC74HCT533A	(3674)		Toshiba	TC74HCU04A	(3674)		Signetics	74HC123			Signetics	74HC153	
MM74HCT534				MM74HC00					Toshiba	TC74HC123A	(3674)		TI	SN74HC153	
	Harris	CD74HCT534			Harris	CD74HC00							Toshiba	TC74HC153A	(3674)
	Hitachi	HD74HCT534			Hitachi	HD74HC00		MM74HC125	Harris	CD74HC125		MM74HC154	Harris	CD74HC154	
	Marconi	74HCT534			Motorola	MC74HC00			Hitachi	HD74HC125			Hitachi	HD74HC154	
	Motorola	MC74HCT534			SGS-Thomson	M74HC00			Motorola	MC74HC125			Motorola	MC74HC154	
	Plessey	MV74HCT534			Signetics	74HC00			SGS-Thomson	M74HC125			SGS-Thomson	M74HC154	
	Signetics	74HCT534			TI	SN74HC00				74HC125			Signetics	74HC154	
	TI	SN74HCT534			Toshiba	TC74HC00A	(3674)		Signetics	74HC125			TI	SN74HC154	
	Toshiba	TC74HCT534A	(3674)		MM74HC02				TI	SN74HC125			Toshiba	TC74HC154A	(3674)
MM74HCT540					Harris	CD74HC02		MM74HC126	Harris	CD74HC126		MM74HC155	Motorola	MC74HC155	
	Harris	CD74HCT540			Hitachi	HD74HC02			Hitachi	HD74HC126			SGS-Thomson	MC74HC155	
	Marconi	74HCT540			Motorola	MC74HC02			Motorola	MC74HC126			Toshiba	TC74HC155A	(3674)
	Motorola	MC74HCT540			SGS-Thomson	M74HC02			SGS-Thomson	M74HC126					
	Plessey	MV74HCT540			Signetics	74HC02				74HC126					
	SGS-Thomson	M74HCT540			TI	SN74HC02				TC74HC126A	(3674)				
	Signetics	74HCT540			Toshiba	TC74HC02A	(3674)								
	TI	SN74HCT540			MM74HC03			MM74HC132	Harris	CD74HC132		MM74HC157	Harris	CD74HC157	
	Toshiba	TC74HCT540A	(3674)		Harris	CD74HC03			Hitachi	HD74HC132			Hitachi	HD74HC157	
MM74HCT541					Motorola	MC74HC03			Motorola	MC74HC132			Motorola	MC74HC157	
	Harris	CD74HCT541			SGS-Thomson	M74HC03			SGS-Thomson	M74HC132			SGS-Thomson	M74HC157	
	Marconi	74HCT541			Signetics	74HC03				74HC132			Signetics	74HC157	
	Plessey	MV74HCT541			TI	SN74HC03				SN74HC132			TI	SN74HC157	
	SGS-Thomson	M74HCT541			Toshiba	TC74HC03A	(3674)			TC74HC132A	(3674)		Toshiba	TC74HC157A	(3674)
	Signetics	74HCT541			MM74HC04			MM74HC133	Motorola	MC74HC133		MM74HC158	Harris	CD74HC158	
	TI	SN74HCT541			Harris	CD74HC04			Hitachi	HD74HC133			Hitachi	HD74HC158	
	Toshiba	TC74HCT541A	(3674)		Motorola	MC74HC04			Motorola	MC74HC133			Motorola	MC74HC158	
MM74HCT563					SGS-Thomson	M74HC04			SGS-Thomson	M74HC133			SGS-Thomson	M74HC158	
	Harris	CD74HCT563			Signetics	74HC04				74HC133			Signetics	74HC158	
	Marconi	74HCT563			TI	SN74HC04				TC74HC133A	(3674)		TI	SN74HC158	
	Plessey	MV74HCT563			Toshiba	TC74HC04A	(3674)						Toshiba	TC74HC158A	(3674)
	SGS-Thomson	M74HCT563			MM74HC08			MM74HC137	Harris	CD74HC137		MM74HC160	Harris	CD74HC160	
	Signetics	74HCT563			Harris	CD74HC08			Hitachi	HD74HC137			Motorola	MC74HC160	
	TI	SN74HCT563			Motorola	MC74HC08			Motorola	MC74HC137			SGS-Thomson	M74HC160	
	Toshiba	TC74HCT563			SGS-Thomson	M74HC08			SGS-Thomson	M74HC137			Signetics	74HC160	
MM74HCT564					Signetics	74HC08				74HC137			TI	SN74HC160	
	Harris	CD74HCT564			TI	SN74HC08				TC74HC137A	(3674)		Toshiba	TC74HC160A	(3674)
	Marconi	74HCT564			Toshiba	TC74HC08A	(3674)								
	Motorola	MC74HCT564			MM74HC10			MM74HC138	Harris	CD74HC138		MM74HC161	Harris	CD74HC161	
	Plessey	MV74HCT564			Harris	CD74HC10			Hitachi	HD74HC138			Hitachi	HD74HC161	
	SGS-Thomson	M74HCT564			Motorola	MC74HC10			Motorola	MC74HC138			Motorola	MC74HC161	
	Signetics	74HCT564			SGS-Thomson	M74HC10			SGS-Thomson	M74HC138			SGS-Thomson	M74HC161	
	TI	SN74HCT564			Signetics	74HC10				74HC138			Signetics	74HC161	
	Toshiba	TC74HCT564			TI	SN74HC10				SN74HC138			TI	SN74HC161	
MM74HCT573					Toshiba	TC74HC10A	(3674)			TC74HC138A	(3674)		Toshiba	TC74HC161A	(3674)
	Harris	CD74HCT573			MM74HC107										
	Marconi	74HCT573			Harris	CD74HC107									
	Plessey	MV74HCT573			Hitachi	HD74HC107									
					Motorola	MC74HC107									
					SGS-Thomson	M74HC107									
					Signetics	74HC107									
					TI	SN74HC107									
					Toshiba	TC74HC107A	(3674)								

* Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				MM74HC191	Harris Hitachi SGS-Thomson	CD74HC191 HD74HC191 M74HC191 74HC191 SN74HC191 TC74HC191A	(3674)	MM74HC241	Motorola SGS-Thomson	MC74HC241 M74HC241 74HC241 SN74HC241 TC74HC241A	(3674)	MM74HC273	SGS-Thomson	M74HC273 74HC273 SN74HC273 TC74HC273A	(3674)
MM74HC162	Harris Hitachi Motorola SGS-Thomson	CD74HC162 HD74HC162 MC74HC162 M74HC162 74HC162 SN74HC162 TC74HC162A	(3674)	MM74HC192	Harris Hitachi SGS-Thomson	CD74HC192 HD74HC192 M74HC192 74HC192 SN74HC192 TC74HC192A	(3674)	MM74HC242	Harris Hitachi Motorola SGS-Thomson	CD74HC242 HD74HC242 MC74HC242 M74HC242 74HC242 SN74HC242 TC74HC242		MM74HC280	Harris Hitachi Motorola SGS-Thomson	CD74HC280 HD74HC280 MC74HC280 M74HC280 74HC280 SN74HC280 TC74HC280A	(3674)
MM74HC163	Harris Hitachi Motorola SGS-Thomson	CD74HC163 HD74HC163 MC74HC163 M74HC163 74HC163 SN74HC163 TC74HC163A	(3674)	MM74HC193	Harris Hitachi SGS-Thomson	CD74HC193 HD74HC193 M74HC193 74HC193 SN74HC193 TC74HC193A	(3674)	MM74HC243	Harris Hitachi Motorola SGS-Thomson	CD74HC243 HD74HC243 MC74HC243 M74HC243 74HC243 SN74HC243 TC74HC243		MM74HC283	Harris SGS-Thomson	CD74HC283 M74HC283 74HC283 SN74HC283 TC74HC283A	(3674)
MM74HC164	Harris Hitachi Motorola SGS-Thomson	CD74HC164 HD74HC164 MC74HC164 M74HC164 74HC164 SN74HC164 TC74HC164A	(3674)	MM74HC194	Harris Hitachi Motorola SGS-Thomson	CD74HC194 HD74HC194 MC74HC194 M74HC194 74HC194 SN74HC194 TC74HC194A	(3674)	MM74HC244	Harris Hitachi Motorola SGS-Thomson	CD74HC244 HD74HC244 MC74HC244 M74HC244 74HC244 SN74HC244 TC74HC244A	(3674)	MM74HC292	SGS-Thomson	M74HC292	
MM74HC165	Harris Hitachi Motorola SGS-Thomson	CD74HC165 HD74HC165 MC74HC165 M74HC165 74HC165 SN74HC165 TC74HC165A	(3674)	MM74HC195	Harris Hitachi Motorola SGS-Thomson	CD74HC195 HD74HC195 MC74HC195 M74HC195 74HC195 SN74HC195 TC74HC195A	(3674)	MM74HC245	Harris Hitachi Motorola SGS-Thomson	CD74HC245 HD74HC245 MC74HC245 M74HC245 74HC245 SN74HC245 TC74HC245A	(3674)	MM74HC294	SGS-Thomson	M74HC294	
MM74HC166	Harris SGS-Thomson	CD74HC166 M74HC166 74HC166 SN74HC166 TC74HC166A	(3674)	MM74HC20	Harris Hitachi Motorola SGS-Thomson	CD74HC20 HD74HC20 MC74HC20 M74HC20 74HC20 SN74HC20 TC74HC20A	(3674)	MM74HC251	Harris Hitachi Motorola SGS-Thomson	CD74HC251 HD74HC251 MC74HC251 M74HC251 74HC251 SN74HC251 TC74HC251A	(3674)	MM74HC298	Hitachi Motorola SGS-Thomson	HD74HC298 MC74HC298 M74HC298 TC74HC298A SN74HC298 TC74HC298A	(3674)
MM74HC173	Harris Hitachi Motorola SGS-Thomson	CD74HC173 HD74HC173 MC74HC173 M74HC173 74HC173 SN74HC173 TC74HC173A	(3674)	MM74HC221	Harris Hitachi National SGS-Thomson	CD74HC221 HD74HC221 MM74HC221A M74HC221 74HC221 TC74HC221A	(3674)	MM74HC253	Harris Hitachi Motorola SGS-Thomson	CD74HC253 HD74HC253 MC74HC253 M74HC253 74HC253 SN74HC253 TC74HC253A	(3674)	MM74HC299	Harris Motorola SGS-Thomson	CD74HC299 MC74HC299 M74HC299 74HC299 SN74HC299 TC74HC299A	(3674)
MM74HC174	Harris Hitachi Motorola SGS-Thomson	CD74HC174 HD74HC174 MC74HC174 M74HC174 74HC174 SN74HC174 TC74HC174A	(3674)	MM74HC221A	Harris Hitachi National SGS-Thomson	CD74HC221 HD74HC221 MM74HC221 M74HC221 74HC221 TC74HC221A	(3674)	MM74HC257	Harris Hitachi Motorola SGS-Thomson	CD74HC257 HD74HC257 MC74HC257 M74HC257 74HC257 SN74HC257 TC74HC257A	(3674)	MM74HC30	Harris Hitachi Motorola SGS-Thomson	CD74HC30 HD74HC30 MC74HC30 M74HC30 74HC30 SN74HC30 TC74HC30A	(3674)
MM74HC175	Harris Hitachi Motorola SGS-Thomson	CD74HC175 HD74HC175 MC74HC175 M74HC175 74HC175 SN74HC175 TC74HC175A	(3674)	MM74HC237	Harris Motorola SGS-Thomson	CD74HC237 MC74HC237 M74HC237 74HC237 SN74HC237 TC74HC237A	(3674)	MM74HC259	Harris Hitachi Motorola SGS-Thomson	CD74HC259 HD74HC259 MC74HC259 M74HC259 74HC259 SN74HC259 TC74HC259A	(3674)	MM74HC32	Harris Hitachi Motorola SGS-Thomson	CD74HC32 HD74HC32 MC74HC32 M74HC32 74HC32 SN74HC32 TC74HC32A	(3674)
MM74HC181	Harris SGS-Thomson	CD74HC181 M74HC181 74HC181 TC74HC181A	(3674)	MM74HC238	Harris Motorola SGS-Thomson	CD74HC238 MC74HC238 M74HC238 74HC238 SN74HC238 TC74HC238A	(3674)	MM74HC266	Harris SGS-Thomson	CD74HC266 M74HC266 74HC266 SN74HC266 TC74HC266A		MM74HC323	SGS-Thomson	M74HC323 TC74HC323A	(3674)
MM74HC182	Harris SGS-Thomson	CD74HC182 M74HC182 74HC182 TC74HC182A	(3674)	MM74HC240	Harris Hitachi Motorola SGS-Thomson	CD74HC240 HD74HC240 MC74HC240 M74HC240 74HC240 SN74HC240 TC74HC240A	(3674)	MM74HC273	Harris Hitachi Marconi Motorola	CD74HC273 HD74HC273 74HC273 MC74HC273		MM74HC354	Harris Hitachi Motorola SGS-Thomson	CD74HC354 HD74HC354 MC74HC354 M74HC354 74HC354 SN74HC354 TC74HC354A	(3674)
MM74HC190	Harris Hitachi SGS-Thomson	CD74HC190 HD74HC190 M74HC190 74HC190 SN74HC190 TC74HC190A	(3674)	MM74HC241	Harris Hitachi	CD74HC241 HD74HC241						MM74HC356	Harris Hitachi Motorola SGS-Thomson	CD74HC356 HD74HC356 MC74HC356 M74HC356	

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
MM74HC366	Signetics TI Toshiba	74HC366 SN74HC366 TC74HC366A	(3674)	MM74HC4024	Signetics TI Toshiba	74HC4024 SN74HC4024 TC74HC4024A	(3674)	MM74HC4078	TI Toshiba	SN74HC4078A TC74HC4078A	(3674)	MM74HC533	TI Toshiba	SN74HC533 TC74HC533A	(3674)
MM74HC367	Harris Hitachi Motorola SGS-Thomson	CD74HC367 HD74HC367 MC74HC367 M74HC367 74HC367 SN74HC367 TC74HC367A	(3674)	MM74HC4040	Harris Hitachi Motorola SGS-Thomson	CD74HC4040 HD74HC4040 MC74HC4040 M74HC4040 74HC4040 SN74HC4040 TC74HC4040A	(3674)	MM74HC42	Harris Hitachi Motorola SGS-Thomson	CD74HC42 HD74HC42 MC74HC42 M74HC42 74HC42 SN74HC42 TC74HC42A	(3674)	MM74HC534	Harris Hitachi Motorola SGS-Thomson	CD74HC534 HD74HC534 MC74HC534 M74HC534 74HC534 SN74HC534 TC74HC534A	(3674)
MM74HC368	Harris Hitachi Motorola SGS-Thomson	CD74HC368 HD74HC368 MC74HC368 M74HC368 74HC368 SN74HC368 TC74HC368A	(3674)	MM74HC4046	Harris Motorola Signetics	CD74HC4046A MC74HC4046 74HC4046 74HC4046A	(3674)	MM74HC423A	Hitachi Toshiba	HD74HC423 TC74HC423A	(3674)	MM74HC540	Harris Hitachi Motorola SGS-Thomson	CD74HC540 HD74HC540 MC74HC540 M74HC540 74HC540 SN74HC540 TC74HC540A	(3674)
MM74HC373	Harris Hitachi Motorola SGS-Thomson	CD74HC373 HD74HC373 MC74HC373 M74HC373 74HC373 SN74HC373 TC74HC373A	(3674)	MM74HC4049	Harris Motorola SGS-Thomson	CD74HC4049 MC74HC4049 M74HC4049 74HC4049 TC74HC4049A	(3674)	MM74HC4316	Harris Motorola Signetics	CD74HC4316 MC74HC4316 74HC4316	(3674)	MM74HC541	Harris Hitachi Motorola SGS-Thomson	CD74HC541 HD74HC541 MC74HC541 M74HC541 74HC541 SN74HC541 TC74HC541A	(3674)
MM74HC374	Harris Hitachi Motorola SGS-Thomson	CD74HC374 HD74HC374 MC74HC374 M74HC374 74HC374 SN74HC374 TC74HC374A	(3674)	MM74HC4050	Harris Motorola SGS-Thomson	CD74HC4050 MC74HC4050 MC84HC4050 M74HC4050 74HC4050 TC74HC4050A	(3674)	MM74HC4352	Harris Motorola	CD74HC4352 MC10H119 MC74HC4352 74HC4352 TC74HC4352A	(3674)	MM74HC563	Harris Hitachi Motorola SGS-Thomson	CD74HC563 HD74HC563 MC74HC563 M74HC563 74HC563 SN74HC563 TC74HC563A	(3674)
MM74HC390	Harris Hitachi Motorola SGS-Thomson	CD74HC390 HD74HC390 MC74HC390 M74HC390 74HC390 SN74HC390 TC74HC390A	(3674)	MM74HC4051	Harris Motorola SGS-Thomson	CD74HC4051 MC74HC4051 M74HC4051 74HC4051 TC74HC4051A	(3674)	MM74HC4511	Harris Motorola SGS-Thomson	CD74HC4511 MC74HC4511 M74HC4511 74HC4511 TC74HC4511A	(3674)	MM74HC564	Harris Hitachi Motorola SGS-Thomson	CD74HC564 HD74HC564 MC74HC564 M74HC564 74HC564 SN74HC564 TC74HC564A	(3674)
MM74HC393	Harris Hitachi Motorola SGS-Thomson	CD74HC393 HD74HC393 MC74HC393 M74HC393 74HC393 SN74HC393 TC74HC393A	(3674)	MM74HC4052	Harris Motorola SGS-Thomson	CD74HC4052 MC74HC4052 M74HC4052 74HC4052 TC74HC4052A	(3674)	MM74HC4514	Harris Hitachi Motorola SGS-Thomson	CD74HC4514 HD74HC4514 MC74HC4514 M74HC4514 74HC4514 SN74HC4514 TC74HC4514A	(3674)	MM74HC573	Harris Hitachi Motorola SGS-Thomson	CD74HC573 HD74HC573 MC74HC573 M74HC573 74HC573 SN74HC573 TC74HC573A	(3674)
MM74HC4002	Harris Motorola SGS-Thomson	CD74HC4002 MC74HC4002 M74HC4002 74HC4002 SN74HC4002 TC74HC4002A	(3674)	MM74HC4053	Harris Motorola SGS-Thomson	CD74HC4053 MC74HC4053 M74HC4053 74HC4053 TC74HC4053A	(3674)	MM74HC4515	Harris Signetics TI Toshiba	CD74HC4515 74HC4515 SN74HC4515 TC74HC4515A	(3674)	MM74HC574	Harris Hitachi Motorola SGS-Thomson	CD74HC574 HD74HC574 MC74HC574 M74HC574 74HC574 SN74HC574 TC74HC574A	(3674)
MM74HC4017	Harris Motorola SGS-Thomson	CD74HC4017 MC74HC4017 M74HC4017 74HC4017 SN74HC4017 TC74HC4017	(3674)	MM74HC4060	Harris Motorola SGS-Thomson	CD74HC4060 MC74HC4060 M74HC4060 74HC4060 SN74HC4060 TC74HC4060A	(3674)	MM74HC4538	Harris Motorola SGS-Thomson	CD74HC4538 MC74HC4538 M74HC4538 74HC4538 TC74HC4538A	(3674)	MM74HC58	Motorola	MC74HC58	
MM74HC4020	Harris Hitachi Motorola SGS-Thomson	CD74HC4020 HD74HC4020 MC74HC4020 M74HC4020 74HC4020 SN74HC4020 TC74HC4020	(3674)	MM74HC4066	Harris Motorola SGS-Thomson	CD74HC4066 MC74HC4066 M74HC4066 74HC4066 TC74HC4066A	(3674)	MM74HC4543	Harris IDT LogicDev SGS-Thomson	CD74HC4543 IDT71782 L7C172 M74HC4543 74HC4543 TC74HC4543A	(3674)	MM74HC589	Motorola	MC74HC589	
MM74HC4024	Harris Hitachi Motorola SGS-Thomson	CD74HC4024 HD74HC4024 MC74HC4024 M74HC4024	(Continued)	MM74HC4075	Cypress Harris Motorola Panasonic SGS-Thomson	CY7C167A CD74HC4075 MC74HC4075 MN74HC4075 M74HC4075 LH5167 74HC4075 SN74HC4075 TC74HC4075A	(3674)	MM74HC51	Harris Hitachi Motorola SGS-Thomson	CD74HC51 HD74HC51 MC74HC51 MC74HC51 74HC51 SN74HC51 TC74HC51A	(3674)	MM74HC590	TI Toshiba	SN74HC590 TC74HC590A	(3674)
				MM74HC4078	Motorola SGS-Thomson	MC74HC4078 M74HC4078	(Continued)	MM74HC533	Harris Hitachi Motorola SGS-Thomson	CD74HC533 HD74HC533 MC74HC533 M74HC533 74HC533	(Continued)	MM74HC597	Hitachi Motorola SGS-Thomson	CD74HC597 HD74HC597 MC74HC597 M74HC597	(Continued)

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				NMC93CS46 (Cont'd)				NMC9346 (Cont'd)				NMH0026 (Cont'd)			
NMC2816	Xicor	X2816 X2816A	(Cont'd)	ROHM	SGS-Thomson	BR93C46 M9346 ST93CS46 ST93CS47 TS93C46A SC22011	(Cont'd)	OKI	MSM16811 MSM16811RS MSM16911 BR93C46			National	DS0026 SG1626 TeledyneS	TS0426 TSC4426 MB8401 HM6508 IM6508-1 6508	(3643)
NMC4164	IDT	DPS9264 IDT7164L M2164A		Sierra	SGS-Thomson	ST93CS56 ST93CS57		ROHM	SGS-Thomson	M9346 ST93CS46 ST93CS47 TS93C46A SC22011		NM2102	Fujitsu Harris	MM74C929 AM2147 CY7C147 CY7C147 MBM2147 M2147H M2147H	
	Intel	4164-120 (3513)		NMC93CS56	Catalyst	CAT59C11A (3351)		Sierra	SC22011			NM2147	National	MM74C929	
	Krueger	4164-150 (3513)		NMC93C46	Semi	CAT93C46 (3351)		Sierra	SC22304			AMD	AM2147		
	National	4164-200 (3513)		EXEL		CAT93C46A (3351)		Sierra	SC22300			Cypress	CY7C147		
	OKI	F4164 F64K		EXEL		XLS93C46 XL93C46 (3396) XL93C46 (3396)		AMD	AM2864A AM9864 AT28C64 AT28HC64 AT28PC64 AT2864			Fujitsu	MBM2147		
	Panasonic	MM4164A MM4164B		Hyundai	ICT	HY93C46 (3475)		ATMEL				Intel	M2147H		
	Samsung	KM4164A KM4164B		Microchip		93C46C (3505)		Catalyst	CAT28C64A CAT28C65A			Krueger	2147 2147H 2147-35 (3513) 2147-45 (3513) 2147-55 (3513) 2147-70 (3513)		
	Siemens	HYB4164		National		93C46C (3505)		EXEL	XLS2864A XL2864A			National	MM2147 NMC2141 NMC2147H		
NMC5257A	TI	SM4164		OKI		MSM16811 MSM16811RS MSM16911		Fujitsu	MBM28C64 HM58064 HN58C64 HN58C65 HN58C66 HN58064			SGS-Thomson	ET2147 AM2148 CY21L49 CY2148 CY7C148 CY7C149		
NMC5295	AMD	AM9044		ROHM	SGS-Thomson	BR93C46 M9346 ST93CS46 ST93CS47 TS93C46A SC22011		IDT	IDT7M7864 IDT78C64A I2864A 28C64A			Hitachi	HM6148H HM6148HL 2148H		
	Fujitsu	MBM100422A		NMC93C46		9346		Intel	I2864A 28C64A			Intel	2148H		
	Hitachi	HM100422		Sierra	Catalyst	CAT35C102 (3351)		Microchip	M5M28C64			Krueger	2148-35 (3513) 2148-45 (3513) 2148-70 (3513)		
	National	DM100422		ICT		93CX56 (3505) 93C56A (3505)		NEC	μPD28C64			National	NMC2148		
	NEC	F100422		NMC93C66	Sierra	SC22056		OKI	MSM28C64			Performance	P4C149		
	Signetics	μPB100422		Sierra	Catalyst	CAT35C104 (3351)		Samsung	KM28C64 KM2864A DQ2864 DQ2864H			Saratoga	SSM2148		
	Vitesse	VS12G422E		ICT		93CX66 (3505) 93C66A (3505)		SEEQ	DQ52B33 28C64 2864 2864A 2865A			SGS-Thomson	ET2148 AT27C641 AT27HC64 CY7C266 MBM27C64		
NMC6164	Cypress	CY7C182 CY7C185 CY7C186		NMC9306	Sierra	SC22057		Xicor	X28C64 (3744) X28C64M (3744) X2864A (3741)			Fujitsu	MBM27C64		
	EDI	EDI8808		NMC9345	Catalyst	CAT24C44 (3352)		ATMEL	AT27C16 AT28C16 AT28HC16			Microchip	27HC64		
	Fujitsu	MB82B79		Sierra	Catalyst	CAT24C44 (3352)		Catalyst	CAT28C16A			Samsung	KA2153		
	Harris	HM65642		National		COP494 SC22001		EXEL	XL2816A			Sharp	LH5762J LH5763 LH5764J TMS27C49		
	IDT	DPS9264 IDT7164 IDT7164S		Xicor	Catalyst	X2444 (3729)		Harris	HM6617			TI	TA7644BP		
	MicronTech	MT5C6408		OKI		MSM16811 MSM16811RS MSM16911		IDT	IDT78C16A			Waferscale	WS57C49B WS57C64F		
	Mitsubishi	M5M5179		ROHM	SGS-Thomson	BR93C46 M9346 ST93CS46 ST93CS47 TS93C46A SC22011		Microchip	28C16A NMC2816 NM9816						
	Mosel	MS6264		NMC9346	Sierra	SC22011		National	NMC2816 NM9816			Catalyst	CAT71C256 CAT71C256L		
	Motorola	MCM6264 MCM6265		EXEL		XLS93C46 XL93C46 (3396) XL93C46 (3396)		Rockwell	R2816A			Cypress	CY7C197		
	NEC	μPD4364		Hyundai	ICT	HY93C46 (3475)		Samsung	KM2816A			Dense-Pac	DPS92256 DPS92256L		
	Performance	P4C164		Microchip		93C46C (3505)		SEEQ	M2816A 2816 2816A			GoldStar	GM76C256		
	SGS-Thomson	IMS1630		National		93C46C (3505)		Xicor	X2816A			Hitachi	HM61256 HM62256 HM64456		
	Sony	CKX55863		OKI		MSM16811 MSM16811RS MSM16911		ATMEL	AT28C16 AT28C17 AT28HC16			Hyundai	HY62C256 HY63C256 HY63C256L		
	Toshiba	TMM2088P		ROHM	SGS-Thomson	BR93C46 M9346 ST93CS46 ST93CS47 TS93C46A SC22011		Catalyst	28C17			Inova	S32K8		
	UMC	UM6164		NMC9346	Sierra	SC22011		Rsch				IDT	IDT7M856S IDT71256L IDT71256S IDT8M824		
	Vitellic	V63C64P		EXEL		XLS93C46 XL93C46 (3396) XL93C46 (3396)		Catalyst	CAT28C16A			LogicDev	L7C199		
	VLSI Tech	VT20C98		Hyundai	ICT	HY93C46 (3475)		EXEL	XL2817A			MicronTech	MT5C2568		
	Cypress	CY7C147		Microchip		93C46C (3505)		Microchip	28C17A			Mitsubishi	M5M5256		
	Harris	HM6504		National		93C46C (3505)		National	NM9817			Mosel	MS62256		
	Hitachi	HM4315		OKI		MSM16811 MSM16811RS MSM16911		OKI	MSM2816			Motorola	MCM60256A		
	Intel	5104		ROHM	SGS-Thomson	BR93C46 M9346 ST93CS46 ST93CS47 TS93C46A SC22011		Samsung	KM2817A			NEC	μPD43256B		
	Mitsubishi	M58981		NMC9346	Sierra	SC22011		SEEQ	DQ2817A			OKI	MSM51257JS MSM51257LRS MSM51257RJ MSM51257RS		
	OKI	MSM5104		EXEL		XLS93C46 XL93C46 (3396) XL93C46 (3396)		Harris	ICL7667			Performance	P4C1256		
	Rockwell	R6504		Hyundai	ICT	HY93C46 (3475)		IXYS	IXLD426 IXLD426 IXLD4426			S-MOS	SRM20256 SRM20256C SRM2257		
	Cypress	CY7C148		Microchip		93C46C (3505)		Maxim	ICL7667			Samsung	KM62256 KM68257		
	Harris	HA5114 HM6514		National		93C46C (3505)		Micrel	TSC426			Sharp	LH52256 LH52259		
	Intel	5114		OKI		MSM16811 MSM16811RS MSM16911		Motorola	MC33151 MC34151 MMH0026						
	Mitsubishi	M58981		ROHM	SGS-Thomson	BR93C46 M9346 ST93CS46 ST93CS47 TS93C46A SC22011									
	OKI	MSM5114		NMC9346	Sierra	SC22011									
	S-MOS	SRM2114C		EXEL		XLS93C46 XL93C46 (3396) XL93C46 (3396)									
	Sanyo	LC3514		Hyundai	ICT	HY93C46 (3475)									
	Signetics	5114		Microchip		93C46C (3505)									
	Harris	HM6518		National		93C46C (3505)									
	National	MM74C930		OKI		MSM16811 MSM16811RS MSM16911									
	Catalyst														
	Semi														
	EXEL														
	Hyundai														
	ICT														
	Microchip														
	National														
	OKI														

* Discontinued

The manufacturers report their devices can be used as direct replacements.
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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALT SOURCE DIRECTORY

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
National Semiconductor (Cont'd)				11C70	Motorola	MC1670		16RP4A	National	PAL16R4A	(Cont'd)	♦ 1809	Lansdale	ML1809		
TP3040	SGS-Thomson	ETC5040	(Cont'd)	11C90	Plessey	SP1670				16RP4B2		♦ 1810	Lansdale	ML1810		
		TI	TCM2912C			Plessey	SP8680				16R4A		♦ 1811	Lansdale	ML1811	
		Sierra	SC11305		11C91		SP8685			Samsung	CPL16R4-25		♦ 1812	Lansdale	ML1812	
		Intel	82716		16L8A	AMD	SP8740			TI	TIBPAL16R4A		♦ 1813	Lansdale	ML1813	
		Fujitsu	MB6041				PALCE16V8		16RP4B	National	F16RP4B		♦ 1814	Lansdale	ML1814	
		Harris	CA3054			Cypress	PAL16L8		16RP4B2	AMD	PAL16R4A		2102H	National	MM2102A	
			CD22354				PAL16L8			Gazelle	GA23SV8			Panasonic	MN2102	
			CD22354A				HPL16LC8				GA23S8		2764	ATMEL	AT72HC64	
			2916				HPL16LC8-5			National	PAL16R4A			Hyundai	HY2764	
			Motorola	CA3054			Intel	5C031				16RP4A			Intel	M2764
	Samsung	KT8554				5C032				16R4A			Krueger	2764-200 (3513)		
	SGS-Thomson	ETC5054			Lattice	GAL16V8A		16RP6A	Samsung	CPL16R4-25				2764-250 (3513)		
		SC11306				GAL18V10			TI	TIBPAL16R4A				2764-300 (3513)		
TP3056	Sierra	SC11306			National	GAL16V8			AMD	PAL16R6A			Mitsubishi	M5L2764		
TP3057	Fujitsu	MB6042				PAL16L8			Gazelle	GA23SV8			OKI	MSM2764		
	Harris	CD22357				PAL16L8			National	PAL16R6A			SEEQ	2764		
		CD22357A				16P8A				16RP6B2			TI	TMS27PC64		
	Intel	2917			Samsung	16P8B		16RP6B	Samsung	CPL16R6-25		♦ 29F01	National	TMS2764		
	National	µA3057				CPL16L8		16RP6B2	TI	TIBPAL16R6A				F2901A		
	Samsung	KT8557				CPL16L8-25			National	F16RP6B		29F10	Motorola	MC2910		
	SGS-Thomson	ETC5057				CPL16L8-35			AMD	PAL16R6A		29F52	National	29F53		
		SC11302			SGS-Thomson	CPL16V8			Gazelle	GA23SV8		29F53	National	29F52		
TP3064	Sierra	SC11302			Signetics	GAL16V8			National	PAL16R6A		32Z565	Signetics	74F2952		
	Fujitsu	MB6045				PLHS16L8		♦ 16RP8A	Samsung	CPL16R6-25			AMD	AM27S49		
	Intel	2913				PLUS16L8			TI	TIBPAL16R6A				27S49		
	Motorola	MC14400-5			TI	TIBPAL16H8			AMD	TIBPAL16R8A			ATMEL	AT27HC641		
	Samsung	KT8564				TIBPAL16L8		♦ 16RP8A	Gazelle	PAL16R8A			Cypress	AT27HC642		
	SGS-Thomson	ETC5064		16P8A	AMD	TIBPAL16L8-20				GA23SV8				CY7C261		
		SC11311				PALCE16V8		♦ 16RP8A	National	GA23S8				CY7C263		
	Fujitsu	MB6046				PAL16L8				PAL16R8A				CY7C264		
TP3067	Fujitsu	MB6046			Cypress	PALC16L8				16RP8B2			Fujitsu	MBM7144		
	Samsung	KT8567				PAL16L8		♦ 16RP8A	Samsung	16R8A				MB7144		
	SGS-Thomson	ETC5067			Harris	HPL16LC8			TI	CPL16R8-25			ICT	27CX641		
		SC11312				HPL16LC8-5		16RP8B	National	TIBPAL16R8A			Microchip	27HC641		
TP3155	Sierra	SC11312			Intel	5C031		16RP8B2	AMD	F16RP8B			National	27HC641		
TP5089	Samsung	KT8555				5C032			Gazelle	PAL16R8A				93Z665		
	Samsung	KS5808			Lattice	GAL16V8A				GA23SV8				93Z665C		
		MK5089				GAL18V10			National	GA23S8				93Z667		
	Sharp	LR4089				GAL16V8				PAL16R8A				93Z667C		
	STC	STC5089				PAL16L8		16R4A	Samsung	16R8A			NEC	µPD27HC65		
TP50981	TI	TCM5089				16L8A			TI	CPL16R8-25			Sharp	LH5749		
	Marconi	52981				16P8B			AMD	TIBPAL16R8A			Signetics	LH5749J		
	Samsung	KS58C05			Samsung	CPL16L8			Gazelle	PAL16R4A				N82HS641		
		KS5804				CPL16L8-25				GA23SV8				27HC641		
	UMC	UM9151				CPL16L8-35			National	GA23S8				27HC642		
TP5116	Intel	2910				CPL16V8				PAL16R4A				82HS641		
	National	µA5116			SGS-Thomson	PAL16V8				16RP4A			SiliconSys	SS1203		
		5116				PLHS16L8			Samsung	16RP4B2			TI	TMS278C49		
	Samsung	KT5116			Signetics	PLHS18P8		16R6A	TI	CPL16R4-25			Waferscale	WS57C49		
	SGS-Thomson	M5116				PLUS16L8			AMD	TIBPAL16R4A				WS57C49B		
TP5156	Marconi	MA556			TI	TIBPAL16H8			Gazelle	PAL16R6A		3262	Lansdale	NL3262		
	National	5156				TIBPAL16L8				GA23SV8		3341	Cypress	CY3341		
	SGS-Thomson	M5156				TIBPAL16L8-20			National	PAL16R6A			Lansdale	NL3341		
TP5380	LogicDev	L53C80			AMD	PALCE16V8				16RP6A		♦ 3341A	National	CY3341AC		
		L5380				PAL16L8			Samsung	16RP6B2			Plessey	MJ2841		
	NCR	NCR53C80			Cypress	PALC16L8		16R8A	TI	CPL16R6-25			Cypress	CY3341		
		NCR5380				PAL16L8			AMD	TIBPAL16R6A			Lansdale	NL3341		
		NMOS5380				HPL16LC8			Gazelle	PAL16R8A			National	CY3341AC		
	Newbridge	CA53C80	(3569)			HPL16LC8-5				GA23SV8		♦ 3341A		3341		
	Samsung	KS53C80			Intel	5C031			National	GA23S8			Plessey	MJ2841		
		KS5810				5C032				PAL16R8A			Lansdale	NL3342		
♦ U3180051	Lansdale	ML1900				GAL16V8A			Samsung	16RP8B2			Lansdale	NL3347		
♦ U3180151	Lansdale	ML1901			Lattice	GAL18V10		1621	TI	CPL16R8-25			Lansdale	NL3348		
♦ U3180251	Lansdale	ML1902				GAL16V8			AMD	TIBPAL16R8A			Lansdale	NL3349		
♦ U3180351	Lansdale	ML1903			National	PAL16L8			Cypress	AM99C6404			Lansdale	NL3351		
♦ U3180451	Lansdale	ML1904				16L8A			Dense-Pac	CY7C164			Lansdale	NL3357		
♦ U3180551	Lansdale	ML1905				16P8A			EDI	DPS8M464			Lansdale	NL3413		
♦ U3180651	Lansdale	ML1906			Samsung	PAL16L8			Hitachi	HN6288			Lansdale	NL3418		
♦ U3180751	Lansdale	ML1907				CPL16L8-25			IDT	HN6288			Lansdale	NL3466		
♦ U3180851	Lansdale	ML1908				CPL16L8-35			IDT	IDT6198			Lansdale	NL3499		
♦ U3180951	Lansdale	ML1909				CPL16V8				IDT7188L			Lansdale	NL3708		
♦ U3181051	Lansdale	ML1910			SGS-Thomson	GAL16V8			Intel	M51C98			Lansdale	NL3844		
♦ U3181151	Lansdale	ML1911				PLHS16L8			LogicDev	L7C164			Lansdale	NL3845		
♦ U3181251	Lansdale	ML1912			Signetics	PLHS18P8				L7C166			Intel	2910		
♦ U3181451	Lansdale	ML1914				PLUS16L8			MicronTech	MT5C6404			National	µA5116		
♦ U3181651	Lansdale	ML1916				TIBPAL16H8			Motorola	MCM6289				TP5116		
100Z416	Fujitsu	MB100149	(3608)			TIBPAL16L8			National	F100181			Samsung	KT5116		
	Signetics	100149			TI	TIBPAL16L8-20			S-MOS	SRM2274			SGS-Thomson	M5116		
		100149A		16P8B2	AMD	PAL16L8A		♦ 1800	Toshiba	TC64KS4		5156	Marconi	MA556		
11C01	Motorola	MC1688				PAL16L8A		♦ 1801	VLSI Tech	CT64KS4			National	TP5156		
11C05	Motorola	MC1699			National	PAL16L8A		♦ 1802	Lansdale	ML1800						
	Plessey	SP8610			Samsung	CPL16L8-25		♦ 1803	Lansdale	ML1801		54AC00	Plessey	LM385-1.2		
		SP8616			TI	TIBPAL16L8-30		♦ 1804	Lansdale	ML1803			TeledyneS	REF12		
11C06	Motorola	MC1690		16RP4A	AMD	TIBPAL16L8A		♦ 1805	Lansdale	ML1804			Gould AMI	TSC04		
♦ 11C24	Lansdale	ML4324				PAL16R4A		♦ 1806	Lansdale	ML1805		54AC158		PEEL20C610		
♦ 11C44	Lansdale	ML4344			Gazelle	GA23SV8		♦ 1807	Lansdale	ML1806				(3442)		
			(Continued)			GA23S8	(Continued)	♦ 1808	Lansdale	ML1807	(Continued)		Harris	CD54AC158	(Continued)	

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				54F242	Motorola	MC54F242		54HC132	Harris	CD54HC132		54LS08			(Cont'd)
54AC158	ICT	PEEL20CG10	(3442)	54F243	Motorola	MC54F243			Motorola	MC54HC132		54LS09	Signetics	54LS08	
					Motorola	SN54F243			National	MM54HC132			TI	SN54LS08	
54AC174	Gould AMI	PEEL20CG10	(3442)	54F244	Motorola	MC54F244		54HC243	Harris	CD54HC243		54LS10	Motorola	SN54LS09	
					Signetics	54F244			Motorola	MC54HC243			TI	SN54LS09	
54F00	National	Samsung	SGS-Thomson	54F245	Motorola	MC54F245		54HC688	Harris	CD54HC688		54LS109	Motorola	SN54LS10	
					Signetics	54F245			Motorola	MC54HC688			TI	SN54LS10	
54F02	Motorola	MC54F02		54F251	TI	SN54F251A			Motorola	MC54HC688		54LS11	SGS-Thomson	T54LS09	
					Signetics	54F251			National	MM54HC688			TI	SN54LS09	
54F04	Motorola	MC54F04		54F253	Signetics	54F253		54H00	Lansdale	ML3100 (3514)		54LS109	Signetics	54LS10	
					Motorola	MC54F02			TI	SN54H00			TI	SN54LS10	
54F08	Motorola	MC54F08		54F257	Motorola	MC54F257		54H01	Lansdale	ML3104 (3514)		54LS11	Motorola	SN54LS109	
					Signetics	54F257			TI	SN54H01			TI	SN54LS109	
54F10	Motorola	MC54F10		54F258	Motorola	MC54F258		54H04	Lansdale	ML3108 (3514)		54LS112	Signetics	SN54LS109A	
					Signetics	54F258			TI	SN54H08			TI	SN54LS109A	
54F109	Motorola	MC54F109		54F258A	Signetics	54F258A		54H05	Lansdale	ML3109 (3514)		54LS113	Motorola	SN54LS11	
					Signetics	54F258A			TI	SN54H09			TI	SN54LS11	
54F11	Motorola	MC54F11		54F273	Signetics	54F273		54H10	Lansdale	ML3105 (3514)		54LS112	SGS-Thomson	DM54LS11	
					Motorola	MC54F08			TI	SN54H10			TI	SN54LS11	
54F112	Motorola	MC54F112		54F280	Motorola	MC54F280		54H101	Lansdale	ML54H101		54LS125A	Motorola	SN54LS112A	
					Signetics	54F280			TI	SN54H101			TI	SN54LS112A	
54F125	Signetics	54F125		54F283	Motorola	MC54F283		54H11	Lansdale	ML3106 (3514)		54LS13	SGS-Thomson	T54LS112	
					Signetics	54F283			TI	SN54H11			TI	SN54LS112	
54F138	Motorola	MC54F138		54F299	TI	SN54F299		54H20	Lansdale	SL54H11		54LS136	Motorola	SN54LS125A	
					Signetics	54F299			TI	SN54H20			TI	SN54LS125A	
54F139	Motorola	MC54F139		54F30	TI	SN54F30		54H22	Lansdale	ML3112 (3514)		54LS126	Motorola	SN54LS126	
					Signetics	54F30			TI	SN54H22			TI	SN54LS126	
54F151	Motorola	MC54F151A		54F32	Signetics	54F32		54H30	Lansdale	ML3116 (3514)		54LS133	SGS-Thomson	T54LS113	
					Signetics	54F32			TI	SN54H30			TI	SN54LS113	
54F153	Motorola	MC54F153		54F350	Motorola	MC54F350		54H40	Lansdale	ML3124 (3514)		54LS139	Motorola	SN54LS136	
					Signetics	54F350			TI	SN54H40			TI	SN54LS136	
54F157	Motorola	MC54F157		54F365	Signetics	54F365		54H50	Lansdale	ML3125 (3514)		54LS138	Motorola	SN54LS138	
					Signetics	54F365			TI	SN54H50			TI	SN54LS138	
54F158	Motorola	MC54F158		54F37	Signetics	54F37		54H51	Lansdale	ML3123 (3514)		54LS139	SGS-Thomson	T54LS138	
					Signetics	54F37			TI	SN54H51			TI	SN54LS138	
54F158A	Signetics	54F158A		54F373	Motorola	MC54F373		54H52	Lansdale	ML3131 (3514)		54LS14	Motorola	SN54LS139	
					Signetics	54F373			TI	SN54H52			TI	SN54LS139	
54F161A	Signetics	54F161A		54F374	Motorola	MC54F374		54H53	Lansdale	ML3132 (3514)		54LS15	Motorola	SN54LS14	
					Signetics	54F374			TI	SN54H53			TI	SN54LS14	
54F163A	Signetics	54F163A		54F381	Motorola	MC54F381		54H54	Lansdale	ML3131 (3514)		54LS151	Motorola	SN54LS151	
					Signetics	54F381			TI	SN54H54			TI	SN54LS151	
54F164	Signetics	54F164		54F382	Motorola	MC54F382		54H55	Lansdale	ML3131 (3514)		54LS152	SGS-Thomson	DM54LS15	
					Signetics	54F382			TI	SN54H55			TI	DM54LS15	
54F169	Signetics	54F169		54F398	Signetics	54F398		54H56	Lansdale	ML3131 (3514)		54LS151	Motorola	SN54LS151	
					Signetics	54F398			TI	SN54H56			TI	SN54LS151	
54F174	Signetics	54F174		54F399	Signetics	54F399		54H71	Lansdale	ML3131 (3514)		54LS152	Motorola	SN54LS152	
					Signetics	54F399			TI	SN54H71			TI	SN54LS152	
54F175	Signetics	54F175		54F51	Motorola	MC54F51		54H72	Lansdale	ML3131 (3514)		54LS152	Motorola	SN54LS152	
					Signetics	54F51			TI	SN54H72			TI	SN54LS152	
54F181	Signetics	54F181		54F521	Motorola	MC54F521		54H73	Lansdale	ML3131 (3514)		54LS152	Motorola	SN54LS152	
					Signetics	54F521			TI	SN54H73			TI	SN54LS152	
54F189	AMD	AM27LS03		54F533	Motorola	MC54F533		54H74	Lansdale	ML3131 (3514)		54LS152	Motorola	SN54LS152	
					Signetics	54F533			TI	SN54H74			TI	SN54LS152	
54F190	Cypress	CY27LS03M		54F534	Motorola	MC54F534		54LS00	Motorola	SN54LS00		54LS152	Motorola	SN54LS152	
					Signetics	54F534			National	DM54LS00			TI	SN54LS152	
54F191	Cypress	CY27S03		54F538	Signetics	54F538		54LS02	Signetics	T54LS02		54LS152	Motorola	SN54LS152	
					Signetics	54F538			TI	SN54LS02			TI	SN54LS152	
54F193	National	DM74S189		54F543	TI	SN54F543		54LS03	Motorola	SN54LS03		54LS152	Motorola	SN54LS152	
					Signetics	54F543			National	DM54LS03			TI	SN54LS152	
54F194	National	DM75S07		54F544	Signetics	54F544		54LS04	Motorola	SN54LS04		54LS152	Motorola	SN54LS152	
					Signetics	54F544			TI	SN54LS04			TI	SN54LS152	
54F198	Motorola	MC54F20		54F557	LogicDev	LMU557		54LS05	Motorola	SN54LS05		54LS152	Motorola	SN54LS152	
					Signetics	54F557			National	DM54LS05			TI	SN54LS152	
54F20	Motorola	MC54F20		54F573	Signetics	54F573		54LS08	Motorola	SN54LS08		54LS152	Motorola	SN54LS152	
					Signetics	54F573			TI	SN54LS08			TI	SN54LS152	
54F219	AMD	AM27S07		54F574	Signetics	54F574		54LS09	Motorola	SN54LS09		54LS152	Motorola	SN54LS152	
					Signetics	54F574			TI	SN54LS09			TI	SN54LS152	
54F240	Cypress	CY7C189		54F620	Signetics	54F620		54LS10	Motorola	SN54LS10		54LS152	Motorola	SN54LS152	
					Signetics	54F620			TI	SN54LS10			TI	SN54LS152	
54F241	National	DM75S07		54F623	Signetics	54F623		54LS11	Motorola	SN54LS11		54LS152	Motorola	SN54LS152	
					Signetics	54F623			TI	SN54LS11			TI	SN54LS152	
54F242	Motorola	MC54F241		54F64	Signetics	54F64		54LS12	Motorola	SN54LS12		54LS152	Motorola	SN54LS152	
					Signetics	54F64			TI	SN54LS12			TI	SN54LS152	
54F243	Motorola	MC54F241		54F66	Signetics	54F66		54LS13	Motorola	SN54LS13		54LS152	Motorola	SN54LS152	
					Signetics	54F66			TI	SN54LS13			TI	SN54LS152	
54F244	Motorola	MC54F241		54F67	Signetics	54F67		54LS14	Motorola	SN54LS14		54LS152	Motorola	SN54LS152	
					Signetics	54F67			TI	SN54LS14			TI	SN54LS152	
54F245	Motorola	MC54F241		54F74	Signetics	54F74		54LS15	Motorola	SN54LS15		54LS152	Motorola	SN54LS152	
					Signetics	54F74			TI	SN54LS15			TI	SN54LS152	
54F246	Motorola	MC54F241		54F77	Signetics	54F77		54LS16	Motorola	SN54LS16		54LS152	Motorola	SN54LS152	
					Signetics	54F77			TI	SN54LS16			TI	SN54LS152	
54F247	Motorola	MC54F241		54F79	Signetics	54F79		54LS17	Motorola	SN54LS17		54LS152	Motorola	SN54LS152	
					Signetics	54F79			TI	SN54LS17			TI	SN54LS152	
54F248	Motorola	MC54F241		54F80	Signetics	54F80		54LS18	Motorola	SN54LS18		54LS152	Motorola	SN54LS152	
					Signetics	54F80			TI	SN54LS18			TI	SN54LS152	
54F249	Motorola	MC54F241		54F81	Signetics	54F81		54LS19	Motorola	SN54LS19		54LS152	Motorola	SN54LS152	
					Signetics	54F81			TI	SN54LS19			TI	SN54LS152	
54F250	Motorola	MC54F241		54F82	Signetics	54F82		54LS20	Motorola	SN54LS20		54LS152	Motorola	SN54LS152	
					Signetics	54F82			TI	SN54LS20			TI	SN54LS152	
54F251	Motorola	MC54F241		54F83	Signetics	54F83		54LS21	Motorola	SN54LS21		54LS152	Motorola	SN54LS152	
					Signetics	54F83			TI	SN54LS21			TI	SN54LS152	
54F252	Motorola	MC54F241		54F84	Signetics	54F84		54LS22	Motorola	SN54LS22		54LS152	Motorola	SN54LS152	
					Signetics	54F84			TI	SN54LS22			TI	SN54LS152	
54F253	Motorola	MC54F241		54F85	Signetics	54F85		54LS23	Motorola	SN54LS23		54LS152	Motorola	SN54LS152	
					Signetics	54F85			TI	SN54LS23			TI	SN54LS152	
54F254	Motorola	MC54F241		54F86	Signetics	54F86		54LS24	Motorola	SN54LS24		54LS152	Motorola	SN54LS152	
					Signetics	54F86			TI	SN54LS24			TI	SN54LS152	
54F255	Motorola	MC54F241		54F87	Signetics	54F87		54LS25	Motorola	SN54LS25		54LS152	Motorola	SN54LS152	
					Signetics	54F87			TI	SN54LS25			TI	SN54LS152	
54F256	Motorola	MC54F241		54F88	Signetics	54F88		54LS26	Motorola	SN54LS26		54LS152	Motorola	SN54LS152	
					Signetics	54F88			TI	SN54LS26			TI	SN54LS152	
54F257	Motorola	MC54F241		54F89	Signetics	54F89		54LS27	Motorola	SN54LS27		54LS152	Motorola	SN54LS152	
					Signetics	54F89			TI	SN54LS27			TI	SN54LS152	
54F258	Motorola	MC54F241		54F90	Signetics	54F90		54LS28	Motorola	SN54LS28		54LS152	Motorola	SN54LS152	
					Signetics	54F90			TI	SN54LS28			TI	SN54LS152	
54F259	Motorola	MC54F241		54F91	Signetics	54F91		54LS29	Motorola	SN54LS29		54LS152	Motorola	SN54LS152	
					Signetics	54F91			TI	SN54LS29			TI		

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National Semiconductor (Cont'd)				54LS174	Motorola National SGS-Thomson	SN54LS174 DM54LS174 T54LS174		54LS258A	Motorola TI SGS-Thomson	SN54LS258A SN54LS258B SN54LS259		54LS366A	SGS-Thomson	(Cont'd)	
54LS152	LogicDev	(Cont'd)						54LS259							
		L7C165													
		L7C166													
	Mitsubishi	M5M5189		54LS175	Signetics TI	SN54LS174 SN54LS174 SN54LS175		54LS26	TI Motorola National SGS-Thomson	T54LS259 SN54LS259B SN54LS26 DM54LS26		54LS367A	TI Motorola National SGS-Thomson	T54LS366 SN54LS366A SN54LS367A DM54LS367	
		M5M5189AP													
	Motorola	MCM6290													
	NEC	μPD4363													
	Performance	P4C190													
	S-MOS	SRM2275		54LS181	Motorola SGS-Thomson	SN54LS175 SN54LS181		54LS260	TI Motorola SGS-Thomson	SN54LS26 SN54LS260A		54LS368A	Signetics TI Motorola National SGS-Thomson	T54LS367 54LS367A SN54LS367A SN54LS368A DM54LS368	
	Saratoga	SSM7166													
	SGS-Thomson														
		IMS1624													
		T54LS152		54LS181	TI	T54LS181		54LS266	Motorola National SGS-Thomson	T54LS260 SN54LS266 DM54LS266		54LS37	TI Motorola National SGS-Thomson	T54LS368 SN54LS368A SN54LS37 DM54LS37	
	Sony	CXK5465P		54LS192	Motorola National SGS-Thomson	SN54LS192 DM54LS192									
	Toshiba	TC55417													
	Vitelco	V61C62													
	VLSI Tech	VT65K54		54LS193	TI	T54LS192 SN54LS192 SN54LS193 DM54LS193		54LS27	TI Motorola National SGS-Thomson	T54LS266 SN54LS266 SN54LS27 DM54LS27		54LS374	TI Motorola National SGS-Thomson	T54LS37 SN54LS37 SN54LS37A SN54LS374 DM54LS374	
54LS153	Motorola National SGS-Thomson	SN54LS153 DM54LS153													
		T54LS153													
54LS155	TI Motorola National SGS-Thomson	SN54LS153 SN54LS155 DM54LS155		54LS194A	Signetics TI	T54LS193 SN54LS193 SN54LS194A		54LS273	Motorola National SGS-Thomson	SN54LS273 DM54LS273		54LS375	Signetics TI	54LS374 SN54LS374	
		T54LS155													
54LS156	TI Motorola National SGS-Thomson	SN54LS155A SN54LS156 DM54LS156		54LS195A	TI	T54LS194 SN54LS194A SN54LS195A DM54LS195A		54LS279	Signetics TI Motorola National SGS-Thomson	SN54LS273 SN54LS273 SN54LS279 DM54LS279		54LS377	TI Motorola National SGS-Thomson	T54LS377 SN54LS377 SN54LS377 DM54LS377	
		T54LS156													
54LS157	TI Motorola National SGS-Thomson	SN54LS156 SN54LS157 DM54LS157		54LS20	Signetics TI	T54LS195 SN54LS195A SN54LS195A		54LS28	TI Motorola SGS-Thomson	SN54LS279A SN54LS28		54LS378	Signetics TI	54LS377 SN54LS377	
		T54LS157													
54LS158	TI Motorola National SGS-Thomson	SN54LS157 SN54LS158 DM54LS158		54LS21	TI Motorola National SGS-Thomson	SN54LS20 SN54LS20 SN54LS21 DM54LS21		54LS283	TI Motorola National SGS-Thomson	SN54LS28 SN54LS28 SN54LS283 DM54LS283		54LS379	TI Motorola National SGS-Thomson	T54LS378 SN54LS378 SN54LS379 DM54LS379	
		T54LS158													
54LS160A	TI Motorola SGS-Thomson	SN54LS158 SN54LS160A		54LS22	Signetics TI	SN54LS20 SN54LS20 SN54LS21 DM54LS21		54LS295A	TI Motorola SGS-Thomson	SN54LS283 SN54LS283 SN54LS295A		54LS38	TI Motorola National SGS-Thomson	T54LS379 SN54LS379 SN54LS38 DM54LS38	
		T54LS160													
54LS161A	TI Motorola National SGS-Thomson	SN54LS160A SN54LS161A DM54LS161A		54LS24	TI National SGS-Thomson	T54LS21 SN54LS21 DM54LS22		54LS298	TI Motorola National SGS-Thomson	T54LS295 SN54LS295B SN54LS298 DM54LS298		54LS395	TI Motorola SGS-Thomson	T54LS38 SN54LS38 SN54LS395 DM54LS395	
		T54LS161													
54LS162A	Signetics TI Motorola National SGS-Thomson	54LS161A SN54LS161A SN54LS162A DM54LS162A		54LS240	TI Motorola SGS-Thomson	T54LS22 SN54LS22 SN54LS240		54LS299	TI Motorola TI	T54LS298 54LS298 SN54LS298 DM54LS299		54LS40	TI Motorola National SGS-Thomson	T54LS395 SN54LS395A SN54LS40 DM54LS40	
		T54LS162													
54LS163A	TI Motorola National SGS-Thomson	SN54LS162A SN54LS163A DM54LS163 DM54LS163A		54LS241	TI Motorola SGS-Thomson	SN54LS240 SN54LS241		54LS30	TI Motorola National SGS-Thomson	SN54LS299 SN54LS299 SN54LS30 DM54LS30		54LS42	TI Motorola National SGS-Thomson	T54LS40 SN54LS40 SN54LS42 DM54LS42	
		T54LS163													
54LS164	Signetics TI Motorola National SGS-Thomson	54LS163A SN54LS163A SN54LS164 DM54LS164		54LS244	TI Motorola SGS-Thomson	T54LS240 SN54LS241 SN54LS244		54LS32	TI Motorola National SGS-Thomson	T54LS30 SN54LS30 SN54LS32 DM54LS32		54LS47	TI Motorola National SGS-Thomson	T54LS42 SN54LS42 SN54LS47 DM54LS47	
		T54LS164													
54LS165	TI Motorola TI	SN54LS164 SN54LS165 SN54LS165A		54LS245	TI Motorola National SGS-Thomson	T54LS241 SN54LS244 SN54LS245 DM54LS245		54LS322	TI	SN54LS32		54LS48	TI	SN54LS47	
		T54LS165													
54LS168	Motorola National SGS-Thomson	SN54LS165A SN54LS168 DM54LS168		54LS247	TI Motorola National SGS-Thomson	SN54LS245 SN54LS247 DM54LS247		54LS323	TI Motorola National SGS-Thomson	SN54LS322A SN74LS323 74LS323 SN54LS323 SN74LS323		54LS49	TI Motorola National SGS-Thomson	SN54LS48 SN54LS48 SN54LS49 DM54LS49	
		T54LS168													
54LS169	Motorola National SGS-Thomson	SN54LS168 SN54LS169 DM54LS169		54LS248	TI Motorola National SGS-Thomson	T54LS247 SN54LS247 SN54LS248 DM54LS248		54LS33	TI Motorola SGS-Thomson	SN54LS323 SN74LS323 SN54LS33		54LS490	TI Motorola National SGS-Thomson	SN54LS49 SN54LS490 SN54LS51 DM54LS51	
		T54LS169													
54LS170	TI National SGS-Thomson	SN54LS169B DM54LS170		54LS249	TI Motorola National SGS-Thomson	SN54LS248 SN54LS249 DM54LS249		54LS352	TI Motorola National SGS-Thomson	SN54LS33 SN54LS33 SN54LS352 DM54LS352		54LS51	TI Motorola National SGS-Thomson	SN54LS51 SN54LS51 SN54LS51 DM54LS51	
		T54LS170													
54LS173	TI Motorola National Signetics TI	SN54LS170 SN54LS173A DM54LS173 54LS173 SN54LS173A		54LS251	TI Motorola National SGS-Thomson	T54LS251 SN54LS251 SN54LS253 DM54LS253		54LS353	TI Motorola National SGS-Thomson	SN54LS352 SN54LS352 SN54LS353 DM54LS353		54LS54	TI Motorola National SGS-Thomson	SN54LS51 SN54LS51 SN54LS54 DM54LS54	
		T54LS173A													
		(Continued)													

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National Semiconductor (Cont'd)				• 54S472	Lansdale Motorola National	HL7649 LF351 LF157A LF351 LF353 μPC157 29621 KF351 PLS157 LF351 LF353		• 54136 5414	Lansdale Lansdale National TI	ML54136 ML5414 DM5414 SN5414	(3514) (3514)	5425	Lansdale National TI	ML5425 DM5425 SN5425	(3514)
54LS74	Motorola National	SN54LS74A DM54LS74 DM54LS74A		• 54S472	NEC Raytheon Samsung Signetics TI	μPC157 29621 KF351 PLS157 LF351 LF353		54145 • 54146 54150	TI Lansdale Lansdale National TI	SN54145 ML54146 ML54150 DM54150 SN54150	(3514)	• 5426	Lansdale National TI	ML5426 DM5426 SN5426	(3514)
54LS83A	Motorola National SGS-Thomson	T54LS74 54LS74A SN54LS74A SN54LS83A DM54LS83A		• 54S51	National Signetics TI	DM54S51 54S51 SN54S51		54151A	Lansdale National TI	ML54151 DM54151 SN54151A	(3514)	• 5427 54279 54283 • 54290	National TI TI Lansdale	DM5427 SN54279 SN54283 ML54290	(3514)
54LS85	Motorola National Signetics TI	T54LS83 54LS83A SN54LS83A SN54LS85 DM54LS85 54LS85		• 54S570 • 54S571	Lansdale AMD Harris Lansdale Maxim MicroPwr National	HL7620 AM27S13 ICL7621 HL7621 ICL7621 MP7621 DM74S571		• 54152 54153	Lansdale Lansdale National TI	ML54152 ML54153 DM54153 SN54153	(3514) (3514)	5430	Lansdale National TI	ML5430 DM5430 SN5430	(3514)
54LS95B	Motorola National SGS-Thomson	SN54LS85 SN54LS95B DM54LS95B		• 54S571	Signetics	N82S131 S82S131 HL7642 DM54S572 93452		• 54155 54157	National Lansdale National TI	DM54155 ML9322 DM54157 SN54157		5432	Signetics TI	5432 SN5432	
• 54S10	National Signetics TI	T54LS95 SN54LS95B DM54S10 54S10		• 54S572	Lansdale National	DM74S571A N82S131 S82S131 HL7642 DM54S572 93452		• 54160 54161	National Lansdale National Signetics TI	DM54160 ML54161 DM54161 54161 SN54161	(3514)	5440	Lansdale National TI	ML5440 DM5440 SN5440	(3514)
• 54S113	Lansdale National TI	SN54S10 ML3162 DM54S113 SN54S113	(3514)	• 54S573	AMD Fujitsu Lansdale National	AM27S33 MB7122 HL7643 DM74S573		• 54162	Lansdale National TI	ML54162 DM54162 SN54162	(3514)	• 5441 • 5442	Lansdale Lansdale National	ML5441 ML5442 DM5442	(3514)
• 54S114	Lansdale TI	ML3161 SN54S114	(3514)	• 54S64	National TI	DM74S573 DM54S64 SN54S64		• 54163	Lansdale National Signetics TI	ML54163 DM54163 54163 SN54163	(3514)	• 5442 5442A	TI Lansdale National	SN5442A ML5442 DM5442	(3514)
• 54S132	TI	SN54S132		• 54S65	National TI	DM54S64 SN54S65		• 54164	National	DM54163 54163 SN54163		• 5443 • 5444 • 5445	Lansdale Lansdale National	SN5442A ML5443 ML5444 ML5445	(3514)
• 54S133	National Signetics TI	DM54S133 54S133 SN54S133		• 54S74	National Signetics TI	DM54S74 54S74 SN54S74		54165	National National TI	DM54164 DM7570 ML54165 DM54165 SN54165	(3514)	• 5445 • 5446 • 5447	SGS-Thomson Siemens Signetics	DM5445 L602 S042 NE602 SA602	
• 54S134	National Signetics TI	DM54S134 54S134 SN54S134		5400	Lansdale National Signetics TI	SN54S74 ML5400 DM5400 5400 SN5400	(3514)	• 54166 • 5417	Lansdale National Lansdale National	ML54166 DM54166 ML5417 DM5417 SN5417	(3514) (3514)	• 5448 • 5449 • 5450 • 5451	TI National Lansdale National	SN5445 DM5446 ML5447 SN5447A SN5447A SN5448 ML5449 DM5450 ML5451	(3514)
• 54S135	National Signetics TI	DM54S135 54S135 SN54S135		• 5401	Lansdale	DM5401 SN5401 SL5401	(3514)	54170 54173	National National	DM5417 DM54170 DM54173 DM7551 SN54173		• 5448 • 5449 • 5450 • 5451	TI National Lansdale National	SN5445 DM5446 ML5447 SN5447A SN5447A SN5448 ML5449 DM5450 ML5451	(3514)
• 54S138	National Signetics TI	DM54S138 54S138 SN54S138		• 5401	National TI	DM5401 SN5401		• 54176 • 54177	National National	DM5417 DM54170 DM54173 DM7551 SN54173		• 5448 • 5449 • 5450 • 5451	TI National Lansdale National	SN5445 DM5446 ML5447 SN5447A SN5447A SN5448 ML5449 DM5450 ML5451	(3514)
• 54S139	National TI	DM54S139 SN54S139		5402	Lansdale	ML5402 SL5402	(3514)	54174	Lansdale National Signetics TI	ML54174 DM54174 54174 SN54174	(3514)	• 5448 • 5449 • 5450 • 5451	National Lansdale National Lansdale	SN5448 ML5449 DM5450 ML5451	(3514)
• 54S151	National Signetics TI	DM54S151 54S151 SN54S151		• 5403	National TI	DM5402 SN5402	(3514)	54175	Lansdale National Signetics TI	ML54175 DM54175 54175 SN54175	(3514)	• 5448 • 5449 • 5450 • 5451	National Lansdale National	SN5448 ML5449 DM5450 ML5451	(3514)
• 54S153	National Signetics TI	DM54S153 54S153 SN54S153		5404	Lansdale National	DM5403 SN5403 ML5404 DM5404 DM9016C 9016	(3514)	• 54176 • 54177	Lansdale National Lansdale National	DM54175 DM54175 54175 SN54175	(3514) (3514)	• 5448 • 5449 • 5450 • 5451	National Lansdale National	SN5448 ML5449 DM5450 ML5451	(3514)
• 54S157	National Signetics TI	DM54S157 54S157 SN54S157		• 5405	National	DM5404 SN5404 DM9016C 9016		• 54176 • 54177	Lansdale National Lansdale National	DM54175 DM54175 54175 SN54175	(3514) (3514)	• 5448 • 5449 • 5450 • 5451	National Lansdale National	SN5448 ML5449 DM5450 ML5451	(3514)
• 54S158	National Signetics TI	DM54S158 54S158 SN54S158		• 5406	Lansdale National	DM5405 ML5406 DM5406 SN5406	(3514)	• 54176 • 54177	Lansdale TI National	DM54176 ML74176 SN54176 DM54177	(3514) (3514)	• 5448 • 5449 • 5450 • 5451	National Lansdale National	SN5448 ML5449 DM5450 ML5451	(3514)
• 54S175	National TI	DM54S175 SN54S175		• 5407	Lansdale National	ML5407 DM5407 SN5407	(3514)	• 54176 • 54177	TI Signetics	SN54176 DM54177		• 5448 • 5449 • 5450 • 5451	National Lansdale National	SN5448 ML5449 DM5450 ML5451	(3514)
• 54S188	Lansdale	HL7602 ML685		• 5407	Lansdale National	ML5407 DM5407 SN5407	(3514)	• 54176 • 54177	TI Signetics	SN54176 DM54177		• 5448 • 5449 • 5450 • 5451	National Lansdale National	SN5448 ML5449 DM5450 ML5451	(3514)
• 54S194	National TI	DM54S194 SN54S194		• 5408	Lansdale	ML3101 ML5408	(3514) (3514)	• 54176 • 54177	Lansdale National	ML54176 ML74176		• 5448 • 5449 • 5450 • 5451	National Lansdale National	SN5448 ML5449 DM5450 ML5451	(3514)
• 54S20	National Signetics TI	DM54S20 54S20 SN54S20		• 5409	National Lansdale	DM5408 SN5408 ML5409 SL5409	(3514)	• 54176 • 54177	Lansdale National	ML54176 ML74176		• 5448 • 5449 • 5450 • 5451	National Lansdale National	SN5448 ML5449 DM5450 ML5451	(3514)
• 54S258	National TI	DM54S258 SN54S258		• 5410	National Lansdale	DM5409 SN5409 ML5410 DM5410	(3514)	• 54176 • 54177	Lansdale National	ML54176 ML74176		• 5448 • 5449 • 5450 • 5451	National Lansdale National	SN5448 ML5449 DM5450 ML5451	(3514)
• 54S280	National TI	DM54S280 SN54S280		• 5410	National Lansdale	DM5409 SN5409 ML5410 DM5410	(3514)	• 54176 • 54177	Lansdale National	ML54176 ML74176		• 5448 • 5449 • 5450 • 5451	National Lansdale National	SN5448 ML5449 DM5450 ML5451	(3514)
• 54S288	AMD	AM27LS19 AM27S19 27S19		• 54100	Lansdale	ML54100 SL54100	(3514)	• 54176 • 54177	Lansdale National	ML54176 ML74176		• 5448 • 5449 • 5450 • 5451	National Lansdale National	SN5448 ML5449 DM5450 ML5451	(3514)
• 54S288	Fujitsu Lansdale National	MB7112 HL7603 DM74S288		• 54107 54121	National Lansdale National	DM54107 ML54121 DM54121 SN54121	(3514)	• 54176 • 54177	Lansdale National	ML54176 ML74176		• 5448 • 5449 • 5450 • 5451	National Lansdale National	SN5448 ML5449 DM5450 ML5451	(3514)
• 54S288	Signetics	DM8578 N82S123 N82US123 82S123		• 54122	Lansdale TI	ML54121 DM54121 SN54121	(3514)	• 54176 • 54177	Lansdale National	ML54176 ML74176		• 5448 • 5449 • 5450 • 5451	National Lansdale National	SN5448 ML5449 DM5450 ML5451	(3514)
• 54S30	National TI	DM54S30 SN54S30		• 54123	Lansdale Mitsubishi	ML54121 DM54121 SN54121	(3514)	• 54176 • 54177	Lansdale National	ML54176 ML74176		• 5448 • 5449 • 5450 • 5451	National Lansdale National	SN5448 ML5449 DM5450 ML5451	(3514)
• 54S387	Lansdale	HL7610		• 54125	National	DM54125 DM7093		• 54176 • 54177	Lansdale National	ML54176 ML74176		• 5448 • 5449 • 5450 • 5451	National Lansdale National	SN5448 ML5449 DM5450 ML5451	(3514)
• 54S40	National Signetics TI	DM54S40 54S40 SN54S40		• 54125	National	DM54125 DM7093		• 54176 • 54177	Lansdale National	ML54176 ML74176		• 5448 • 5449 • 5450 • 5451	National Lansdale National	SN5448 ML5449 DM5450 ML5451	(3514)
• 54S472	AMD AD	OP15 PM157 PM157A		• 5413	National	DM5413		• 54176 • 54177	Lansdale National	ML54176 ML74176		• 5448 • 5449 • 5450 • 5451	National Lansdale National	SN5448 ML5449 DM5450 ML5451	(3514)
(Continued)				• 54132	National	DM54132		• 54176 • 54177	Lansdale National	ML54176 ML74176		• 5448 • 5449 • 5450 • 5451	National Lansdale National	SN5448 ML5449 DM5450 ML5451	(3514)

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National Semiconductor (Cont'd)				74AC1010	Weitek	WTL1010 WTL2010 WTL2245		74F160	Motorola Signetics TI	MC74F160 74F160 SN74F160		74F273	Signetics TI	74F273 SN74F273	
5493	National	DM5493		74AC109	Harris	CD74AC109		74F161	Motorola Signetics TI	MC74F161 74F161 SN74F161		74F280	Motorola Signetics TI	MC74F280 74F280A SN74F280	
5494	Lansdale	ML5494	(3514)	74AC138	Harris	CD74AC138		74F162	Motorola Signetics TI	MC74F162 74F162 SN74F162		74F283	Motorola Signetics TI	MC74F283 74F283 SN74F283	
5495	National	DM5495		74AC139	Harris	CD74AC139		74F163	Motorola Signetics TI	MC74F163 74F163 SN74F163		74F293	Signetics	74F293	
5496	National	DM5496		74AC151	Harris	CD74AC151		74F164	Motorola Signetics	MC74F164 74F164		74F298	Signetics	74F298	
5497	Lansdale	ML5497	(3514)	74AC153	Harris	CD74AC153		74F168	Motorola Signetics TI	MC74F168 74F168 SN74F168		74F299	Signetics TI	74F299 SN74F299	
55107	National	DS55107		74AC157	Harris	CD74AC157		74F169	Motorola Signetics TI	MC74F169 74F169 SN74F169		74F30	Signetics TI	74F30 SN74F30	
55107	TI	SN55107A		74AC158	Harris	CD74AC158		74F174	Motorola Signetics	MC74F174 74F174		74F30244	Signetics	74F30244	
55108	National	DS55108		74AC161	Harris	CD74AC161		74F181	Motorola Signetics TI	MC74F181 74F181 SN74F181		74F3037	Signetics	74F3037	
55110	TI	SN55107B		74AC163	Harris	CD74AC163		74F182	Motorola Signetics	MC74F182 74F182		74F3040	Signetics TI	74F3040 MC74F32	
55110	National	DM55108A		74AC174	Harris	CD74AC174		74F189	Cypress Motorola Signetics	CY7C189 MC74F189 74F189A		74F322	Signetics	74F322	
55450	SiliconG	SG55450		74AC175	Harris	CD74AC175		74F190	Signetics	74F190		74F323	Motorola Signetics	MC74F323 74F323	
55451	SiliconG	SG55450B	(3643)	74AC191	Harris	CD74AC191		74F193	Signetics	74F193		74F350	Motorola Signetics	MC74F350 74F350	
55451	TI	SN55451		74AC20	Harris	CD74AC20		74F194	Motorola Signetics	MC74F194 74F194		74F352	Motorola Signetics	MC74F352 74F352	
55452	National	DM55452		74AC224	Harris	CD74AC224		74F195	Motorola Signetics	MC74F195 74F195		74F353	Motorola Signetics	MC74F353 74F353	
55453	National	DM55453		74AC245	Harris	CD74AC245		74F199	Signetics	74F199		74F365	Signetics	74F365	
55454	SiliconG	SG55454		74AC251	Harris	CD74AC251		74F200	Motorola Signetics	MC74F200 74F200		74F366	Signetics	74F366	
55454	TI	SN55454		74AC253	Harris	CD74AC253		74F201	Motorola Signetics	MC74F201 74F201		74F367	Signetics	74F367	
74ACT00	Harris	CD74ACT00		74AC257	Harris	CD74AC257		74F202	Motorola Signetics	MC74F202 74F202		74F368	Signetics	74F368	
74ACT04	Harris	CD74ACT04		74AC258	Harris	CD74AC258		74F209	Motorola Signetics	MC74F209 74F209		74F373	Motorola Signetics	MC74F373 74F373	
74ACT08	Harris	CD74ACT08		74AC259	Harris	CD74AC259		74F219	AMD Cypress	AM27S07 CY27S07		74F374	Motorola Signetics	MC74F374 74F374	
74ACT109	Harris	CD74ACT109		74AC264	National	74AC264		74F240	Motorola Signetics	MC74F240 74F240		74F377	Signetics	74F377	
74ACT138	Harris	CD74ACT138		74AC264	TI	74AC264		74F241	Motorola Signetics	MC74F241 74F241		74F378	Motorola Signetics	MC74F378 74F378	
74ACT139	Harris	CD74ACT139		74AC264	TI	74AC264		74F242	Motorola Signetics	MC74F242 74F242		74F379	Motorola Signetics	MC74F379 74F379	
74ACT151	Harris	CD74ACT151		74AC264	TI	74AC264		74F243	Motorola Signetics	MC74F243 74F243		74F38	Signetics	74F38	
74ACT153	Harris	CD74ACT153		74AC264	TI	74AC264		74F244	Motorola Signetics	MC74F244 74F244		74F381	Motorola Signetics	MC74F381 74F381	
74ACT157	Harris	CD74ACT157		74AC264	TI	74AC264		74F251	Motorola Signetics	MC74F251 74F251		74F382	Motorola Signetics	MC74F382 74F382	
74ACT158	Harris	CD74ACT158		74AC264	TI	74AC264		74F252	Motorola Signetics	MC74F252 74F252		74F385	Signetics	74F385	
74ACT161	Harris	CD74ACT161		74AC264	TI	74AC264		74F253	Motorola Signetics	MC74F253 74F253		74F395	Signetics	74F395	
74ACT163	Harris	CD74ACT163		74AC264	TI	74AC264		74F254	Motorola Signetics	MC74F254 74F254		74F398	Motorola Signetics	MC74F398 74F398	
74ACT175	Harris	CD74ACT175		74AC264	TI	74AC264		74F255	Motorola Signetics	MC74F255 74F255		74F399	Motorola Signetics	MC74F399 74F399	
74ACT240	Harris	CD74ACT240		74AC264	TI	74AC264		74F257	Motorola Signetics	MC74F257 74F257		74F40	Signetics	74F40	
74ACT241	Harris	CD74ACT241		74AC264	TI	74AC264		74F258	Motorola Signetics	MC74F258 74F258		74F407	Signetics	74F407	
74ACT244	Harris	CD74ACT244		74AC264	TI	74AC264		74F259	Motorola Signetics	MC74F259 74F259		74F410	Signetics	74F410	
74ACT245	Harris	CD74ACT245		74AC264	TI	74AC264		74F269	Signetics	74F269		74F412	Signetics	74F412	
74ACT257	Harris	CD74ACT257		74AC264	TI	74AC264		74F27	Signetics	74F27		74F413	AMD	C57L401	
74ACT258	Harris	CD74ACT258		74AC264	TI	74AC264								C67401	
74ACT273	Harris	CD74ACT273		74AC264	TI	74AC264								57401	
74ACT299	Harris	CD74ACT299		74AC264	TI	74AC264								67C401	
74ACT32	Harris	CD74ACT32		74AC264	TI	74AC264								IDT	
74ACT323	Harris	CD74ACT323		74AC264	TI	74AC264								IDT72401	
74ACT373	Harris	CD74ACT373		74AC264	TI	74AC264								DM775401	
74ACT374	Harris	CD74ACT374		74AC264	TI	74AC264								74F432	
74ACT533	Harris	CD74ACT533		74AC264	TI	74AC264								74F455	
74ACT534	Harris	CD74ACT534		74AC264	TI	74AC264								74F456	
74ACT563	Harris	CD74ACT563		74AC264	TI	74AC264								MC74F521	
74ACT564	Harris	CD74ACT564		74AC264	TI	74AC264								74F521	
74ACT573	Harris	CD74ACT573		74AC264	TI	74AC264								SN74F521	
74ACT574	Harris	CD74ACT574		74AC264	TI	74AC264								74F524	
74ACT74	Harris	CD74ACT74		74AC264	TI	74AC264								MC74F533	
74AC00	Harris	CD74AC00		74AC264	TI	74AC264								74F533	
74AC02	Harris	CD74AC02		74AC264	TI	74AC264								SN74BCT533	
74AC04	Harris	CD74AC04		74AC264	TI	74AC264								SN74F533	
74AC08	Harris	CD74AC08		74AC264	TI	74AC264								MC74F534	
74AC10	Harris	CD74AC10		74AC264	TI	74AC264								SN74BCT534	
74AC1010	AD	ADSP1010		74AC264	TI	74AC264								SN74F534	
74AC1010	Cypress	CY7C510		74AC264	TI	74AC264								74F537	
74AC1010	Harris	HMA510		74AC264	TI	74AC264									
74AC1010	Intel	IM29C510		74AC264	TI	74AC264									
74AC1010	TRWLSI	TMC2210		74AC264	TI	74AC264									
74AC1010	Waferscale	WS59510	(3717)	74AC264	TI	74AC264									
		WS59610		74AC264	TI	74AC264									

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ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				♦ 74H01	National	DM74H01		74LS10	SGS-Thomson	(Cont'd)		74LS139	Hitachi	HD74LS139	
74F538	Signetics	74F538		♦ 74H08	Lansdale	ML74H01							Motorola	SN74LS139	
74F539	Signetics	74F539				ML74H08			Signetics	T74LS10			National	DM74LS139	
74F540	Signetics	74F540		♦ 74H08	National	DM74H01		74LS109	TI	SN74LS10			Panasonic	DN74LS139	
	TI	SN74F540				DM74H08			Hitachi	HD74LS109			SGS-Thomson		
74F543	Signetics	74F543		♦ 74H10	Lansdale	ML74H10			Motorola	SN74LS109			Signetics	74LS139	
	TI	SN74BCT543			National	DM74H10			National	DM74LS109		74LS14	TI	SN74LS139A	
		SN74F543			TI	SN74H10			Panasonic	DN74LS109			Hitachi	HD74LS14	
74F544	Signetics	74F544		♦ 74H101	Lansdale	ML74H101			SGS-Thomson				Motorola	SN74LS14	
	TI	SN74BCT544		♦ 74H11	Lansdale	ML74H11				T74LS109			National	DM74LS14	
		SN74F544		♦ 74H20	Lansdale	ML74H20			Signetics	74LS109			Panasonic	DN74LS14	
74F545	Signetics	74F545		♦ 74H22	Lansdale	ML74H22		74LS11	TI	SN74LS109A			SGS-Thomson	T74LS14	
74F547	Signetics	74F547		♦ 74H30	Lansdale	ML74H30			Hitachi	HD74LS11		♦ 74LS145	Signetics	74LS14	
74F548	Signetics	74F548		♦ 74H40	Lansdale	ML74H40			Motorola	SN74LS11			TI	SN74LS14	
74F552	Signetics	74F552		♦ 74H50	Lansdale	ML74H50			National	DM74LS11			Motorola	SN74LS145	
♦ 74F558	AMD	AM25S558		♦ 74H51	Lansdale	ML74H51			Panasonic	DN74LS11			Panasonic	DN74LS145	
	LogicDev	LMU557		♦ 74H52	Lansdale	ML74H52			SGS-Thomson				TI	SN74LS145	
		LMU558		♦ 74H53	Lansdale	ML3032	(3514)			T74LS11		74LS15	Motorola	SN74LS15	
74F563	Signetics	74F563				ML74H53			Signetics	74LS11			National	DM74LS15	
	TI	SN74F563		♦ 74H54	Lansdale	ML74H54		74LS112	TI	SN74LS11			Panasonic	DN74LS15	
74F564	Signetics	74F564		♦ 74H55	Lansdale	ML74H55			Hitachi	HD74LS112			SGS-Thomson	T74LS15	
74F568	Signetics	74F568		74H60	Lansdale	ML74H60			Motorola	SN74LS112A				74LS15	
	TI	SN74F568		74H71	Lansdale	ML74H71			National	DM74LS112		74LS151	TI	SN74LS15	
74F569	Signetics	74F569		♦ 74H72	Lansdale	ML74H72			Panasonic	DN74LS112			Hitachi	HD74LS151	
	TI	SN74F569		♦ 74H73	Lansdale	ML74H73			SGS-Thomson					HD74LS151A	
74F573	Signetics	74F573		♦ 74H74	Lansdale	ML3060	(3514)			T74LS112			Motorola	SN74LS151	
	TI	SN74F573				ML74H74		♦ 74LS113	Signetics	74LS112			National	DM74LS151	
74F574	Signetics	74F574		74LS00	Hitachi	HD74LS00			TI	SN74LS112A			Panasonic	DN74LS151	
74F579	Signetics	74F579			Motorola	SN74LS00			Hitachi	HD74LS113			SGS-Thomson	T74LS151	
74F582	Signetics	74F579			National	DM74LS00			Motorola	SN74LS113A				74LS151	
74F583	Signetics	74F582			Panasonic	DN74LS00			National	DM74LS113		74LS153	Signetics	74LS151	
74F588	Signetics	74F583			SGS-Thomson	T74LS00			Panasonic	DN74LS113			TI	SN74LS151	
74F595	Signetics	74F588				74LS00			SGS-Thomson	T74LS113			Hitachi	HD74LS153	
74F597	Intel	8237-5		74LS01	Signetics	74LS00		♦ 74LS114	Signetics	74LS113			Motorola	SN74LS153	
	Signetics	74F597			TI	SN74LS00			TI	SN74LS113A			National	DM74LS153	
♦ 74F598	Signetics	74F598			Hitachi	HD74LS01			Hitachi	HD74LS114			Panasonic	DN74LS153	
♦ 74F604	Signetics	74F598			Motorola	SN74LS01			Motorola	SN74LS114A			SGS-Thomson	T74LS153	
♦ 74F605	Signetics	74F604			Panasonic	DN74LS01			National	DM74LS114		74LS155	Signetics	74LS153	
74F620	Motorola	MC74F620			SGS-Thomson	T74LS01			Panasonic	DN74LS114			TI	SN74LS153	
	Signetics	74F620				74LS01			SGS-Thomson				Hitachi	HD74LS155	
	TI	SN74BCT620		74LS02	TI	SN74LS01				T74LS114			Motorola	SN74LS155	
♦ 74F621	Signetics	74F621			Hitachi	HD74LS02		74LS125A	TI	SN74LS114A			National	DM74LS155	
	TI	SN74F621			Motorola	SN74LS02			Motorola	SN74LS125A			Panasonic	DN74LS155	
♦ 74F622	Signetics	74F622			National	DM74LS02			Panasonic	DN74LS125A			SGS-Thomson	T74LS155	
	TI	SN74F622			Panasonic	DN74LS02			SGS-Thomson			74LS156	Signetics	74LS155	
74F623	Motorola	MC74F623			SGS-Thomson	T74LS02				T74LS125			TI	SN74LS155A	
	Signetics	74F623		74LS03	Signetics	74LS02		74LS126	Signetics	74LS125A			Hitachi	HD74LS156	
	TI	SN74BCT623			TI	SN74LS02			TI	SN74LS125A			Motorola	SN74LS156	
♦ 74F630	Signetics	74F623			Hitachi	HD74LS03			Motorola	SN74LS126A			National	DM74LS156	
♦ 74F631	Signetics	74F623			Motorola	SN74LS03			National	DM74LS126			Panasonic	DN74LS156	
74F632	National	DP8402A			National	DM74LS03			SGS-Thomson				SGS-Thomson		
	TI	SN74ALS632B			Panasonic	DN74LS03				T74LS126				T74LS156	
		SN74AS632			SGS-Thomson	T74LS03		74LS13	Signetics	74LS126A			Signetics	74LS156	
74F64	Signetics	74F64		74LS04	TI	SN74LS03			TI	SN74LS126A			TI	SN74LS156	
	TI	SN74F64			Hitachi	HD74LS04			Hitachi	HD74LS13		74LS157	Hitachi	HD74LS157	
74F640	Signetics	74F640			Motorola	SN74LS04			Motorola	SN74LS13			Motorola	SN74LS157	
74F646	Signetics	74F646	(3606)		National	DM74LS04			National	DM74LS13			National	DM74LS157	
74F648	Signetics	74F646	(3606)		Panasonic	DN74LS04			Panasonic	DN74LS13			Panasonic	DN74LS157	
74F651	Signetics	74F651	(3607)		SGS-Thomson	T74LS04			SGS-Thomson				SGS-Thomson		
	TI	SN74BCT646				74LS04			Signetics	74LS13		74LS158	Signetics	74LS157	
74F652	Signetics	74F652	(3607)	74LS05	Signetics	74LS04			TI	SN74LS13			TI	SN74LS157	
	TI	SN74BCT651			TI	SN74LS04		74LS132	Hitachi	HD74LS132			Hitachi	HD74LS158	
74F653	Harris	CD74ACT151			Hitachi	HD74LS05			Motorola	SN74LS132			Motorola	SN74LS158	
	Motorola	MC74F653			Motorola	SN74LS05			National	DM74LS132			National	DM74LS158	
	National	74ACT151			National	DM74LS05			Panasonic	DN74LS132			Panasonic	DN74LS158	
♦ 74F655	Signetics	74F655			Panasonic	DN74LS05			SGS-Thomson				SGS-Thomson		
♦ 74F656	Signetics	74F655			SGS-Thomson	T74LS05				T74LS132				T74LS158	
74F657	Signetics	74F657			Signetics	74LS05		74LS133	Signetics	74LS132		74LS160	Signetics	74LS158	
♦ 74F674	Signetics	74F657			TI	SN74LS05			TI	SN74LS132			TI	SN74LS158	
74F676	Signetics	74F674		74LS08	Hitachi	HD74LS08			Motorola	SN74LS133			Hitachi	HD74LS160A	
74F74	Motorola	MC74F74			Motorola	SN74LS08			SGS-Thomson				Motorola	SN74LS160A	
	Signetics	74F74			Motorola	SN74LS08				TL74LS133			National	DM74LS160	
	TI	SN74F74			National	DM74LS08		74LS136	Hitachi	HD74LS133			Panasonic	DN74LS160A	
74F779	Signetics	74F74			Panasonic	DN74LS08			Hitachi	HD74LS136			SGS-Thomson		
74F821	Signetics	74F779			SGS-Thomson	T74LS08			Motorola	SN74LS136				T74LS160	
74F823	Signetics	74F821				74LS08			National	DM74LS136			Signetics	74LS160	
74F825	Signetics	74F823		74LS09	Signetics	74LS08			Panasonic	DN74LS136		74LS161A	TI	SN74LS160A	
74F827	Signetics	74F825			TI	SN74LS08			SGS-Thomson				Hitachi	HD74LS161A	
74F841	Signetics	74F827			Hitachi	HD74LS09				T74LS136			Motorola	SN74LS161A	
74F843	Signetics	74F841			Motorola	SN74LS09			TI	SN74LS136			National	DM74LS161	
74F845	Signetics	74F843			National	DM74LS09		74LS138	Hitachi	HD74LS138			Panasonic	DN74LS161A	
♦ 74F85	Signetics	74F845			Panasonic	DN74LS09			Motorola	SN74LS138			SGS-Thomson		
74F86	Signetics	74F85			SGS-Thomson	T74LS09			National	DM74LS138				T74LS161	
	TI	SN74F86		74LS10	TI	SN74LS09			Panasonic	DN74LS138		74LS162	Signetics	74LS161A	
♦ 74H00	Lansdale	ML74H00			Hitachi	HD74LS10			SGS-Thomson	T74LS138			TI	SN74LS161A	
♦ 74H01	Lansdale	ML74H01			Motorola	SN74LS10							Hitachi	HD74LS162A	
		ML74H08			National	DM74LS10			Signetics	74LS138			Motorola	SN74LS162A	
					Panasonic	DN74LS10			TI	SN74LS138			National	DM74LS162	
			(Continued)				(Continued)				(Continued)				(Continued)

♦ Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				74LS40	Panasonic SGS-Thomson	DN74LS40	(Cont'd)	74LS85	Signetics TI	74LS85 SN74LS85	(Cont'd)	74S189	AMD	AM27LS03 AM27S03 SN74S189	
74LS366A	Motorola National Panasonic SGS-Thomson	SN74LS366A DM74LS366 DN74LS366A		74LS42	TI Hitachi Motorola National Panasonic SGS-Thomson	T74LS40 SN74LS40 HD74LS42 SN74LS42 DN74LS42		74LS86	Hitachi Motorola National Panasonic SGS-Thomson	HD74LS86 SN74LS86 DM74LS86 DN74LS86		74S189	Cypress	CY27LS03M CY27S03 CY7C189 CY74S189	
74LS367A	Signetics TI Hitachi Motorola National Panasonic SGS-Thomson	T74LS366 74LS366A SN74LS366A HD74LS367A SN74LS367A DM74LS367 DN74LS367A		74LS47	TI Hitachi Motorola National SGS-Thomson	T74LS42 SN74LS42 HD74LS47 SN74LS47 DM74LS47		74LS90	Signetics TI Motorola National Panasonic SGS-Thomson	T74LS86 74LS86 SN74LS86A SN74LS90 DM74LS90 DN74LS90		74S20	National Signetics TI	DM74S20 74S20 SN74S20	
74LS368A	Signetics TI Hitachi Motorola National Panasonic SGS-Thomson	T74LS367 74LS367A SN74LS367A HD74LS368 SN74LS368A DM74LS368 DN74LS368A		74LS48	TI Motorola National SGS-Thomson	T74LS47 SN74LS47 SN74LS48 DM74LS48		74LS92	Signetics TI Hitachi Motorola National Panasonic SGS-Thomson	T74LS90 74LS90 SN74LS90 HD74LS92 SN74LS92 DM74LS92 DN74LS92		74S22	National TI	DM74S22 SN74S22	
74LS37	Signetics TI Hitachi Motorola National Panasonic SGS-Thomson	T74LS368 74LS368A SN74LS368A HD74LS37 SN74LS37 DM74LS37 DN74LS37		74LS49	Signetics TI Motorola National SGS-Thomson	74LS48 SN74LS49 DM74LS49		74LS93	Signetics TI Hitachi Motorola National Panasonic SGS-Thomson	T74LS92 74LS92 SN74LS92 HD74LS93 SN74LS93 DM74LS93 DN74LS93		74S289	Lansdale National TI	ML4064 DM74S30 SN74S30	
74LS373	Signetics TI Motorola National Panasonic SGS-Thomson	T74LS37 74LS37 SN74LS37 SN74LS373 DM74LS373 DN74LS373		74LS490	TI Motorola Panasonic SGS-Thomson	T74LS49 SN74LS49 SN74LS490 DM74LS490		74LS95B	Signetics TI Hitachi Motorola National Panasonic SGS-Thomson	T74LS93 74LS93 SN74LS93 HD74LS95B SN74LS95B DM74LS95B DN74LS95B		74S32	Signetics TI	74S32 SN74S32	
74LS374	Signetics TI Motorola National SGS-Thomson	T74LS373 74LS373 SN74LS373 SN74LS374 DM74LS374		74LS51	Signetics TI Hitachi Motorola National Panasonic SGS-Thomson	T74LS51 74LS51 SN74LS51 HD74LS51 SN74LS51 DM74LS51 DN74LS51		74S86	Signetics TI Hitachi Motorola National Panasonic SGS-Thomson	T74LS95 74LS95B SN74LS95B DM74S00 74S00 SN74S00 DM74S02		74S51	National Signetics TI	DM74S51 74S51 SN74S51	
74LS375	Signetics TI Motorola National SGS-Thomson	T74LS374 74LS374 SN74LS374 SN74LS375 DM74LS375 DN74LS375		74LS54	Hitachi Motorola National Panasonic SGS-Thomson	T74LS54 HD74LS54 SN74LS54 DM74LS54 DN74LS54		74S00	Signetics TI National Signetics TI	74LS95 74LS95B SN74LS95B DM74S00 74S00 SN74S00		74S56	National TI	DM74S56 SN74S56	
74LS377	Signetics TI Motorola National SGS-Thomson	T74LS375 74LS375 SN74LS375 SN74LS377 DM74LS377 DN74LS377		74LS540	Hitachi Motorola National Panasonic SGS-Thomson	T74LS54 HD74LS54 SN74LS54 DM74LS54 DN74LS54		74S02	Signetics TI National Signetics TI	74LS95B SN74LS95B DM74S00 74S00 SN74S00		74S74	National Signetics TI	DM74S74 74S74 SN74S74	
74LS378	Signetics TI Motorola National SGS-Thomson	T74LS377 74LS377 SN74LS377 SN74LS378 DM74LS378 DN74LS378		74LS541	Signetics TI Hitachi Motorola National Panasonic SGS-Thomson	T74LS54 HD74LS54 SN74LS54 DM74LS54 DN74LS54		74S04	Signetics TI National Signetics TI	74LS95B SN74LS95B DM74S00 74S00 SN74S00		74S86	National Signetics TI	DM74S86 74S86 SN74S86	
74LS379	Signetics TI Motorola National SGS-Thomson	T74LS378 74LS378 SN74LS378 SN74LS379 DM74LS379 DN74LS379		74LS55	Hitachi Motorola National Panasonic SGS-Thomson	T74LS54 HD74LS54 SN74LS54 DM74LS54 DN74LS54		74S08	Signetics TI National Signetics TI	74LS95B SN74LS95B DM74S00 74S00 SN74S00		7400	Lansdale National Signetics TI	ML7400 DM7400 SN7400	(3514)
74LS38	TI Hitachi Motorola National Panasonic SGS-Thomson	T74LS379 SN74LS379 HD74LS38 SN74LS38 DM74LS38 DN74LS38		74LS555	Hitachi Motorola National Panasonic SGS-Thomson	T74LS55 HD74LS55 SN74LS55 DM74LS55 DN74LS55		74S10	Signetics TI National Signetics TI	74LS95 74LS95B SN74LS95B DM74S00 74S00 SN74S00		7401	Lansdale National Saratoga TI	ML7401 DM7401 SSL7401 SN7401	(3514)
74LS390	Signetics TI Motorola National Panasonic SGS-Thomson	T74LS38 74LS38 SN74LS38 SN74LS390 DM74LS390 DN74LS390		74LS560	Hitachi Motorola National Panasonic SGS-Thomson	T74LS55 HD74LS55 SN74LS55 DM74LS55 DN74LS55		74S11	Signetics TI National Signetics TI	74LS95B SN74LS95B DM74S00 74S00 SN74S00		7402	Lansdale National Signetics TI	ML7402 DM7402 SN7402	(3514)
74LS393	TI Motorola National Panasonic SGS-Thomson	T74LS390 SN74LS390 DM74LS393 DN74LS393		74LS83A	TI Hitachi Motorola National Panasonic SGS-Thomson	T74LS55 HD74LS55 SN74LS55 DM74LS55 DN74LS55		74S12	Signetics TI National Signetics TI	74LS95B SN74LS95B DM74S00 74S00 SN74S00		7403	Lansdale National Saratoga Signetics TI	ML7403 DM7403 SSL7403 7403 SN7403	(3514)
74LS395	Signetics TI National Panasonic SGS-Thomson	T74LS393 74LS393 SN74LS393 DM74LS395 DN74LS395A		74LS85	Hitachi Motorola National Panasonic SGS-Thomson	T74LS55 HD74LS55 SN74LS55 DM74LS55 DN74LS55		74S13	Signetics TI National Signetics TI	74LS95B SN74LS95B DM74S00 74S00 SN74S00		7404	Lansdale National Saratoga Signetics TI	ML7404 DM7404 SSL7404 7404 SN7404	(3514)
74LS40	Signetics TI Hitachi Motorola National	T74LS395 74LS395 SN74LS395A HD74LS40 SN74LS40 DM74LS40						74S14	Signetics TI National Signetics TI	74LS95B SN74LS95B DM74S00 74S00 SN74S00		7405	Lansdale National Signetics TI	ML7405 DM7405 7405 SN7405	(3514)

* Discontinued

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IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				7417	Lansdale National Signetics TI	ML7417 DM7417 7417 SN7417	(3514)	7427	Lansdale National TI	ML7427 DM7427 SN7427	(3514)	7489	National	DM74S289 DM7489 DM8589 MM74S289	
• 74122	National	DM8601 DM9601 9601		74170	National	DM74170 SN74170		74279	TI	SN74279			Signetics	74S289 SN7489	
• 74122	Signetics	N8T22 S8T22		74173	National	DM74173 DM8551 SN74173		• 74283	TI	SN74283		• 7492	Lansdale	ML7492	
• 74122	TI	SN74122						• 74290	Lansdale	ML74290	(3514)	• 7493	Lansdale	ML7493	
74123	Lansdale	ML74123	(3514)	74174	Lansdale National Signetics TI	ML74174 DM74174 74174 SN74174	(3514)	7430	Lansdale National TI	ML7430 DM7430 SN7430	(3514)	• 7494	GoldStar	GL7101	
	National	DM74123						7432	National	DM7432		• 7496	Lansdale	ML7494	(3514)
	Signetics	74123		74175	Lansdale National TI	ML74175 DM74175 SN74175	(3514)	7437	Lansdale National Signetics TI	ML7437 DM7437 7437 SN7437	(3514)	7497	National	DM7496 DM7496 ML7497	(3514)
74125	National	DM74125 DM8093		• 74176	Lansdale	ML8280 RL8280		7440	Lansdale National Signetics TI	ML7440 DM7440 7440	(3514)	• 75S24	Motorola	DS75S24 7524	
	Signetics	74125		• 74176	National	DM74176 DM8280		• 7441	Lansdale National	ML7441		75107	Motorola	MC75107 DS75107	
• 74126	National	DM74126 DM8094		• 74176	Signetics	74176		7438	Lansdale National Signetics TI	ML7438 DM7438 7438	(3514)	75108	Motorola	LM75107A SN75107B	
• 74126	Signetics	74126		• 74177	Lansdale National	DM74177 DM8281		7439	Signetics	SN7438			TI	MC75108 DS75108	
• 7413	Lansdale	ML7413	(3514)	• 74177	Signetics	74177		7440	Lansdale National Signetics TI	ML7440 DM7440 7440	(3514)	75110	Motorola	LM75108A SN75108B	
	National	DM7413		• 74177	Signetics	74177		• 7441	Lansdale National	ML7441		• 75121	Motorola	MC75S110	
74132	Lansdale	ML74132	(3514)	• 74179	Lansdale	ML8271 RL8271		7441	Lansdale National	DM74141 93141		• 75150	TI	SN75110A	
	National	DM74132		74180	Lansdale National	ML74180 DM74180	(3514)	7442	Lansdale National	DM7441 93141		• 75154	Lansdale	SL8T13	
74136	Lansdale	ML74136	(3514)	• 74181	Lansdale	ML54181	(3514)	• 7442	Signetics	7441		• 75154	National	DS75150 TI	
7414	Lansdale	ML7414	(3514)	• 74181	National	DM74181		• 7441	Signetics	7441		7520	TI	SN75154	
	National	DM7414		• 74182	Lansdale	ML74182	(3514)	7442	Lansdale National	ML7442 DM7442	(3514)		Harris	AD7520	
	Signetics	7414		• 74190	Lansdale	ML74190	(3514)	• 7443	Signetics	7441			Maxim	MX7520	
• 74141	Lansdale	ML7441		• 74191	National	DM74190		• 7444	TI	SN7442A			MicroPwr	MP7520	
	National	DM74141		• 74191	Lansdale	DM74191	(3514)	7445	Lansdale	DM7445	(3514)		Motorola	MC7520	
• 74141	Signetics	93141		• 74192	National	DM74191		• 7446	Signetics	7445			National	AD7520	
74145	National	DM74145		• 74192	Lansdale	ML74192	(3514)	• 7447	TI	SN7446		7521	TI	DAC1020	
	Signetics	74145		• 74192	National	DM74192		• 7448	Lansdale	ML7446A			Harris	PIC7520	
• 74146	Lansdale	ML74146		• 74193	Signetics	74192		7450	Lansdale	ML7447			Maxim	AD7521	
74150	Lansdale	ML74150	(3514)	• 74194	TI	SN74192		• 7451	Lansdale	ML7448			MicroPwr	MP7521	
	National	74150						• 7452	Lansdale	ML7450	(3514)		Motorola	MC7521	
	Signetics	SN74150		• 74195	Lansdale	ML74195	(3514)	7451	National	DM7450			National	AD7521	
• 74151	Lansdale	ML74151	(3514)	• 74196	National	DM74194		• 7453	TI	SN7450		7525	Sipex-HSD	DAC1222	
• 74152	Dense-Pac	DPD4256			Signetics	74194		• 7454	Lansdale	ML7451	(3514)		Motorola	DAC331-12	
	Hitachi	HB561005A		• 74196	TI	SN74194		7470	National	DM7451			Motorola	MC7525	
74153	Lansdale	TM4256E05		• 74196	Lansdale	ML74196	(3514)	• 7471	Signetics	7451		7529	Motorola	PIC7524	
	National	DM74153			National	DM74195		• 7472	TI	SN7451			Motorola	MC7529	
• 74154	Lansdale	ML74154	(3514)	• 74197	Lansdale	ML74197	(3514)	7473	Lansdale	ML7453	(3514)	7538	Motorola	PIC7529	
		ML8311				ML8290			National	DM7454			Motorola	MC7538	
• 74154	National	DM7213		• 74196	National	DM74196		• 7470	TI	SN7454		7539	Motorola	LM7538	
		DM74154		• 74196	Signetics	74196		• 7471	Lansdale	ML7470	(3514)		Motorola	MC7539	
		DM8311			TI	SN74196		• 7472	TI	SN7470		75430	National	SG75430	
• 74154	Signetics	74154		74197	Lansdale	ML74197	(3514)	7473	Lansdale	ML7472	(3514)	75450	TI	μA75450	
74155	Lansdale	SN54154				ML8291			National	DM7473			Motorola	SG75450B	
	National	ML74155	(3514)		National	DM74197		7474	TI	SN7473		75451	TI	SN75450	
	TI	DM74155			Signetics	DM8291			Lansdale	HL7611			SiliconG	SG75451	
• 74156	National	DM74156		• 74198	TI	74197			National	ML7474	(3514)		TI	SG75451A	
• 74157	Lansdale	ML8322			National	SN74197			Signetics	DM7474				SG75451B	
74159	TI	SN74159		• 74199	National	DM74198		7475	TI	SN7474		75452	National	SN75451	
7416	National	DM7416			Signetics	SN74198			Lansdale	ML7475	(3514)		TI	μA75452	
	Signetics	7416			TI	DM74199		7476	National	DM7475			SiliconG	SG75452	
• 74160	Lansdale	ML74160	(3514)		TI	74199			TI	SN7475				SG75452B	
• 74160	National	ML8310		7420	Lansdale	ML7420	(3514)		Lansdale	ML7476	(3514)		TI	SN75452	
	TI	DM74160			National	DM7420		• 7477	TI	SN7476		75453	National	SN75452B	
74161	Lansdale	ML74161	(3514)			DM9004C		• 7478	Lansdale	ML7477	(3514)			μA75453	
	National	DM74161		• 7423	Signetics	9004		• 7479	Lansdale	ML7479	(3514)			LM75453	
• 74162	Lansdale	ML74162	(3514)		TI	7420		• 7480	Lansdale	ML7480	(3514)			SG75453	
	National	DM74162			National	SN7420		• 7481	Lansdale	ML4004				SG75453A	
74163	Lansdale	ML74163	(3514)	7425	TI	ML7423	(3514)	• 7482	Lansdale	ML7482	(3514)	• 75461	TI	SN75453B	
	TI	SN74163			National	DM7423		• 7483	Lansdale	ML7483	(3514)		National	μA75461	
74165	Lansdale	ML74165	(3514)		TI	SN7423		• 7484	Lansdale	ML7484			SiliconG	SG75461	
	National	DM74165		7426	Lansdale	ML7426	(3514)	7485	Lansdale	ML7485	(3514)	• 75462	TI	SN75461	
	TI	SN74165			National	DM7425			National	DM7485			TI	μA75462	
• 74167	Lansdale	ML74167	(3514)	• 7426	TI	SN7425		7486	Signetics	7485		• 7589	SiliconG	SG75462	
					National	μA75451			TI	SN7485			TI	SN75462	
					Signetics	DM7426		• 7488	Lansdale	ML7486	(3514)	• 8T13	Lansdale	LM4064	
					TI	DM8810			Signetics	DM7486		• 8T14	Lansdale	SL8T13	
						7426			TI	SN7486			National	DS55122	
						SN7426			Lansdale	ML4002			TI	SN55122	

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				• 8271	Lansdale	ML8271		• 87S228	National	DM77LS181	(Cont'd)	• 9009	Lansdale	ML7440	(3514)
• 8724	Lansdale	SL8T24		• 8280	Lansdale	RL8271				DM77S181		• 9009	National	DM7440	
	National	DS75124				ML8280				DM77S281			Signetics	7440	
	Signetics	N8T24		• 8280	National	DM74176				DM87S181		• 9016	TI	SN7440	
• 8096	Lansdale	SL8T96				ML8280		• 87S228	Raytheon	DM87S281		• 9016	Lansdale	ML901	
	National	DM7096		• 8280	Signetics	96176				932451			Lansdale	ML5404	(3514)
	TI	SN75124				74176				29631			National	DM9016C	
• 815	Lansdale	ML815		• 8281	Lansdale	SN74176		• 87S228	Signetics	29631AM		• 902	Lansdale	ML902	
• 816	Lansdale	ML816			National	ML8281				N82S181		• 903	Lansdale	ML903	
• 817	Lansdale	ML816		• 8281	Signetics	DM74177		• 87S228	STC	STC5089		• 9031	Lansdale	ML8301	
• 818	Lansdale	ML818				74177			TI	28586-60				ML9301	
• 819	Lansdale	ML819		• 8283	Lansdale	SN74177	(3514)	• 87S296	Lansdale	HL7641				RL8252	
• 82S191	Cypress	CY7C291		• 8284	Lansdale	ML8284				ML863				SL8252	
	EXEL	XL46C15		• 8285	Lansdale	ML8285		• 87S296	Motorola	ML963				DM8301	
	Harris	HM6617		• 8288	Lansdale	RL8285			National	MC963				DM9301	
		IM6716		• 8290	Lansdale	ML8288		• 87S321		DM963				9301	
• 82S191	Lansdale	HL76161				SL8288				9963		• 9034	Signetics	S8252	
	National	DM77S291		• 8290	National	ML74196	(3514)	• 87S321	AMD	AM27S43		• 904	Lansdale	ML4002	
		DM77S291A				ML8290				AM27S43A		• 905	Lansdale	ML904	
• 82S191	Raytheon	932511M		• 8290	Signetics	RL8290		• 87S321	Fujitsu	27S43		• 906	Lansdale	ML905	
		29681				DM74196			ICT	MB7142		• 907	Lansdale	ML906	
		29681A		• 8291	TI	DM8290			Lansdale	27C321		• 908	Lansdale	ML907	
		29683				74196			National	HL76321		• 909	Lansdale	ML908	
		29683A		• 8291	Lansdale	SN74196	(3514)		Raytheon	DM77S321				ML909	
• 82S191	Waferscale	WS57C191				ML74197				R29671D		• 9093	Lansdale	ML910	
		WS57C291B		• 8291	National	ML8291		• 87S321	Signetics	29671				ML853	
• 82S295	Lansdale	HL7640				DM74197			Waferscale	29671A			Motorola	ML953	
	National	DM74S475		• 8291	Signetics	DM8291		• 870	Lansdale	N82H321		• 9094	National	MC853	
		DM77S475				74197		• 871	Lansdale	WS57C43B			Lansdale	MC953	
• 8200	Lansdale	DM87S475		• 8322	TI	SN74197		• 877	Lansdale	ML870				DM9093	
		ML8200		• 8350	Lansdale	ML8322		• 878	Lansdale	ML871				ML856	
• 8201	Lansdale	SL8200		• 8352	Lansdale	ML7490A	(3514)	• 879	Lansdale	ML877			Motorola	ML956	
• 8202	Lansdale	ML8201		• 8353	Lansdale	ML7492		• 880	Lansdale	ML878		• 9097	National	MC856	
		SL8201		• 8520	Lansdale	ML7493		• 883	Lansdale	ML879			Lansdale	MC956	
• 8203	Allegro	ML8202		• 8550	Lansdale	ML4016		• 884	Lansdale	ML880				DM9094	
	Micro	RL8202		• 8560	Lansdale	ML4015		• 884	Lansdale	ML883			Motorola	ML855	
	National	UGN3130U (3207)			National	ML74192	(3514)	• 8840	Lansdale	ML884				MC855	
	Panasonic	DN6838		• 8560	Signetics	DM8560			National	ML7441		• 9099	National	MC955	
	TI	TL170				DM74192		• 8840	Signetics	DM74141			Lansdale	DM9097	
• 8213	Lansdale	ML74154	(3514)	• 8563	Lansdale	74192				DM7441		• 911	Lansdale	ML952	
		ML8311		• 8580	Lansdale	SN74192	(3514)	• 8842	Lansdale	93141		• 912	Lansdale	MC952	
• 8213	National	ML9311		• 8590	Lansdale	ML74193	(3514)		National	74141		• 913	Lansdale	ML911	
		DM7213			National	ML4012		• 8842	Signetics	7441				ML912	
		DM74154				DM74165	(3514)			ML7442	(3514)			ML913	
• 8213	Signetics	DM8311		• 8590	TI	DM8590		• 8842	Lansdale	DM7442		• 9135	Lansdale	ML385	
	TI	9311		• 8600	Lansdale	74165		• 8846	TI	DM8842			Motorola	ML935	
• 822	Lansdale	74154				SN74165	(3514)		Lansdale	7442				MC835	
• 8220	Lansdale	SN54154		• 8600	National	ML54195		• 8847	Lansdale	SN7442A		• 914	National	MC935	
• 8233	Lansdale	ML822				ML8300		• 8848	TI	ML7446		• 915	Lansdale	DM935	
• 8234	Lansdale	ML4008		• 864	Lansdale	ML9300		• 885	Lansdale	SN7446A				9935	
		RL8233		• 867	Lansdale	9300		• 886	Lansdale	ML7447		• 916	Lansdale	ML914	
• 8235	Lansdale	RL8234		• 87S181	AMD	SN54195		• 887	Lansdale	ML7448		• 917	Lansdale	ML915	
• 824	Lansdale	ML8235			Cypress	ML864		• 887	Lansdale	ML885		• 918	Lansdale	ML857	
• 8241	Lansdale	ML824			Gould AMI	ML867		• 887	Lansdale	ML886		• 919	Motorola	ML957	
		RL8241		• 87S181	Hitachi	AM27S181		• 887	Lansdale	ML887				MC857	
• 8242	Lansdale	ML8242			Lansdale	CY7C282M		• 887	National	ML7441		• 9157	National	MC957	
	Motorola	SN74LS266			National	S25089		• 8870	Signetics	DM74141				DM9567	
	National	DM74LS266				HN25089				DM7441		• 9158	Lansdale	DM957	
• 8242	Panasonic	74LS266				HL7681				93141				ML858	
	SGS-Thomson	DN74LS266				DM77LS181		• 888	Lansdale	7441			Motorola	ML958	
		T74LS266		• 87S181	Raytheon	DM77S181		• 889	Lansdale	ML888		• 916	National	MC858	
	Signetics	74LS266				DM77S281		• 890	Lansdale	ML889		• 917	Lansdale	MC958	
82450	AMD	PAL20R6D		• 87S181	Signetics	DM87S181		• 891	Lansdale	ML890		• 918	Lansdale	ML916	
• 825	Lansdale	ML825				DM87S281		• 892	Lansdale	ML891		• 919	Lansdale	ML917	
• 8250	Lansdale	ML8250		• 87S185	STC	932451		• 893	Lansdale	ML892		• 920	Lansdale	ML918	
82508	AMD	PAL20R4D				29631		• 896	Lansdale	ML893		• 921	Lansdale	ML919	
	Signetics	PLUS20R4D (3634)				29631AM		• 897	Lansdale	ML896		• 922	Lansdale	ML920	
	UMC	UM8250B (3690)		• 87S185	Fujitsu	N82S181		• 898	Lansdale	ML897		• 924	Lansdale	ML921	
• 8251	Lansdale	ML8251			Hitachi	S82S181		• 899	Lansdale	ML898		• 925	Lansdale	ML922	
• 826	Lansdale	ML826			National	DM87S185		• 900	Lansdale	ML899		• 926	Lansdale	ML924	
• 8260	Lansdale	ML8260		• 87S185	Raytheon	29651		• 9001	National	ML900		• 927	Lansdale	ML925	
• 8261	Lansdale	ML8261				29651A			Lansdale	ML3052	(3514)	• 928	Lansdale	ML926	
• 8266	Lansdale	ML8266		• 87S185	TI	ML8266		• 9002	Lansdale	74H105		• 929	Lansdale	ML927	
• 8266	Signetics	SL8266				ML8266			National	ML7400	(3514)	• 93L415	Lansdale	ML928	
• 8267	Lansdale	ML8267		• 87S228	AMD	24S81-55		• 9004	Signetics	DM7400		• 93L422	Motorola	ML929	
• 8270	Lansdale	ML8270				AM27S181			Lansdale	7400			AMD	MC93L415	
		RL8270				CY7C282M			National	SN7400				AM93L422A	
						S25089				ML7420	(3514)		Cypress	CY93L422	
						HN25089		• 9005	Signetics	DM7420				CD22212	
						HL7681			Lansdale	DM9004C			National	93L422A	
									National	7420			AMD	AM93L422	
										SN7420			Cypress	CY93L422	
										ML7450	(3514)			CY93L422A	
										DM7450				CD22212	
										7450				93L422	
										SN7450					

• Discontinued

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QUALI: SOURCE DIRECTORY

◆ Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
National Semiconductor (Cont'd)				93451	National	DM77LS181	(Cont'd)	93565	Cypress	CY7C261		9601	TI	SN74122	(Cont'd)
932511M	Raytheon	29683	(Cont'd)			DM77S181				CY7C263			TI	SN74122	
		29683A				DM77S281		93565	Fujitsu	MBM7144		9602	Lansdale	ML9602	
	Waferscale	WS57C191		93451	Raytheon	29631				MB7144			National	DM8602	
932656	Lansdale	HL76641				29631AM		93565	ICT	27C641		961	Lansdale	ML861	
9328	Lansdale	ML9328		93451	Signetics	N82S181			Microchip	27HC641		96114	TI	SN55114	
933	Lansdale	ML833				S82S181			National	32Z565		96115	TI	SN75114	
9334	TI	SN74259		93451	STC	STC5089				93Z665C				SN75115	
934	Lansdale	ML384			TI	28586-60		93565	NEC	93Z667		96176	Lansdale	ML8280	
93405	AMD	AM27LS03		93452	Lansdale	HL7642			Sharp	μPD27HC65			National	DM74176	
		AM27S03			National	DM54S572		93565		LH5749			Signetics	DM8280	
		SN74S189		93453	AMD	AM27S33		93565	Signetics	N82HS641		962	TI	SN74176	
93405	Cypress	CY27LS03M			Fujitsu	MB7122				27HC641			Lansdale	ML862	
		CY27S03		93459	Lansdale	HL7643		93565		27HC642			Motorola	MC962	
		CY7C189		9346	National	DM74S573			SiliconSys	82HS641			National	DM962	
93405	National	CY74S189			Signetics	N82S100		93565	TI	SS1203		963	Lansdale	9962	
		DM74S189			Catalyst				Waferscale	TMS278C49				HL7641	
		DM7599			Semi	CAT59C11A (3351)		936		WS57C49		963		ML863	
		DM8599				CAT93C46 (3351)			Lansdale	WS57C49B			Motorola	ML963	
		54F189			EXEL	CAT93C46A (3351)				ML836		963	Motorola	MC963	
93407	Lansdale	ML4005				XL93C46		936		ML936			National	DM963	
93415	AMD	AM6685				XL93C546 (3396)			Motorola	MC936		971	Lansdale	ML971	
	AD	AM685			Hyundai	HL93C46 (3396)			National	DM936		974	Lansdale	ML974	
	Honeywell	AD9685			ICT	HY93C46 (3475)		937	Lansdale	9936		975	Lansdale	ML975	
	Motorola	HCMP96850				93C46 (3505)				ML387		976	Lansdale	ML976	
	Plessey	MCM93415			Microchip	93C46C (3505)			Motorola	ML937		978	Lansdale	ML978	
	Signal Proc	SP9683			National	ER5911		9374		MC837		9801	Lansdale	ML9801	
93417	Lansdale	HCMP96850				COP495			National	MC937		9802	Lansdale	ML9802	
93419	Fujitsu	HL7610				NMC93CS46		9374	Signetics	DM937		9804	Lansdale	ML9804	
93422AC	National	MBM93419				NMC93C46		937510	Hitachi	9937		9807	Lansdale	ML9807	
	AMD	F93419			OKI	NMC9345			National	N8T74		9809	Lansdale	ML9809	
		AM93422				NMC9346		937510	Waferscale	HN25168		981	Lansdale	ML981	
	Cypress	AM93422AC				MSM16811			Lansdale	DM77S190		9813	Lansdale	ML9813	
		CY93422AC				MSM16811RS		944		DM87S190		9814	Lansdale	ML9814	
	National	93422C			ROHM	MSM16911			Motorola	WS57C291B		9815	Lansdale	ML9815	
	Performance	P4C422			SGS-Thomson	BR93C46			National	ML844		9818	Lansdale	ML9818	
		P4C422-10C				M9346		945		ML944		9819	Lansdale	ML9819	
	Vitesse	VS12G422T				ST93CS46			Motorola	MC944		982	Lansdale	ML982	
93422AM	AMD	P4C422-8C			Sierra	ST93CS47			National	DM944		9820	Lansdale	ML9820	
		AM93422AM			AMD	TS93C46A		946	Lansdale	9944		9821	Lansdale	ML9821	
	Cypress	AM93422M		93475	AMD	SC22011				ML845		9822	Lansdale	ML9822	
		CY93422AM			Cypress	AM2148			Motorola	ML945		9823	Lansdale	ML9823	
	Harris	CY93422M				CY21L49		946	National	MC945		9824	Lansdale	ML9824	
	Maxim	ICL8212				CY2148				DM945		9825	Lansdale	ML9825	
	National	MAX8212				CY7C148			Lansdale	9945		983	Lansdale	ML983	
	Performance	93422M			Hitachi	CY7C149			Motorola	ML846		984	Lansdale	ML984	
93422C	AMD	P4C422-15		93475		HM6148H			National	ML946		985	Lansdale	ML985	
	Vitesse	VS12G422TM			Intel	HM6148HL				MC946		986	Lansdale	ML986	
	AMD	AM93422		93475	Krueger	2148H		948	Lansdale	DM946			Plessey	ZN515	
	Cypress	AM93422AC				2148-35 (3513)				9946		988	Lansdale	ML988	
		CY93422AC				2148-45 (3513)			Motorola	ML848		989	Lansdale	ML989	
	National	93422AC				2148-70 (3513)			National	ML948		990	Lansdale	ML990	
	Performance	P4C422		93475		NMC2148				MC948		991	Lansdale	ML991	
		P4C422-10C				NM2148		949	Lansdale	DM948		992	Lansdale	ML992	
	Vitesse	VS12G422T		93475	Performance	P4C149				9948		993	Lansdale	ML993	
93422M	AMD	P4C422-8C			Saratoga	SSM2148			Motorola	ML849		9930	Lansdale	ML830	
		VS12G422T			SGS-Thomson	ET2148		95H90	National	ML949			Motorola	ML930	
	Cypress	AM93422AM				93479			Plessey	MC949			National	MC830	
	Harris	AM93422M		93511	Signetics	N82S212		950	Lansdale	SP8647		9932	Lansdale	MC930	
	Maxim	CY93422AM			Cypress	CY7C291				ML850			National	DM930	
	National	CY93422M			EXEL	XL46C15		951	Lansdale	ML851				930	
	Performance	93422AM			Harris	HM6617				ML852		9932	Lansdale	ML832	
93425	Vitesse	P4C422-15		93511		IM6716			Motorola	ML951			Motorola	ML932	
93427	Elantec	VS12G422TM			Lansdale	HL76161		951		MC851		9933	National	MC932	
	Lansdale	EDH0008			National	DM77S291A				MC852				DM932	
		HL7611		93511	Raytheon	932511M		951	National	MC951			Lansdale	ML933	
		ML7474 (3514)				29681		957	Lansdale	9951			Motorola	MC933	
93427	National	DM7474				29681A				ML857		9935	National	DM933	
		7474				29683		957	Motorola	ML957			Lansdale	ML385	
93427	Signetics	29683A				29683A				MC857				ML935	
	TI	WS57C191		93511	Waferscale	WS57C191		957	National	MC957			Motorola	MC835	
93436	Lansdale	SN7474				WS57C291B				DM9567				MC935	
93438	Lansdale	HL7620		93515	AMD	AM2864B		958	Lansdale	DM957			National	DM935	
	National	HL7640			ATMEL	AT28C64				9157		9936	Lansdale	9135	
		DM77S475				AT28HC64		958	Motorola	ML858				ML836	
93443	AMD	DM87S475		93515	Lansdale	AT28PC64				ML958			Motorola	ML936	
	Fujitsu	AM27S33			Motorola	HL76165		958		MC958			National	MC936	
	Lansdale	MB7122			Raytheon	MCM76165				DM958		9937	Lansdale	DM936	
	National	HL7643			Samsung	29653		9601	Lansdale	9158				936	
93451	AMD	DM74S573		93565	Signetics	KM28C65				ML74122 (3514)			Motorola	ML387	
	Cypress	AM27S181				82HS195			National	ML8601				ML937	
	Gould AMI	CY7C282M		93565	AMD	AM27S49			Signetics	DM8601			Motorola	MC837	
	Hitachi	S25089			ATMEL	27S49				DM9601				MC937	
	Lansdale	HN25089		93565		AT27HC641				N8T22			National	DM937	
		HL7681				AT27HC642				S8T22				937	

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
NEC Electronics (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
• μPB429	National	DM878291 932511 29683A TBP38A166 TBP38S166 WS57C191 WS57C291B	(Cont'd)	• μPB8288D	Newbridge OKI	CA82C88 MSM82C88 MSM82C88A	(3569)	• μPC1458	Harris	HA2102 HA5102 MPOP14 μA1458HC		• μPC301	Motorola	LM301	(Cont'd)
• μPB429	Raytheon	932511 29683A TBP38A166 TBP38S166		• μPB8289	Samsung	MSM82C88		• μPC1458	MicroPwr	MPPOP14			National	μA301 μA301A LM301 LM301A	
• μPB429	Waferscale	WS57C191 WS57C291B		• μPC1032H	Intel	82C89		• μPC1458	National	LF412			Samsung	KA301	
• μPB8212	AMD	AM8212			Mitsubishi	M5152L			Raytheon	μPC251			SGS-Thomson	LM301	
• μPB8216	Intel	8212			ROHM	BA328				RC4207				LM301A	
	OKI	IL8212			Samsung	KA2221		• μPC1458	Samsung	RC4227			SiliconG	LM301A	
	Intel	MSM82C12		• μPC1215	Sanyo	LA3161			SGS-Thomson	MC1458			TI	SG301	
	National	DP8216		• μPC1251	Toshiba	TA7325P		• μPC1458		μA1458				μA301	
		INS8216				TA7375P				MC1458				LM301	
• μPB8226	Intel	8226			Samsung	KA22461		• μPC1458	Signetics	NE5512		• μPC339	AD	CMPO4	
	Mitsubishi	M5L8226		• μPC1251	Sanyo	LA1135			TI	SA1458			Fujitsu	MB4204	
	National	DP8226			GoldStar	GL358			Toshiba	SE5512			Harris	CA339	
		INS8226		• μPC1251	Harris	CA0358A		• μPC1458		LF412			Motorola	LM393	
• μPB8228	Intel	8228			Hitachi	LM358				TA75458			Samsung	LM393	
	National	DP8228		• μPC1251	Motorola	LM358		• μPC1470H	Samsung	KA2401				LA6393	
		INS8228			National	LM358		• μPC1507C	Samsung	KA2981			Sanyo	SGS-Thomson	
• μPB8228	TI	SN74S428		• μPC1251	Samsung	LM358		• μPC151	Fujitsu	MB3609				LM393	
		TIM8228			SGS-Thomson	LM358A			Toshiba	TA7504				LM393	
• μPB8282	Harris	CP82C52		• μPC1251	Sanyo	LA6358		• μPC1534C	Unitrode	PIC7504			Signetics	LM393	
		82C82				LM358			Hitachi	HA11744			TI	LM393	
• μPB8282	Intel	82C82		• μPC1251	Signetics	LM358		• μPC1536C	Samsung	KA2944			Toshiba	TA75393	
	NEC	μPD71082			TI	LM348		• μPC157	Hitachi	KA11741		• μPC4082	Harris	CD4082B	
• μPB8284	OKI	MSM82C82		• μPC1251	Toshiba	TA75358			Samsung	27S29			Motorola	MC14082	
	AMD	D8284A		• μPC1365	Samsung	KA2151			AD	OP15			National	CD4082	
	Harris	CP82C84A			Toshiba	TA7193				PM157		• μPC4082	SGS-Thomson	F4082	
		82C84A		• μPC1366	Samsung	KA2912			Lansdale	HL7649				HCC4082	
• μPB8284	Intel	82C84A				KSO081			Motorola	LF351				HEF4082	
		8284A			Sharp	LH5021A			National	LF157A		• μPC4082	Signetics	TC4082B	
• μPB8284	Mitsubishi	M5L8284A		• μPC137	GoldStar	GL339				LF351			Toshiba	OP400	
		M5L8284AP			Harris	CA0339				LF353		• μPC451	AD	GL324	
• μPB8284	NEC	μPD71084				CA0339A			Raytheon	29621			GoldStar	HA17902	
		71084			Motorola	LM339			Samsung	KF351			Hitachi	LM2902	
• μPB8284	Newbridge	CA82C84A	(3569)		National	μA339			Signetics	PLS157			Motorola	MC33174	
	OKI	MSM82C84				LM339		• μPC1701C	TI	LF351			National	μA324	
		MSM82C84A			NEC	μPC177		• μPC177	Samsung	KA2804			SGS-Thomson	LM2902	
• μPB8284	Samsung	UC82C84A			Raytheon	LM339			GoldStar	GL339			Signetics	LM324	
• μPB8284A	AMD	D8284A			Samsung	LM339			Harris	CA0339			TI	LM2902	
	Harris	CP82C84A				LM339A				CA0339A			Toshiba	TA75902	
		82C84A			SGS-Thomson	LM339			Motorola	μA339		• μPC4574	AD	OPA471	
• μPB8284A	Intel	82C84A			TI	LM339			National	LM339			Burr-Brown	OPA404	
		8284A			Toshiba	TA75339				LM339		• μPC494	Fujitsu	MB3759	
• μPB8284A	Mitsubishi	M5L8284A		• μPC1373H	Samsung	KA2181			NEC	μPC137			GoldStar	GL494	
		M5L8284AP		• μPC1374H	Samsung	KA2182			Raytheon	LM339			National	μA494	
• μPB8284A	NEC	μPD71084				KA2183			Samsung	LM339			TI	TL494	
		71084		• μPC1378H	National	DS7830			SGS-Thomson	LM339			Toshiba	TA76494	
• μPB8284A	Newbridge	CA82C84A	(3569)		Samsung	KA2131				LM339		• μPC55	Unitrode	UC494A	
	OKI	MSM82C84			Sanyo	LA7830		• μPC2002	TI	LM339			AD	OP06	
		MSM82C84A			TI	SN55183			Toshiba	TA75339			Motorola	MC1709	
• μPB8284A	Samsung	UC82C84A		• μPC1379	Samsung	KA2133		• μPC2005	SGS-Thomson	TDA2002			National	μA709	
• μPB8286	Harris	KS82C84A		• μPC1401C	ATMEL	AT27C641								LM1709	
	Intel	82C86H				AT27HC64		• μPC2313CA	Samsung	KA8102				LM709	
		82C86		• μPC1401C	Cypress	CY7C266		• μPC2315CA	Samsung	KA8104		• μPC556	GoldStar	GLC556	
• μPB8286	National	DP8304			Fujitsu	MBM27C64		• μPC251	AD	OP14 (3245, 3248)			NCR	NCR65C00-1	
	NEC	μPD71086		• μPC1401C	Microchip	27HC64				OP270			Rockwell	R65C10	(3575)
	OKI	MSM82C86			National	NM27C64			Harris	HA2102			TI	NE556	
• μPB8287	AMD	8287			Samsung	KA2153			MicroPwr	HA5102		• μPC571	AD	ADC910	
	Harris	82C87H			Sharp	LH5762J			National	MPOP14				AD571	
	Intel	82C87				LH5763				μA1458HC				AD573	
		8287		• μPC1401C	TI	LH5764J				LF412			MCE	MCE571	
• μPB8287	NEC	μPD71087				TMS27C49				LM1458			National	μA571	
	OKI	MSM82C87		• μPC1401C	Toshiba	TA7644BP			Raytheon	RC4207		• μPC6012	Signetics	NE571	
• μPB8288	AMD	D8288			Waferscale	WS57C49B				RC4227			AMD	AM6012	
	Harris	CP82C88				WS57C64F			Samsung	MC1458			AD	AD6012	
		82C88		• μPC1411C	Samsung	KA2914A			SGS-Thomson	μA1458				DAC312	
• μPB8288	Intel	82C88			Toshiba	TA7680				MC1458				PM6012	
		8288		• μPC1414	Samsung	KA2913A				NE5512			Plessey	ZN6012	
• μPB8288	Mitsubishi	M5L8288S			Toshiba	TA7678			Signetics	SA1458			Signetics	AM6012	
	NEC	μPB8288D		• μPC1418	AD	OP04				SE5512		• μPC603	AD	DAC01C	
		μPD71088			Harris	CA0747				LF412		• μPC610	AD	DAC02C	
• μPB8288	Newbridge	CA82C88	(3569)		Hitachi	HA17747			TI	TA75458		• μPC617	Exar	XR555	
	OKI	MSM82C88			MicroPwr	MPOP04			Toshiba	TA75558				XR555M	
		MSM82C88A			Motorola	MC1747		• μPC277	Fujitsu	MB47393		• μPC617	GoldStar	GLC555	
• μPB8288	Samsung	KS82C88			National	μA747			National	LM393			Harris	CA0555	
• μPB8288D	AMD	D8288				LM747			Toshiba	TA75393				NE555	
	Harris	CP82C88			Raytheon	RC747		• μPC301	AD	AD301		• μPC617	Mitsubishi	M5E555	
		82C88			Signetics	μA747				OP77				M51841	
	Intel	82C88			TI	μA747M			Harris	CA0301A				M51848	
		8288		• μPC1458	AD	OP14 (3245, 3248)			LinearTech	LM301		• μPC617	Motorola	MC1455	
	Mitsubishi	M5L8288S				OP270				LM301A			National	μA555	
	NEC	μPD71088												LM555	
		71088													

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
NEC Electronics (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
• μPC617	Samsung	NE555		• μPD2167	Sharp	LH5167		• μPD2364	Sharp	LH2364A		• μPD27C256	Krueger	27C256-250	(3513)
	SGS-Thomson	NE555		μPD23C1000EA	Vitelco	V61C67			Signetics	2364				27C256-300	(3513)
		SE555			Hitachi	HN62321A			TI	TMS2364		• μPD27C256	Microchip	R09256	
• μPC617	TI	SE555		μPD23C1001E	NEC	μPD23C1001E		• μPD2364E	VLSI Tech	VT2364				27C256	
		SE555M			UMC	UM23C1025			Weitek	SC8164		• μPD27C256	Mitsubishi	M5M27C256	
• μPC617	Toshiba	TA7555		μPD23C1010A	Hitachi	HN62321A			NCR	NCR2364			OKI	MSM27C256	
μPC624	AD	ADDAC-08			UMC	UM23C1025			Plessey	SL2364C		• μPD27C512	Ricoh	RD27C256	
	Datel	DAC1508			Hitachi	HN62321E			S-MOS	SMM2364			SEEQ	27C256	
	Motorola	DAC08B			Mitsubishi	HN62321E			Sharp	LH2364A		• μPD27C256	Toshiba	TMS27C256	
	National	DAC08			Samsung	M5M23C100			Signetics	2364				TMS27C256	
		DAC0801			Sharp	KM23C1000		• μPD27C1001	VLSI Tech	VT2364				TC54256	
	Raytheon	DAC0802			Toshiba	LH531000			Weitek	SC8164		• μPD27C256	VLSI Tech	VT27C256	
	Samsung	DAC08		• μPD23C128E	UMC	UM23C1024			ATMEL	AT27C010		• μPD27C512	Fujitsu	WS27C256L	
		KDA0800			Mitsubishi	M5M23128			ICT	27CX010			Hitachi	MBM27C512	
		KDA0801			Samsung	KM23128			Mitsubishi	M5M27C100K			IDT	IDT7M856S	
		KDA0802			UMC	UM23C128			SGS-Thomson	m27C1001		• μPD27C512	Krueger	IDT8M824	
μPC78M20	Motorola	MC78M20		μPD23C2001	Sharp	UM23C2000				M27C1001				27C512-200	(3513)
	National	μA78M20			Toshiba	TC53200P			Waferscale	WS27C010L				27C512-250	(3513)
		LM78M20		μPD23C256E	Hitachi	HN623257P			AMD	AM27C010		• μPD27C512	Mitsubishi	M5M27512	
	Samsung	MC78M20C			Mitsubishi	M5M23256			ATMEL	AT27C010			National	NMC27C512	
	SGS-Thomson	L78M20			Samsung	KM23256			Catalyst	CAT27C010			Ricoh	TMS27C512	
	TI	μA78M20			Sharp	KM23257			Semi	CAT27010			SGS-Thomson	M27C512	
	Toshiba	TA78M20			Hitachi	LH53257			Fujitsu	MBM27C1001			TI	TMS27C512	
• μPC7806	GoldStar	GL7806			Sharp	TC53257P			Hitachi	HN27C010G		• μPD27C512	Toshiba	TMS27C512	
	Samsung	MC7806			UMC	TC53256P				HN27C010G				TC54512	
	SGS-Thomson	μA7806		μPD23C4000	Fujitsu	MB834200				HN27C101G		• μPD27C512	VLSI Tech	TC57512	
		L7806			Hitachi	HN62404			Intel	HN27C301G		• μPD27C512D	Fujitsu	VT27C512	
• μPC7806	Toshiba	TA78006			Mitsubishi	M5M23C400				27010			Hitachi	MBM27C512	
• μPC7809	GoldStar	GL7809			Sharp	LH534000			Krueger	27C210			IDT	HN27C512G	
	Hitachi	HA17809			Toshiba	TC534000	(3678)		Mitsubishi	M5M27C101K				IDT7M856S	
	Motorola	MC7809			UMC	TC534000P	(3678)			M5M27C102		• μPD27C512D	Krueger	IDT8M824	
	National	μA7809				UM23C4000			National	M5M27C102K				27C512-200	(3513)
		LM7809		μPD23C4001E	Hitachi	HN62304B			S-MOS	SMM63100				27C512-250	(3513)
	TI	μA7809			Samsung	KM23C4000			Toshiba	TC571001		• μPD27C512D	Mitsubishi	M5M27512	
	Toshiba	TA78009			Sharp	LH534300			Waferscale	WS27C010L			National	NMC27C512	
μPC7909	GoldStar	GL7909			UMC	UM23C4001	(3688)	• μPD27C1024	AMD	AM27C1024			Ricoh	TMS27C512	
	National	μA7909							ATMEL	AT27C1024			SGS-Thomson	M27C512	
	SGS-Thomson	L7909		• μPD23C512	NCR	NCR23C512				AT27HC1024			TI	TMS27C512	
	TI	μA7909			Samsung	KM23C512		• μPD27C1024	Catalyst	CAT27C210		• μPD27C512D	Toshiba	TMS27C512	
	Toshiba	TA79009			Sharp	LH53513			Semi	DPV27C1024A				TC54512	
μPD100500	Hitachi	HM100500			Toshiba	TC53512P	(3688)		Dense-Pac	DPV27C1024A		• μPD27C512D	VLSI Tech	TC57512	
μPD100504	Hitachi	HM100504			UMC	UM23C512	(3688)	• μPD27C1024	Krueger	27C210			ATMEL	AT27C512	
μPD10504	Hitachi	HM10504		μPD23C64E	VLSI Tech	VT23512			Microchip	27C1024		• μPD27C64	Intel	MT27C64	
μPD1913C	Samsung	KS5803A			Mitsubishi	M5M2364			National	μPD27C1024			Krueger	27C64-200	(3513)
• μPD2114	AMD	AM9114			Samsung	KM2365				NMC27C1024				27C64-250	(3513)
	Intel	2114A			Sharp	LH2369		• μPD27C1024	NEC	μPD27C1024A		• μPD27C64	Microchip	27C64-300	(3513)
	Krueger	2114A			Toshiba	TC5364P			OKI	MSM27C1024			National	27C64	
		2114-150	(3513)		UMC	TC5365P			SGS-Thomson	M27C1024			SGS-Thomson	NMC27C64	
• μPD2114	Mitsubishi	M5L2114		• μPD231000	AMD	UM23C64				27C1024				SPM27C64	
	Motorola	M5L2114			Cypress	PAL16R4		• μPD27C1024	Signetics	27C210			Signetics	TS27C64A	
	National	F2114				PALC16R4		μPD27C1024A	AMD	AM27C1024		• μPD27C64	TI	27C64	
		NMC2114A		• μPD231000	Gazelle	GA23SV8			ATMEL	AT27C1024				TMS27C64	
• μPD2114	OKI	MSM2114			GoldStar	GM123024				AT27HC1024				TMS27C64	
	Rockwell	R6514			Harris	HPL16R4				AT27HC1024		• μPD27C64	VLSI Tech	VT27C64	
	Sharp	LH2114			Intel	5C031			Catalyst	CAT27C210			Waferscale	WS27C64L	
	Toshiba	TMM2114A				5C032			Semi	DPV27C1024A		μPD27HC65	AMD	AM27S49	
	UMC	UM6114		• μPD231000	Lattice	GAL16V8A			Dense-Pac	DPV27C1024A				27S49	
• μPD2147	AMD	AM2147				GAL16V8A			Fujitsu	MBM27C1024			ATMEL	AT27HC641	
	Cypress	CY2147				GAL18V10			Hitachi	HN27C1024				AT27HC642	
		CY7C147		• μPD231000	National	PAL16R4				HN27C1024G			Cypress	CY7C261	
• μPD2147	Fujitsu	MBM2147			Samsung	CPL16R4		• μPD27C1024	Krueger	27C210				CY7C263	
	Intel	M2147H				CPL16R4-35			Microchip	27C1024				CY7C264	
		2147		• μPD231000	Signetics	PLUS16R4			National	μPD27C1024			Fujitsu	MBM7144	
		2147H			TI	TIBPAL16R4			OKI	NMC27C1024				MB7144E	
• μPD2147	Krueger	2147-35	(3513)	• μPD23128E	AMD	AM9128			SGS-Thomson	M5M27C1024			ICT	27CX641	
		2147-45	(3513)		Gould AMI	S23128				M27C1024			Microchip	27HC641	
		2147-55	(3513)		Microchip	R09128		• μPD27C2001	Signetics	27C210			National	32Z565	
• μPD2147	National	MM2147			NCR	NCR23128			AMD	AM27C020				93Z665	
		NMC2141			Signetics	23128			Intel	27C020				93Z665C	
		NMC2147H			UMC	UM23128		• μPD27C256	Mitsubishi	M5M27C201K				93Z667	
	SGS-Thomson	NM2147			VLSI Tech	VT23128			ATMEL	AT27HC256			Sharp	93Z667C	
		ET2147				VT23129				AT27256				LH5749	
• μPD2167	Cypress	CY7C167A				VT23130		• μPD27C256	Catalyst	CAT27HC256			Signetics	N82HS641	
	Intel	51C67				VT23138			Semi	HN27C256				27HC641	
	LogicDev	L7C167		• μPD2364	NCR	NCR2364			Hitachi	27C256	(3501)			27HC642	
	MicronTech	MT5C1601			OKI	MSM3864			Intel	27C256			SiliconSys	82HS641	
	SGS-Thomson	MK41H66			Plessey	SL2364C			Krueger	27C256-200	(3513)			SS1203	
					S-MOS	SMM2364							TI	TMS278C49	

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
NEC Electronics (Cont'd)				μPD28C256 (Cont'd)				μPD411000 (Cont'd)				μPD41256 (Cont'd)			
μPD27HC65	Waferscale	WS57C49	(Cont'd)	Hitachi	Microchip	HN58C256	(3745)	SGS-Thomson	Siemens	MKB45F56		Vitelc	V51C257		(Cont'd)
μPD27128	AMD	WS57C49B		Samsung	SEEQ	28CP256A		TI	HYB511000	HYB511000		Western	V53C256		
ATMEL	AT27C128			SEEQ	28C256	28C256B		Toshiba	TMS4C1024	TMS4C1024		Hitachi	WCM41256		
Krueger	27128-200 (3513)			Simtek	28256	KM28C256		μPD411000	TM4256FC1	TM4256FC1		μPD41257	HM50257		
	27128-250 (3513)			Xicor	STK28C256	28C256			TM5256	TM5256		Mitsubishi	MSM4257		
	27128-300 (3513)				X28C256 (3745)				TC511000	TC511000C		μPD41257	M5M4257A		
	27128A-450 (3513)			μPD28C64	AMD	AM2864A		μPD411000C	Dense-Pac	TC511001C		National	MSM41257A		
μPD27128	National	NMC27128		ATMEL	AM9864	AT28C64		Fujitsu	DPD411M	DPD411M		OKI	MSM41257A		
SGS-Thomson	MSM27128				AT28HC64	AT28HC64		GoldStar	MB81C1000	MB81C1000		Samsung	TMS4257		
	M27128				AT28PC64	AT28PC64		Hitachi	TH22568	TH22568		Vitelc	V51C257		
	LH57128				AT2864	AT2864			GM71C1000	GM71C1000		μPD41264	V53C256		
μPD27128C	Sharp	LH57128		Catalyst	CAT28C64A	CAT28C64A			HB561003	HB561003		Fujitsu	MB61461		
AMD	AM27C128			Semi	CAT28C65A	CAT28C65A			HM511000	HM511000		Hitachi	MB81464		
ATMEL	AT27C128			EXEL	XLS2864A	XLS2864A		μPD411000C	Hyundai	HY51C1002		Hyundai	HM50464		
Krueger	27128-200 (3513)				XL2864A	XL2864A			HY51C1002	HY51C1002		IDT	DPS9264		
	27128-300 (3513)			Fujitsu	MBM28C64	MBM28C64		μPD411000C	MicronTech	MT4C1024		Krueger	4464-100 (3513)		
	27128A-450 (3513)			Hitachi	HM58064	HM58064			MH25608	MH25608			4464-120 (3513)		
μPD27128C	National	NMC27128			HN58C64	HN58C64		μPD411000C	Mitsubishi	MT4C1024			4464-150 (3513)		
OKI	MSM27128				HN58C65	HN58C65				MH25609		MicronTech	MT4067		
SGS-Thomson	M27128				HN58C66	HN58C66				M5M4C1000		Mitsubishi	MCM41464		
	LH57128				HN58064	HN58064				M5M41000S			MSM4464P		
μPD27256	Sharp	LH57128		IDT	IDT7M7864	IDT7M7864		μPD411000C	Motorola	MCM511000A			MSM4C264		
ATMEL	AT27HC256				IDT78C64A	IDT78C64A			NEC	MC421000			M5M4464		
Catalyst	27256			Intel	I2864A	I2864A		μPD411000C	OKI	MSM41000		Motorola	MCM41464		
Rsch	M27256			Microchip	28C64A	28C64A			Samsung	KM41C1000		NEC	μPD41464		
Intel	P27257			Mitsubishi	M5M28C64	M5M28C64		μPD411000C		KM41C1000		OKI	MSM41464		
	27256			National	NMC28C64	NMC28C64				KM41256A		Samsung	KM41464		
μPD27256	Krueger	27256-200 (3513)		OKI	MSM28C64	MSM28C64		μPD411000C	SGS-Thomson	MKB45F56		Vitelc	V53C464		
		27256-250 (3513)			MSM2864	MSM2864			Siemens	HYB511000		μPD41416	M5M4416		
		27256-300 (3513)		Samsung	KM28C64	KM28C64			TI	TMS4C1024		μPD414256	KM41256A		
μPD27256	Mitsubishi	MSL27256		SEEQ	DQ2864	DQ2864				TM4256FC1			TMS44C256		
		M5M27256			DQ2864H	DQ2864H		μPD411000C	Toshiba	TM5256		μPD41464	MB61461		
μPD27256	Motorola	MCM67256			DQ52B33	DQ52B33				TC511000		Hitachi	MB81464		
OKI	MSM27256				28C64	28C64				TC511000C		Hyundai	HM50464		
SGS-Thomson	M27256				2864	2864		μPD411001	Dense-Pac	DPD411M		IDT	DPS9264		
	LH57256				2864A	2864A			Fujitsu	MB81C1000		Krueger	4464-100 (3513)		
TI	TMS27C256				2865A	2865A		μPD411001	GoldStar	GM71C1000			4464-120 (3513)		
Toshiba	TC57H256			Xicor	X28C64 (3744)	X28C64M (3744)			Hitachi	HM511000			4464-150 (3513)		
SGS-Thomson	M27256-3				X2864A (3741)	X2864A (3741)				HM51101		MicronTech	MT4067		
μPD2732	Intel	M2732		μPD3571D	Toshiba	TC106C				HM51102		Mitsubishi	MCM41464		
	2732			μPD3573D	Toshiba	TC102C				HM51102			MSM4464P		
	2732A			μPD3574D	Toshiba	TC103C				HM561003			M5M4C264		
μPD2732	Krueger	2732-250 (3513)		μPD3575D	Toshiba	TC132C		μPD411001	Hyundai	HY51C1000		Motorola	MCM41464		
		2732-300 (3513)		μPD4016	Harris	CD4016B				HY51C1002		NEC	μPD41264		
		2732-350 (3513)			Motorola	MC14016		μPD411001	MicronTech	MT4C1024		OKI	MSM41464		
		2732-450 (3513)				MC14066			Mitsubishi	MH25608		Samsung	KM41464		
		2732A-250 (3513)		μPD4016	National	CD4016				MH25609			KM41464A		
		2732A-300 (3513)				CD4066				M5M4C1000		Vitelc	V53C464		
		2732A-350 (3513)				F4016		μPD411001	Motorola	M5M41000S		μPD416	4116-120 (3513)		
		2732A-450 (3513)				F4066			NEC	M5M410000		Krueger	4116-150 (3513)		
μPD2732	National	MM2732		μPD4016	SGS-Thomson	HCC4016		μPD411001	OKI	MCM511000A			4116-200 (3513)		
		NMC2732				HCC4066				MC421000		μPD416	National	F16K	
μPD2732	OKI	MSM2732				HCF4016		μPD411001	Samsung	MSM41000			F4116		
SGS-Thomson				μPD4016	Signetics	HCF4066				KM41C1000		μPD416	MM5290		
	TI	M2732A				HEF4016		μPD411001	SGS-Thomson	KM41256A		μPD416	OKI	MSM3716	
μPD27512	Catalyst	27512		μPD4016	Toshiba	TC4016B				MKB45F56			Siemens	HYB4116	
Rsch	HN27512					TC4066B				HYB511000		μPD4164	Signetics	2690	
Hitachi	N27512			μPD4016	Unitrode	PIC7516				TMS4C1024			IDT	DPS9264	
Intel	P27512			μPD411000	Dense-Pac	DPD411M				TM4256FC1		μPD4164	Intel	M2164A	
	27512				Fujitsu	MB81C1000		μPD411001	Toshiba	TM5256			Krueger	4164-120 (3513)	
μPD27512	Krueger	27512-200 (3513)				TH22568				TC511000				4164-150 (3513)	
		27512-250 (3513)		μPD411000	GoldStar	GM71C1000				TC511000C		μPD4164	National	4164-200 (3513)	
μPD27512	Mitsubishi	M27512			Hitachi	HB561003				TC511001C				F4164	
OKI	MSM27512					HM511000		μPD41254	Fujitsu	MB81461		μPD4164	OKI	NMC4164	
SGS-Thomson	M27512					HM51101			Hitachi	HM53462			Panasonic	MM4864	
	M27512					HM51102				MT42C4064		μPD4164		MM4864	
	M27512					HM561003				MB81461			Samsung	KM4164A	
μPD28C04	TI	TMS27C512		μPD411000	Hyundai	HY51C1000				V53C261		μPD4164		KM4164B	
ATMEL	AT28C04					HY51C1002		μPD41256	Fujitsu	MB81256			Siemens	HYB4164	
	AT2804			μPD411000	MicronTech	MT4C1024			Hitachi	HM50256			TI	SM4164	
Catalyst	28C04				Mitsubishi	MH25608				HM50257		μPD421000	Dense-Pac	DPD411M	
Rsch	XL2804					MH25609				HY51C256			Fujitsu	MB81C1000	
EXEL	28C04					M5M4C1000				HY53C256				TH22568	
Microchip	28C04A					M5M41000S				MSM4257			GoldStar	GM71C1000	
SEEQ	2804					M5M4257				MT1259			Hitachi	HB561003	
	2804A			μPD411000	Motorola	MCM511000A				MSM37256				HM511000	
	X24C04 (3736)				NEC	MC421000				MSM37257A				HM51101	
μPD28C256	ATMEL	AT28HC256		μPD411000	OKI	MSM41000				MSM41256				HM51102	
		AT28HC256			Samsung	KM41C1000				KM41256				HM561003	
						KM41256A				KM41256A				HY51C1000	
			(Continued)				(Continued)				(Continued)				(Continued)

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
NEC Electronics (Cont'd)				• μPD42356	Inova IDT	S32K8 IDT7M856S IDT71256L IDT71256S IDT8M824 L7C199		μPD424258	Mitsubishi Samsung Vitelc	M5M44258A KM44C258 V51C257 V53C256	(Cont'd)	μPD4311	Saratoga SGS-Thomson	SSM6167 IMS1403 MK41H66 MK41H67 LH5167	(Cont'd)
μPD421000	MicronTech Mitsubishi	MT4C1024 MH25608 MH25609 M5M4C1000 M5M41000S M5M410000 MCM511000A	(Cont'd)	• μPD42356	LogicDev MicronTech Mitsubishi Mosel Motorola National NEC OKI	MT5C2568 M5M5256 MS62256 MCM60256A NM44251 μPD43256B MSM51257JS MSM51257LRS MSM51257RJ MSM51257RS		μPD424400	Fujitsu Hitachi MicronTech Mitsubishi Mosaic Motorola OKI Panasonic Samsung Siemens TI	MB814400 HM514400 MT4C4001 M5M44400 MDM41000 MCM514400 OKI MN41C41000 KM44C1000 HYB514400 TMS44400 Toshiba TC514400		μPD4314	Sharp AMD Fujitsu Hitachi	AMS2168 MB81C68A HM6168HP HM6268L IDT6168A IDT6168L IDT6168LA IDT6168S	
	Motorola NEC OKI Samsung	MC421000 MSM41000 KM41C1000 KM41256A		• μPD42356	Performance S-MOS	P4C1256 SRM20256 SRM20256C SRM2257		μPD424402	Mitsubishi Panasonic Toshiba	M5M44402 MN41C41002 TC514402			Intel LogicDev Mitsubishi Motorola Ricoch	51C68 L7C168 M5M21C68P MCM6168 PS6168	
	SGS-Thomson	MKB45F56 HYB511000 TMS4C1024 TM4256FC1 TMS5256		• μPD42356	Samsung	KM62256 KM68257		μPD424410	Hitachi	HM514410		μPD4314C	SGS-Thomson	IMS1423 MK41168	
	Siemens TI	TC511000 TC511000C TC511001C MB81C1001 HY51C1001 M5M4C1001		• μPD42356	Sharp	LH52256 LH52259		μPD42458	Fujitsu Hitachi Hyundai MicronTech Mitsubishi Motorola NEC OKI	TC514410 MB81C4258 HM514258 HY51C4258 MT4C4258 M5M44C258 MCM514258A μPD424258 MSM514257 MSM514258 KM44C258 LH64258			Sony Toshiba VLSI Tech Cypress Hitachi IDT	CXK5416P/K TMM2068AP VT2069 CY7C168A HM6268 IDT6168 IDT6168SA M5M2168 MCM6268	
μPD421001	Fujitsu Hitachi Hyundai Mitsubishi Motorola NMB OKI Samsung TI	MCM511001A AAA1M200 MSM41001 KM41C1001 TMS4C1025 TC511001		• μPD42356	UMC	UM62256A DPD4MM1		μPD428128	Samsung Sharp Toshiba	MSM514258 MSM514258 LH64258 TC514258		μPD43254	Mitsubishi Motorola Performance SGS-Thomson	MK41H68 CXK5416 UM6128-35 V61C68 V120C68 VT20C68 VT20C69	
	Toshiba	TC511001		μPD424100	Dense-Pac Fujitsu Hitachi MicronTech Mitsubishi	MB814100 HM514100 MT4C1004 M5M44100 M5M441000		• μPD42832	Hitachi	HM658128			Sony	CXK5416D UM6128-35	
μPD421002	Fujitsu Hitachi	MB81C1002 HM511002			Mosaic Motorola OKI	MDM14000 MCM514100 MCM514100		• μPD42832	Krueger Toshiba	658128 TC518128	(3513)		UMC Vitelc VLSI Tech	V61C68 V120C68 VT20C68 VT20C69	
	MicronTech Mitsubishi Motorola	MT4C1026 M5M4C1002 MCM511002A		μPD424101	Samsung Siemens TI	KM41C4000 HYB514100 TMS44100		• μPD42832	GoldStar Hitachi	GM76C256 HM65256		μPD43254	Cypress EDI Fujitsu	CY7C194 ED18465C MB8184	
	NMB OKI Samsung	AAA1M100 MSM41002 KM41C1002			Toshiba Hitachi	TC514100 HM514101		• μPD42832	Hitachi	65256 IDT7M856S IDT8M824	(3513)		Hitachi	MB82B84 HM6708	
	TI	TMS4C1027			Mitsubishi OKI	M5M44101 MSM5144101		μPD431000	Mitsubishi Toshiba	TC51832 MB841000		• μPD43256	IDT MicronTech	IDT71258 MT5C2564	
	Toshiba	TC511002		μPD424102	Mitsubishi Panasonic Samsung	M5M44102 MN41C4002 KM41C4002			Fujitsu Hitachi Mitsubishi	HM628128 HM510008 M5M51008			Mitsubishi Motorola SGS-Thomson	MT5C2564 M5M5258 MCM6208	
• μPD42264	Vitelc Fujitsu Hitachi	V51C101 MB81461 HM53462			Toshiba Fujitsu	TC514101 MB81C4256		μPD431000A	NEC Samsung Sony	μPD431000A KM681000 CXK581000 CXK581001			Sony TI	IMS1820 CXK54256 TMS6708	
	MicronTech Mitsubishi	MT42C4064 MB81461		μPD424256	Panasonic Samsung TI	MCM514256A KM41C4001 TMS44101			Toshiba Fujitsu Hitachi	TC51001 MB841000 HM628128		• μPD43256	Toshiba VLSI Tech GoldStar Inova	TC55464 VT6208 GM76C256 S32K8	
μPD42273	Vitelc Fujitsu	V53C261 MB81C4251			Mitsubishi Panasonic	M5M44C256 M5M44C256			Mitsubishi	M5M51008 M5M51008			LogicDev Mitsubishi	L7C199 M5M5256	
	Hitachi	HM534251			Samsung	MCM514256A			NEC Samsung Sony	μPD431000 KM681000 CXK581000		μPD43256-L	S-MOS Samsung Toshiba	SRM20256C KM62256 TC55257	
	Mitsubishi	M5M442256		μPD424256	Hitachi	GM71C4256			TI	TMS62828			Dense-Pac	DPS92256	
	NEC	MSM514251			Hyundai	HY51C4256			Toshiba	TC551001			Fujitsu	DPS92256L	
	OKI	MSM514252			MicronTech	MTC4256			Hitachi	MB82B001			Hitachi	HM62256L	
	Samsung	KM42C4256			Mitsubishi	M5M44C256		μPD431001	Intel	MT5C1001			Mitsubishi Motorola	M5M5256-L MCM60L256A	
	TI	TMS44C251			Motorola	MCM514256A			Mitsubishi	M5M51001			Samsung	MCM61256	
	Toshiba	TC524256		μPD42274	NEC	μPD424256A			Samsung	KM611001		μPD43256A	Toshiba	TC55257AL	
	Fujitsu	TC524256A			NMB	AAA1M104			NEC	MT5C1005			Cypress	CY7C198	
μPD42274	Hitachi	MB81C4251			OKI	MSM41005			Samsung	MT5C1005			EDI	CY7C199	
	Hitachi	HM534251				MSM414256			Sony	MT5C1005			Fujitsu	DPS92256L	
	Mitsubishi	HM534253			Samsung	MSM514256			TI	TMS62456			Hitachi	HM62832	
	NEC	M5M442256			Sharp	KM44C256		μPD431004	Hitachi	HM624256			IDT	IDT71256	
	OKI	MSM514251			Siemens	LH64257			Intel	MT5C1005			Lattice	SR256K8	
	Samsung	MSM514252			TI	HYB514256			MicronTech	MT5C1005			Motorola	MCM6206	
	TI	KM42C4256			Toshiba	TMS44C256			Mitsubishi	MT5C1005			SGS-Thomson	IMS1830	
	Toshiba	TC524256		μPD424256A	Fujitsu	MB81C4256			Samsung	MT5C1005				IMS1830	
	Hitachi	TC524256A			GoldStar	GM71C4256			Hitachi	MT5C1005			Sony	MX48Z30	
μPD42275	Mitsubishi	HM538122			Hitachi	HM514256			Intel	MT5C1005			Toshiba	CXK58255	
	TI	N5N482128			Hyundai	HY51C4256			MicronTech	MT5C1005			VLSI Tech	VT62832	
	Toshiba	TMS48C121			MicronTech	MTC4256			Mitsubishi	MT5C1005					
		TC524128A			Mitsubishi	M5M44C256		μPD4311	AMD	AM2167					
		TC528128			Motorola	MCM514256A			Cypress	CY7C167A					
• μPD42356	Catalyst Semi	CAT71C256 CAT71C256L			NEC	μPD424256			Harris	HM65262					
• μPD42356	Cypress Dense-Pac	CY7C197 DPS92256 DPS92256L			NMB	AAA1M104			Hitachi	HM6267					
• μPD42356	GoldStar	GM76C256			OKI	MSM41005			IDT	IDT6167					
	Hitachi	HM61256				MSM514256			Intel	51C66					
		HM62256			Samsung	KM44C256			LogicDev	51C67					
• μPD42356	Hyundai	HY62C256 HY63C256 HY63C256L			Sharp	LH64257			MicronTech	MT5C1601					
					Siemens	HYB514256			Mitsubishi	M5M21C67					
					TI	TMS44C256			Motorola	MCM2167					
					Toshiba	TC514256			S-MOS	SRM2267					
					Hitachi	HM51258				SRM2367					
					Hyundai	HY51C4258									

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

УЧЕБНОЕ ПОСОБИЕ

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
NEC Electronics (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
μPD765A			(Cont'd)	μPD8237A	Samsung	KS82C37A		LM350	Motorola	LM350		MC41256	Motorola	MT1259	
μPD7658	Zilog	Z765A				KS8237A			National	μA350			NEC	μPD41256	
	NEC	μPD72065			Toshiba	TMP82C37				LM350			OKI	MSM37256	
	SMC	FDC72C65		μPD8243	Intel	8243			SiliconG	SG350	(3642)			MSM37257A	
		FDC765A			Lansdale	RL8243		LM3524	Unitrode	UC350		MC41256	Samsung	KM41256	
μPD7720	Zilog	Z765A			Signetics	N8243		LM723	Motorola	SG3524				KM41256A	
μPD780	Gould AMI	S7720		μPD8251A	Intel	P8251			Harris	CA0723		MC41256	Vitelco	V51C257	
	GoldStar	Z8400			National	82C51			Motorola	MC1723				V53C256	
	SGS-Thomson	Z80ACPU			OKI	INS8251			National	μA723		MC41256A	Western	WCM41256	
		Z80ACCTC				MSM82C51				μA723M			Dense-Pac	DPD44256	
		Z84C00				MSM82C51A				LM723			Peps	PEP4256EC4	
		Z8400				SMC82C51AC			Samsung	LM723		MC41256A5	TI	TM4256EC4	
μPD780	Sharp	LH0080		μPD8253	Intel	8253			SGS-Thomson	μA723			Dense-Pac	DPD4256	
	Toshiba	TMP284C00			National	INS8253				LM723			Hitachi	HB561005A	
	Zilog	Z84C00		μPD8255A	AMD	D8255A			Signetics	μA723		MC41256A8	TI	TM4256E05	
		Z8400			Harris	82C55A			SiliconG	SG723	(3642)			MB85225	
μPD80C35	Intel	80C35			Intel	P8255			TI	μA723		MC41256A9	Peps	PEP4256EL8	
μPD80C48	Toshiba	TMP80C35				82C55A		MC411000	Dense-Pac	μA723M			Dense-Pac	DPD42569	
μPD80C49	Intel	80C48			Mitsubishi	M5M82C55A			Fujitsu	DPD411M			MicronTech	MT9259	
μPD80C50	Toshiba	TMP80C48			NEC	M5M82C55AP				MB81C1000			Mitsubishi	MH25609A	
μPD80C50	Intel	80C50				μPD71055			GoldStar	TH22568				MH25609J	
μPD8035	Toshiba	TMP80C50				71055			Hitachi	GM71C1000				MSC2304KS9	
	Intel	8035			Newbridge	CA82C55A (3569)				HB561003				MSC2304YS9	
	National	INS8035			OKI	MSM82C55A				HM511000				KMM49256	
	Siemens	SAB8031A			S-MOS	SMC82C55AC				HM51101				KMM59256	
	Toshiba	TMP8035			Samsung	KS82C55A				HM51102				TMM4256EL9	
μPD8041A	Intel	8041A			Toshiba	TMP82C55				HM561003				TMM4256G09	
μPD8048	Intel	8048			UMC	UM82C55A (3689)				HY51C1000				TMM4256EL9	
	National	INS8048			Intel	8257			MC411000	HY51C1002				TMM4256G09	
	Signetics	SCN8048			μPD8257	CP82C59A				MT4C1024				MT8C8026	
	Toshiba	TMP8048			μPD8259A	82C59A				MH25608				MT8C902MN	
μPD8049	Intel	8049				82C59A				MH25609				MH1M08A0J	
	National	INS8049				8259A				M5M4C1000				MH1M09A	
	Signetics	SCN8049				MT8259				M5M41000S				TH310008	
	Toshiba	TMP8049				M5M82C59				M5M410000				MC42100C8	
μPD8085	Intel	P8085AH				M5M82C59AP				MCM511000A				MSC2313KS8	
	Krueger	8085AH (3513)				M5M82C59AP				μPD421000				MSC2313YS8	
		8085AH (3513)				INS8259				MC421000				1MX8	
	Mitsubishi	M5M80C85A				μPD71059				MSM41000				KMM481000	
	Newbridge	CA80C85B (3569)				71059				KM41C1000				THM81000AL	
	OKI	MSM8085				CA82C59A (3569)				KM41256A				THM81000AS	
μPD8155	Harris	HS81C55				MSM82C59				MKB45F56				MT8C8026	
μPD8156	Intel	8155				MSM82C59A				HYB511000				MT8C902MN	
	Intel	HS81C56				KS82C59A				TMS4C1024				MH1M08A0J	
	NEC	8156-2				TMP82C59				TM4256FC1				MH1M09A	
μPD8156-2	Harris	8156				UM8259A				TM5256				TH310008	
	Intel	8156-2				VL82C59A				TC511000				MC42100A8	
μPD8237	AMD	AM8237A				8279				TC511000C				MSC2313KS8	
		D8237A				8741A				TC511001C				MSC2313YS8	
		8237A				8748				DPD411M				1MX8	
μPD8237	Harris	CP82C37A				NS80CX48				MB81C1000				KMM481000	
		82C37A				7555				TH22568				THM81000AL	
μPD8237	Intel	8037A				8755A				GM71C1000				THM81000AS	
		82C37A				T7513A				HB561003				DPD411M	
		8237				29C13				HM511000				MB81C1000	
		8237A-4				TCM29C13				HM51101				TH22568	
		8237A-5				TCM2913				HM51102				GM71C1000	
μPD8237	Mitsubishi	M5M82C37A				2133				HM561003				HB561003	
		M5M82C37AP				2914				HM511000				HM511000	
μPD8237	NEC	μPD71037				TCM29C14				HY51C1002				HM51101	
		μPD8237A				TCM2914				HY51C1002				HM51102	
μPD8237	Newbridge	CA82C37A (3569)				TCM29C16				MT4C1024				HM561003	
	OKI	MSM82C37A				TCM29C16				MH25608				HY51C1000	
	S-MOS	SMC82C37A				TCM2916				MH25609				HY51C1002	
	Samsung	KS82C37A				TCM2916				M5M4C1000				MT4C1024	
μPD8237	Toshiba	TMP82C37				TCM2917				M5M41000S				MH25608	
	VLSI Tech	VL82C37A				TCM2917				M5M410000				MH25609	
μPD8237A	AMD	AM8237A				TCM2917				MCM511000A				M5M4C1000	
		D8237A				MB6051A				μPD421000				M5M41000S	
		8237A				HD44238				MC421000				M5M410000	
		CP82C37A				LM317				MSM41000				MCM511000A	
		82C37A				LM317				KM41C1000				μPD421000	
		8037A				LM317L				KM41256A				MSM41000	
		82C37A				LM317								KM41C1000	
		8237				LM317L								KM41256A	
		8237A-4				LM317									
		8237A-5				LM317									
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		8237A-4				LM317					</				

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
OKI Semiconductor (Cont'd)				MSM2716			(Cont'd)	MSM28C64			(Cont'd)	MSM37256A			(Cont'd)
MSM27C1024		(Cont'd)		National	MM2716			Samsung	KM28C64			MicronTech	MT1259		
Hitachi	HN27C1024			SGS-Thomson	M2716			SEEQ	KM2864A			Mitsubishi	M5M4256A		
	HN27C1024G				AT27HC256				DQ2864			Motorola	MCM6256B		
Krueger	27C210			ATMEL	2716				DQ2864H			Panasonic	MN41256		
Microchip	27C1024			Catalyst	27256				DQ52B33			Samsung	KM41256A		
National	μPD27C1024			Rsch	27256				28C64			Siemens	HYB41256		
	NMC27C1024			Intel	P27257				2864			Vitelco	V51C257		
NEC	μPD27C1024A				27256			Xicor	2864A				V53C256		
SGS-Thomson				Krueger	27256-200 (3513)				2865A			MSM37257A	MB81256		
	M27C1024				27256-250 (3513)				X28C64 (3744)			Fujitsu	HM50256		
	27C1024				27256-300 (3513)				X28C64M (3744)			Hitachi	HM50257		
	27C1024				27256-300 (3513)				X2864A (3741)				HM50257		
Signetics	27C210			Mitsubishi	MSL27256			MSM2816	ATMEL			Hyundai	HY51C256		
ATMEL	AT27C128				M5M27256				AT28C16				HY53C256		
Fujitsu	MBM27C128			Motorola	MCM67256				AT28C17			Mitsubishi	MSM4257		
Intel	M27C128			SGS-Thomson					AT28HC16				M5M4256		
	27C128A				M27256			Catalyst				Motorola	M5M4257		
Microchip	27C128			Sharp	LH57256			Rsch	28C17			NEC	μPD41256		
S-MOS	SPM27129C			TI	TMS27C256			Catalyst	CAT28C16A			OKI	MSM37256		
SGS-Thomson				Toshiba	TC57H256			Semi	CAT28C17A				MSM41256		
	M27128A			Intel	M2732			EXEL	XL2817A			Samsung	KM41256		
Waferscale	WS27C128L				2732			Microchip	28C17A				KM41256A		
ATMEL	AT27HC256				2732A			National	NMC9817			Vitelco	V51C257		
	AT27256			Krueger	2732-250 (3513)				NM9817				V53C256		
Catalyst					2732-300 (3513)			Samsung	KM2817A			Western	WCM41256		
Semi	CAT27HC256				2732-350 (3513)			SEEQ	DQ2817A			IDT	DPS9264		
Hitachi	HN27C256				2732-450 (3513)				2817A				IDT7164L		
Intel	27C256 (3501)				2732A-250 (3513)			MSM2864	AMD			Intel	M2164A		
Krueger	27C256-200 (3513)				2732A-300 (3513)				AM2864A			Krueger	416A-120 (3513)		
	27C256-250 (3513)				2732A-350 (3513)			ATMEL	AM9864				416A-150 (3513)		
	27C256-300 (3513)				2732A-450 (3513)				AT28C64				416A-200 (3513)		
	27C256-300 (3513)			National	MM2732				AT28HC64			National	F4164		
	27C256-300 (3513)				NMC2732				AT28PC64				F64K		
Microchip	R09256			SGS-Thomson				Catalyst	CAT28C64A				NMC4164		
	27C256				M2732A			Semi	CAT28C65A			Panasonic	MN4164		
Mitsubishi	M5M27C256				TMS2732A			EXEL	XL2864A				MN4864		
Ricoh	RD27C256			MSM27512	Catalyst				XL2864A			Samsung	KM4164A		
SEEQ	27C256				Rsch	27512			XL2864A				KM4164B		
TI	TMS27C256				Hitachi	HN27512			MBM28C64			Siemens	HYB4164		
	TMS27PC256				Intel	N27512			HM58064			TI	SM4164		
Toshiba	TC54256					P27512			HN58C64			Catalyst	CAT71C256		
	TC57256					27512			HN58C65			Semi	S23256		
VLSI Tech	VT27C256				Krueger	27512-200 (3513)			HN58C66			Gould AMI	NCR23256		
Waferscale	WS27C256L					27512-250 (3513)			HN58064			NCR	NCR23257		
ATMEL	AT27HC64				Mitsubishi	M27512			IDT7M7864				NCR23257		
Intel	M27C64				OKI	M27512			IDT78C64A			Panasonic	MN23256		
Krueger	27C64-200 (3513)				SGS-Thomson			Intel	I2864A				MN23257		
	27C64-250 (3513)					M27512			28C64A			S-MOS	SMM23256		
	27C64-300 (3513)				TI	TMS27C512			M5M28C64				SMM6325		
Microchip	27C64				ATMEL	AT27HC64			NMC98C64				SMM6326		
National	NMC27C64				Hyundai	HY2764			μPD28C64			Signetics	23256		
S-MOS	SPM27C64				Intel	M2764			MSM28C64				23256A		
SGS-Thomson					Krueger	2764-200 (3513)			KM2864A			Toshiba	TC53257		
	TS27C64A					2764-250 (3513)			DQ2864			VLSI Tech	VT23256		
Signetics	27C64					2764-300 (3513)			DQ2864H				VT23257		
	TMS27C64					2764-450 (3513)			DQ52B33			MSM3864	NCR	NCR2364	
	TMS27PC64				Mitsubishi	M5L2764			28C64				Plessey	SL2364C	
VLSI Tech	VT27C64				National	2764			2864				S-MOS	SMM2364	
Waferscale	WS27C64L				SEEQ	2764			2864A			Sharp	LH2364A		
Fujitsu	MBM27C1000				TI	TMS27PC64			2865A			Signetics	2364		
Mitsubishi	M5M23C1000					TMS2764			X28C64 (3744)			TI	TMS2364		
National	NMC27C1023				MSM2764A	Intel			X28C64M (3744)			VLSI Tech	VT2364		
OKI	MSM271024					P2764A			X2864A (3741)			Weitek	SC8164		
TI	TMS27C210					2764A			X2864A (3741)			Harris	CD4001UB		
	TMX27PC010				Krueger	2764A			4116-120 (3513)			Motorola	MC14001UB		
	TC571024				SGS-Thomson				4116-150 (3513)			National	CD4001UB		
Waferscale	WS27C210L					M2764A			4116-200 (3513)				F4001		
Fujitsu	MBM27C1000				MSM28C64	AMD			F16K				MM74C02		
Mitsubishi	M5M23C1000					AM2864A			F4116			MSM4002	TC4001UB		
National	NMC27C1023					AM9864			MM5290				CD4002B		
OKI	MSM271000				ATMEL	AT28C64			HYB4116				MC14002		
TI	TMS27C210					AT28PC64			2690			Motorola	CD4002		
	TMX27PC010					AT2864			MB81256			National	F4002		
Toshiba	TC571024					CAT28C64A			HM50256			MSM4002	SGS-Thomson	HCC4002	
Waferscale	WS27C210L					CAT28C65A			HM50257					HCF4002	
Fujitsu	MBM27C1000				EXEL	XL2864A			HY51C256			MSM4002	Signetics	HEF4002	
Mitsubishi	M5M23C1000					XL2864A			HY53C256				Toshiba	TC4002B	
National	NMC27C1023					MBM28C64			MSM4257			MSM4007	Harris	CD4007B	
OKI	MSM271000				Fujitsu	MBM28C64			M5M4256				Motorola	MC14007	
TI	TMS27C210				Hitachi	HM58064			M5M4257				National	CD4007	
	TMX27PC010					HN58C64			MT1259			MSM4007		F4007	
Toshiba	TC571024					HN58C65			μPD41256				SGS-Thomson	HCC4007	
Waferscale	WS27C210L					HN58C66			MSM37257A					HCF4007	
AMD	AM27C128					HN58064			MSM41256			MSM4007	Signetics	HEF4007	
ATMEL	AT27C128					HM58064			KM41256				Toshiba	TC4007UB	
Krueger	27128-200 (3513)					IDT7M7864			KM41256A			MSM40104	SGS-Thomson	HCC/HCF40104	
	27128-250 (3513)					XL2864A			V51C257					HCF40104	
	27128-300 (3513)					28C64A			V53C256					HCF40104B	
	27128A-450 (3513)					M5M28C64			WCM41256					HCF40104B	
	27128A-450 (3513)					NMC98C64			41256-100 (3513)					(Continued)	
	27128A-450 (3513)					μPD28C64			41256-120 (3513)					(Continued)	
	27128A-450 (3513)					MSM2864			41256-150 (3513)					(Continued)	
	(Continued)					(Continued)			(Continued)					(Continued)	
MSM2716	Sharp	HM6617		MSM27256	ATMEL	AT27HC256		MSM2816	ATMEL	AT28C16		MSM37256A	Western	WCM41256	
	Harris	HM6617				27256				AT28C17			Krueger	41256-100 (3513)	
	Krueger	2716-350 (3513)				27256				AT28HC16				41256-120 (3513)	
		2716-450 (3513)				27256								41256-150 (3513)	
		2716T-350 (3513)				27256									
		2716T-450 (3513)				27256									
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• Discontinued

The manufacturers report their devices can be used as direct replacements. Performance details often differ, so compare the specifications considering your requirements.

IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
OKI Semiconductor (Cont'd)				MSM4020	SGS-Thomson	HCC4020 HCF4020		MSM4030	SGS-Thomson	HCC4030 HCF4030		MSM4071	Harris Motorola	CD4071B MC14071	
MSM40104	Toshiba	TC40104B		MSM4020	Signetics	HEF4020		MSM4030	Signetics	HEF4030			National	CD4071	
MSM4011	National	MM74C00		MSM4021	Toshiba	TC4020B		MSM4030	Toshiba	TC4030B				CD4071B	
	Toshiba	TC4011B		MSM4021	Harris	CD4021B		MSM4035	Harris	CD4035B				F4071	
MSM4013	Harris	CD4013B		MSM4021	Motorola	MC14021		MSM4035	Motorola	MC14035				MM74C32	
	Motorola	MC14013		MSM4021	National	CD4021		MSM4035	National	CD4035B					
	National	CD4013		MSM4021	SGS-Thomson	F4021		MSM4035	SGS-Thomson	F4035				HCC4071	
		F4013		MSM4021	SGS-Thomson	HCC4021		MSM4035	SGS-Thomson	HCC4035				HCC4071B	
		MM74C74		MSM4021	Signetics	HCF4021		MSM4035	Signetics	HCF4035				HCF4071	
	SGS-Thomson	HCC4013		MSM4021	Toshiba	TC4021B		MSM4035	Toshiba	TC4035B				HCF4071B	
		HCF4013		MSM4022	Harris	CD4022B		MSM4035	Signetics	HEF4035				HEF4071	
	Signetics	HEF4013		MSM4022	Motorola	MC14022		MSM4036	Toshiba	TC4036B				TC4071B	
MSM4014	Harris	CD4014B		MSM4022	National	CD4022		MSM4039	Toshiba	TC4039B		MSM4072	AD	DAC08	
	Motorola	MC14014		MSM4022	SGS-Thomson	F4022		MSM4040	Harris	CD4040B				MB4072	
	National	CD4014		MSM4022	SGS-Thomson	HCC4022		MSM4040	Motorola	MC14040				CD4072B	
		F4014		MSM4022	SGS-Thomson	HCF4022		MSM4040	National	CD4040				MC14072	
MSM4014	SGS-Thomson	HCC4014		MSM4022	Signetics	HEF4022		MSM4040	SGS-Thomson	F4040		MSM4072	National	CD4072	
		HCF4014		MSM4022	Signetics	HCF4022		MSM4040	SGS-Thomson	HCC4040		MSM4072	SGS-Thomson	F4072	
MSM4014	Signetics	HEF4014		MSM4023	Toshiba	TC4022B		MSM4040	Signetics	HCF4040		MSM4072	SGS-Thomson	HCC4072	
	Toshiba	TC4014B		MSM4023	Harris	CD4023B		MSM4040	Signetics	HEF4040		MSM4072	SGS-Thomson	HCF4072	
	Harris	CD4015B		MSM4023	Motorola	MC14023		MSM4042	Toshiba	TC4040B		MSM4072	Signetics	HEF4072	
MSM4015	Motorola	MC14015		MSM4023	National	CD4023		MSM4042	Harris	CD4042B		MSM4073	Toshiba	TC4072B	
	National	CD4015		MSM4023	SGS-Thomson	F4023		MSM4042	Motorola	MC14042		MSM4073	Harris	CD4073B	
		F4015		MSM4023	SGS-Thomson	MM74C10		MSM4042	National	CD4042		MSM4073	Motorola	MC14073	
		MM74C164		MSM4023	SGS-Thomson	HCC4023		MSM4042	National	F4042		MSM4073	National	CD4073	
	SGS-Thomson	HCC4015		MSM4023	SGS-Thomson	HCF4023		MSM4042	SGS-Thomson	HCC4042		MSM4073	SGS-Thomson	F4073	
		HCF4015		MSM4023	Signetics	HEF4023		MSM4042	SGS-Thomson	HCF4042		MSM4073	SGS-Thomson	HCC4073	
	Signetics	HEF4015		MSM4024	Toshiba	TC4023B		MSM4042	Signetics	HEF4042		MSM4073	SGS-Thomson	HCF4073	
	Toshiba	TC4015B		MSM4024	Harris	CD4024B		MSM4042	Signetics	HEF4042		MSM4073	Signetics	HEF4073	
MSM4017	Motorola	MC14017		MSM4024	Motorola	MC14024		MSM4043	Toshiba	TC4042B		MSM4073	Signetics	HEF4073	
	National	CD4017		MSM4024	National	CD4024		MSM4043	Harris	CD4043B		MSM4073	Toshiba	TC4073B	
		F4017		MSM4024	SGS-Thomson	F4024		MSM4043	Motorola	MC14043		MSM4075	Harris	CD4075B	
MSM4017	SGS-Thomson	HCC4017		MSM4024	SGS-Thomson	HCC4024		MSM4043	National	CD4043		MSM4075	Motorola	MC14075	
		HCF4017		MSM4024	SGS-Thomson	HCF4024		MSM4043	SGS-Thomson	HCC4043		MSM4075	National	CD4075	
MSM4017	Signetics	HEF4017		MSM4024	Signetics	HEF4024		MSM4043	Signetics	HCF4043		MSM4075	SGS-Thomson	F4075	
	Toshiba	TC4017B		MSM4024	Signetics	HEF4024		MSM4043	Signetics	HEF4043		MSM4075	SGS-Thomson	HCC4075	
	Harris	CD4019B		MSM4025	Toshiba	TC4024B		MSM4044	Toshiba	TC4043B		MSM4075	SGS-Thomson	HCF4075	
MSM4019	National	CD4019		MSM4025	Harris	CD4025B		MSM4044	Harris	CD4044B		MSM4075	Signetics	HEF4075	
		F4019		MSM4025	Motorola	MC14025		MSM4044	Motorola	MC14044		MSM4075	Signetics	HEF4075	
		F4019B		MSM4025	SGS-Thomson	F4025		MSM4044	National	MC4044		MSM4078	Toshiba	TC4075B	
	SGS-Thomson	HCC4019		MSM4025	SGS-Thomson	HCC4025		MSM4044	National	CD4044		MSM4078	Harris	CD4078B	
		HCF4019		MSM4025	SGS-Thomson	HCF4025		MSM4044	National	F4044		MSM4078	Motorola	MC14078	
	Signetics	HEF4019		MSM4025	SGS-Thomson	HEF4025		MSM4044	SGS-Thomson	HCC4044		MSM4078	National	F4078	
	Toshiba	TC4019B		MSM4025	SGS-Thomson	HEF4025		MSM4044	SGS-Thomson	HCF4044		MSM4078	SGS-Thomson	HCC4078	
MSM40192	Harris	CD40192B		MSM4025	SGS-Thomson	TC4025B		MSM4044	Signetics	HEF4044		MSM4078	Signetics	HEF4078	
		CD4029B		MSM4027	Toshiba	CD4027B		MSM4044	Signetics	HEF4044		MSM4078	Signetics	HEF4078	
MSM40192	Motorola	MC14029		MSM4027	Motorola	MC14027		MSM4049	Toshiba	TC4044B		MSM4081	Toshiba	TC4078B	
	National	CD40192		MSM4027	National	CD4027		MSM4049	Harris	CD4049UB		MSM4081	Harris	CD4081B	
		CD4029		MSM4027	SGS-Thomson	F4027		MSM4049	Motorola	MC14049		MSM4081	Motorola	MC14081	
		F40192		MSM4027	SGS-Thomson	MM74C76		MSM4049	National	CD4049		MSM4081	National	CD4081	
		F4029		MSM4027	SGS-Thomson	HCC4027		MSM4049	SGS-Thomson	F4049		MSM4081	SGS-Thomson	MM74C08	
MSM40192	SGS-Thomson	HCC40192		MSM4027	SGS-Thomson	HCC4027B		MSM4049	Signetics	HEF4049		MSM4081	SGS-Thomson	HCC4081	
		HCC4029		MSM4027	SGS-Thomson	HCF4027		MSM4049	Signetics	HEF4049		MSM4081	SGS-Thomson	HCF4081	
		HCF40192		MSM4027	SGS-Thomson	HCF4027B		MSM4054	Toshiba	TC4049B		MSM4081	Signetics	HEF4081	
		HCF4029		MSM4027	SGS-Thomson	HCF4027B		MSM4054	Harris	CD4054B		MSM4081	Toshiba	TC4081B	
MSM40192	Signetics	HEF40192		MSM4028	Signetics	HEF4027B		MSM4054	SGS-Thomson	HCC4054		MSM4082	Harris	CD4082B	
	Toshiba	TC40192B		MSM4028	Signetics	HEF4027B		MSM4054	SGS-Thomson	HCF4054		MSM4082	Motorola	MC14082	
		TC4029B		MSM4028	Toshiba	TC4027B		MSM4054	SGS-Thomson	HCC4054		MSM4082	National	CD4082	
MSM40193	Harris	CD40193B		MSM4028	Motorola	MC14028		MSM4063	Toshiba	TC4054B		MSM4082	National	F4082	
	National	CD40193		MSM4028	National	CD4028		MSM4063	Fujitsu	MB4063		MSM4082	SGS-Thomson	HCC4082	
		F40193		MSM4028	SGS-Thomson	MM74C42		MSM4063	Harris	CD4063B		MSM4082	SGS-Thomson	HCF4082	
		MM54C193		MSM4028	SGS-Thomson	HCC4028		MSM4063	Motorola	MC14443		MSM4082	SGS-Thomson	HEF4082	
		MM74C193		MSM4028	SGS-Thomson	HCF4028		MSM4063	National	μA9708		MSM4082	SGS-Thomson	TC4082B	
MSM40193	SGS-Thomson	HCC40193		MSM4028	SGS-Thomson	HCC4028		MSM4063	SGS-Thomson	HCC4063		MSM41000	Dense-Pac	DPD411M	
		HCF40193		MSM4028	SGS-Thomson	HCF4028		MSM4063	SGS-Thomson	HCF4063		MSM41000	Fujitsu	MB81C1000	
MSM40193	Signetics	HEF40193		MSM4029	Signetics	HEF4028		MSM4063	SGS-Thomson	TC4063B		MSM41000	GoldStar	TH22568	
	Toshiba	TC40193B		MSM4029	Signetics	HEF4028		MSM4068	Toshiba	TC4068B		MSM41000	Hitachi	GM71C1000	
MSM40194	Harris	CD40194B		MSM4029	Signetics	HEF4028		MSM4068	Harris	CD4068B		MSM41000	Hitachi	HB561003	
	Motorola	MC140194B		MSM4029	Signetics	HEF4028		MSM4068	Motorola	MC14068		MSM41000	Hitachi	HM511000	
		MC14194		MSM4029	Signetics	HEF4028		MSM4068	National	F4068		MSM41000	Hitachi	HM511001	
MSM40194	National	F40194		MSM4029	Signetics	HEF4028		MSM4068	SGS-Thomson	HCC4068		MSM41000	Hitachi	HM51102	
	SGS-Thomson	HCC40194		MSM4029	Signetics	HEF4028		MSM4068	SGS-Thomson	HCF4068		MSM41000	Hitachi	HM561003	
		HCC40194B		MSM4029	Signetics	HEF4028		MSM4068	SGS-Thomson	HEF4068		MSM41000	Hitachi	HY51C1000	
		HCF40194		MSM4029	Signetics	HEF4028		MSM4068	SGS-Thomson	TC4068B		MSM41000	Hitachi	HY51C1002	
		HCF40194B		MSM4029	Signetics	HEF4028		MSM4068	SGS-Thomson	CD4069UB		MSM41000	Hitachi	MT4C1024	
MSM40194	Signetics	HEF40194		MSM4029	Signetics	HEF4028		MSM4068	SGS-Thomson	MC14069		MSM41000	Hitachi	MH25608	
	Toshiba	TC40194B		MSM4029	Signetics	HEF4028		MSM4068	SGS-Thomson	CD4069		MSM41000	Hitachi	MH25609	
MSM4020	Harris	CD4020B		MSM4029	Signetics	HEF4028		MSM4068	SGS-Thomson	F4069		MSM41000	Hitachi	MM54C1000	
	Motorola	MC14020		MSM4029	Signetics	HEF4028		MSM4068	SGS-Thomson	MM54C04		MSM41000	Hitachi	MM541000S	
	National	CD4020		MSM4029	Signetics	HEF4028		MSM4068	SGS-Thomson	MM74C04		MSM41000	Hitachi	MM5410000	
		F4020		MSM4029	Signetics	HEF4028		MSM4068	SGS-Thomson	HCC4069		MSM41000	Hitachi	MCM511000A	
				MSM4030	Harris	CD4030B		MSM4068	SGS-Thomson	HCF4069		MSM41000	Hitachi	μPD421000	
				MSM4030	National	CD4030		MSM4068	SGS-Thomson	HEF4069		MSM41000	Hitachi	MC421000	
				MSM4030	National	F4030		MSM4068	SGS-Thomson	TC4069UB		MSM41000	Hitachi	KM41C1000	
				MSM4030	National	F4030		MSM4068	SGS-Thomson	TC4069UB		MSM41000	Hitachi	KM41256A	

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
OKI Semiconductor (Cont'd)				MSM414256 (Cont'd)				MSM4518 SGS-Thomson				MSM5114 (Cont'd)			
MSM41000 (Cont'd)				MSM41464				MSM4518				MSM5115			
SGS-Thomson				Siemens				Signetics				Intel			
MKB45F56				TI				Harris				Mitsubishi			
HYB511000				Toshiba				Motorola				S-MOS			
TMS4C1024				Fujitsu				National				Sanyo			
TM4256FC1				Hitachi				SGS-Thomson				Signetics			
TM5256				Hyundai				HCC4520				Cypress			
TC511000				IDT				HCF4520				Harris			
TC511000C				Krueger				HCF4520				Intel			
MB81C1001				4464-100 (3513)				HEF4520				Mitsubishi			
Hitachi				4464-120 (3513)				TC4520B				OKI			
Hyundai				4464-150 (3513)				CD4532B				S-MOS			
Mitsubishi				MT4067				MC14532				SRM2114C			
Motorola				MCM41464				F4532				LC3514			
NEC				MCM4464P				SGS-Thomson				Sanyo			
NMB				M5M4C264				HCC4532				Signetics			
Samsung				M5M4464				HCF4532				Catalyst			
TI				MCM41464				HEF4532				Semi			
Toshiba				Motorola				HCF4532				CAT71C256			
Fujitsu				NEC				TC4532B				CAT71C256L			
Hitachi				Samsung				CD14538B				Cypress			
Hyundai				Vitelc				MC14538B				Dense-Pac			
Mitsubishi				Harris				CD4538				GoldStar			
Motorola				Motorola				CD4538B				Hitachi			
NEC				SGS-Thomson				SGS-Thomson				Hyundai			
NMB				HCC4502				GCC4538B				H662256			
Samsung				HCC4502B				HCF4538B				H664456			
TI				HCF4502				HEF4538				HY62C256			
Toshiba				HCF4502B				Signetics				HY63C256			
Vitelc				MK4502				Toshiba				Inova			
Fujitsu				HEF4502				MC14539				IDT			
GoldStar				TC4502B				MC14539B				IDT71256L			
Hitachi				CD4510B				F4539				IDT71256S			
Hyundai				MC14510				Signetics				IDT8M824			
MicronTech				CD4510				Toshiba				L7C199			
Mitsubishi				F4510				Harris				LogicDev			
Motorola				SGS-Thomson				Motorola				MicronTech			
NEC				HCC4510				National				Mitsubishi			
NMB				HCF4510				SGS-Thomson				Mosel			
OKI				HEF4510				HCC4555				Motorola			
Samsung				TC4510B				HCF4555				NEC			
Sharp				CD4511B				HEF4555				MSM51257LRS			
Siemens				MC14511				Toshiba				MSM51257RJ			
TI				CD4511				Harris				MSM51257RS			
Toshiba				F4511				Motorola				Performance			
Fujitsu				μPD4511				National				S-MOS			
Hitachi				SGS-Thomson				SGS-Thomson				SRM20256C			
Hyundai				HCC4511				HCC4556				SRM2257			
Mitsubishi				HCF4511				HCF4556				Samsung			
Motorola				HEF4511				HEF4556				Sharp			
NEC				TC4511B				TC4556B				Sony			
NMB				CD4512B				MC14583				Toshiba			
OKI				CD4512				F4583				UMC			
Samsung				National				TC4583B				Catalyst			
Sharp				SGS-Thomson				CD40106B				Semi			
Siemens				HCC4512				MIC54C14				CAT71C256			
TI				HCF4512				MC14106				CAT71C256L			
Toshiba				TC4512B				MC14584				Cypress			
Fujitsu				CD4514B				CD40106				Dense-Pac			
Hitachi				MC14514				CD4584				GoldStar			
Hyundai				CD4514				F400014				Hitachi			
Mitsubishi				F4514				F40014				H662256			
Motorola				SGS-Thomson				MM54C14				H664456			
NEC				HCC4514				MM74C14				Hyundai			
NMB				HCF4514				SGS-Thomson				HY62C256			
OKI				HEF4514				HCC40106				HY63C256			
Samsung				TC4514B				HCF40106				Inova			
Sharp				CD4515B				HEF40106				IDT			
Siemens				MC14515				TC4584B				LogicDev			
TI				CD4515				KS5120				MicronTech			
Toshiba				F4515				UMC				Mitsubishi			
Fujitsu				SGS-Thomson				Samsung				Mosel			
Hitachi				HCC4515				MSM5004				Motorola			
Hyundai				HCF4515				KS5113				National			
Mitsubishi				HEF4515				KS5206				NEC			
Motorola				TC4515B				UMC				μPD43256B			
NEC				CD4516B				UM3252A				MSM51257J			
NMB				MC14516				UM3273				MSM51257RJ			
OKI				CD4516				Cypress				MSM51257RS			
Samsung				F4516				Harris				Performance			
Sharp				SGS-Thomson				HM6504				S-MOS			
Siemens				HCC4516				Hitachi				Samsung			
TI				HCF4516				5104				Sharp			
Toshiba				HEF4516				M58981				LH52256			
Hitachi				TC4516B				National				LH52259			
Hyundai				CD4518B				Rockwell				(Continued)			
Mitsubishi				MC14518				Cypress							
Motorola				CD4518				Harris							
NEC				F4518				MSM5114							
NMB				(Continued)											
OKI															
Samsung															
Sharp															
LH64257															
(Continued)															

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
OKI Semiconductor (Cont'd)				MSM6222	Hitachi	HD44780		MSM82C59	(Cont'd)			M27512	Catalyst	27512	
MSM5188	(Cont'd)			MSM80C86	Samsung	KS0062			Samsung	KS82C59A			Rsch	HN27512	
	GoldStar	GM76C88L			Sharp	LH5008			Toshiba	TMP82C59			Hitachi	N27512	
	Harris	CDM6264			Harris	80C86			UMC	UM8259A			Intel	P27512	
	Hitachi	HM6264			Intel	80C86			VLSI Tech	VL82C59A				27512	
		HM6464		MSM80C88	NEC	μPD70116			Harris	CP82C59A			Krueger	27512-200 (3513)	
		MB6264			Harris	80C88			intel	82C59A				27512-250 (3513)	
		MB6464			Intel	80C88				8259A			Mitsubishi	M27512	
	Hyundai	HY6264		MSM8085	Intel	P8085AH			MicronTech	MT8259			OKI	MSM27512	
	IDT	DPS9264			Krueger	8085A (3513)			Mitsubishi	M5M82C59			SGS-Thomson	M27512	
	Krueger	6264-100 (3513)				8085AH (3513)				M5M82C59AP				TMS27C512	
		6264-120 (3513)			Mitsubishi	M5M80C85A				M5M8259AP			M80C31	P80C31	
		6264LP-100 (3513)			NEC	μPD8085			National	INS8259			Intel	P80C31BH	
		6264LP-120 (3513)		MSM82C12	Newbridge	CA80C85B (3569)			NEC	μPD71059				80C31	
		6264LP-150 (3513)			AMD	AM8212				μPD8259A				SC80C31	
					Intel	8212				71059			M80C51	MBL80C51	
					Lansdale	IL8212			Newbridge	CA82C59A (3569)			Intel	P80C51	
				MSM82C37A	AMD	AM8237A			OKI	MSM82C59				P80C51BH	
						D8237A			Samsung	KS82C59A			Signetics	80C51	
	MicroLinear	ML8464				8237A			Toshiba	TMP82C59				SC80C51	
	Mitsubishi	AM99C88			Harris	CP82C37A			UMC	UM8259A			UC82C84A	D8284A	
		M5M5178			Intel	8037A			VLSI Tech	VL82C59A			AMD	CP82C84A	
	Motorola	MCM6064				82C37A			Harris	CP82C52			Harris	82C84A	
		MCM61L64				8237				82C82			Intel	82C84A	
		MCM6164C				8237A-4			Intel	82C82				8284A	
	National	DP8464				8237A-5			NEC	μPD71082			Mitsubishi	M5L8284A	
	OKI	MSM5164				M5M82C37A			Harris	82C83H				M5L8284AP	
		MSM5165			Mitsubishi	M5M82C37AP			Intel	82C83			NEC	μPD71084	
	S-MOS	SRM2064			NEC	μPD71037				8283				71084	
		SRM2264				μPD8237A			MSM82C84	AMD			Newbridge	CA82C84A (3569)	
	Samsung	KM6264				CA82C37A (3569)			Harris	CP82C84A			OKI	MSM82C84	
		KM6264A				SMC82C37A				82C84A				MSM82C84A	
	Sharp	LH5164			Samsung	KS82C37A			Intel	82C84A			Samsung	KS82C84A	
		LH5165				KS8237A				8284A					
	Sony	CKX5164P				TMP82C37			Mitsubishi	M5L8284A					
		CKX5863P				VL82C37A				M5L8284AP					
		CKX5864			MSM82C51	Intel			NEC	μPD71084					
		CKX5865				P8251				71084					
		CKX5865P				82C51			Newbridge	CA82C84A (3569)					
	Toshiba	TC5563				INS8251			OKI	MSM82C84A					
		TC5565A (3682)				MSM82C51A				UC82C84A					
		TC5588			MSM82C51A	Intel			Samsung	KS82C84A					
	UMC	UM6264A				P8251			AMD	D8284A					
	Vitellic	V61C62				82C51			Harris	CP82C84A					
		V62C64				INS8251				82C84A					
		V63C64				μPD8251A			Intel	82C84A					
	VLSI Tech	VT20C99				MSM82C51				8284A					
MSM5188A	AMD	PAL20L8			MSM82C54	AMD			Mitsubishi	M5L8284A					
	Cypress	PLDC20G10				82C54			NEC	μPD71084					
	Fujitsu	MB81C88				CP82C54				71084					
	Gould AMI	PEEL20CG10 (3442)				82C54			Newbridge	CA82C84A (3569)					
						8254			OKI	MSM82C84A					
	Hitachi	HM7688HP				M5M82C54			Samsung	KS82C84A					
	ICT	PEEL20CG10				M5M82C54P				82C86H					
	Lattice	GAL20V8A				μPD71054			Harris	82C86					
	LogicDev	L7C164				CA82C54 (3569)			Intel	82C86					
	Mitsubishi	M5M5188AP				KS82C54				8286					
	National	F100165				VL82C54			National	DP8304					
		PAL20L8				D8255A			NEC	μPD71086					
		μPD4362C			MSM82C55A	AMD			AMD	8287					
	Samsung	CPL20L8-35				82C55A			Harris	82C87H					
		LH5262				P8255			Intel	82C87					
	Sharp	CKX5464AP				8255A				8287					
	Sony	TIBPAL20L8				M5M82C55A			NEC	μPD71087					
	TI	TIBPAL20L8-20				M5M82C55AP			AMD	D8288					
		VT64KS4				μPD71055			Harris	CP82C88					
MSM5194	Samsung	KS5121				μPD8255A			Intel	82C88					
MSM52464	Fujitsu	MB81C84A				71055				8288					
	IDT	IDT71258L				CA82C55A (3569)			Mitsubishi	M5L8288S					
		IDT71258S				KS82C55A			NEC	μPB8288D					
	LogicDev	L7C194				TMP82C55				μPD71088					
	Performance	P4C1258				UM82C55A (3689)			Newbridge	CA82C88 (3569)					
	S-MOS	SRM21256				82C57			OKI	MSM82C88A					
	Samsung	KM64257				UC2847			Samsung	KS82C88					
MSM5259GS	Sharp	LH52252				CP82C59A			AMD	D8288					
	Hitachi	HD44100				82C59A			Harris	CP82C88					
	Hughes	H0480				8259A			Intel	82C88					
	Samsung	KS0061				MT8259				8288					
	Sharp	LH5006A				M5M82C59			Mitsubishi	M5L8288S					
MSM5298	Hitachi	HD44103				M5M82C59AP			NEC	μPB8288D					
	Samsung	KS0101				M5M82C59AP				μPD71088					
	Sharp	LH5030				INS8259				71088					
		LH5031				μPD71059			Newbridge	CA82C88 (3569)					
MSM5299	Hitachi	HD44102				μPD8259A			OKI	MSM82C88					
	Samsung	KS0102				71059			Samsung	KS82C88					
	Sharp	LH5025A				CA82C59A (3569)			Siemens	SAB80513					
		LH5826				MSM82C59A									
MSM6002	Samsung	KS5243				(Continued)									
	UMC	UM3230													
MSM6004	Samsung	KS5250													

Optical Electronics

• AH001	AD	ADLH0033	
		HOS100	
• AH001	Burr-Brown	OPA633	
	Elahtec	EHOS100	
		ELH0033	
		ELH2004	
		ELH2005	
		EL2001	
		EL2004	
		EL2005	
		EL2031	
		EL2033	
• AH001	Harris	HA5033	
	Maxim	LH0033	
		MAX460	
		MAX460	
• AH001	MicroPwr	MP0033	
		MP0033C	
		MP2004	
• AH001	National	LH0033	
		LH4001	
		LM6121	
		LM6321	
• AH001	TeledyneS	TP1359	
	VTC	VA033	
• AH9910	AD	BUF03	
	Elahtec	ELH0002	
		EL2001	
		EL2002	
		EL2003	
• AH9910	Harris	HA5002	
	LinearTech	LT1010	
	National	LH0002	
	TeledyneS	LH0002	
• 9932	Lansdale	ML832	
		ML932	
• 9932	Motorola	MC932	
	National	DM932	
		932	
		9932	
• 9963	Lansdale	HL7641	
		ML863	
		ML963	
• 9963	Motorola	MC963	
	National	DM963	
		9963	

Panasonic

AN6551	Commodore	MPS6551	
		MP6551	
	Gould AMI	S6551	
	Harris	HM6551	

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Panasonic (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
AN6551	Rockwell	R6551	(3576)	DN74LS10	National	DM74LS10		DN74LS139	Hitachi	HD74LS139		DN74LS162A	SGS-Thomson	T74LS162	
	UMC	UM6551	(3689)		SGS-Thomson	74LS10			Motorola	SN74LS139			Signetics	74LS162A	
DN6835	National	DN6835				74LS10			National	DM74LS139			TI	SN74LS162A	
		DN6835		DN74LS109	Signetics	74LS10			SGS-Thomson	74LS139			Hitachi	HD74LS163	
DN6836	National	DN6836			TI	SN74LS10		DN74LS14	Signetics	T74LS139			Motorola	SN74LS163A	
		DN6836			Hitachi	HD74LS109			TI	SN74LS139A			National	DM74LS163	
		DN6835			Motorola	SN74LS109			Hitachi	HD74LS14				74LS163	
		DN6835			National	DM74LS109			Motorola	SN74LS14			SGS-Thomson		
DN6837	Panasonic	DN6835			SGS-Thomson	74LS109			National	DM74LS14				T74LS163	
	Allegro	UGN3119U (3207)				T74LS109			SGS-Thomson	74LS14			Signetics	74LS163A	
	Micro	DN6837		DN74LS11	Signetics	74LS109				74LS14			TI	SN74LS163A	
	National	DN6837			TI	SN74LS109A		DN74LS145	Signetics	74LS14		DN74LS164	Hitachi	HD74LS164	
		DN6839			Hitachi	HD74LS11			TI	SN74LS14			Motorola	SN74LS164A	
	Panasonic	DN6839			Motorola	SN74LS11			Motorola	SN74LS145			National	DM74LS164	
	Siemens	SAS261			National	DM74LS11		DN74LS15	TI	SN74LS145				74LS164	
	TI	TL172C			SGS-Thomson	74LS11			Motorola	SN74LS15			SGS-Thomson		
DN6838	Allegro	UGN3130U (3207)				T74LS11			National	DM74LS15				T74LS164	
	Micro	DN6838		DN74LS112	Signetics	74LS11			SGS-Thomson	74LS15			Signetics	74LS164	
	National	DN6838			TI	SN74LS11		DN74LS151	TI	SN74LS15			TI	74LS164A	
	TI	TL170			Hitachi	HD74LS112			Hitachi	HD74LS151		DN74LS170	Motorola	SN74LS164	
DN6839	Allegro	UGN3119U (3207)			Motorola	SN74LS112A			Motorola	HD74LS151A			National	DM74LS170	
	Micro	DN6837			National	DM74LS112			National	DM74LS151				74LS170	
	National	DN6839			SGS-Thomson	74LS112			SGS-Thomson	74LS151			SGS-Thomson		
		DN6837				T74LS112				T74LS151				T74LS170	
	Panasonic	SAS261		DN74LS113	Signetics	74LS112				74LS151		DN74LS173	TI	SN74LS170	
	Siemens	TL172C			TI	SN74LS112A				74LS151			Motorola	SN74LS173A	
DN74LS00	Hitachi	HD74LS00			Hitachi	HD74LS113		DN74LS153	Signetics	74LS151			National	DM74LS173	
	Motorola	SN74LS00			Motorola	SN74LS113A			TI	SN74LS151				74LS173	
	National	DM74LS00			National	DM74LS113			Hitachi	HD74LS153			SGS-Thomson		
		74LS00			SGS-Thomson	74LS113			Motorola	SN74LS153				T74LS173	
	SGS-Thomson	T74LS00				74LS113			National	DM74LS153			Signetics	74LS173	
	Signetics	74LS00		DN74LS114	Signetics	74LS113			SGS-Thomson	74LS153			TI	SN74LS173A	
	TI	SN74LS00			TI	SN74LS113A		DN74LS155	Hitachi	HD74LS155		DN74LS174	Hitachi	HD74LS174	
DN74LS01	Hitachi	HD74LS01			Hitachi	HD74LS114			TI	SN74LS155			Motorola	SN74LS174	
	Motorola	SN74LS01			Motorola	SN74LS114A			Hitachi	HD74LS155			National	DM74LS174	
	National	74LS01			National	DM74LS114			Motorola	SN74LS155				74LS174	
	SGS-Thomson	T74LS01			SGS-Thomson	74LS114			National	DM74LS155			SGS-Thomson		
	Signetics	74LS01		DN74LS12	TI	SN74LS114A			SGS-Thomson	74LS155		DN74LS175	Signetics	74LS174	
	TI	SN74LS01			Hitachi	HD74LS12				74LS155			TI	SN74LS174	
DN74LS02	Hitachi	HD74LS02			Motorola	SN74LS12				74LS155			Hitachi	HD74LS175	
	Motorola	SN74LS02			National	DM74LS12				74LS155			Motorola	SN74LS175	
	National	DM74LS02			SGS-Thomson	74LS12		DN74LS156	Signetics	74LS155			National	74LS175	
		74LS02				74LS12			TI	SN74LS155A			SGS-Thomson		
	SGS-Thomson	T74LS02			Signetics	74LS12			Hitachi	HD74LS156				T74LS175	
		74LS02		DN74LS123	TI	SN74LS12			Motorola	SN74LS156		DN74LS190	Signetics	74LS175	
	Signetics	74LS02			Hitachi	HD74LS123			National	DM74LS156			TI	SN74LS175	
	TI	SN74LS02			Motorola	SN74LS123				74LS156			Hitachi	HD74LS190	
DN74LS03	Hitachi	HD74LS03			National	DM74LS123			SGS-Thomson	74LS156			Motorola	SN74LS190	
	Motorola	SN74LS03			TI	SN74LS123				74LS156			National	DM74LS190	
	National	DM74LS03		DN74LS125A	Motorola	SN74LS125A			Signetics	74LS156				74LS190	
		74LS03			National	DM74LS125		DN74LS157	TI	SN74LS156			SGS-Thomson		
	SGS-Thomson	T74LS03				74LS125A			Hitachi	HD74LS157				T74LS190	
	TI	SN74LS03			SGS-Thomson	74LS125			Motorola	SN74LS157		DN74LS191	TI	SN74LS190	
DN74LS04	Hitachi	HD74LS04				74LS125A			National	DM74LS157			Hitachi	HD74LS191	
	Motorola	SN74LS04			Signetics	74LS125A				74LS157			Motorola	SN74LS191	
	National	DM74LS04		DN74LS13	TI	SN74LS125A			SGS-Thomson	74LS157			National	DM74LS191	
		74LS04			Hitachi	HD74LS13				74LS157				74LS191	
	SGS-Thomson	T74LS04			Motorola	SN74LS13		DN74LS158	Signetics	74LS157			SGS-Thomson		
	Signetics	74LS04			National	DM74LS13			TI	SN74LS157				T74LS191	
	TI	SN74LS04				74LS13			Hitachi	HD74LS158		DN74LS192	Signetics	74LS191	
DN74LS05	Hitachi	HD74LS05			SGS-Thomson	74LS13			Motorola	SN74LS158			TI	SN74LS191	
	Motorola	SN74LS05		DN74LS132	Signetics	74LS13			National	DM74LS158			Hitachi	HD74LS192	
	National	DM74LS05			TI	SN74LS13				74LS158			Motorola	SN74LS192	
		74LS05			Hitachi	HD74LS132			SGS-Thomson	T74LS158			National	DM74LS192	
	SGS-Thomson	T74LS05			Motorola	SN74LS132		DN74LS160A	Signetics	74LS158				74LS192	
	Signetics	74LS05			National	DM74LS132			TI	SN74LS158			SGS-Thomson		
	TI	SN74LS05				74LS132			Hitachi	HD74LS160A		DN74LS193	Signetics	74LS192	
DN74LS08	Hitachi	HD74LS08			SGS-Thomson	74LS132			Motorola	SN74LS160A			TI	SN74LS192	
	Motorola	SN74LS08		DN74LS136	Signetics	74LS132			National	DM74LS160			Hitachi	HD74LS193	
	National	DM74LS08			TI	SN74LS132			SGS-Thomson	74LS160			Motorola	SN74LS193	
		74LS08			Hitachi	HD74LS136				74LS160			National	DM74LS193	
	SGS-Thomson	T74LS08			Motorola	SN74LS136		DN74LS161A	Signetics	74LS160				74LS193	
	Signetics	74LS08			National	DM74LS136			TI	SN74LS160A			SGS-Thomson		
	TI	SN74LS08				74LS136			Hitachi	HD74LS161A		DN74LS194A	Signetics	74LS193	
DN74LS09	Hitachi	HD74LS09			SGS-Thomson	74LS136			Motorola	SN74LS161A			TI	SN74LS193	
	Motorola	SN74LS09		DN74LS138	Signetics	74LS136			National	DM74LS161			Hitachi	HD74LS194A	
	National	DM74LS09			TI	SN74LS136				74LS161A			Motorola	SN74LS194A	
		74LS09			Hitachi	HD74LS138			SGS-Thomson	74LS161			National	DM74LS194	
	SGS-Thomson	T74LS09			Motorola	SN74LS138		DN74LS162A	Signetics	74LS161				74LS194A	
	TI	SN74LS09			National	DM74LS138			TI	SN74LS161A			SGS-Thomson		
DN74LS10	Hitachi	HD74LS10			SGS-Thomson	74LS138			Hitachi	HD74LS162A		DN74LS195A	Signetics	74LS194A	
	Motorola	SN74LS10				74LS138			Motorola	SN74LS162A			TI	SN74LS194A	
		74LS10			Signetics	74LS138			National	DM74LS162			GoldStar	GL7924	
		(Continued)			TI	SN74LS138				74LS162			Hitachi	HD74LS195A	
						(Continued)							Motorola	MC719924	
															(Continued)

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Panasonic (Cont'd)				DN74LS258A	SGS-Thomson	(Cont'd)		DN74LS366A	Motorola National	SN74LS366A DM74LS366 74LS366A		DN74LS54	Hitachi Motorola National	HD74LS54 SN74LS54 DM74LS54 74LS54	
DN74LS195A	Motorola	MC7924	(Cont'd)						SGS-Thomson	T74LS366 T74LS366A			SGS-Thomson	T74LS54	
	National	SN74LS195A μA7924 DM74LS195 LM7924 74LS195A MC7924C		DN74LS26	Hitachi Motorola National	74LS258 SN74LS258B HD74LS26 SN74LS26 DM74LS26 74LS26		DN74LS367A	Hitachi Motorola National	HD74LS367A SN74LS367A DM74LS367 74LS367A		DN74LS55	Hitachi Motorola National	HD74LS55 SN74LS55 DM74LS55 74LS55	
	Samsung	L7924			SGS-Thomson	T74LS26			SGS-Thomson	T74LS367 T74LS367A			SGS-Thomson	T74LS55	
	SGS-Thomson	T74LS195A μA7924 SN74LS195A		DN74LS260	SGS-Thomson	T74LS260			SGS-Thomson	T74LS367A		DN74LS73	TI	SN74LS55	
	TI	TA79024			Signetics	74LS260			Signetics	74LS367A			Hitachi	HD74LS73	
DN74LS196	Motorola	SN74LS196		DN74LS266	TI	SN74LS260		DN74LS368A	Hitachi	HD74LS368			Motorola	SN74LS73A	
	National	DM74LS196 74LS196			Lansdale	ML8242			Motorola	SN74LS368A			National	DM74LS73	
	SGS-Thomson	T74LS196			Motorola	SN74LS266			National	DM74LS368		DN74LS74A	Hitachi	HD74LS73A	
	Signetics	N82S80			National	DM74LS266 74LS266			SGS-Thomson	T74LS368			Motorola	SN74LS74A	
DN74LS197	TI	SN74LS196			SGS-Thomson	T74LS266			Signetics	74LS368A			National	DM74LS74	
	Motorola	SN74LS197		DN74LS27	Signetics	74LS266		DN74LS37	TI	SN74LS368A			SGS-Thomson	T74LS74	
	National	DM74LS197 74LS197			TI	SN74LS266			Hitachi	HD74LS37		DN74LS75	Hitachi	HD74LS75	
	SGS-Thomson	T74LS197			Hitachi	HD74LS27			Motorola	SN74LS37			Motorola	SN74LS75	
	Signetics	74LS197			Motorola	SN74LS27			National	DM74LS37 74LS37			National	DM74LS75	
DN74LS20	TI	SN74LS197			National	DM74LS27 74LS27			SGS-Thomson	T74LS37			SGS-Thomson	T74LS75	
	Hitachi	HD74LS20			SGS-Thomson	T74LS27		DN74LS373	Signetics	74LS37		DN74LS76	Signetics	74LS75	
	Motorola	SN74LS20		DN74LS279	TI	SN74LS27			TI	SN74LS37			TI	SN74LS75	
	National	DM74LS20 74LS20			Hitachi	HD74LS279			Motorola	SN74LS373			Hitachi	HD74LS76	
	SGS-Thomson	T74LS20			Motorola	SN74LS279			National	74LS373			Motorola	SN74LS76A	
	Signetics	74LS20			National	DM74LS279 74LS279			SGS-Thomson	T74LS373			SN75176	SN74LS76	
DN74LS21	TI	SN74LS20			SGS-Thomson	T74LS279		DN74LS38	Signetics	74LS373		DN74LS78	National	DM74LS76	
	Hitachi	HD74LS21			Signetics	74LS279			TI	SN74LS373			Signetics	74LS76	
	Motorola	SN74LS21			TI	SN74LS279A			Hitachi	HD74LS38			TI	SN74LS76A	
	National	DM74LS21 74LS21		DN74LS280	Hitachi	HD74LS280			Motorola	SN74LS38			Motorola	SN74LS78A	
	SGS-Thomson	T74LS21			Motorola	SN74LS280			National	DM74LS38 74LS38			National	DM74LS78	
	Signetics	74LS21			SGS-Thomson	T74LS280			SGS-Thomson	T74LS38		DN74LS83A	Hitachi	HD74LS83A	
DN74LS22	TI	SN74LS21		DN74LS283	TI	SN74LS280			Signetics	74LS38			Motorola	SN74LS83A	
	Hitachi	HD74LS22			Hitachi	HD74LS283		DN74LS386	TI	SN74LS38			National	DM74LS83A 74LS83A	
	Motorola	SN74LS22			Motorola	SN74LS283			Hitachi	HD74LS386			SGS-Thomson	T74LS83	
	National	DM74LS22			National	DM74LS283 74LS283			Motorola	SN74LS386		DN74LS85	Signetics	74LS83A	
	SGS-Thomson	T74LS22			SGS-Thomson	T74LS283			National	DM74LS386			TI	SN74LS83A	
DN74LS240	Hitachi	HD74LS240			Signetics	74LS283		DN74LS390	Motorola	SN74LS390			Hitachi	HD74LS85	
	Motorola	SN74LS240		DN74LS290	TI	SN74LS283			SGS-Thomson	T74LS390			Motorola	SN74LS85	
	National	74LS240			Hitachi	HD74LS290			TI	SN74LS390			National	DM74LS85	
	SGS-Thomson	T74LS240			Motorola	SN74LS290		DN74LS393	Motorola	SN74LS393			Signetics	74LS85	
	Signetics	74LS240			National	DM74LS290 74LS290			National	74LS393		DN74LS86	TI	SN74LS85	
DN74LS241	TI	SN74LS240			SGS-Thomson	T74LS290			SGS-Thomson	T74LS393			Hitachi	HD74LS86	
	Hitachi	HD74LS241			Signetics	74LS290			Signetics	74LS393			Motorola	SN74LS86	
	Motorola	SN74LS241		DN74LS293	TI	SN74LS290			TI	SN74LS393			National	DM74LS86 74LS86	
	National	74LS241			Hitachi	HD74LS293		DN74LS395A	National	DM74LS395 74LS395			SGS-Thomson	T74LS86	
	SGS-Thomson	T74LS241			Motorola	SN74LS293			SGS-Thomson	T74LS395		DN74LS90	Signetics	74LS86	
	Signetics	74LS241			National	DM74LS293 74LS293			Signetics	74LS395			TI	SN74LS86A	
DN74LS244	TI	SN74LS241			SGS-Thomson	T74LS293		DN74LS40	TI	SN74LS395A			Motorola	SN74LS90	
	Hitachi	HD74LS244			Signetics	74LS293			Hitachi	HD74LS40			National	DM74LS90 74LS90	
	Motorola	SN74LS244			TI	SN74LS293			Motorola	SN74LS40			SGS-Thomson	T74LS90	
	National	74LS244		DN74LS30	Hitachi	HD74LS30			National	DM74LS40 74LS40			Signetics	74LS90	
	SGS-Thomson	T74LS244			Motorola	SN74LS30			SGS-Thomson	T74LS40		DN74LS92	TI	SN74LS90	
	Signetics	74LS244			National	DM74LS30 74LS30		DN74LS42	TI	SN74LS40			Hitachi	HD74LS92	
DN74LS251	TI	SN74LS244			SGS-Thomson	T74LS30			Hitachi	HD74LS42			Motorola	SN74LS92	
	Hitachi	HD74LS251			Signetics	74LS30			Motorola	SN74LS42			National	DM74LS92	
	Motorola	SN74LS251		DN74LS33	TI	SN74LS290			National	DM74LS42 74LS42			SGS-Thomson	T74LS92	
	National	DM74LS251 74LS251			Signetics	74LS290		DN74LS490	SGS-Thomson	T74LS42		DN74LS93	Signetics	74LS92	
	SGS-Thomson	T74LS251			TI	SN74LS293			TI	SN74LS42			TI	SN74LS92	
	Signetics	74LS251			Motorola	SN74LS293			Motorola	SN74LS490			Hitachi	HD74LS93	
DN74LS253	TI	SN74LS251			National	74LS33			National	74LS490			Motorola	SN74LS93	
	Hitachi	HD74LS253			SGS-Thomson	T74LS33			SGS-Thomson	T74LS490			National	DM74LS93	
	Motorola	SN74LS253			Signetics	74LS33		DN74LS51	Signetics	74LS490			SGS-Thomson	T74LS93	
	National	DM74LS253 DM8214 74LS253			TI	SN74LS33			Hitachi	HD74LS51		DN74LS95B	Signetics	74LS93	
	SGS-Thomson	T74LS253		DN74LS365A	Motorola	SN74LS365A			Motorola	SN74LS51			Hitachi	HD74LS95B	
	Signetics	74LS253			National	DM74LS365 74LS365A			National	DM74LS51 74LS51			Motorola	SN74LS95B	
DN74LS258A	TI	SN74LS253			SGS-Thomson	T74LS365			SGS-Thomson	T74LS51			National	DM74LS95B 74LS95B	
	Hitachi	HD74LS258			Signetics	74LS365			Signetics	74LS51			SGS-Thomson	T74LS95	
	Motorola	SN74LS258A			TI	SN74LS365A			TI	SN74LS51				T74LS95B	
	National	DM74LS258 74LS258A													

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page			
Panasonic (Cont'd)				MN23257	Signetics	23256	(Cont'd)	MN41C41000	TI	TMS44400	(Cont'd)	MN74HC4075	TI	SN74HC4075	(Cont'd)			
DN74LS95B (Cont'd)					Toshiba	23256A			Toshiba	TC514400			Toshiba	TC74HC4075A	(3674)			
DN834	Signetics	74LS95B		MN2332	VLSI Tech	VT23256		MN41C41002	Mitsubishi	M5M44402		Performance Electronic Packaging Services						
	TI	SN74LS95B				NEC	μPD24402											
	Allegro	UGN3201K			♦ MN411000	Toshiba	TC514402											
	Micro	DN834				Dense-Pac	DPD411M											
	National	DN837				Fujitsu	MB81C1000											
	Panasonic	DN839					TH22568											
		DN837				GoldStar	GM71C1000											
		DN839				Hitachi	HB561003											
		SAS241					HM511000											
	Siemens	SAS250					HM51101											
SAS251				HM51102														
DN835				HM561003														
DN837				HY51C1000														
DN835	National	UGN3201K		♦ MN411000	Hyundai	HY51C1002		♦ MN411000	MicronTech	MT4C1024		MH1MX36	Fujitsu	MB85346				
	Allegro	DN834				Mitsubishi	MH25608				Hitachi		HB56D136B					
	Micro	DN837					MH25609				IBM		34F2933					
	National	DN839					M5M4C1000				MicronTech		MT9D136M					
	Panasonic	DN834					M5M41000S				Mitsubishi		MH1M368QJ					
		DN839					M5M410000				NEC		MC421000A36FH					
		SAS241					MCM511000A				OKI		MSC2350YS12					
		SAS250					μPD421000				Samsung		KMM5361000					
	Siemens	SAS251					MC421000				Toshiba		THM361020					
		DN835					MSM41000						THM361020SC					
DN837					KM41C1000													
DN839					KM41256A													
DN837	National	UGN3201K		♦ MN411000	Motorola	MCM511000A		♦ MN411000	Motorola	MCM511000A		MH2MX36	Fujitsu	MB85347				
	Allegro	DN834				NEC	μPD421000				Hitachi		HB56D236B					
	Micro	DN837					MC421000				NEC		MC422000A36FH					
	National	DN839				OKI	MSM41000				Toshiba		THM362020					
	Panasonic	DN834					Samsung		KM41C1000				THM362020S					
		DN839																
		SAS241																
		SAS250																
	Siemens	SAS251																
		DN838																
DN839																		
DN837																		
DN839	National	UGN3201K		♦ MN411000	SGS-Thomson	MKB45F56		♦ MN411000	SGS-Thomson	MKB45F56		MH25636A	Fujitsu	MB85336				
	Allegro	DN834					HYB511000				Hitachi		HB56D25636B					
	Micro	DN837					TMS4C1024				IBM		6450603					
	National	DN839					TM4256FC1				MicronTech		MT8C36256M					
	Panasonic	DN834					TM5256						MT8C36256MN					
		DN837					TC511000											
		DN839					TC511000C											
		SAS241					41256-100		(3513)									
	Siemens	SAS250					41256-120		(3513)									
		SAS251					41256-150		(3513)									
DN835																		
DN837																		
DN839	National	UGN3201K		♦ MN411000	TI	TMS4C1024		♦ MN411000	TI	TMS4C1024		MH51236A	Fujitsu	MB85337				
	Allegro	DN834					TM4256FC1				Hitachi		HB56D51236B					
	Micro	DN837					TM5256				IBM		6450604					
	National	DN839					TC511000						6450608					
	Panasonic	DN834					41256-100		(3513)				MicronTech	MT8C36512				
		DN837					41256-120		(3513)					MT8C36512DM				
		DN839					41256-150		(3513)									
		SAS241																
	Siemens	SAS250																
		SAS251																
DN835																		
DN837																		
♦ MM41256	Fujitsu	MB81256		♦ MN2716	National	MM2716		♦ MN2716	National	MM2716		MH51236A	Fujitsu	MB85337				
	Hitachi	HM50256				OKI	MSM2716				Hitachi		HB56D51236B					
		HM50257				SGS-Thomson	M2716				IBM		6450604					
	Hyundai	HY51C256					CD40161B						6450608					
	Mitsubishi	HY53C256					MC14016B						MicronTech	MT8C36512				
		MSM4257					MC14161							MT8C36512DM				
		M5M4256					CD40161											
		M5M4257					CD40161B											
	♦ MM41256	Motorola	MT1259			MN40161	National		CD40161		MN40161		National	CD40161		PEP1MX4	TI	TM024HAC4
		NEC	μPD41256							F40161							TM024HAC4	
OKI		MSM37256					HCC40161					MT8C9026						
		MSM37257A					HCC40161B					MH1M090J						
Samsung		MSM41256					HCF40161					OKI	MSC2312KS9					
		KM41256					HCF40161B						MSC2312YS9					
		KM41256A					HEF40161											
		V51C257					TC40161B											
Vitellic		V53C256					DPD4MM1											
							Fujitsu	MB814100										
					Hitachi	HM514100												
					MicronTech	MT4C1004												
♦ MM41256	Western	WCM41256		MN41C4000	Mitsubishi	M5M44100		MN41C4000	Mitsubishi	M5M44100		PEP1MX9LP	Fujitsu	MB85265				
	MNS101	HA5101					M5M441000				Hitachi		HB56A19AT					
		5101					MDM14000				MicronTech		MT8C9024DMN					
	MicroNet	MM5101	(3547)				MCM514100				Peps		4MX9LP					
	Mitsubishi	M5L5101					μPD424100						Toshiba	THM91020A				
		MCM51101					OKI		MSM514100					THM91020AL				
		MCM145101					Samsung		KM41C4000									
		MM74C920					Siemens		HYB514100									
	National	MM5280							TMS44100									
		MM2102A							TC514100									
2102H						Hitachi	HM514101											
						Mitsubishi	M5M44101											
MN1001				MN41C4001	NEC	μPD24101		MN41C4001	OKI	MSM5144101		PEP4064EC4	TI	TM4164EC4				
							MSM514100						TM4164EQ5					
							KM41C4000						MT8068M					
							HYB514100						MT8068MN					
	Catalyst	CAT71C256					TI		TMS44100					TM4164FL8				
		S23256							TC514101					TM4164FM8				
		NCR23256							Hitachi	HM514101								
		NCR23257							Mitsubishi	M5M44101								
	OKI	MSM38256							NEC	μPD24101								
		MN23257							OKI	MSM5144101								
S-MOS		SMM23256				Samsung	KM41C4001											
SMM6325						TI	TMS44101											
MN23256				MN41C4002	Toshiba	TC514101		MN41C4002	Toshiba	TC514101		PEP4064EL8	TI	TM4164FL8				
							M5M44102						TM4164FM8					
							μPD24102											
							KM41C4002											
	Toshiba	TC53257							TC514102									
		VT23256							TC514102									
		VT23257							TC514102									
									TC514102									
	MN23257					MN41C4002					MN41C4002					PEP4064EL9		
Catalyst		CAT71C256																
		S23256																
		NCR23256																
		NCR23257																
OKI		MSM38256																
		MN23256																
	S-MOS	SMM23256																
	SMM6325																	
MN23257				MN41C4002				MN41C4002				PEP4064EL8						
	Catalyst	CAT71C256																
		S23256																
		NCR23256																
		NCR23257																
	OKI	MSM38256																
		MN23256																
S-MOS		SMM23256																
SMM6325																		
MN23257				MN41C4002				MN41C4002				PEP4064EL8						
	Catalyst	CAT71C256																
		S23256																
		NCR23256																
		NCR23257																
	OKI	MSM38256																
		MN23256																
S-MOS		SMM23256																
SMM6325																		
MN23257				MN41C4002				MN41C4002				PEP4064EL8						
	Catalyst	CAT71C256																
		S23256																
		NCR23256																
		NCR23257																
	OKI	MSM38256																
		MN23256																
S-MOS		SMM23256																
SMM6325																		
MN23257				MN41C4002				MN41C4002				PEP4064EL8						
	Catalyst	CAT71C256																
		S23256																
		NCR23256																
		NCR23257																
	OKI	MSM38256																
		MN23256																
S-MOS		SMM23256																
SMM6325																		
MN23257				MN41C4002				MN41C4002				PEP4064EL8						
	Catalyst	CAT71C256																
		S23256																
		NCR23256																
		NCR23257																
	OKI	MSM38256																
		MN23256																
S-MOS		SMM23256																

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

U.S. AIR FORCE BIRMINGHAM

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALT CAMPUS DIRECTORY

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ALT. SOURCE DIRECTORY

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Raytheon Semiconductor (Cont'd)				RC4391	Maxim	MAX4391		RC555	Samsung	NE555		RC7523	Maxim	MX7523	(Cont'd)
RC3401	Harris	CA3401	(3245)	RC4531	Motorola	MC14531			SGS-Thomson	NE555			MicroPwr	MP7523	
	Motorola	MC3401			National	F4531			Signetics	NE555			Motorola	MC7523	
RC3401	Raytheon	LM3900			SGS-Thomson	HCC40101		RC555	TI	SE555		RC7528	National	LM7523	
	TI	LM3900			Signetics	HEF4531				SE555			Unitrode	PIC7523	
RC4077	AMD	AM6070			Toshiba	TC4531B		RC555	Toshiba	TA7555		RC7528	AD	AD7528	
	AD	AD707			Harris	CD4556B		RC592	Adv Analog	A733			Maxim	AD7528	
RC4097		DAC86			Motorola	MC14556			Motorola	MC1733		RC7529	MicroPwr	MP7528	
	Maxim	MAX400			National	F4556		RC592		NE592			Motorola	MC7528	
AD	National	LM607			SGS-Thomson	HCC4556		RC592	National	μA733			TI	TL7528	
		AD108			Signetics	HEF4556		RC592	Signetics	LM733		RC7529	National	LM7529	
		AD705			Toshiba	TC4556B				NE592		RC7529		7529	
		OP97			AD	OP14 (3245, 3248)		RC592	SiliconG	SG1401	(3643)	RC8120	Unitrode	PIC7529	
		PM1008				OP215			TI	μA733			Lansdale	RL8120	
		PM108				OP270		RC709		μA733M		RC8200	Signetics	N8120	
	LinearTech	LM108			Exar	XR1458				NE592		RC8201	Lansdale	RL8201	
		LT1097				XR4558				NE592-8		RC8202	Lansdale	ML8202	
	Motorola	LM108			Fujitsu	MB3607				SE592			Lansdale	RL8202	
	National	μA108			Harris	CA1458		RC709	AD	OP06		RC8203		ML8203	
		μA208				CA1558			Motorola	MC1709		RC8230	Lansdale	ML8312	
		LM108			Hitachi	HA17458			National	μA709				ML9312	
RC4136	SiliconSys	SSI32R108			Motorola	MC4558				LM1709				RL8230	
	AD	OP09				SE4558		RC709		LM709		RC8230	National	9312	
	CMD Micro	G655C51			National	μA1458			NEC	μPC55		RC8231	Lansdale	RL8231	
	TI	RC4136				μA4558			TI	μA709		RC8232	Lansdale	RL8232	
RC4151	Exar	XR4151				LM1558		RC723	Harris	CA0723		RC8233	Lansdale	ML8233	
RC4156	TI	XR4151			Raytheon	RM4558				MC1723				RL8233	
	AD	OP470		Samsung	MC4558		RC723	Motorola	MC1723		RC8234	Lansdale	ML8234		
	Harris	HA4600		SGS-Thomson	LS4558			National	μA723				RL8234		
		HA5104			MC4558		RC723		μA723M		RC8235	Lansdale	ML8235		
	Raytheon	RM4156		Signetics	MC1458			NEC	LM723		RC8241	Lansdale	ML8241		
	Signetics	NE5514			MC1558		RC723	Samsung	LM723				RL8241		
		SE5514			NE4558			SGS-Thomson	LM723		RC8242	Lansdale	ML8242		
	TI	TL136			SA4558				μA723			Motorola	SN74LS266		
RC4157	Harris	XR4156			SE4558				LM723			National	DM74LS266		
RC4191	Raytheon	HA5112			MC1458		RC723	Signetics	μA723		RC8242		74LS266		
		RC4192		TI	MC1558			SiliconG	SG723	(3642)		SGS-Thomson	DN74LS266		
RC4192	Raytheon	RC4193			MC4558C			TI	μA723			Signetics	T74LS266		
RC4193		RC4193	(3245, 3248)		RC4558		RC725	AD	ADOP07	(3243, 3245)		TI	74LS266		
	Raytheon	RC4191			RM4558				AD201		RC8243	Intel	8243		
RC4194		RC4192			TL4558				OP06			Lansdale	RL8243		
	Exar	XR4194			Toshiba	TA75458			OP77			NEC	μPD8243		
RC4195	MCE	MCE4194				TA75558		RC725	Harris	CA0201		RC8250	Signetics	N8243	
	Raytheon	MC4194			AD	OP270				CA0301		RC8251	Lansdale	ML8250	
	Exar	XR1468			TI	RC4559				CA3193			Lansdale	ML8251	
	GoldStar	GD75189		RC4739	Exar	XR4739				CA3493		RC8252		RL8251	
RC4207	Motorola	MC1468			National	μA739				CA3493			Lansdale	ML8301	
	AD	OP14 (3245, 3248)				μA749				HA5130				ML9301	
		OP270				LM1303				HA5135				RL8252	
	Harris	HA2102			SGS-Thomson	TBA231		RC725	National	HA5177		RC8252	National	SL8252	
		HA5102				OP11				μA207				DM8301	
	MicroPwr	MPOP14			AD	OP400		RC725		LH0044		RC8252		DM9301	
	National	μA1458HC				OP470			Raytheon	OP77				9031	
		LF412				PM148		RC733	Adv Analog	A733			Lansdale	9301	
		LM1458				PM248	(3247)		Motorola	MC1733		RC8252	Signetics	S8252	
	NEC	μPC251				LM148		RC733		NE592		RC8260	Lansdale	ML8260	
	Raytheon	RC4227			Exar	XR4741				μA733		RC8261	Lansdale	ML8261	
	Samsung	MC1458			Harris	HA4741		RC733	National	LM733				S8262	
	SGS-Thomson				LinearTech	LT1014				NE592		RC8262	Signetics	RL8263	
		μA1458			MicroPwr	MPOP11		RC733	Signetics	SE592		RC8263	Lansdale	RL8264	
		MC1458			Motorola	LM248				SG1401	(3643)	RC8266	Lansdale	ML8266	
	Signetics	NE5512				LM248		RC733	SiliconG	μA733				SL8266	
		SA1458				MC33174			TI	μA733M		RC8266	Signetics	S8266	
		SE5512				MC4741				NE592		RC8267	Lansdale	ML8267	
	TI	LF412			National	LM148				NE592-8				RL8267	
	Toshiba	TA75458				LM148		RC741	AD	AD741S	(3245)	RC8270	Lansdale	ML8270	
RC4227	AD	OP14 (3245, 3248)			Raytheon	LM148				PM741				ML8271	
		OP270			SGS-Thomson	LM148				LH741A		RC8271		ML8271	
	Harris	HA2102				LM148				SN74154			Lansdale	RL8271	
		HA5102			TI	LM148		RC747	National	OP04		RC8273	Lansdale	RL8273	
	MicroPwr	MPOP14			AD	CMPO5	(3239)			CA0747		RC8274	Lansdale	RL8274	
	National	μA1458HC			Exar	XR5534				HA17747			Signetics	N8274	
		LF412			Motorola	MC5534			Harris	MP0P04		RC8275	Lansdale	RL8275	
		LM1458			National	LM5534			Hitachi	MC1747		RC8277	Lansdale	ML8277	
	NEC	μPC251				MC5534			MicroPwr	μA747		RC8280		ML8280	
	Raytheon	RC4207			Exar	XR555M			Motorola	LM747			National	RL8280	
	Samsung	MC1458				GLC555			National	μPC1418		RC8280		DM74176	
	SGS-Thomson				GoldStar	CA0555				RM747				DM8280	
		μA1458			Harris	NE555			NEC	μA747		RC8280	Signetics	74176	
		MC1458				M5E555		RC555	Raytheon	μA747M			TI	SN74176	
	Signetics	NE5512			Mitsubishi	M51841			Signetics	AD7523		RC8281	Lansdale	ML8281	
		SA1458				M51848			TI	DAC7523			National	DM74177	
		SE5512				MC1455		RC555	AD	AD7523				DM8281	
	TI	LF412			Motorola	μA555			Datel	AD7523					
	Toshiba	TA75458			National	LM555			Harris						
		TA75558													

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Raytheon Semiconductor (Cont'd)				RC945	Motorola National	MC945 DM945 945		REF01	Motorola	(Cont'd)		RG251	Lansdale	ML2154	
RC8281	Signetics TI	74177 SN74177		RC946	Lansdale	ML846			TeledyneS	MC1404 MC1504		RG260	Lansdale	ML2105	
RC8284	Lansdale	ML8284		RC946	Motorola National	MC946 DM946 946		REF02	Thaler AD	REF01 TSC9495 TSC9496 VRE100 ADREF02		RG261	Lansdale	ML2155	
RC8285	Lansdale	ML8285								REF02 (3238)		RG270	Lansdale	ML2106	
RC8288	Lansdale	ML8288 SL8288		RC948	Lansdale	ML848				REF02 (3238)		RG271	Lansdale	ML2156	
RC8290	Lansdale	ML74196 (3514)		RC948	Motorola National	MC948 DM948 948			LinearTech	LT1019-5		RG280	Lansdale	ML2053	
RC8290	National	DM74196 DM8290		RC949	Lansdale	ML849		RF100	Maxim MicroPwr	REF02		RG281	Lansdale	ML577	
RC8290	Signetics TI	74196 SN74196		RC949	Motorola National	MC949 DM949 949		RF101	TeledyneS	MPREF02		RG289	Lansdale	ML528	
RC8291	Lansdale	ML74197 (3514)		RC950	Motorola National	MC950 9950		RF110	Lansdale	ML573		RG291	Lansdale	ML578	
RC8291	National	DM74197 DM8291		RC951	Motorola	MC851		RF111	Lansdale	IDT IDT29FCT520		RG300	Lansdale	ML2112	
RC8291	Signetics TI	74197 SN74197		RC951	National	9951		RF120	Lansdale	L29C520		RG310	Lansdale	ML2162	
RC8293	Lansdale	ML74122 (3514)		RC957	Motorola	MC857		RF121	Lansdale	P29PCT520		RG311	Lansdale	ML2163	
RC8601	Lansdale	ML8601		RC957	National	DM957		RF130	Lansdale	ML574		RG320	Lansdale	ML2107	
RC8601	National	DM8601		RC957	National	DM957		RF131	Lansdale	ML575		RG321	Lansdale	ML2157	
RC8601	Signetics	N8T22 S8T22		RC958	Lansdale	ML858		RF200	Lansdale	ML521		RG370	Lansdale	ML529	
RC8601	TI	SN74122		RC958	Motorola	MC858		RF211	Lansdale	ML571		RG371	Lansdale	ML2166	
RC8602	Lansdale	ML8602		RC958	National	9157		RF212	Lansdale	ML515		RG380	Lansdale	ML2116	
RC930	Lansdale	ML830		RC958	National	9158		RF250	Lansdale	ML566		RG40	Lansdale	ML500	
RC930	Motorola	MC830		RC9601	Lansdale	ML9601		RF251	Lansdale	ML516		RG41	IDT	IDT74FCT241	
RC930	National	DM930		RC9602	National	DM9602		RF261	Lansdale	ML2160					
RC9300	Lansdale	ML54195 (3514)		RC961	Lansdale	ML961		RF30	Lansdale	ML521		RG41	Performance	P74PCT241	
RC9300	National	9300		RC962	Motorola National	DM961		RF31	Lansdale	ML571		RG50	Lansdale	ML501	
RC9310	Lansdale	ML74160 (3514)		RC962	Motorola	MC962		RF50	Lansdale	ML515		RG51	Lansdale	ML551	
RC9310	National	DM74160		RC962	Motorola	DM962		RF51	Lansdale	ML565		RG60	Lansdale	ML502	
RC932	Lansdale	ML832		RC963	Lansdale	ML862		RF60	Lansdale	ML516		RG61	Lansdale	ML552	
RC932	Motorola	MC932		RC963	Motorola	MC963		RF61	Lansdale	ML566		RG70	Lansdale	ML520	
RC932	National	DM932		RC963	National	9158		RF8601	Lansdale	ML74122 (3514)		RG71	Lansdale	ML570	
RC933	Lansdale	ML933		RC963	Motorola	DM963		RF8602	National	DM8601		RG80	Lansdale	ML526	
RC933	Motorola	MC933		RC963	National	9158		RF8602	Signetics	DM9601		RG81	Lansdale	ML576	
RC935	Lansdale	ML935		RC963	Motorola	DM963		RF8602	TI	9601		RG90	Lansdale	ML503	
RC935	Motorola	MC935		RC963	Motorola	DM963		RF8602	Lansdale	N8T22		RG91	Lansdale	ML553	
RC935	National	DM935		RC963	Motorola	DM963		RF8602	National	S8T22		RL10	Lansdale	ML4326	
RC936	Lansdale	ML836		RC963	Motorola	DM963		RF8602	TI	SN74122		RL11	Lansdale	ML4327	
RC936	Motorola	MC936		RC963	Motorola	DM963		RF8602	Lansdale	ML9602		RL12	Lansdale	ML4026	
RC936	National	DM936		RC963	Motorola	DM963		RF8602	National	DM8602		RL13	Lansdale	ML4027	
RC937	Lansdale	ML837		RC963	Motorola	DM963		RF8602	TI	DM9602		RL20	Lansdale	ML4328	
RC937	Motorola	MC837		RC963	Motorola	DM963		RF8602	Lansdale	DM9602		RL21	Lansdale	ML4329	
RC937	National	DM937		RC963	Motorola	DM963		RF8602	National	9602		RL22	Lansdale	ML4028	
RC944	Lansdale	ML844		RC963	Motorola	DM963		RF8602	TI	ML74122 (3514)		RL23	Lansdale	ML4029	
RC944	Motorola	MC944		RC963	Motorola	DM963		RF8602	Lansdale	ML8601		RL30	Lansdale	ML4330	
RC945	Lansdale	ML845		RC963	Motorola	DM963		RF8602	National	DM8601		RL31	Lansdale	ML4331	
		ML945		RC963	Motorola	DM963		RF8602	Signetics	DM9601		RL32	Lansdale	ML4030	
				RC963	Motorola	DM963		RF8602	TI	9601		RL33	Lansdale	ML4031	
				RC963	Motorola	DM963		RF8602	Lansdale	N8T22		RL41	Lansdale	ML4332	
				RC963	Motorola	DM963		RF8602	National	S8T22		RL43	Lansdale	ML4032	
				RC963	Motorola	DM963		RF8602	TI	SN74122		RL61	Lansdale	ML4335	
				RC963	Motorola	DM963		RF8602	Lansdale	ML9602		RL63	Lansdale	ML4035	
				RC963	Motorola	DM963		RF8602	National	DM8602		RL71	Lansdale	ML4337	
				RC963	Motorola	DM963		RF8602	TI	DM9602		RL73	Lansdale	ML4037	
				RC963	Motorola	DM963		RF8602	Lansdale	9602		RL80	Lansdale	ML4304	
				RC963	Motorola	DM963		RF8602	National	ML74122 (3514)		RL81	Lansdale	ML4305	
				RC963	Motorola	DM963		RF8602	TI	ML8601		RL82	Lansdale	ML4004	
				RC963	Motorola	DM963		RF8602	Lansdale	DM8601		RL83	Lansdale	ML4005	
				RC963	Motorola	DM963		RF8602	National	DM9601		RM1900	Lansdale	ML1800	
				RC963	Motorola	DM963		RF8602	Signetics	9601		RM1901	Lansdale	ML1801	
				RC963	Motorola	DM963		RF8602	TI	N8T22		RM1902	Lansdale	ML847	
				RC963	Motorola	DM963		RF8602	Lansdale	S8T22		RM1903	Lansdale	ML1803	
				RC963	Motorola	DM963		RF8602	National	SN74122		RM1904	Lansdale	ML1804	
				RC963	Motorola	DM963		RF8602	TI	ML9602		RM1905	Lansdale	ML1805	
				RC963	Motorola	DM963		RF8602	Lansdale	DM8602		RM201	Lansdale	RL201	
				RC963	Motorola	DM963		RF8602	National	DM9602		RM202	Lansdale	RL202	
				RC963	Motorola	DM963		RF8602	TI	9602		RM204	Lansdale	RL204	
				RC963	Motorola	DM963		RF8602	Lansdale	ML505		RM206	Lansdale	RL206	
				RC963	Motorola	DM963		RF8602	National	ML555		RM208	Lansdale	RL208	
				RC963	Motorola	DM963		RF8602	TI	ML506		RM210	Lansdale	RL210	
				RC963	Motorola	DM963		RF8602	Lansdale	ML556		RM211	Lansdale	RL211	
				RC963	Motorola	DM963		RF8602	National	ML507		RM212	Lansdale	RL212	
				RC963	Motorola	DM963		RF8602	TI	ML557		RM213	Lansdale	RL213	
				RC963	Motorola	DM963		RF8602	Lansdale	ML508		RM214	Lansdale	RL214	
				RC963	Motorola	DM963		RF8602	National	ML558		RM215	Lansdale	RL215	
				RC963	Motorola	DM963		RF8602	TI	ML509		RM216	Lansdale	RL216	
				RC963	Motorola	DM963		RF8602	Lansdale	ML599		RM217	Lansdale	RL217	
				RC963	Motorola	DM963		RF8602	National	ML519		RM220	Lansdale	RL220	
				RC963	Motorola	DM963		RF8602	TI	ML569		RM224	Lansdale	RL224	
				RC963	Motorola	DM963		RF8602	Lansdale	ML510		RM225	Lansdale	RL225	
				RC963	Motorola	DM963		RF8602	National	ML560		RM226	Lansdale	RL226	
				RC963	Motorola	DM963		RF8602	TI	ML511		RM227	Lansdale	RL227	
				RC963	Motorola	DM963		RF8602	Lansdale	ML561		RM231	Lansdale	RL231	
				RC963	Motorola	DM963		RF8602	National	ML512		RM234	Lansdale	RL234	
				RC963	Motorola	DM963		RF8602	TI	PM562		RM236	Lansdale	RL236	
				RC963	Motorola	DM963		RF8602	Lansdale	ML562		RM241	Lansdale	RL241	
				RC963	Motorola	DM963		RF8602	National	ML2111		RM246	Lansdale	RL246	
				RC963	Motorola	DM963		RF8602	TI	ML2161		RM261	Lansdale	RL261	
				RC963	Motorola	DM963		RF8602	Lansdale	ML2100		RM266	Lansdale	RL266	
				RC963	Motorola	DM963		RF8602	National	ML2150		RM286	Lansdale	RL286	
				RC963	Motorola	DM963		RF8602	TI	ML2101		RM288	Lansdale	RL288	
				RC963	Motorola	DM963		RF8602	Lansdale	ML2151		RM296	Lansdale	RL296	
				RC963	Motorola	DM963		RF8602	National	ML2102		RM3403	Exar	XR3403M	
				RC963	Motorola	DM963		RF8602	TI	ML2152		RM4131	Elantec	EHA2600	
				RC963	Motorola	DM963		RF8602	Lansdale	ML2103			Harris	HA2600	
				RC963	Motorola	DM963		RF8602	National	ML2153			Motorola	MC1556	
				RC963	Motorola	DM963		RF8602	TI	ML2104					
				RC963	Motorola	DM963		RF8602	Lansdale	ML2154					

* Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Raytheon Semiconductor (Cont'd)				RM5534	Signetics	(Cont'd)		RM8230	Lansdale	ML8312 ML9312 RL8230		RM944	Lansdale	ML844 ML944	
• RM4131	Signetics	SE556			TI	SE5534 NE5534 NE5534A SE5534 SE5534A		• RM8230	National	9312		• RM944	Motorola	MC944	
	Sipex-HSD	SP2600						• RM8231	Intel	8231			National	DM944	
	TI	MC1556		• RM555	Exar	XR555			Lansdale	SL8231		• RM945	Lansdale	944	
RM4136	AD	SE556M						• RM8241	Signetics	S8231				ML845	
		OP09		• RM555	GoldStar	XR555M			Lansdale	SL8241		• RM945	Motorola	ML945	
	Exar	PM4136			Harris	GLC555			Motorola	SN54LS386			National	MC945	
	TI	XR4136M		• RM555		CA0555		• RM8250	National	DM54LS386				DM945	
RM4156	AD	RM4136				NE555			TI	SN54LS386				945	
	Harris	OP470		• RM555	Mitsubishi	M5E555			Lansdale	SL8250		• RM946	Lansdale	9945	
		HA4600				M51841		• RM8252	National	INS8250				ML846	
	Raytheon	HA5104		• RM555		M51848			Lansdale	INS8250A		• RM946	Motorola	ML946	
	Signetics	RC4156			Motorola	MC1455		• RM8252		ML8301			National	MC946	
		NE5514		• RM555	National	μA555				ML9301				DM946	
		SE5514				LM555		• RM8252	National	RL8252		• RM948	Lansdale	946	
	TI	TL136		• RM555	Samsung	NE555				DM8301				9946	
		XR4156			SGS-Thomson			• RM8280		DM9301		• RM948	Motorola	ML848	
• RM4158	AD	OP11				NE555				9031		• RM948	National	ML948	
		OP400		• RM555	Signetics	NE555		• RM8252	Signetics	9301				MC948	
		OP470				SE555		• RM8262	Signetics	S8252				DM948	
		PM148		• RM555	TI	SE555		• RM8266	Lansdale	S8262		• RM950	Lansdale	948	
		PM248	(3247)			SE555M				ML8266		• RM952	Lansdale	9948	
• RM4158	Exar	XR4741		• RM555	Toshiba	TA7555		• RM8266	Signetics	SL8266			Motorola	ML850	
	Harris	HA4741		• RM709	AD	OP06		• RM8270	TI	S8266			National	ML952	
	LinearTech	LT1014				MC1709		• RM8271	Signetics	SN54178		• RM961	Lansdale	MC952	
	MicroPwr	MP0P11			Motorola	μA709		• RM8280	Lansdale	S8271		• RM962	Lansdale	9099	
	Motorola	LM148			National	LM1709				ML8280				ML861	
		LM248		• RM709	NEC	μPC55		• RM8280	National	RL8280				ML862	
		MC33174			TI	LM709				DM74176		• RM962	Motorola	ML962	
• RM4158	National	MC4741		• RM723	Harris	CA0723		• RM8280	Signetics	DM8280				MC962	
		μA148			Motorola	MC1723			TI	96176				DM962	
• RM4158	Raytheon	LM148		• RM723	National	μA723		• RM8281	Lansdale	74176				962	
		LM148				μA723M			National	SN74176		RV4136	AD	OP09	
• RM4158	SGS-Thomson	RC4741		• RM723	NEC	LM723		• RM8281	Lansdale	ML8281			TI	RV4136	
		LM148			Samsung	LM723			National	DM74177		R29671D	AMD	AM27S43	
RM4194	Exar	XR4194		• RM723	Signetics	μA723		• RM8281	Signetics	DM8281				AM27S43A	
	MCE	MCE4194			TI	SG723	(3642)	• RM9094	TI	74177				27S43	
	Raytheon	RC4194				μA723M		• RM9094	Lansdale	SN74177				MB7142	
RM4558	AD	OP14 (3245, 3248)		• RM725	AD	AD0P07	(3243, 3245)	• RM9094	Motorola	ML856				27CX321	
		OP215				AD201		• RM9094	National	HL76321				DM77S321	
		OP270		• RM723	Signetics	OP06		• RM9094	National	DM9311				29671	
	Exar	XR1458			SiliconG	OP77		• RM9304	Lansdale	ML956				29671A	
		XR4558			TI	CA0201		• RM9310	Lansdale	MC856				N82H321	
	Fujitsu	MB3607		• RM725	AD	CA0301		• RM9310	Lansdale	MC956				WS57C43B	
	Harris	CA1458				CA3193		• RM9311	TI	DM9094				AM29C116	
		CA1558				CA3493		• RM9311	Lansdale	9094				AM29C116A	
	Hitachi	HA17458				HA5130		• RM9312	National	ML54160	(3514)			AM29116	
	Motorola	MC4558		• RM725	Harris	HA5135		• RM9316	National	SN54160				CY7C9116	
		SE4558				HA5177		• RM9322	National	ML54154	(3514)			CY7C9117	
		μA1458		• RM725	National	μA207		• RM933	Lansdale	DM54154				27CX322	
		μA4558				LH0044			National	DM9311				TMS27C292	
		LM1558				OP77		• RM9311	Signetics	54154		SP3724	Motorola	MQ3724	
	Raytheon	RC4558				CA0707		• RM9312	TI	SN54154			National	FQ3724	
	Samsung	MC4558		• RM725	Raytheon	HA5177		• RM9316	Lansdale	SL8230		SP3725	Motorola	MQ3725	
	SGS-Thomson	LS4558			AD	OP02	(3245)	• RM9322	National	DM9312			National	DH3725	
		MC4558		• RM725		OP77		• RM933	National	DM9316				FQ3725	
		MC1458				OP77			National	DM9322		• XR2567	Exar	XL567	
	Signetics	MC1558				OP77		• RM9341	Lansdale	ML933				XR2567	
		NE4558		• RM725	Raytheon	AD741			National	MC933		• XR2567	MCE	MC567	
		SA4558			AD	OP02		• RM9341	Lansdale	DM933			National	LM567	
		SE4558				OP02		• RM9341	National	9933			Samsung	LM567C	
		MC1458				OP77		• RM9342	Lansdale	ML54181	(3514)			LM567L	
		MC1558				OP77			National	ML74181	(3514)	• XR2567	Sharp	IR3N05	
		MC4558C				OP77		• RM9342	Lansdale	SL54182			Signetics	NE567	
		RC4558				OP77				DM54182				SE567	
		RM4558				OP77		• RM9342	National	ML385		• 29VP864	AMD	AM27S49	
		TL4558				OP77		• RM935	Lansdale	ML935				27S49	
	Toshiba	TA75458				OP77				MC835		• 29VP864	ATMEL	AT27HC641	
		TA75558				OP77		• RM935	Motorola	MC935				AT27HC642	
• RM5524	Motorola	MC5524				OP77		• RM935	National	DM935		• 29VP864	Cypress	CY7C261	
	National	LM5524				OP77				9135				CY7C263	
• RM5532	AD	MC5524				OP77				9335		• 29VP864	Fujitsu	CY7C264	
		OP270				OP77		• RM936	Lansdale	ML836				MBM7144	
• RM5532	Exar	SSM2139	(3242)	RM747	AD	OP04				ML936				MB7144	
		XR5532			Harris	CA0747		• RM936	Motorola	MC936		• 29VP864	ICT	MB7144E	
		XR5532A			Hitachi	HA17747			National	DM936				27CX641	
• RM5532	MicroPwr	MP5532			MicroPwr	MP0P04		• RM937	Lansdale	936			Microchip	27HC641	
	Signetics	NE5532			Motorola	MC1747				9936			National	327565	
		NE5532A				μA747		• RM937	Motorola	ML387				932665	
		SE5532				LM747			National	ML937				932667	
		SE5532A				μPC1418		• RM937	Lansdale	MC837				932667C	
• RM5532	TI	NE5532			NEC	RC747			Motorola	MC937		• 29VP864	NEC	μPD27HC65	
		NE5532A			Raytheon	μA747		• RM937	National	DM937			Sharp	LH5749	
		SE5532			Signetics	μA747M				937		• 29VP864	Signetics	N82HS641	
		NE5532A				S8T09				ML840				27HC641	
RM5534	AnalogSys	MA332		• RM8T09	Signetics	SL8202		• RM940	Lansdale						
	Signetics	NE531		• RM8202	Lansdale										
		NE5534													
		NE5534A													
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• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

♦ Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page		
Rockwell International (Cont'd)				R5516A/2816A				R87C64				BA6124				(Cont'd)	
• R2364B	VLSI Tech	VT2364	(Cont'd)	Signetics	NE5517			Microchip	27C64				Sanyo	LB1403N			
	Weitek	SC8164		Sony	CMX5816			National	NMC27C64					LB1423N			
• R27C32	Intel	M2732		UMC	UM6116			OKI	MSM27C64				Toshiba	TA7366P			
		2732		Vitelc	V61C16			S-MOS	SPM27C64				Samsung	KA2287			
		2732A		CMD Micro	G655C02			SGS-Thomson	TS27C64A				Sanyo	LB1413N			
• R27C32	Krueger	2732-250	(3513)	GoldStar	GLC556			Signetics	27C64				ROHM	BA546			
		2732-300	(3513)	NCR	NCR65C00-1			TI	TMS27C64					BA6124			
		2732-350	(3513)	TI	NE555			VLSI Tech	TMS27PC64				Samsung	KA2284			
		2732-450	(3513)	R65C102	G655C102			Waferscale	WS27C64L					KA2285			
		2732A-250	(3513)	R65C112	G655C112								Sanyo	LB1403N			
		2732A-300	(3513)	R65C21	G655C21									LB1423N			
		2732A-350	(3513)	R65C22	G655C22								Toshiba	TA7366P			
		2732A-450	(3513)	Rockwell	R65C24		(3576)						Samsung	KA8301			
• R27C32	National	MM2732		R65C24	CMD Micro	G655C22							BA6290	KA9257			
		NMC2732		Rockwell	R65C22		(3576)						BA6411	KA8304			
• R27C32	OKI	MSM2732			R65C51								BA656	KA2286			
	SGS-Thomson			Gould AMI	S65C51								Sanyo	LB1433N			
		M2732A		Mitel	MD65SC51B								Samsung	KA8401			
		TMS2732A		CMD Micro	G655C22												
• R27C64	ATMEL	AT27HC64		Rockwell	R65C22		(3576)										
	Intel	M27C64			R65C24		(3576)										
	Krueger	27C64-200	(3513)		R65C22		(3576)										
		27C64-250	(3513)		R6500/1												
		27C64-300	(3513)		R6500/1E												
• R27C64	Microchip	27C64			R6500/1EC												
	National	NMC27C64			R6500/11												
	OKI	MSM27C64			R6500/12												
	S-MOS	SPM27C64			Motorola	MC3373											
	SGS-Thomson				NCR	NCR6500-12											
		TS27C64A			Rockwell	R6500/13	(3575)										
		27C64				R6500/15	(3575)										
		TMS27C64			R6500/13												
		TMS27PC64				R6500/15	(3575)										
• R27C64	VLSI Tech	VT27C64			R6500/15												
	Waferscale	WS27C64L															
• R2764	ATMEL	AT27HC64															
	Hyundai	HY2764															
	Intel	M2764															
	Krueger	2764-200	(3513)														
		2764-250	(3513)														
		2764-300	(3513)														
		2764-450	(3513)														
• R2764	Mitsubishi	MSL2764															
	National	2764															
	OKI	MSM2764															
	SEEQ	2764															
	TI	TMS27PC64															
		TMS2764															
R2816A	ATMEL	AT27C16															
		AT28C16															
		AT28HC16															
	Catalyst	CAT28C16A															
	Semi	XL2816A															
	EXEL	HM6617															
	Harris	IDT78C16A															
	IDT	28C16A															
	Microchip	NMC2816															
	National	NMC9816A															
		NM9816															
	Samsung	KM2816A															
	SEEQ	M2816A															
		2816															
		2816A															
	Xicor	X2816															
		X2816A															
• R52B33	SEEQ	52B33															
• R5213/2816	AD	AD5213															
	MicroNet	MM5213	(3547)														
• R5516A/2816A	Allegro	UDN6116															
	Micro	HM6116															
	Hitachi	M5M5517															
	Mitsubishi	MMC2116															
	National	MSM2128															
	OKI	MSM5126															
		MSM5128															
		MSM5129															
• R5516A/2816A	S-MOS	SMC6116															
		SRM2016C															
• R5516A/2816A	SGS-Thomson	ET2128															
		MK2817															
		MK6116															
• R5516A/2816A	Sharp	LH5115															
		LH5116															
			(Continued)														

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
S-MOS Systems (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
SMC82C37A	Mitsubishi	M5M82C37A		SMM6325	Toshiba	TC53257		SRM20256	Mitsubishi	M5M5256		SRM2064	S-MOS	SRM2264	
	NEC	M5M82C37AP			VLSI Tech	VT23256			Mosel	MS62256			Samsung	KM6264	
	NEC	μPD71037				VT23257			Motorola	MCM60256A			Sharp	KM6264A	
	Newbridge	μPD8237A	(3569)		Catalyst	CAT71C256			National	NM44251			Sony	LH5164	
	OKI	MSM82C37A			Gould AMI	S23256			NEC	μPD43256B				LH5165	
	Samsung	KS82C37A			NCR	NCR23256			OKI	MSM51257JS				CKX5164P	
		KS8237A			OKI	NCR23257				MSM51257LRS				CKX5863P	
	Toshiba	TM82C37			Panasonic	MSM38256				MSM51257RJ				CKX5864	
	VLSI Tech	VL82C37A				MN23256				MSM51257RS				CKX5865	
SMC82C51AC	Intel	P8251			S-MOS	SMM23256			Performance	P4C1256			Toshiba	CKX5865P	
	National	82C51			Signetics	SMM6325			S-MOS	SRM20256C				TC5563	
	NEC	INS8251				23256			Samsung	SRM2257			UMC	TC5588	
	OKI	μPD8251A			Toshiba	23256A			Sharp	KM62256			Vitellic	UM6264A	
		MSM82C51A			VLSI Tech	TC53257				KM68257				V61C62	
	AMD	D8255A				VT23256			Sony	LH52259				V62C64	
	Harris	82C55A			ATMEL	AT27HC64			Toshiba	LH52259				V63C64	
	Intel	P8255			Intel	M27C64				CKX58256				VT20C99	
		82C55A			Krueger	27C64-200 (3513)				TC55257A				CY7C148	
		8255A				27C64-300 (3513)			UMC	UM62256A				HA5114	
	Mitsubishi	M5M82C55A				27C64			Catalyst				Intel	HM6514	
	NEC	M5M82C55AP			Microchip	27C64			Semi	CAT71C256			Mitsubishi	5114	
		μPD71055			National	NMC27C64				CAT71C256L			OKI	MSM5114	
		μPD8255A			OKI	MSM27C64			Cypress	CY7C197			Sanyo	LC3514	
		71055			SGS-Thomson	TS27C64A			Dense-Pac	DPS92256			Signetics	5114	
	Newbridge	CA82C55A (3569)			Signetics	TS27C64				DPS92256L			Fujitsu	MB81C84A	
	OKI	MSM82C55A			TI	TMS27C64			GoldStar	GM76C256			IDT	IDT71258L	
	Samsung	KS82C55A				TMS27PC64			Hitachi	HM61256				IDT71258S	
	Toshiba	TM82C55			VLSI Tech	VT27C64				HM62256			LogicDev	L7C194	
	UMC	UM82C55A (3689)			Waferscale	WS27C64L			Hyundai	HY62C256			OKI	MSM52464	
	Catalyst	CAT71C256			ATMEL	AT27C128				HY63C256			Performance	P4C1258	
	Semi	S23256			Fujitsu	MBM27C128				HY63C256L			Samsung	KM64257	
	Gould AMI	NCR23256			Intel	M27C128			Inova	S32K8			Sharp	LH52252	
	NCR	NCR23257				27C128A			IDT	IDT7M856S			Catalyst	CAT71C256	
	OKI	MSM38256			Microchip	27C128				IDT71256L			Semi	CAT71C256L	
	Panasonic	MN23256			OKI	MSM27C128				IDT71256S			Cypress	CY7C197	
		MN23257			SGS-Thomson	M27128A				IDT8M824			Dense-Pac	DPS92256	
	S-MOS	SMM6325				WS27C128L			LogicDev	L7C199				DPS92256L	
	Signetics	23256			Waferscale	WS27C128L			MicronTech	MT5C2568			GoldStar	GM76C256	
		23256A			Mitsubishi	M5M8725			Mitsubishi	M5M5256			Hitachi	HM61256	
	Toshiba	TC53257			OKI	MSM2128			Mosel	MS62256				HM62256	
	VLSI Tech	VT23256			SGS-Thomson	MSM5128			Motorola	MCM60256A			Hyundai	HY62C256	
		VT23257				ETL2128			National	NM44251				HY63C256	
	NCR	NCR2364			Sharp	LH5115			NEC	μPD43256B				HY63C256L	
	OKI	MSM3864			Allegro	UDN6116			OKI	MSM51257JS			Inova	S32K8	
	Plessey	SL2364C			Micro	HM6116				MSM51257LRS			IDT	IDT7M856S	
	Sharp	LH2364A			Hitachi	M5M5517			Performance	P4C1256				IDT71256L	
	Signetics	2364			Mitsubishi	MMC2116			S-MOS	SRM20256				IDT71256S	
	TI	TMS2364			National	MSM2128				SRM2257				IDT8M824	
	VLSI Tech	VT2364			OKI	MSM5126			Samsung	KM62256			LogicDev	L7C199	
	Weitek	SC8164				MSM5128				KM68257			MicronTech	MT5C2568	
	NCR	NCR2365				MSM5129			Sharp	LH52259			Mitsubishi	M5M5256	
	VLSI Tech	VT2365			S-MOS	SMC6116				LH52259			Mosel	MS62256	
	AMD	AM27C010			SGS-Thomson	ET2128			Sony	CKX58256			Motorola	MCM60256A	
	ATMEL	AT27C010				MK2817			Toshiba	TC55257			National	NM44251	
		AT27C1024				MK6116				TC55257A			NEC	μPD43256B	
	Catalyst	CAT27C210				LH5116			UMC	UM62256A			OKI	MSM51257JS	
	Semi	CAT27010			Sharp	NE5517			Dense-Pac	DPS88H08				MSM51257LRS	
	Fujitsu	MBM27C1001			Signetics	NE5517			Exar	XR8464				MSM51257RJ	
	Hitachi	HN27C010			Sony	UM6116			Fujitsu	MB8B464			Performance	P4C1256	
		HN27C010G			UMC	V61C16				MB81C78A			S-MOS	SRM20256	
		HN27C101			Vitellic	SCM20C16				MB8464A				SRM20256C	
		HN27C101G			Allegro	SCM20C16			GoldStar	GM76C88L			Samsung	KM62256	
		HN27C301G			Micro	MBM8418			Harris	CDM6264				KM68257	
	Intel	27010			Fujitsu	SCM20C16			Hitachi	HM6264			Sharp	LH52256	
	Krueger	27210			Catalyst	CAT71C256				HM6464				LH52259	
	Mitsubishi	M5M27C101K			Semi	CAT71C256L			Hyundai	MB6264			Sony	CKX58256	
		M5M27C102				CAT71C256L			IDT	HY6264			Toshiba	TC55257	
		M5M27C102K			Cypress	CY7C197				DPS9264				TC55257A	
	National	NMC27C010			Dense-Pac	DPS92256			Krueger	6264-100 (3513)			UMC	UM62256A	
	NEC	μPD27C1001A				DPS92256L				6264-120 (3513)			Fujitsu	MB81C71A	
	Toshiba	TC571001			GoldStar	GM76C256				6264-150 (3513)			Hitachi	HM6287	
	Waferscale	WS27C010L			Hitachi	HM61256				6264LP-100 (3513)				L7C166	
	Catalyst	CAT71C256				HM62256				6264LP-120 (3513)			LogicDev	L7C166	
	Semi	S23256				HM64456				6264LP-150 (3513)			Mitsubishi	M5M5187	
	Gould AMI	NCR23256			Hyundai	HY62C256			MicroLinear	ML8464				M5M5187AP	
	NCR	NCR23257				HY63C256			Mitsubishi	AM99C88			OKI	M5M5187P	
	OKI	MSM38256				HY63C256L				M5M5178			Saratoga	SM7187	
	Panasonic	MN23256			Inova	S32K8				MCM6064			SGS-Thomson	MK41H87	
		MN23257			IDT	IDT7M856S			Motorola	MCM61L64				LH5261	
		SMM23256				IDT71256L				MCM6164C			Sharp	74HC4515	
	Signetics	23256				IDT8M824				DP8464			Dense-Pac	DPS88H08	
		23256A			LogicDev	L7C199			National	MSM5164			Exar	XR8464	
					MicronTech	MT5C2568			OKI	MSM5165			Fujitsu	MB8B464	
										MSM5188				MB81C78A	
														MB8464A	

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S-MOS Systems (Cont'd)				Samsung Semiconductor				Samsung Semiconductor				Samsung Semiconductor			
SRM2264	GoldStar	GM76C88L	(Cont'd)	CPL16L8	AMD	PALCE16V8		CPL16R4L-25	AMD	PAL16R4		CPL16R6-35	Samsung	CPL16R4L-35	(Cont'd)
	Harris	CDM6264			Cypress	PAL16L8			Cypress	PAL16R4		CPL16R6L-25	Cypress	CPL16R6L-35	
	Hitachi	HM6264			Harris	PAL16L8			Gazelle	PAL16R4		CPL16R6L-35	National	PAL16R4B4	
		HM6464			Intel	HPL16LC8-5			Intel	PAL16R4			Samsung	PAL16R6B4	
		MB6264			Intel	5C031			Lattice	PAL16R4				CPL16R4L-35	
	Hyundai	HY6264			Lattice	5C032			Lattice	PAL16R4				CPL16R6-35	
	IDT	DPS9264			National	GAL16V8A			National	PAL16R4				PAL16R8	
	Krueger	6264-100 (3513)			National	GAL16V8			National	PAL16R4				PALC16R8	
		6264-120 (3513)			Samsung	16P8A			Signetics	PAL16R4				PALC16R8	
		6264-150 (3513)			SGS-Thomson	16P8B			Signetics	PAL16R4				GA23SV8	
		6264LP-100 (3513)			SGS-Thomson	16P8B			Signetics	PAL16R4				GA23S8	
		6264LP-120 (3513)			SGS-Thomson	16P8B			Signetics	PAL16R4				HPL16RC8	
		6264LP-150 (3513)			SGS-Thomson	16P8B			Signetics	PAL16R4				HPL16RC8-5	
	MicroLinear	ML8464			SGS-Thomson	16P8B			Signetics	PAL16R4				HPL16R8	
	Mitsubishi	AM99C88			SGS-Thomson	16P8B			Signetics	PAL16R4				5C031	
		M5M5178			SGS-Thomson	16P8B			Signetics	PAL16R4				5C032	
	Motorola	MCM6064			SGS-Thomson	16P8B			Signetics	PAL16R4				GAL16V8A	
		MCM61L64			SGS-Thomson	16P8B			Signetics	PAL16R4				GAL18V10	
	National	DP8464			SGS-Thomson	16P8B			Signetics	PAL16R4				PAL16R8	
	OKI	MSM5164			SGS-Thomson	16P8B			Signetics	PAL16R4				CPL16R8-35	
		MSM5165			SGS-Thomson	16P8B			Signetics	PAL16R4				CPL16R8L-35	
		MSM5188			SGS-Thomson	16P8B			Signetics	PAL16R4				PLUS16R8	
	S-MOS	SRM2064			SGS-Thomson	16P8B			Signetics	PAL16R4				SN74PAL16R8A	
	Samsung	KM6264			SGS-Thomson	16P8B			Signetics	PAL16R4				TIBPAL16R8	
		KM6264A			SGS-Thomson	16P8B			Signetics	PAL16R4				TIBPAL16R8-20	
	Sharp	LH5164			SGS-Thomson	16P8B			Signetics	PAL16R4				TIBPAL16R8-30	
		LH5165			SGS-Thomson	16P8B			Signetics	PAL16R4				TICPAL16R8	
	Sony	CKX5164P			SGS-Thomson	16P8B			Signetics	PAL16R4				PAL16R8A	
		CKX5863P			SGS-Thomson	16P8B			Signetics	PAL16R4				GA23SV8	
		CKX5864			SGS-Thomson	16P8B			Signetics	PAL16R4				GA23S8	
		CKX5865			SGS-Thomson	16P8B			Signetics	PAL16R4				PAL16R8A	
		CKX5865P			SGS-Thomson	16P8B			Signetics	PAL16R4				16RP8B2	
	Toshiba	TC5563			SGS-Thomson	16P8B			Signetics	PAL16R4				16R8A	
		TC5565A (3682)			SGS-Thomson	16P8B			Signetics	PAL16R4				TIBPAL16R8A	
	UMC	UM6264A			SGS-Thomson	16P8B			Signetics	PAL16R4				PAL16R8A-2	
	Vitelc	V61C62			SGS-Thomson	16P8B			Signetics	PAL16R4				PAL16R8C	
		V62C64			SGS-Thomson	16P8B			Signetics	PAL16R4				TIBPAL16R8A-2	
		V63C64			SGS-Thomson	16P8B			Signetics	PAL16R4					
	VLSI Tech	V720C99			SGS-Thomson	16P8B			Signetics	PAL16R4					
SRM2267	AMD	AM2167			SGS-Thomson	16P8B			Signetics	PAL16R4					
	Cypress	CY7C167A			SGS-Thomson	16P8B			Signetics	PAL16R4					
	Harris	HM65262			SGS-Thomson	16P8B			Signetics	PAL16R4					
	Hitachi	HM6267			SGS-Thomson	16P8B			Signetics	PAL16R4					
	IDT	IDT6167			SGS-Thomson	16P8B			Signetics	PAL16R4					
	Intel	51C66			SGS-Thomson	16P8B			Signetics	PAL16R4					
		51C67			SGS-Thomson	16P8B			Signetics	PAL16R4					
	LogicDev	L7C167			SGS-Thomson	16P8B			Signetics	PAL16R4					
	MicronTech	MT5C1601			SGS-Thomson	16P8B			Signetics	PAL16R4					
	Mitsubishi	M5M21C67			SGS-Thomson	16P8B			Signetics	PAL16R4					
	Motorola	MCM2167			SGS-Thomson	16P8B			Signetics	PAL16R4					
	NEC	μPD4311			SGS-Thomson	16P8B			Signetics	PAL16R4					
	S-MOS	SRM2367			SGS-Thomson	16P8B			Signetics	PAL16R4					
	Saratoga	SSM6167			SGS-Thomson	16P8B			Signetics	PAL16R4					
	SGS-Thomson				SGS-Thomson	16P8B			Signetics	PAL16R4					
		IMS1403			SGS-Thomson	16P8B			Signetics	PAL16R4					
		MK41H66			SGS-Thomson	16P8B			Signetics	PAL16R4					
		MK41H67			SGS-Thomson	16P8B			Signetics	PAL16R4					
	Sharp	LH5167			SGS-Thomson	16P8B			Signetics	PAL16R4					
SRM2274	AMD	AM99C6404			SGS-Thomson	16P8B			Signetics	PAL16R4					
	Cypress	CY7C164			SGS-Thomson	16P8B			Signetics	PAL16R4					
	Dense-Pac	DPS8M464			SGS-Thomson	16P8B			Signetics	PAL16R4					
	EDI	EDI8416			SGS-Thomson	16P8B			Signetics	PAL16R4					
	Hitachi	HN6288			SGS-Thomson	16P8B			Signetics	PAL16R4					
	IDT	IDT6198			SGS-Thomson	16P8B			Signetics	PAL16R4					
		IDT7188L			SGS-Thomson	16P8B			Signetics	PAL16R4					
	Intel	M51C98			SGS-Thomson	16P8B			Signetics	PAL16R4					
	LogicDev	L7C164			SGS-Thomson	16P8B			Signetics	PAL16R4					
		L7C166			SGS-Thomson	16P8B			Signetics	PAL16R4					
	MicronTech	MT5C6404			SGS-Thomson	16P8B			Signetics	PAL16R4					
	Motorola	MCM6289			SGS-Thomson	16P8B			Signetics	PAL16R4					
	National	F100181			SGS-Thomson	16P8B			Signetics	PAL16R4					
		1621			SGS-Thomson	16P8B			Signetics	PAL16R4					
	Toshiba	TC55417			SGS-Thomson	16P8B			Signetics	PAL16R4					
SRM2275	VLSI Tech	CT64KS4			SGS-Thomson	16P8B			Signetics	PAL16R4					
	Cypress	CY7B166			SGS-Thomson	16P8B			Signetics	PAL16R4					
		CY7C166			SGS-Thomson	16P8B			Signetics	PAL16R4					
	Fujitsu	MB82B75			SGS-Thomson	16P8B			Signetics	PAL16R4					
	Hitachi	HM6789P			SGS-Thomson	16P8B			Signetics	PAL16R4					
	IDT	IDT6198			SGS-Thomson	16P8B			Signetics	PAL16R4					
	LogicDev	L7C164			SGS-Thomson	16P8B			Signetics	PAL16R4					
		L7C165			SGS-Thomson	16P8B			Signetics	PAL16R4					
		L7C166			SGS-Thomson	16P8B			Signetics	PAL16R4					
	Mitsubishi	M5M5189			SGS-Thomson	16P8B			Signetics	PAL16R4					
		M5M5189AP			SGS-Thomson	16P8B			Signetics	PAL16R4					
		(Continued)			SGS-Thomson	16P8B			Signetics	PAL16R4					

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Samsung Semiconductor (Cont'd)				CPL20R6-35	AMD	PAL20R6A-2		CPL22V10-25	TI	(Cont'd)		CPL22V10L-35	TI	(Cont'd)	
				CPL20R6L-25	National	TIBPAL20R6A-2									
CPL20L10-35	National	PAL12L10	(Cont'd)		Samsung	PAL20V8-25Q		CPL22V10-35	AMD			KAD0808	MicroLinear	TIBPAL22V10A	
	Samsung	PAL20L10		CPL20R8	AMD	CPL20L8L-25			ATMEL				National	ML2258	
	Signetics	PEEL173				CPL20R4L-25			Cypress				SGS-Thomson	ADC0808	
	TI	TIBPAL12L10				CPL20R8L-25								MK0808	
CPL20L8	AMD	TIBPAL20L10			Lattice	PAL20R8A							Siemens	SDA0808	
	Cypress	TIBPAL20L10A-2			National	PAL20R8B-2							TI	ADC0808	
	Fujitsu	PAL20L8			Samsung	GAL20V8A							MicroLinear	ADC0809	
	Gould AMI	PLDC20G10		CPL20R8-25	TI	CPL20R8-25							National	ADC0809	
		MB81C88				TIBPAL20R8-25							TI	ADC0809	
		PEEL20CG10	(3442)		AMD	TIBPAL20R8A							National	ADC0817	
	Hitachi	HM7688BP				PAL20R8B-2							TI	ADC0817	
	ICT	PEEL20CG10			Lattice	GAL20V8A							AD	PM0820	
	Lattice	GAL20V8A			National	PAL20R8A							Maxim	ADC0820	
	LogicDev	L7C164			Samsung	CPL20R8							MicroPwr	MP0820	
	Mitsubishi	M5M5188AP			TI	TIBPAL20R8-25							National	ADC0820	
	National	F100165		CPL20R8-35	AMD	TIBPAL20R8A							Signetics	ADC0820	
		PAL20L8				PAL20R8A-2							Mitsubishi	M51521L	
	NEC	μPD4362C		CPL20R8L-25	National	TIBPAL20R8A-2							Samsung	KA22211	
	OKI	MSM5188A			Samsung	CPL20L8L-25							Sanyo	LA3160	
	Samsung	CPL20L8-35				CPL20R4L-25							Toshiba	TA7312P	
	Sharp	LH5262				CPL20R6L-25							Harris	CA3065	
	Sony	CXK5464AP				PEEL20CG10	(3442)						Motorola	LSC1008	
	TI	TIBPAL20L8			Gould AMI	CD54AC158							Toshiba	TA7176	
		TIBPAL20L8-20				PEEL20CG10							SGS-Thomson	TDA1190Z	
	VLSI Tech	VT64KS4			Harris	GAL20V8								TDA3190	
CPL20L8-25	AMD	PAL20L8A			ICT	GAL20V8								TA7337	
		PAL20L8B-2			National	54AC158								TA7630P	
	Lattice	GAL20V8A			SGS-Thomson	GAL20V8								TA7242	
	National	PAL20L8A				GAL20V8								DS7830	
	Samsung	CPL20L8-35				AMPAL22V10								LA7830	
	Signetics	PLUS20L8				AMPAL22V10A								SN55183	
	TI	TIBPAL20L8-25				PALCE22V10								μPC1379	
		TIBPAL20L8A				PAL14L8								LA7851	
CPL20L8-35	AMD	PAL20L8A			ATMEL	AT22V10								μPC1365	
		PAL20L8B-2				AT22V10								TA7193	
	Lattice	GAL20V8A				AT22V210								AT27C64	
	National	PAL20L8A				CYPALC22V10L-35								CY7C66	
	Samsung	CPL20L8-25			Cypress	PALC22V10								MBM27C64	
	Signetics	PLUS20L8				PALC22V10-25								MBM2764	
	TI	TIBPAL20L8-25				PALC22V10-35								27HC64	
		TIBPAL20L8A				PALC22V10B								NM27C64	
CPL20L8L-25	National	PAL20V8-25Q				PALC22V10L-25								LH5762J	
	Samsung	CPL20R4L-25				PALC22V10L-35								LH5763	
		CPL20R6L-25			Gould AMI	PEEL22CV10	(3442)							LH5764J	
		CPL20R8L-25				PEEL22CV10								TMS27C49	
		PAL20R4A			ICT	GAL16V8A								TA7644BP	
		PAL20R4B-2			Lattice	GAL18V10								WS57C49B	
		GAL20V8A				GAL20V8A								WS57C64F	
		PAL20R4A				GAL22V10								TA7698	
		CPL20R4-25			National	PAL14L8								LA7625	
		CPL20R6-25			Samsung	CPL20L8-35								LA7626	
	Signetics	PLUS20R4				CPL22V10-25								LA7655N	
	TI	TIBPAL20R4-25				CPL22V10-35								μPC1373H	
		TIBPAL20R4A				CPL22V10L-25								μPC1374H	
CPL20R4-25	AMD	PAL20R4A				CPL22V10L-35								KA2183	
		PAL20R4B-2				PLS173								μPC1374H	
		GAL20V8A			Signetics	TIBPAL22V10								KA2182	
		PAL20R4A			TI	TIBPAL22V10A								KA2183	
		CPL20R4				TICPAL22V10								KA2182	
		CPL20R6-25				AMPAL22V10								KA2185	
		TIBPAL20R4-25				AMPAL22V10A								KA219	
		TIBPAL20R4A				PALCE22V10									
CPL20R4-35	AMD	PAL20R4A-2				PAL14L8									
		TIBPAL20R4A-2			ATMEL	AT22V10									
	TI	PAL20V8-25Q				AT22V210									
CPL20R4L-25	National	CPL20L8L-25				CYPALC22V10L-35									
	Samsung	CPL20R6L-25			Cypress	PALC22V10									
		CPL20R8L-25				PALC22V10-25									
		PAL20R6				PALC22V10-35									
CPL20R6	AMD	PAL20R6				PALC22V10B									
	Cypress	PLDC20G10				PALC22V10L-25									
	Gould AMI	PEEL20CG10	(3442)			PALC22V10L-35									
		PEEL20CG10			Gould AMI	PEEL22CV10	(3442)								
	ICT	GAL20V8A				PEEL22CV10									
	Lattice	F100170			ICT	GAL16V8A									
	National	PAL20R6			Lattice	GAL18V10									
		CPL20R6-35				GAL20V8A									
	Samsung	100170				GAL22V10									
	Signetics	TIBPAL20R6			National	PAL14L8									
	TI	TIBPAL20R6-20				CPL20L8-35									
CPL20R6-25	AMD	PAL20R6A			Samsung	CPL22V10									
	Lattice	GAL20V8A				CPL22V10-35									
	National	PAL20R6A				CPL22V10L-25									
	Signetics	PLUS20R6				CPL22V10L-35									
		TIBPAL20R6-25				PLS173									
	TI	TIBPAL20R6A			Signetics	TIBPAL22V10									
			(Continued)		TI		(Continued)								(Continued)

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Samsung Semiconductor (Cont'd)				KA2264	ROHM	BA1360		KA2657		(Cont'd)		KA337L	NEC	LM337	
					Toshiba	TA342P			Toshiba	TD62003		KA337M	Samsung	KA337	
KA2210	ROHM	BA532		KA2265	Sanyo	LA3410		KA2658	Mitsubishi	TD62103			Motorola	LM337M	
	Sanyo	LA4445			Toshiba	TA7413AP			Motorola	M54526			NEC	LM337M	
	Toshiba	TA7227P		KA2266	Sanyo	LA3375			Motorola	MC1416		KA340T05	Plessey	ZN503	
KA22101	Toshiba	TA7250BP			Toshiba	TA7401AP			Sanyo	LB1234		KA340T06	Motorola	LM340-06	
KA22102	Toshiba	TA8205AM		KA2271	Toshiba	TA7719P			Toshiba	TD62004		KA340T08	Motorola	LM340-08	
KA2211	ROHM	BA532		KA2272	Sanyo	LA2110				TD62104		KA340T12	Motorola	LM340-12	
	Sanyo	LA4440			Waferscale	WS5910		KA2659	Allegro	ULN2005			SiliconG	SG340-12	(3642)
	Toshiba	TA7240AP		KA2281	Toshiba	TA7666P			Micro	XR2205			Unitrode	UC340-12	
KA2212	ROHM	BA526		KA2283	Micrel	MIC54C905			Exar	ULN2005		KA340T15	GoldStar	GL7815	
	Sanyo	LA4140			National	MM54C905		KA2803	TI	LM1851			Lambda	LA51515	
	Toshiba	TA7313AP		KA2284	ROHM	BA546			Raytheon	LM1851			Samsung	MC7815	
						BA6124			Samsung	KA2807			SGS-Thomson		
KA2213	Sanyo	LA4160			Samsung	BA6137		KA2804	NEC	μPC1701C				μA7815	
	Toshiba	TA7628P			Sanyo	KA2285		KA2807	National	LM1851		KA340T18	Toshiba	LA7815	
KA22131	ROHM	BA3502F				LB1403N			Raytheon	LM1851			National	LA78015	
KA22132	Sanyo	LA4520			Toshiba	LB1423N			Samsung	KA2803			SiliconG	LM340-18	
KA22134	Toshiba	TA8119P		KA2285	ROHM	BA546		KA2911	Sanyo	LA1357			TI	LM340-18	(3642)
KA2220	ROHM	BA333				BA6124			Toshiba	TA7607		KA350	Lambda	LLM350	
	Sanyo	LA3210				BA6137		KA2912	NEC	μPC1366			National	μA78HGA	
	Toshiba	TA7137P			Samsung	KA2284			Samsung	KS0081		KA3524	Lin Int Sys	IT124	
KA2221	Mitsubishi	M5152L			Sanyo	LB1403N		KA2913A	Sharp	LSH021A		KA431	Motorola	TL431	
	ROHM	BA328				LB1423N			NEC	μPC1414			National	μA431	
	Sanyo	LA3161			Toshiba	TA7366P			Toshiba	TA7678		KA710C	TI	TL431	
	Toshiba	TA7325P		KA2286	ROHM	BA656		KA2914A	NEC	μPC1411C			Fujitsu	MB4001	
					Sanyo	LB1433N			Toshiba	TA7680			Motorola	MC710C	
KA22211	Mitsubishi	M51521L		KA2287	ROHM	BA6125		KA2916	Toshiba	TA7611			National	μA710	
	Samsung	KA1222			Sanyo	LB1413N		KA2919	Harris	AD7520		KA711C		LM710	
	Sanyo	LA3160		KA2290	Sanyo	LA1810			Maxim	MX7520			National	μA711	
	Toshiba	TA7312P		KA2292	Toshiba	TA8127			MicroPwr	MP7520		KA7226	ROHM	BA343	
KA2223	Mitsubishi	M5226P		KA2309	Toshiba	TA7657D			Motorola	MC7520			Toshiba	TA7658P	
	Sanyo	LA3600		KA2310	Toshiba	TA7330			National	AD7520		KA7500	Cherry Semi	CS494M	
	Toshiba	TA7796P		KA2410	Cherry Semi	CS8204				DAC1020			Exar	XR494	
KA22233	ROHM	BA3822L			Plessey	MV8204				DAC1021			Motorola	TL494	
KA22234	ROHM	BA3822L		KA2411	Cherry Semi	CS8205				DAC1022			TI	TL494M	
KA22235	ROHM	BA3812L			Exar	XRT8205			Sanyo	LA7520N		KA78S40	Motorola	μA78S40	
KA2224	Allegro	ULN3793		KA2412A	Ericsson	PBL3726		KA2921	Unitrode	PIC7520			National	μA78S40	
	Micro				Maxim	ICL8069			Toshiba	TA7609		KA78T06	Motorola	MC78T06	
	ROHM	BA343			MicroPwr	MP5010		KA2922	Sanyo	LA7535		KA78T08	Motorola	MC78T08	
KA22241	ROHM	BA3308			Motorola	LM285		KA2923	Harris	AD7530		KA78T12	Lambda	LA51412	
	Sanyo	LA3225T			National	LM285			Maxim	MX7530			Motorola	MC78T12	
		LA3226T			Samsung	LS285A			MicroPwr	MP7530		KA78T18	Motorola	MC78T18	
KA22242	ROHM	BA3312N			SGS-Thomson	LS285A			National	AD7530		KA78T24	Motorola	MC78T24	
KA2225	ROHM	BA3304		KA2413	SGS-Thomson	PBD3535			Sanyo	LA7530N		KA8102	NEC	μPC2313CA	
	Toshiba	TA7709F		KA2418	Motorola	PBC34012		KA2944	Unitrode	PIC7530		KA8104	NEC	μPC2315CA	
		TA7709P			SGS-Thomson	LS1240			Hitachi	HA11744		KA8301	ROHM	BA6209	
KA22261	Toshiba	TA7668BP				LS1240		KA2981	NEC	μPC1534C		KA8304	ROHM	BA6411	
KA2228	ROHM	BA3416BL		KA2425B	Ericsson	PBL3781		KA2983	ROHM	BA5102A		KA8401	ROHM	BA7751LS	
	Toshiba	TA7147P			SGS-Thomson	LS356		KA2988	Hitachi	HA11741		KA8702	Toshiba	TA8027P	
KA2230	Sanyo	LC7517							NEC	μPC1536C		KA9256	Toshiba	TA7256	
	Toshiba	TC9167P		KA2580A	Allegro	UDN2580A (3206)		KA301	AD	AD301		KA9257	ROHM	BA6290	
KA2231	Sanyo	LA2010			Micro				OP77			KDA0800	AD	ADDAC-08	
	Toshiba	TA7341P		KA2588A	Allegro	UDN2588A (3206)			Harris	CA0301A			Datel	DACIC8BC	
KA22421	Toshiba	TA7641BP			Micro				LM301				Motorola	DAC08B	
KA22427	Toshiba	TA7613AT		KA2651	Allegro	UDN6116A-2			LinearTech	LM301			National	DAC08	
KA22429	ROHM	BA4220			Micro	UDN6118				LM301A				DAC08	
	Samsung	KA2243				DI513B			Motorola	LM301A				DAC0801	
	Toshiba	TA7303P				DM8887			National	μA301				DAC0802	
KA2243	ROHM	BA4220				DS8887				μA301A			NEC	μPC624	
	Samsung	KA22429				LB1290				LM301			Raytheon	DAC08	
	Toshiba	TA7303P				SN751701				LM301A		KA0801	Samsung	KDA0802	
		TA7303P		KA2654	TI	M54524			NEC	μPC301				DAC08	
KA2244	ROHM	BA404		KA2655	Mitsubishi	MC1411			SGS-Thomson	LM301			Signetics	ADDAC-08	
KA22441	ROHM	BA4110			Motorola	μA9665				SG301		KA0801	AD	DAC1508	
	Sanyo	LA1140			National	LB1231				LM301A			Datel	DACIC8BC	
KA2245	ROHM	BA403			Sanyo	SN75476			SiliconG	LM301			Motorola	DAC08	
	Sanyo	LA1150			TI	TD62001		KA319	TI	LM301			National	DAC08	
	Toshiba	TA7130P			Toshiba	TD62101				LM301A				DAC0801	
KA22461	Sanyo	LA1135				M54525				PM219				DAC0802	
KA2247	ROHM	BA4260		KA2656	Mitsubishi	MC1412				PM319			NEC	μPC624	
	Sanyo	LA1260			Motorola	μA9666			National	LM219			Raytheon	DAC08	
KA22471	Toshiba	TA7640AP			National	MC1412				LM319			Samsung	KDA0800	
KA2248A	ROHM	BA4228L				μPA2002			Samsung	KA219				KDA0802	
	Sanyo	LA1270			NEC	LB1232			SGS-Thomson	LM219		KA0802	Signetics	ADDAC-08	
KA2249	ROHM	BA4402			Sanyo	SGS-Thomson				LM219			AD	DAC1508	
	Sanyo	LA1180				L202				LM231			Datel	DACIC8BC	
	Toshiba	TA7335P			TI	SN75477			Signetics	LM231			Motorola	DAC08B	
KA22495	Sanyo	LA1185			Toshiba	TD62002		KA331	National	LM231A			National	DAC08	
	Toshiba	TA7358AP			Mitsubishi	M52523				LM331				DAC0801	
KA22496	Toshiba	TA7358P				M54523				LM331A				DAC0802	
KA2261	ROHM	BA1330			Motorola	MC1413			TeledyneS	TP4781			Motorola	DAC08	
	Sanyo	LA3361			National	μA9667				TSC9401			National	DAC08	
	Toshiba	TA7604P				MC1413		KA336	AD	REF03 (3238)				DAC0801	
KA2262	ROHM	BA1356			Sanyo	LB1233			LinearTech	LM336			NEC	μPC624	
	Sanyo	LA3370			SGS-Thomson	ULN2003			National	LM336			Raytheon	DAC08	
KA2263	Toshiba	TA7401AP			TI	SN75478		KA337	NEC	LM337			Samsung	KDA0800	
	Adv Analog	A734				ULN2003			Samsung	KA337L				KDA0801	
	Toshiba	TA7343AP				(Continued)				(Continued)				(Continued)	

* Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Samsung Semiconductor (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
KDA0802			(Cont'd)	KMM48256	TI	TM4256FL8 TM4256GU8	(Cont'd)	KMM584000A	Fujitsu Hitachi OKI	MB85280 HB56A48B MSC2341AYS8		KM2365	Sharp Toshiba	LH2369 TC5364P	(Cont'd)
KDA0806	Signetics AD	DAC08 AD1408 DAC1408 HA17008 HA17408 MC1408 μA0801 μA0802 DAC0806 DAC0807 DAC0808 MA0802M KDA0807 KDA0808		KMM491000	MicronTech Mitsubishi OKI	MT8C9026 MH1M090J MSC2312KS9 MSC2312YS9 PEP1MX9 1MX8		KMM591000	MicronTech Mitsubishi OKI	MT8C9026 MH1M090J MSC2312KS9 MSC2312YS9 PEP1MX9 1MX8		KM28C16	UMC ATMEL	UM23C64 AT28C16 AT28HC16	
	Hitachi	HA17008			Peps	THM91000AL THM91000AS			Peps	THM91000AL THM91000AS			Catalyst Rsch	28C16	
	Motorola	MC1408			Samsung	KMM591000			Samsung	KMM491000			Catalyst Semi	CAT28C16A	
	National	μA0801 μA0802 DAC0806 DAC0807 DAC0808 MA0802M KDA0807 KDA0808		KMM49256	Dense-Pac MicronTech Mitsubishi	DPD42569 MT9259 MH25609A MH25609J MSC2304KS9 MSC2304YS9 PEP4256EL9 KMM59256 TMM4256EL9 TMM4256GU9 TM4256EL9 TM4256GU9		KMM591000A	Fujitsu Hitachi	MB85235 HB56A19 HB56A19B HB58A19 MT8C9024 MT8C9024M MH1M09 MH1M09BOJ MCM91000 NEC MC421000A9 MSC2310Y59 MSC2317AYS9 PEP1MX9 HYM910005 TM024GAD9 THM91000 THM91000A DPD42569 MT9259 MH25609A MH25609J MC41256A9 MSC2304KS9 MSC2304YS9 PEP4256EL9 KMM49256 TMM4256EL9 TMM4256GU9 TM4256EL9 TM4256GU9		KM28C17	ATMEL Catalyst Semi	CAT28C17A 28C17 AT28C256 AT28HC256 HN58C256 28CP256A 28C256B NEC μPD28C256 SEEQ 28C256 28256 STK28C256 X28C256 X28256	
KDA0807	Signetics AD	MC1408 AD1408 DAC1408 HA17008 HA17408 MC1408 μA0801 μA0802 DAC0806 DAC0807 DAC0808 MA0802M KDA0806 KDA0808 MC1408 AD1408 DAC1408 HA17008 HA17408 MC1408 μA0801 μA0802 DAC0806 DAC0807 DAC0808 MA0802M KDA0806 KDA0807 KDA0808 MC1408 LF347 LF347 LF347 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353 μPC157 29621 PLS157 LF351 LF353			Peps	KMM5361000			Siemens TI Toshiba	HYM910005 TM024GAD9 THM91000 THM91000A DPD42569 MT9259 MH25609A MH25609J MC41256A9 MSC2304KS9 MSC2304YS9 PEP4256EL9 KMM49256 TMM4256EL9 TMM4256GU9 TM4256EL9 TM4256GU9		KM28C256	ATMEL Hitachi Microchip	AT28C256 HN58C256 28CP256A 28C256B NEC μPD28C256 SEEQ 28C256 28256 STK28C256 X28C256 X28256	
	Hitachi	HA17008			Samsung	KMM536256B		KMM59256	Dense-Pac MicronTech Mitsubishi	DPD42569 MT9259 MH25609A MH25609J MC41256A9 MSC2304KS9 MSC2304YS9 PEP4256EL9 KMM49256 TMM4256EL9 TMM4256GU9 TM4256EL9 TM4256GU9			ATMEL	AT28C64 AT28HC64 AT28PC64 AT2864	
	Motorola	MC1408			TI	THM3610205C			NEC OKI	MC41256A9 MSC2304KS9 MSC2304YS9 PEP4256EL9 KMM49256 TMM4256EL9 TMM4256GU9 TM4256EL9 TM4256GU9		KM28C64	AMD	AM2864A AM9864 AT28C64 AT28HC64 AT28PC64 AT2864	
	National	μA0801 μA0802 DAC0806 DAC0807 DAC0808 MA0802M KDA0806 KDA0807 KDA0808 MC1408 LF347 LF347 LF347 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353 μPC157 29621 PLS157 LF351 LF353			Fujitsu Hitachi IBM MicronTech Mitsubishi NEC OKI Peps Toshiba	MB85336 HB56D25636B 6450603 MT8C36256M MT8C36256MN MH25636AJ MC424256A36B MCC2320AYS9 MH25636A TM256K8C36 THM362500AS			Peps Samsung TI	HYM910005 TM024GAD9 THM91000 THM91000A DPD42569 MT9259 MH25609A MH25609J MC41256A9 MSC2304KS9 MSC2304YS9 PEP4256EL9 KMM49256 TMM4256EL9 TMM4256GU9 TM4256EL9 TM4256GU9			Catalyst Semi	CAT28C64A CAT28C65A XLS2864A XL2864A MBM28C64 HM58064 HN58C64 HN58C65 HN58C66 HN58064 IDT IDT7M7864 IDT78C64A I2864A 28C64A M5M28C64 NMC98C64 μPD28C64 MSM28C64 MSM2864 KM2864A DQ2864 DQ2864H DQ52B33 28C64 2864 2864A 2865A X28C64 X28C64M X2864A	
KF347	Motorola	LF347			Fujitsu	MB85337		KMM594000	Fujitsu Hitachi MicronTech Peps Toshiba	MB85260 HB56A18AT MT8C024DMN 1MX8LP THM81020A THM81020AL			IDT	IDT7M7864 IDT78C64A I2864A 28C64A M5M28C64 NMC98C64 μPD28C64 MSM28C64 MSM2864 KM2864A DQ2864 DQ2864H DQ52B33 28C64 2864 2864A 2865A X28C64 X28C64M X2864A	
KF351	AMD	27S29 OP15 PM157 PM157A HL7649 LF351 LF157A LF351 LF353 μPC157 29621 PLS157 LF351 LF353			Hitachi	HB56D51236B 6450604 6450608 MicronTech MT8C36512M MT8C36512DM MH51236AJ NEC MC424512A36B OKI MSC2321AYS18 Peps MH51236A TI TM512KBC36 Toshiba THM36512AS THM365120AS			Hitachi OKI Hitachi	HB56A49B MSC2340AYS9 HN62321 HN62321E M5M23C100 NEC μPD23C1010A LH531000 TC531000P UMC UM23C1024 μPD23C2001 LH532100 TC53200P UMC UM23C2001 HN62304B NEC μPD23C4001E LH534300 UMC UM23C4001			Intel Microchip Mitsubishi National NEC OKI Samsung SEEQ	28C64A 28C64A M5M28C64 NMC98C64 μPD28C64 MSM28C64 MSM2864 KM2864A DQ2864 DQ2864H DQ52B33 28C64 2864 2864A 2865A X28C64 X28C64M X2864A	
	NEC	μPC157			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	Raytheon	29621			IBM	6450604 6450608 MicronTech MT8C36512M MT8C36512DM MH51236AJ NEC MC424512A36B OKI MSC2321AYS18 Peps MH51236A TI TM512KBC36 Toshiba THM36512AS THM365120AS			Hitachi OKI Hitachi	HB56A49B MSC2340AYS9 HN62321 HN62321E M5M23C100 NEC μPD23C1010A LH531000 TC531000P UMC UM23C1024 μPD23C2001 LH532100 TC53200P UMC UM23C2001 HN62304B NEC μPD23C4001E LH534300 UMC UM23C4001			Intel Microchip Mitsubishi National NEC OKI Samsung SEEQ	28C64A 28C64A M5M28C64 NMC98C64 μPD28C64 MSM28C64 MSM2864 KM2864A DQ2864 DQ2864H DQ52B33 28C64 2864 2864A 2865A X28C64 X28C64M X2864A	
	Signetics	PLS157			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF351			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C64M X2864A	(3744) (3744) (3741)
	TI	LF353			Hitachi	HB56D51236B			Hitachi	HB56A49B			Xicor	X28C64 X28C	

ALT. SOURCE DIRECTORY

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
Samsung Semiconductor (Cont'd)				KM6264A (Cont'd)				KM6816 (Cont'd)				KM75C02A (Cont'd)				
KM62256L			(Cont'd)													
	Motorola	MCM60L256A			Sony	CXK5164P			SGS-Thomson	ET2128			Plessey	MV61901		
		MCM61256				CXK5863P				MK2817			Samsung	KM75C02		
	NEC	μPD43256-L				CXK5864				MK6116			Saratoga	SSL7202		
	Toshiba	TC55257AL			Toshiba	CXK5865				LH5115			Sharp	LH5497		
KM6264	Dense-Pac	DPS88H08				CXK5865P				LH5116			TI	SN74ACT7202		
	Exar	XR8464				TC5563	(3682)			NE5517				TACT7202		
	Fujitsu	MB88464			UMC	TC5588				CXK5816		KM75C03	Vitellic	V61C02		
		MB81C78A			Vitellic	UM6264A				UM6116			AMD	AM7203		
		MB8464A				V61C62			KM68257	V61C16			Cypress	CY7C428		
	GoldStar	GM76C88L				V62C64				CAT71C256			Dallas	DS2011		
	Harris	CDM6264				V63C64				CAT71C256L			IDT	IDT7203		
	Hitachi	HM6264		KM6264AL	VLSI Tech	VT20C99				CY7C197			IDT	IDT7203LA		
		HM6464			Hitachi	HM6264L				DPS92256				IDT7203SA		
		MB6264			IDT	DPS9264				DPS92256L			MicronTech	MT52C9020		
		HY6264				IDT8M864L				GM76C256			Mosel	MS7203		
	Hyundai	DPS9264				M5M5165-L				HM61256			Samsung	KM75C102A		
	Krueger	6264-100	(3513)			MCM60L64				HM62256			Saratoga	SSL7203		
		6264-120	(3513)			NEC				HM64456			SGS-Thomson			
		6264-150	(3513)			μPD4364-L				HY62C256				MK4503		
		6264LP-100	(3513)			TC5565AL	(3682)			HY63C256		KM75C101A	Sharp	LH5498		
		6264LP-120	(3513)			HM82B005				HY63C256L		KM75C102A	MicronTech	MT52C9007		
		6264LP-150	(3513)			Hitachi				S32K8			AMD	AM7203		
						Intel				IDT7M856S			Cypress	CY7C428		
						MicronTech				IDT71256L			Dallas	DS2011		
						Mitsubishi				IDT71256S			IDT	IDT7203		
						NEC				IDT8M824				IDT7203LA		
						TI				L7C199			MicronTech	MT52C9020		
	MicroLinear	ML8464				Fujitsu				MT52C568			Mosel	MS7203		
	Mitsubishi	AM99C88				IDT				M5M5256			Samsung	KM75C03		
		M5M5178								MS62256			Saratoga	SSL7203		
	Motorola	MCM6064				LogicDev				MCM60256A			SGS-Thomson			
		MCM61164				OKI				NM44251				MK4503		
		MCM6164C				Performance				μPD43256B			Sharp	LH5498		
	National	DP8464				S-MOS				MSM51257JS		KM75C103A	MicronTech	MT52C9022		
	OKI	MSM5164				SRM21256				MSM51257LRS		KS0061	Hitachi	HD44100		
		MSM5165				Sharp				MSM51257RJ			Hughes	HO480		
		MSM5188				Fujitsu				MSM51257RS			OKI	MSM5259GS		
	S-MOS	SRM2064				Hitachi							Sharp	LH5006A		
		SRM2264				Mitsubishi							Hitachi	HD44780		
	Samsung	KM6264A				NEC							OKI	MSM6222		
	Sharp	LH5164				μPD431000A							Sharp	LH5008		
		LH5165				μPD431000							Hitachi	HD66100		
	Sony	CXK5164P				CXK581000							NEC	μPC1366		
		CXK5863P				CXK581001							Samsung	KA2912		
		CXK5864				TMS62828							Sharp	LH5021A		
		CXK5865				TC551001							Hitachi	HD44103		
		CXK5865P				CYM1421							OKI	MSM5298		
		TC5563				CYM1421HD							Sharp	LH5030		
		TC5565A	(3682)			DPS128M8								LH5031		
		TC5588				DPS128M8L								HD44102		
	UMC	UM6264A				DPS41288LP	(3376)						OKI	MSM5299		
	Vitellic	V61C62				DPS41288P	(3376)						Sharp	LH5025A		
		V62C64				EDH8M8128								LH5826		
		V63C64				EDH8M8128C								DM25C02		
		VT20C99				EDH8832								DM25C03		
	VLSI Tech	DPS88H08				ED18M8128C								DM2502		
	Dense-Pac	XR8464				ED188130C								DM2503		
	Exar	MB88464				ED188130C-100								DM2504		
	Fujitsu	MB81C78A				ED188130C-55								MSM5008		
		MB8464A				ED188130C-70								MSM5001N		
		GM76C88L				ED188130C-90								UMC	UM3219	
	Harris	CDM6264				HM8832								MSM5194		
	Hitachi	HM6264				HY63C256								MSM5006		
		HM6464				S128K8								UMC	UM3217	
		MB6264				S32K8								Sharp	SM4A	
	Hyundai	HY6264				IDT7M856S								OKI	MSM5093	
	IDT	DPS9264				IDT71024								UMC	UM3252A	
	Krueger	6264-100	(3513)			IDT8M824								OKI	MSM6002	
		6264-120	(3513)			IDT8M824L								UMC	UM3230	
		6264-150	(3513)			L7C199								OKI	MSM6004	
		6264LP-100	(3513)			M5M51008P								L53C80		
						MSM8128S								L5380		
						MS88128								TP5380		
						S128KX8	(3573)							NCR53C80		
	MicroLinear	ML8464				CXK581000P								NCR5380		
	Mitsubishi	AM99C88				CXK581001P								NMOS5380		
		M5M5178				TC551001PL								CA53C80	(3569)	
	Motorola	MCM6064				UM621024								KS5810		
		MCM61164												KS5410		
		MCM6164C				UDN6116								KS56000		
	National	DP8464				HM6116								KS5706		
	OKI	MSM5164				MSM5517								KS5788		
		MSM5165				MMC2116										
		MSM5188				MSM2128										
	S-MOS	SRM2064				MSM5126										
		SRM2264				MSM5128										
	Samsung	KM6264				MSM5129										
	Sharp	LH5164				SMC6116										
		LH5165				SRM2016C										
			(Continued)				(Continued)								(Continued)	

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Samsung Semiconductor (Cont'd)				KS82C284		(Cont'd)		KS82C84A	AMD	D8284A		KT8521	Intel	ID2911	
KS58D05	SGS-Thomson	MK50982		Newbridge	CA82C284			Harris	CP82C84A	82C84A		KT8554	National	TP3021	
KS58E05	SGS-Thomson	UM9151-3		UMC	UM82C284			Intel	82C84A	8284A			Fujitsu	MB6041	
KS5803A	NEC	μPD1913C		AMD	D82C288			Mitsubishi	M5L8284A	M5L8284AP			Harris	CA3054	
KS5804	Marconi	52981		Harris	MD82C288			NEC	μPD71084	71084			Intel	CD22354A	
	National	TP50981		Intel	82C288			Newbridge	CA82C84A	(3569)			Motorola	CA3054	
	Samsung	KS58C05		UMC	UM82C288			OKI	MSM82C84	MSM82C84A			National	TP3054	
	UMC	UM9151		Newbridge	CA82C289				UC82C84A			SGS-Thomson	ETC5054		
KS5805A	Gould AMI	S2560		AMD	AM8237A			AMD	D8288	D8288		KT8555	National	TP3155	
	National	TDA2560			D8237A			Harris	CP82C88	82C88		KT8557	Fujitsu	MB6042	
	Plessey	TDA2560			8237A			Intel	82C88	8288			Harris	CD22357A	
	SGS-Thomson	MK50992			8237			Mitsubishi	M5L82885	μPB8288D			Intel	2917	
		M2560			8237A-4			NEC	μPB8288D	μPD71088			National	μA3057	
	Sharp	LR40992			8237A-5				71088				SGS-Thomson	TP3057	
KS5805B	SGS-Thomson	MK50993		Mitsubishi	M5M82C37A			Newbridge	CA82C88	(3569)		KT8564	Sierra	SC11302	
		LR40993		NEC	μPD71037			OKI	MSM82C88	MSM82C88A			Fujitsu	MB6045	
KS5808	National	TP5089			μPD8237A			AMD	AM8237A	D8237A			Intel	2913	
	Samsung	MK5089		Newbridge	CA82C37A	(3569)			8237A	CP82C37A			Motorola	MC14400-5	
	Sharp	LR4089		OKI	MSM82C37A			Harris	82C37A	82C37A			National	TP3064	
	STC	STC5089		S-MOS	SMC82C37A			Intel	82C37A	8237A-4		KT8567	Sierra	SC11311	
	TI	TCM5089		Samsung	KS8237A			Mitsubishi	8237A-5	8237A-5			Fujitsu	MB6046	
KS5809	SGS-Thomson	MK5087		Toshiba	TMP82C37			NEC	M5M82C37A	M5M82C37AP			National	TP3067	
		LR4087		VLSI Tech	VL82C37A			Newbridge	μPD71037	μPD8237A			SGS-Thomson	ETC5067	
KS5810	Sharp	LR4087		Exar	XR16C450			OKI	MSM82C37A	MSM82C37A		LM224	Sierra	SC11312	
	LogicDev	L53C80		GoldStar	16C450			S-MOS	SMC82C37A	KS82C37A			AD	OP400	
		L5380		Harris	CP82C50A			Samsung	KS82C37A	TMP82C37			Motorola	LM224	
	National	TP5380			82C50A			Toshiba	VL82C37A	VL82C37A			National	μA224	
	NCR	NCR53C80		National	INS82C50A			VLSI Tech	WD16C450	WD82C50A			AD	OP400	
		NCR5380			NS16C450			Western	WD16C450	WD82C50A		LM224A	Motorola	LM224	
		NM05380			NS16450				82C52	CA82C52	(3569)		National	μA224	
	Newbridge	CA53C80	(3569)	Newbridge	CA82C50A	(3569)		Samsung	KS82C50	D82C54			Plessey	ZN448	
	Samsung	KS53C80		Samsung	KS82C50			NEC	KS84C22	DP84C22			Samsung	LM224	
KS5819	SGS-Thomson	MK5370		SiliconSys	SS173M450	(3647)		Newbridge	μPD71037	μPD8237A			Signetics	LM224	
		LR48081		UMC	UM8250A	(3690)		OKI	MSM82C37A	MSM82C37A			TI	LM224	
KS5820	Sharp	LR48082		VLSI Tech	VL16C450	(3702)		S-MOS	SMC82C37A	KS82C37A			AD	OP400	
	UMC	UM91210			VL82C50			Samsung	KS82C37A	TMP82C37			Motorola	LM224	
KS5822	Samsung	CPL16L8L-25			VL82C50A			Toshiba	TMP82C37	VL82C37A			National	μA224	
	SGS-Thomson	MK5375		Western	WD16C450			VLSI Tech	VL82C37A	DP84C21				LM224	
		LR4803			WD82C50A			National	DP84C21	DP84C22			Plessey	ZN448	
KS5824	Hitachi	HD6350		KS82C52	Harris	82C52		Samsung	KS84C22	DP84C21			Samsung	LM224	
		HD6850		Newbridge	CA82C52	(3569)		National	DP84C21	DP84C22			Signetics	LM224	
	Motorola	MC6850		AMD	D82C54				DP84C21	DP84C22			TI	LM224	
	SGS-Thomson	EF6850		Harris	CP82C54			Samsung	KS84C21	Z8530			AD	PM239	
				Intel	82C54			AMD	Z8530	Z8530			Harris	CA0239	
KS5901A	Toshiba	T6721			82C54			Newbridge	CA85C30	(3569)			Motorola	LM239	
KS5902	Toshiba	T6803		Mitsubishi	M5M82C54			SGS-Thomson	Z8530	Z8530			National	μA239	
KS5911	Toshiba	T6668			M5M82C54P				TD6347S	UM82C452				μA250	
KS5912	Toshiba	T6667		NEC	μPD71054				UM82C452	(3702)				LM239	
KS6022A	Sharp	LI3033		Newbridge	CA82C54	(3569)		Zilog	Z8530	Z8530			SGS-Thomson	LM239	
KS6025B	Sharp	LI3128		OKI	MSM82C54			Toshiba	TD6347S	UM82C452	(3689)			LM239	
KS6026B	Sharp	LI3140		VLSI Tech	VL82C54			UMC	VL16C452	(3702)			Signetics	LM239	
KS6027	Toshiba	T6899		AMD	D8255A			VLSI Tech	WD16C452				TI	LM239	
KS6028	Sharp	LI3135		Harris	82C55A			Western	WD16C452	ZY16C452			National	μA248	
KS6041	Toshiba	SC6992		Intel	P8255			ZyMOS	ZY16C452	TMS77211				LM248	
KS68C45	Hitachi	HD6845			82C55A			TI	TMS77211	UM82C11	(3689)			LM258	
	Motorola	MC6845			8255A			UMC	UM82C11	(3689)			Harris	CA0258	
		M6845		Mitsubishi	M5M82C55A			CMD Micro	G8912B				Motorola	LM258	
	National	F6845A			M5M82C55AP			Intel	ID2912				National	LM258A	
KS7126	Harris	ICL7126		NEC	μPD71055				2912				Samsung	LM258A	
	Maxim	ICL7126			μPD8255A			National	μA5912	TP3040			SGS-Thomson	LM258	
	TeledyneS	TSC7126			71055				TP3040	TP3040			Signetics	LM258	
KS74AHCT590	TI	SN74LS590		Newbridge	CA82C55A	(3569)		Plessey	MV8912	ETC5040			TI	LM258	
		TL5006		OKI	MSM82C55A			SGS-Thomson		TCM2912C			Harris	CA0258	
	UMC	UM74HCT590		S-MOS	SMC82C55AC					G8870			Motorola	LM258	
KS82C250	Exar	XR16C450		Toshiba	TMP82C55			TI	CMD Micro	CS8870			National	LM258A	
	GoldStar	16C450		UMC	UM82C55A	(3689)		Crystal	Fujitsu	MB87017A			Samsung	LM258	
	Harris	CP82C50A		Harris	CP82C59A			Mitel	MITel	MT8870			SGS-Thomson	LM258	
		82C50A		Intel	82C59A					MT8870-1			Signetics	LM258	
	National	INS82C50A			8259A					MV8870			TI	LM258	
		NS16C450			MT8259					SC11270			AD	PM139	
		NS16450		MicronTech	M5M82C59			Plessey	Sierra	SC11271			IDT	IDT39C01	
	Newbridge	CA82C50A	(3569)	Mitsubishi	M5M82C59AP					M8870			Motorola	LM2901	
	Samsung	KS82C50			M5M82C59AP			Teltone	Intel	2910			National	μA2901	
	SiliconSys	SS173M450	(3647)		INS8259			National		μA5116				μA3302	
	UMC	UM8250A	(3690)	NEC	μPD71059					TP5116				LM2901	
	VLSI Tech	VL16C450	(3702)		μPD8259A					5116				LM3302	
		VL82C50			71059					SGS-Thomson				LM3302	
		VL82C50A		Newbridge	CA82C59A	(3569)				M5116			Samsung	SGS-Thomson	
	Western	WD16C450		OKI	MSM82C59			KT8520	Intel	ID2910				LM2901	
		WD82C50A			MSM82C59A					2910				MC3302	
KS82C284	Harris	CD82C284		Toshiba	TMP82C59				National	μA5151			Signetics	LM2901	
	Intel	82C284		UMC	UM8259A					TP3020				MC3302	
				VLSI Tech	VL82C59A										

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Samsung Semiconductor (Cont'd)				LM324			(Cont'd)	LM358A			(Cont'd)	MC1458			(Cont'd)
LM2901	TI	LM3302		Hitachi	HA17324			Signetics	LM358			Harris	HA2102		
	Toshiba	TA75339		Motorola	LM324			NE532					HA5102		
LM2902	Motorola	LM2903		National	LM224			TI	LM348			MicroPwr	MPOP14		
	National	μA2902			LM324				LM358			National	μA1458HC		
		LM2902		Raytheon	LM324			Toshiba	TA75358				LF412		
		LM2903		SGS-Thomson	LM324			Motorola	LM393			NEC	LM1458		
		LM2903		TI	LM324			NEC	μPC393C			Raytheon	μPC251		
	Samsung	LM2903		National	LM324A			Samsung	LM393A				RC4207		
	SGS-Thomson	LM2903		SGS-Thomson				Sanyo	LA6393				RC4227		
		LM2903			LM324A			SGS-Thomson				SGS-Thomson			
	Signetics	LM2903		TI	LM324A				LM393				μA1458		
	TI	LM2903		AD	PM139			Signetics	LM393				MC1458		
LM2903	Motorola	LM2903		IDT	IDT39C01			TI	LM393				NE5512		
	National	LM2903		Motorola	LM2901			Toshiba	TA75393				SA1458		
		μA2902			MC3302			Motorola	LM393			TI	SE5512		
		LM2902		National	μA2901			NEC	μPC393C			Toshiba	LF412		
		LM2903			μA3302			Samsung	LM393				TA75458		
	Samsung	LM2902			LM2901			Sanyo	LA6393				TA75558		
	SGS-Thomson	LM2903			LM3302			SGS-Thomson				MC1488	Exar	XR1488	
		LM2903			LM2901				LM393				Motorola	MC1488	
	Signetics	LM2903		Samsung	SGS-Thomson			Signetics	LM393				National	μA1488	
	TI	LM2903			LM2901			TI	LM393					μA212A	
LM2904	Harris	CA2904			MC3302			Toshiba	TA75393					μA750	
	Motorola	LM2904		Signetics	LM2901			Exar	XRL567					DS1488	
	National	LM2904			MC3302				XR2567					MC1488	
	SGS-Thomson	LM2904		TI	LM3302				XR567				SGS-Thomson		
		LM2904			LM3302			MCE	MCE567					MC1488	
	TI	LM2904		Toshiba	TA75339			National	LM567				Signetics	MC1488	
	Toshiba	TA75358		GoldStar	GL339			Samsung	LM567C				SiliconG	SG1488	(3643)
LM293	Motorola	LM293		Harris	CA0339				LM567C				TI	MC1488	
	National	LM293			CA0339A				LM567L					SN75188	
	Signetics	LM293		Motorola	LM339			Sharp	IR3N05			MC1489	Motorola	MC1489	
	TI	LM293		National	μA339			Signetics	NE567				National	μA1489	
LM311	AD	AD311			LM339				SE567					DS1489	
		PM211		NEC	μPC137			Exar	XRL567				Signetics	MC1489	
	Harris	CA0311			μPC177				XR2567				TI	SN75189	
	LinearTech	LM311		Raytheon	LM339				XR567			MC1489A	Motorola	MC1489A	
	Motorola	LM311		Samsung	LM339A			MCE	MCE567				National	μA1489A	
	National	μA311		SGS-Thomson				National	LM567					DS1489A	
		LM311			LM339			Samsung	LM567				Signetics	MC1489A	
	SGS-Thomson	LM311		TI	LM339				LM567L				TI	SN75189A	
		LM311		Toshiba	TA75339			Sharp	IR3N05			MC3303	Motorola	MC3303	
	Signetics	LM311		GoldStar	GL339			Signetics	NE567				National	μA3303	
	SiliconG	SG311		Harris	CA0339				SE567				SGS-Thomson		
	TI	LM311			CA0339A			LM567L	Exar	XRL567				MC3303	
LM317	Toshiba	TA75393		Motorola	LM339				XR2567				Signetics	MC3303	
	Lambda	LLM317		National	μA339				XR567			MC3361	TI	MC3303	
	LinearTech	LM317			LM339			MCE	MCE567				Allegro	ULN3859	
	Motorola	LM317		NEC	μPC137			National	LM567				Micro	MC3361	
	National	μA317			μPC177			Samsung	LM567				Motorola	MC3361	
		LM317		Raytheon	LM339				LM567C				Sharp	IR3N06	
	NEC	LM317		Samsung	LM339			Sharp	IR3N05				Signetics	MC3361	
	Samsung	LM317L		SGS-Thomson				Signetics	NE567			MC3403	AD	OP400	
	SGS-Thomson	LM317			LM339				SE567				Exar	XR3403	
		LM317		TI	LM339				CA0723					XR3503	
	SiliconG	SG317	(3642)	Toshiba	TA75339			Harris	MC1723				Harris	HA5134	
	TI	LM317		AD	OP11			Motorola	μA723				Motorola	LM3403	
	Unitrode	UC317			PM248	(3247)		National	μA723M					MC33174	
	Lambda	LLM317		Exar	XR4751				LM723				National	μA324	
	LinearTech	LM317		GoldStar	GL348			NEC	LM723					μA3403	
	Motorola	LM317		Harris	LM348			SGS-Thomson					Samsung	LM323	
	National	μA317		Motorola	LM348				μA723				Signetics	LM224	
		LM317		National	μA348				LM723					LM324	
	NEC	LM317			LM348			Signetics	μA723					MC3403	
	Samsung	LM317		TI	LM348			SiliconG	SG723	(3642)				TLE2024	
	SGS-Thomson	LM317		GoldStar	GL358			TI	μA723			MC4558	TI	OP14	(3245, 3248)
		LM317		Harris	CA0358A				μA723M				AD	OP215	
		LM317			LM358			LM741	AD	AD741	(3245)			OP270	
	SiliconG	SG317	(3642)	Hitachi	HA17358				OP02				Exar	XR1458	
	TI	LM317		Motorola	LM358				OP77					XR4558	
	Unitrode	UC317		National	LM358				MPOP02				Fujitsu	MB3607	
	Motorola	LM317M			LM358			MicroPwr	MC1741				Harris	CA1458	
	National	LM317M			LM358A			Motorola	μA741M					CA1558	
	NEC	LM317M		Samsung	LA6358			National	LM741				Hitachi	HA17458	
LM323	AD	OP400		Sanyo	SGS-Thomson				RM741				Motorola	MC4558	
	Exar	XR3403			LM358			Raytheon						SE4558	
		XR3503		Signetics	LM358			SGS-Thomson	μA741				National	μA1458	
	Harris	HA5134			NE532				μA741					μA4558	
	Motorola	LM3403		TI	LM348			Signetics	SG741					LM1558	
		MC33174			LM358			SiliconG	μA741				Raytheon	RC4558	
		μA324						TI	μA741M					RM4558	
		μA3403		Toshiba	TA75358				PBL3726				SGS-Thomson		
	Samsung	MC3403		GoldStar	GL358			Ericsson	ICL8069					LS4558	
	Signetics	LM224		Harris	CA0358A			Maxim	MP5010					MC4558	
		LM324			LM358			MicroPwr	LM285				Signetics	MC1458	
		MC3403		Hitachi	HA17358			Motorola	LM285					MC1558	
	TI	TLE2024		Motorola	LM358			National	KA2412A					NE4558	
LM324	AMD	LM324		National	LM358			Samsung						SA4558	
	Fujitsu	MB3614			LM358A			SGS-Thomson	LS285A					SE4558	
	Harris	CA0224		Samsung	LM358				TC8831F				TI	MC1458	
		CA0324		Sanyo	LA6358				OP14	(3245, 3248)				MC1558	
		LM324		SGS-Thomson	LM358				OP270					MC4558C	
			(Continued)				(Continued)				(Continued)				(Continued)

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Samsung Semiconductor (Cont'd)				MC78M15	(Cont'd)			MC79L24AC	Motorola	MC79L24		NE555	Motorola	MC1455	(Cont'd)
MC4558	TI	RC4558	(Cont'd)		Sanyo	L78M15			Toshiba	TA79L24			National	μA555	
		RM4558			SGS-Thomson	L78M15		MC79M05C	Motorola	MC79M05C				LM555	
		TL4558				L78M15CV		MC79M08C	National	μA79M08			SGS-Thomson		
	Toshiba	TA75458		MC78M18		μA78M15			Samsung	MC7908				NE555	
MC78L05AC	Motorola	TA75558			TI	TA78M15			SGS-Thomson	L7908			Signetics	NE555	
	National	MC78L05			Motorola	MC78M18		MC79M12C		TA79008				SE555	
		μA78L05			National	μA78M18			GoldStar	GL7912			TI	SE555	
		LM340LA-5			Sanyo	L78M18			Motorola	MC79M12				SE555M	
		LM78L05			SGS-Thomson				National	μA79M12				TA75555	
	TI	μA78L05A		MC78M20C		L78M18				μA79M12M		NE556	Toshiba	TA7555	
		TA78L005			TI	μA78M18				LM79M12			Mitsubishi	M5E556	
MC78L08AC	Motorola	MC78L08			Motorola	MC78M20				LM79M12			National	LM556	
	National	μA78L08			National	μA78M20			Samsung	MC7912			SGS-Thomson	NE556	
		LM78L08			NEC	LM78M20			SGS-Thomson	μA7912			Signetics	NE556	
		μA78L08A			SGS-Thomson	μPC78M20				L7912			TI	NE555	
	TI	LM78L08		MC78M24		L78M20		MC79M15C	TI	μA79M12M		NE558	Signetics	NE558	
		μA78L08			TI	μA78M20			Toshiba	TA78024		74HCT240	Harris	CD74HCT240	
MC78L09AC	Motorola	LM78L08			Toshiba	TA78M20				TA79012			Hitachi	HD74HCT240	
	National	TA78L008			Motorola	MC78M24		MC79M15C	Motorola	MC79M15			Marconi	74HCT240	
		μA78L09			National	μA78M24			National	μA79M15			Motorola	MC74HCT240	
		LM78L09A			Samsung	MC78M24C		MC7902		μA7902			National	MM74HCT240	
		LM78L09			Sanyo	L78M24		MC7905	SGS-Thomson				Plessey	MV74HCT240	
	TI	μA78L09			SGS-Thomson	L78M24				L7905			SGS-Thomson	M74HCT240	
MC78L12AC	Motorola	μA78L09A				L78M24CV		MC7906	Motorola	MC7906			Signetics	74HCT240	
	National	MC78L12			TI	μA78M24			National	μA7906			TI	SN74HCT240	
		μA78L12A			Toshiba	TA78M24				LM7906			Toshiba	TC74HCT240A	(3674)
		LM340LA-12			Motorola	MC78M24			SGS-Thomson	L7906		74HCT241	Harris	CD74HCT241	
	TI	LM78L12			National	μA78M24		MC7908	TI	μA7906			Hitachi	HD74HCT241	
		TA78L012			Samsung	MC78M24			Toshiba	TA78006			Marconi	74HCT241	
MC78L15AC	Motorola	LM78L12			Sanyo	L78M24			National	μA79M08			Motorola	MC74HCT241	
	National	MC78L15			SGS-Thomson	L78M24			SGS-Thomson	MC79M08C			National	MM74HCT241	
		μA78L15				L78M24CV		MC7912		L7908			Plessey	MV74HCT241	
	TI	μA78L15A			TI	μA78M24			Toshiba	TA79008			SGS-Thomson	M74HCT241	
		LM340LA-15			Toshiba	TA78M24			GoldStar	GL7912			Signetics	74HCT241	
		LM78L15			GoldStar	GL7805			Motorola	MC79M12			TI	SN74HCT241	
	TI	μA78L15			National	LM340-5			National	μA79M12			Toshiba	TC74HCT241A	(3674)
		μA78L15A			SGS-Thomson	μA7805				μA79M12M					
MC78L18AC	Toshiba	TA78L015				L7805				μA7912					
	Motorola	MC78L18				TA78005				LM79M12		74HCT244	Harris	CD74HCT244	
	National	μA78L18				TA79005			Samsung	MC79M12C			Hitachi	HD74HCT244	
		LM78L18			MC7806	GoldStar	GL7806		SGS-Thomson				Marconi	74HCT244	
	TI	μA78L18				SGS-Thomson	μA7806			L7912			Motorola	MC74HCT244	
MC78L24AC	Toshiba	TA78L018					L7806			μA79M12M			National	MM74HCT244	
MC78L62AC	Motorola	MC78L24AC					L7806		TI	TA79012			Plessey	MV74HCT244	
MC78L82AC	National	μA78L62AC			MC7808	Toshiba	TA78006			TA78024			SGS-Thomson	M74HCT244	
MC78M05	National	μA78L82AC				GoldStar	GL7808		MC7915	GoldStar	GL7915		Signetics	74HCT244	
		LM341-5				SGS-Thomson	MC08			SGS-Thomson			TI	SN74HCT244	
		LM342-05					μA7808			μA7915			Toshiba	TC74HCT244A	(3674)
	Sanyo	L78M05					L7808			L7915					
	SGS-Thomson	L78M05					L7808			TA79015					
		L78M05CV					TA78008		MC7918	Toshiba	TA79015				
MC78M06	Motorola	MC78M06				GoldStar	GL7812			Unirode	UC320-15				
	National	μA78M06				National	LM340-12			SGS-Thomson					
		LM78M06				SGS-Thomson				L7918					
	Sanyo	L78M06					μA7812		MC7924C	Toshiba	TA79018				
	SGS-Thomson	L78M06					L7812			GoldStar	GL7924				
		LM78M06CV					TA78012			Hitachi	HD74LS195A		LA1150	ROHM	BA403
	TI	μA78M06					GL7815			Motorola	MC719924			Samsung	KA2245
MC78M08	Toshiba	TA78M06					LA51515				MC7924		LA1180	Toshiba	TA7130P
	Motorola	MC78M08					KA340T15			National	SN74LS195A			ROHM	BA4402
	National	μA78M08					μA7815				DM74LS195			Samsung	KA2249
		LM78M08					L7815				74LS195A		LA1185	Toshiba	TA7335P
	Sanyo	L78M08					TA78015				DN74LS195A			Samsung	KA2249S
	SGS-Thomson	L78M08					SGS-Thomson			Panasonic	DN74LS195A		LA1260	Toshiba	TA7358AP
		L78M08					μA7818			SGS-Thomson	L7924			ROHM	BA4260
		L78M08CV					L7818				T74LS195A		LA1270	Samsung	KA2228L
	TI	μA78M08					TA78018			TI	μA7924			ROHM	KA2248A
		TA78M08					AD7824				SN74LS195A		LA1352	Toshiba	TA7687AP
MC78M12	Toshiba	TA78M08					GL7824				TA79024		LA1357	Motorola	MC1352
	Motorola	MC78M12					AD7824				MB85287			Samsung	KA2911
	National	μA78M12					SGS-Thomson			MC7924C	Fujitsu	MB85287		Toshiba	TA7607
		LM341-12					μA7824				Hitachi	HB56A48A		Harris	CA3065
		LM342-12					L7824				OKI	MSC2341YS8		Motorola	LSC1008
		LM78M12					LM340-24				TP5089		LA1365	Samsung	KA2101
	Sanyo	L78M12					TA78024				KS5808			Toshiba	TA7176
	SGS-Thomson	L78M12					μA7885				LR4089		LA1385	Samsung	KA2130A
		L78M12CV					MC7885AC				STC	STC5089	LA1423B	Toshiba	TA7242
	TI	μA78M12					μA7885			NE555	TI	TCM5089		ROHM	BA546
MC78M15	Toshiba	TA78M12					MC7885C				XR555				BA6124
	Motorola	MC78M15					Motorola				XR555M		LA1423B	Samsung	BA6137
	National	μA78M15					MC79L05AC				GLC555		LA1423B	Sanyo	LB1403N
		LM341-15					MC79L12AC				CA0555				LB1423N
		LM342-15					Toshiba				NE555		LA1423B	Toshiba	TA7366P
		LM78M15					Motorola				M5E555		LA1810	Samsung	KA2290
							MC79L18AC				M51841				
							Toshiba				M51848				

* Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Sanyo (Cont'd)				LA6358	GoldStar Harris	GL358 CA0358A LM358		LB1233	Samsung SGS-Thomson	KA2657 ULN2003 SN75478 ULN2003 TD62003 TD62103	(Cont'd)	LC4013	National	F4013 MM74C74 MSM4013	(Cont'd)
LA2010	Samsung	KA2231			Hitachi	HA17358			TI	SN75478 ULN2003 TD62003		LC4013	OKI SGS-Thomson	HCC4013 HCF4013 HEF4013	
LA2110	Samsung	KA2272			Motorola	LM358			Toshiba	M54526 MC1416 KA2658 TD62004 TD62104		LC4013	Signetics	CD4015B	
LA3045	Waferscale	WS5910			National	LM358		LB1234	Mitsubishi	M54526		LC4015	Harris	CD4015B	
LA3045	Allegro	ULS2045			Samsung	LM358A			Motorola	MC1416			Motorola	MC14015	
LA3045	Mjcro	μA3045				LM358			Samsung	KA2658			National	CD4015	
LA3045	National	LM3045				LM358A			Toshiba	TD62004				F4015	
LA3045	SGS-Thomson	LM3045			SGS-Thomson	LM358		LB1260	Mitsubishi	M54535		LC4015	OKI	MSM4015	
LA3046	Motorola	MC3346			Signetics	LM358		LB1271	Mitsubishi	M54527			SGS-Thomson	HCC4015	
LA3046	Plessey	SL3046			TI	NE532		LB1274	Toshiba	TD62006		LC4015	Signetics	HCF4015	
LA3046	SGS-Thomson	SL3086				LM348		LB1275	Allegro	ULN2801		LC4016	Toshiba	TC4015B	
LA3046	SGS-Thomson	SL3146			Toshiba	TA75358			Micro	M54517			Harris	CD4016B	
LA3086	Allegro	ULN2086		LA6393	Motorola	LM393		LB1288	Lambda	LAS1415		LC4016	Motorola	MC14016	
LA3160	Mitsubishi	SFC2086			NEC	μPC393C			Mitsubishi	M54516			National	MC14066	
LA3160	Samsung	M51521L			Samsung	LM393		LB1290	Allegro	MC78T15		LC4016	National	CD4066	
LA3161	Toshiba	KA1222				LM393A			Micro	UDN6116A-2		LC4016	SGS-Thomson	F4016	
LA3161	Mitsubishi	KA2221		LA705	Signetics	LM393			Dionics	DI513B				F4066	
LA3161	ROHM	BA328		LA705	TI	LM393			National	DM8887		LC4016	SGS-Thomson	HCC4016	
LA3161	Samsung	KA2221		LA705	Toshiba	TA75393				DS8887				HCC4066	
LA3161	Toshiba	TA7325P		LA7507	National	μA705		LB1294	Samsung	KA2651		LC4016	Signetics	HCF4016	
LA3210	ROHM	BA333		LA7507	Sharp	KS0081		LB1403N	ROHM	BA546		LC4016	Signetics	HEF4016	
LA3210	Samsung	KA2220		LA7520N	Harris	LH5021A				BA6124		LC4016	Toshiba	TC4016B	
LA3225T	Toshiba	TA7137P			Maxim	MX7520			Samsung	KA2285		LC4016	Unitrode	PIC7516	
LA3225T	ROHM	BA3308			MicroPwr	MP7520		LB1413N	Sanyo	LB1423N		LC4019	Harris	CD4019B	
LA3225T	Samsung	KA2224T			Motorola	MC7520			Toshiba	TA7366P			National	CD4019	
LA3226T	Sanyo	LA3226T			National	AD7520			ROHM	BA6125		LC4019	OKI	F4019	
LA3226T	ROHM	BA3308				DAC1020		LB1423N	Samsung	KA2287			SGS-Thomson	MSM4019	
LA3226T	Samsung	KA2224T				DAC1021			ROHM	BA546		LC4019	Signetics	HCC4019	
LA3230	Sanyo	LA3225T				7520				BA6124		LC4019	Signetics	HCF4019	
LA3230	ROHM	BA3304		LA7530N	Samsung	KA2919		LB1433N	Samsung	KA2284		LC4019	Signetics	TC4019B	
LA3230	Samsung	KA2225			Unitrode	PIC7520			Toshiba	TA7366P		LC4027	Toshiba	CD4027B	
LA3230	Toshiba	TA7709F			Harris	AD7530		LB8555	Exar	XR555		LC4027	National	CD4027	
LA3330	ROHM	BA1360			Maxim	MX7530		LB8555	GoldStar	XR555M		LC4027	OKI	F4027	
LA3361	Samsung	KA2264		LA7535	MicroPwr	MP7530		LB8555	Harris	GLC555		LC4027	SGS-Thomson	MM74C76	
LA3361	Toshiba	TA342P		LA7550M	National	AD7530		LB8555	Mitsubishi	NE555				MSM4027	
LA3370	ROHM	BA1330			Samsung	KA2923		LB8555	Motorola	M51841		LC4027	Signetics	HCC4027	
LA3370	Samsung	KA2261			Unitrode	PIC7530		LB8555	National	M51848		LC4027	Signetics	HCF4027	
LA3370	Toshiba	TA7604P		LA7558	Samsung	KA2922		LB8555	SGS-Thomson	NE555		LC4028	Signetics	HCF4027B	
LA3370	ROHM	BA1356		LA7558	AD	AD7550		LB8555	TI	SE555		LC4028	Signetics	HEF4027	
LA3370	Samsung	KA2262			MicroPwr	MP7550		LB8555	Toshiba	TA7555		LC4028	Motorola	TC4027B	
LA3375	Toshiba	TA7401AP		LA7558	National	μA705		LB8555	Cypress	CY7C148		LC4028	National	CD4028B	
LA3410	Samsung	KA2266		LA7558	Signetics	μA758		LB8555	Harris	HA5114		LC4028	OKI	F4028	
LA3410	Toshiba	TA7413AP		LA7625	Samsung	KA2155		LB8555	Intel	HM6514		LC4028	OKI	MM74C42	
LA3600	Mitsubishi	M5226P		LA7626	Samsung	KA2156		LB8555	Mitsubishi	M58981		LC4028	SGS-Thomson	MSM4028	
LA3600	Samsung	KA2223		LA7655N	Samsung	KA2159		LB8555	OKI	MSM5114		LC4028	Signetics	HCC4028	
LA3600	Toshiba	TA7796P		LA7830	National	DS7830		LB8555	S-MOS	SRM2114C		LC4028	Signetics	HCF4028	
LA4140	ROHM	BA526			Samsung	KA2131		LB8555	Signetics	5114		LC4028	Signetics	TC4028B	
LA4140	Samsung	KA2212		LA7851	Toshiba	TD62501		LB8555	TI	SE555		LC4028	Signetics	CD4028B	
LA4140	Toshiba	TA7313AP		LB1211	Toshiba	TD62502		LB8555	SGS-Thomson	NE555		LC4028	Signetics	MM74C42	
LA4145	ROHM	BA527		LB1212	Toshiba	TD62503		LB8555	TI	SE555		LC4028	OKI	MSM4028	
LA4145	Samsung	KA2201		LB1213	Toshiba	TD62504		LB8555	Toshiba	TA7555		LC4028	Signetics	HCC4028	
LA4160	Samsung	KA2201B		LB1215	Toshiba	TD62505		LB8555	Cypress	HA5114		LC4028	Signetics	HCF4028	
LA4160	Toshiba	KA2201N		LB1216	Toshiba	TD62506		LB8555	Intel	HM6514		LC4028	Signetics	TC4028B	
LA4182	ROHM	BA534		LB1217	Toshiba	TD62507		LB8555	Mitsubishi	M58981		LC4028	Signetics	CD4049UB	
LA4182	Samsung	KA2206		LB1231	Mitsubishi	M54524		LB8555	OKI	MSM5114		LC4028	Signetics	MC14049	
LA4182	Sanyo	LA4183			Motorola	MC1411		LB8555	S-MOS	SRM2114C		LC4028	Signetics	CD4049	
LA4183	ROHM	BA534			National	μA9665		LB8555	Signetics	5114		LC4028	Signetics	MSM4049	
LA4183	Samsung	KA2206		LB1232	Mitsubishi	M54525		LB8555	Signetics	CD4001B		LC4028	Signetics	HCC4049	
LA4440	ROHM	BA532			Motorola	MC1412		LB8555	Harris	CD4001B		LC4028	Signetics	HCF4049	
LA4445	Samsung	KA2211			National	μA9666		LB8555	Motorola	MC14001		LC4028	Signetics	HEF4049	
LA4445	ROHM	BA532			NEC	μA2002		LB8555	SGS-Thomson	CD4001		LC4028	Signetics	TC4049B	
LA4520	Samsung	KA22132			Samsung	KA2656		LB8555	SGS-Thomson	HCC4001		LC4028	Signetics	CD4016B	
LA4530	ROHM	BA335			SGS-Thomson	L202		LB8555	Signetics	HCF4001		LC4028	Signetics	MC14016	
LA4560M	Samsung	KA22131			TI	SN75477		LB8555	National	TC4001B		LC4028	Signetics	MC14066	
				LB1233	Toshiba	TD62002		LB8555	OKI	MSM4011		LC4028	Signetics	CD4016	
					Mitsubishi	M52523		LB8555	Toshiba	TC4011B		LC4028	Signetics	CD4066	
					Motorola	MC1413		LB8555	Harris	CD4013B		LC4028	Signetics	F4016	
					National	μA9667		LB8555	Motorola	MC14013		LC4028	SGS-Thomson	HCC4016	
						MC1413		LB8555	National	CD4013		LC4028	SGS-Thomson	HCC4066	

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Sanyo (Cont'd)				L78M12	(Cont'd)			SSL7401	Lansdale National	ML7401 DM7401 7401	(3514)	SSM6116	IDT	IDT6116L IDT6116S	(Cont'd)
• LC4066	SGS-Thomson	(Cont'd)			Samsung	MC78M12			TI	SN7401			Intel	81C28	
• LC4066	Signetics	HCF4016 HCF4066 HEF4016 HEF4066		L78M15	TI Toshiba Motorola National	L78M12 L78M12CV μA78M12 TA78M12 MC78M15 μA78M15 LM341-15 LM342-15 LM78M15 MC78M15		SSL7403	Lansdale National	ML7403 DM7403 7403 7403	(3514)		LogicDev Maxim MicronTech Motorola	L76116 DG506A MT51C1608 MCM2018A	
• LC4066	Toshiba	TC4016B TC4066B						SSL7404	Lansdale National	ML7404 DM7404 7404	(3514)		Performance Sony Toshiba	P4C116 CXK5814P TC2018	
• LC4066	Unitrode	PIC7516			Samsung	MC78M15			Signetics	TI	SN7404		UMC	UM6116-35	(3688)
• LC4069	Harris	CD4069UB			SGS-Thomson	L78M15 L78M15CV		SSL7409	Lansdale National	ML7409 DM7409 7409	(3514)	SSM6167	VLSI Tech AMD	V16C16 VT20C19 AM2167	
• LC4069	Motorola	MC14069 CD4069 F4069 MM54C04 MM74C04 MSM4069		L78M18	TI Toshiba Motorola National Samsung	μA78M15 TA78M15 MC78M18 μA78M18 MC78M18		SSL7413	Lansdale National TI	ML7413 DM7413 SN7413	(3514)		Cypress Harris Hitachi IDT Intel	CY7C167A HM65262 HM6267 IDT6167 51C66	
• LC4069	OKI	HCC4069 HCF4069			SGS-Thomson	L78M18		SSM100474	Cypress	CY100E474L			LogicDev	51C67 L7C167	
• LC4071	Toshiba	TC4069UB		L78M24	TI	μA78M18			Fujitsu	MBM100474A			MicronTech	MT5C1601	
• LC4071	Harris	CD4071B			Toshiba	TA78M18			Hitachi	HM100474			Mitsubishi	M5M21C67	
• LC4071	Motorola	MC14071 MC14071B			Motorola	MC78M24			Motorola	MCM100474			Motorola	MCM2167	
• LC4071	National	CD4071 CD4071B F4071			National	μA78M24			NEC	F100474 μPBI00474 μPBI00474A			NEC	μPD4311 SRM2267	
• LC4071	OKI	MM74C32 MSM4071			SGS-Thomson	MC78M24C		SSM100480	NEC	MB100480 μPBI00480			S-MOS	SRM2367	
• LC4071	SGS-Thomson	HCC4071 HCC4071B HCF4071 HCF4071B		STK4332	TI Toshiba Mitel Plessey	L78M24 L78M24CV μA78M24 TA78M24 MD4332 MV4332		SSM100490-15	Fujitsu	MBM100490-15 IDT100490-15			SGS-Thomson	IMS1403 MK41H66 MK41H67	
• LC4071	Signetics	HEF4071		Saratoga Semiconductor											
• LC4081	Toshiba	TC4071B		SSL2152	TI	74ACT2152		SSM10470	Fujitsu	MBM100470A		SSM6168	Cypress	CY7C169A	
• LC4081	Harris	CD4081B		SSL2154	VLSI Tech	VT7152			Hitachi	HM10470			Fujitsu	MB81C69A	
• LC4081	Motorola	MC14081			TI	74ACT2154		SSM10474	National	DM10470			MicronTech	MT5C1604	
• LC4081	National	CD4081 F4081		SSL4180	VLSI Tech	VT7154			NEC	μPBI0470		SSM6170	Motorola	MCM6269	
• LC4081	OKI	MM74C08 MSM4081			SGS-Thomson	MK41H80			Hitachi	DM10474 F10474			Performance	P4C169	
• LC4081	SGS-Thomson	HCC4081 HCF4081		SSL4181	SGS-Thomson	MK41H81		SSM10484	NEC	μPBI0474 μPBI0474A			SGS-Thomson	MK41H69 L7C170	
• LC4081	Signetics	HEF4081		SSL7201	SGS-Thomson	MK41H81			Fujitsu	MBM10484A		SSM6171	Performance	P4C170	
• LC4520	Toshiba	TC4081B			AMD	AM67C4501			National	MB10484			VLSI Tech	VT20C78	
• LC4520	Harris	CD4520B				AM7201			NEC	F10484			Cypress	CY7C171A	
• LC4520	Motorola	MC14520			Dallas	67C4501		SSM10490-15		μPBI0484			IDT	IDT71681	
• LC4520	National	CD4520			IDT	DS2009			Hitachi	μPBI0484A			LogicDev	LC171	
• LC4520	OKI	F4520 MSM4520			IDT	IDT7201			Fujitsu	MBM10484A		SSM6172	MicronTech	MT5C1606	
• LC4520	SGS-Thomson	HCC4520			IDT	IDT7201A			IDT	MBM10490-15 IDT10490-15			Performance	P4C1681	
• LC4520	Signetics	HCF4520			IDT	IDT7201LA		SSM2148	AMD	AM2148			Cypress	CY7C172A	
• LC4520	Motorola	TC4520B			MT52C9005	IDT7201SA			Cypress	CY21149		SSM7161	IDT	IDT71682	
• LC7150	Datel	HDAS8			Samsung	KM75C01A			Hitachi	AM2148 CY2148 CY7C148			LogicDev	LC172	
• LC7150	MicroNet	MN7150	(3546)		Sharp	MK4501			Hitachi	HM6148H HM6148HL			MicronTech	MT5C1607	
• LC7150	Sipex-HSD	HS9403			TI	SN74ACT7201			Intel	2148H			Performance	P4C1682	
• LC7517	Samsung	KA2230			Vitelc	V61C01			Crueger	2148-35 2148-45 2148-70	(3513) (3513) (3513)	SSM7162	VLSI Tech	VT20C72	
• L78M05	Toshiba	TC9167P		SSL7202	AMD	AM67C4502			National	MC2148 NM2148			Cypress	CY7C161	
• L78M05	National	LM341-5 LM342-05			Dallas	DS2010			Performance	P4C149			IDT	IDT71981	
• L78M05	SGS-Thomson	MC78M05			IDT	IDT7202			SGS-Thomson	ET2148		SSM7166	LogicDev	L7C162	
• L78M06	Motorola	L78M05 MC78M06			IDT	IDT7202LA		SSM2149	AMD	AM2149			MicronTech	MT5C6407	
• L78M06	National	μA78M06 LM78M06			IDT	IDT7202SA			Cypress	CY2149		SSM7164	Performance	P4C1982	
• L78M06	SGS-Thomson	MC78M06			Mosel	MS7202A			Intel	2149H			Harris	CD22212Q	
• L78M06	SGS-Thomson	MC78M06			Plessey	MV61901			Crueger	2149HL			IDT	DP59264	
• L78M06	TI	L78M06CV			Samsung	KM75C02A				2149-35 2149-45 2149-70	(3513) (3513) (3513)		LogicDev	L7C185	
• L78M08	Toshiba	μA78M06 TA78M06			Sharp	LH5497		SSM2150	AMD	AM9150			Motorola	MCM6164	
• L78M08	Motorola	MC78M08			TI	SN74ACT7202			Cypress	CY7C150			SiliconSys	73K212-28IH	
• L78M08	National	μA78M08		SSL7203	Vitelc	V61C02			Hitachi	HM6148			Cypress	CY7B166	
• L78M08	SGS-Thomson	MC78M08			AMD	AM7203			Performance	P4C150			LogicDev	CY7C166	
• L78M08	SGS-Thomson	MC78M08			Cypress	CY7C428			UMC	UM2148			Motorola	MT5C6406	
• L78M08	SGS-Thomson	MC78M08			Dallas	DS2011			VLSI Tech	VT20C50			National	F100183	
• L78M08	TI	L78M08 L78M08CV			IDT	IDT7203		SSM6116	AD	ADG506A CY6116	(3237)		Performance	P4C1981	
• L78M12	Toshiba	μA78M08 TA78M08			IDT	IDT7203LA			Cypress	ED1			VLSI Tech	VT16H4	
• L78M12	Motorola	MC78M12			IDT	IDT7203SA			EDI	ED18802			Cypress	CY7C162	
• L78M12	National	μA78M12			MicronTech	MT52C9020			Harris	DG506A			IDT	IDT71982	
• L78M12	National	LM341-12 LM342-12 LM78M12			Mosel	MS7203				HM6516			LogicDev	L7C165	
• L78M12	National	LM341-12 LM342-12 LM78M12			Samsung	KM75C03			Hitachi	HM65162 HM6716			Motorola	MT5C6407	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	KM75C102A			IDT	HM6719 IDT6116 IDT6116A			Performance	P4C190	
• L78M12	National	LM341-12 LM342-12 LM78M12			Sharp	MK4503 LH5498							S-MOS	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12			SGS-Thomson	MK4503 LH5498							SGS-Thomson	SRM2275	
• L78M12	National	LM341-12 LM342-12 LM78M12													

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
SEEQ Technology (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
2816A	Xicor	X2816	(Cont'd)	2864A	OKI	MSM28C64	(Cont'd)	m27C1001	SGS-Thomson	M27C1001	(Cont'd)	μA7815	SGS-Thomson	L7815	(Cont'd)
2817A	ATMEL	X2816A AT28C16 AT28C17 AT28HC16			Samsung	MSM28C64 KM28C64A DQ2864 DQ2864H DQ52B33		μA1458	Waferscale AD	WS27C010L OP14 (3245, 3248) OP270		μA7818	Toshiba Samsung SGS-Thomson	TA78015 MC7818 L7818	
	Catalyst Rsch Catalyst Semi	28C17 CAT28C16A CAT28C17A XL2817A			SEEQ	28C64 2864 2865A X28C64 (3744) X28C64M (3744) X2864A (3741)			Harris	HA2102 HA5102 MPOP14 μA1458HC LF412		μA7824	Toshiba AD GoldStar Maxim Samsung SGS-Thomson	TA78018 AD7824 GL7824 AD7824 MC7824 L7824	
	EXEL	28C17A		2865A	AMD	AM2864A AM9864 AT28C64 AT28HC64 AT28PC64 AT2864			NEC	μPC251 RC4207 RC4227 MC1458		μA7912	TI Toshiba GoldStar Motorola National	LM340-24 TA78024 GL7912 MC79M12 μA79M12 μA79M12M μA7912 LM79M12 MC79M12C MC7912	
28256	Microchip National	NMC9817 NM9817 MSM2816 KM2817A DQ2817A AT28C256 AT28HC256 HN58C256 28CP256A 28C256B μPD28C256 KM28C256 28C256 STK28C256			ATMEL	CAT28C64A CAT28C65A XLS2864A XL2864A MBM28C64 HM58064 HN58C64 HN58C65 HN58C66 HN58064 IDT7M7864 IDT78C64A I2864A			Signetics	MC1458 NE5512 SA1458 SE5512 LF412 TA75458 TA75558 CA0723 MC1723 μA723 μA723M LM723 LM723 LM723		μA7915	SGS-Thomson TI Toshiba	μA79M12M TA78024 TA79012 GL7915 MC7915 L7915 TA79015 UC320-15 TA78005	
	OKI	MSM2816			EXEL	XLS2864A XL2864A MBM28C64 HM58064 HN58C64 HN58C65 HN58C66 HN58064		μA723	Harris	CA0723			SGS-Thomson	L7912	
	Samsung	KM2817A			Fujitsu	MBM28C64			Motorola	MC1723			TI	μA79M12M	
	SEEQ	DQ2817A			Hitachi	HN58064			National	μA723			Toshiba	TA78024	
	ATMEL	AT28C256			NEC	HN58C65			NEC	LM723		μA7915	GoldStar	TA79012	
	Hitachi	AT28HC256			Xicor	HN58C66 HN58064 IDT7M7864 IDT78C64A I2864A	(3745) (3745)		Samsung	LM723			Samsung	MC7915	
	Microchip	28CP256A			Intel	IDT7M7864			SGS-Thomson	LM723			SGS-Thomson	MC7915	
		28C256B			Microchip	IDT78C64A			Signetics	LM723				L7915	
	NEC	μPD28C256			Mitsubishi	28C64A			SiliconG	μA723	(3642)	μ78S05	Toshiba	TA79015	
	Samsung	KM28C256			National	28C64A		μA741	AD	μA723	(3245)	μ78S09	Unitrode	UC320-15	
	SEEQ	28C256			NEC	28C64A				OP02			Toshiba	TA78005	
	Simtek	STK28C256			OKI	μPD28C64			MicroPwr	OP77		μ78S12	SGS-Thomson	L78S09	
	Xicor	X28C256 (3745) X28256 (3745)			Samsung	MSM28C64			Motorola	MPOP02		μ78S15	SGS-Thomson	L78S12	
2864	AMD	AM2864A AM9864 AT28C64 AT28HC64 AT28PC64 AT2864			SEEQ	KM28C64 KM2864A DQ2864 DQ2864H DQ52B33 28C64 2864 2864A			National	MC1741 μA741M LM741 RM741 LM741 SG741 SG741		CA3046	Motorola Plessey	MC3346 SL3046 SL3086 SL3146	
	ATMEL	AT28C64 AT28HC64 AT28PC64 AT2864				2864A X28C64 (3744) X28C64M (3744) X2864A (3741)			Raytheon	LM741			SGS-Thomson	LM3046 SFC2046	
	Catalyst Semi	CAT28C64A CAT28C65A XLS2864A XL2864A			Intel	XL46C15		μA776	AD	OP22 OP43		EF6800	Motorola	MC6800	
	EXEL	XLS2864A XL2864A MBM28C64 HM58064 HN58C64 HN58C65 HN58C66 HN58064			ATMEL	AT28C16 AT28HC16			Harris	ICL7611 ICL8021 LM4250		EF6801	National	F6800A	
	Fujitsu	MBM28C64			Catalyst Rsch	28C16				ICL7611		EF6802	Hitachi	HD6801	
	Hitachi	HM58064 HN58C64 HN58C65 HN58C66 HN58064			Catalyst Semi	CAT28C16A IDT28C16			Maxim	MC1776			Hitachi	HD6802	
	IDT	IDT7M7864 IDT78C64A I2864A			Samsung	KM28C16			Motorola	MC3476		EF6803	Motorola	MC6803	
	Intel	28C64A			SEEQ	28C16			National	LF441		EF6804	Hitachi	HD6803	
	Microchip	M5M28C64				28C16			SGS-Thomson	TS271		EF6805	Motorola	MC6804	
	Mitsubishi	NMC98C64			48F010	CAT28F010 NSC48F010 TMS29F010			TI	TLC251 TLC271 TLO61		EF6808	Harris	CDP6805	
	National	μPD28C64			TI	NSC48F010		μA7805	GoldStar	GL7805		EF6810	Hitachi	HD6805	
	OKI	MSM28C64			National	TMS29F512			National	LM340-5			Motorola	MC6805	
	Samsung	MSM2864			Microchip	PIC7020			Samsung	MC7805		EF6821	Hitachi	HD6821	
	SEEQ	KM28C64 DQ2864 DQ2864H DQ52B33 28C64 2864A 2865A			AD	AD7576			SGS-Thomson	L7805		EF6840	Motorola	MC6821	
	Xicor	X28C64 (3744) X28C64M (3744) X2864A (3741)			Maxim	AD7576			Toshiba	TA78005			Hitachi	HD6840	
2864A	AMD	AM2864A AM9864 AT28C64 AT28HC64 AT28PC64 AT2864			Plessey	SP4632 SP4653 SDA4212 S062P		μA7806	GoldStar	GL7806		EF6846	Motorola	MC6840	
	ATMEL	AT28C64 AT28HC64 AT28PC64 AT2864			Siemens	82C501 82501 80234 COM82501			Samsung	MC7806		EF6850	Hitachi	HD6846 HD6350 HD6850	
	Catalyst Semi	CAT28C64A CAT28C65A XLS2864A XL2864A			Intel	82C501 82501 80234 COM82501			SGS-Thomson	L7806			Motorola	MC6850	
	EXEL	XL2864A MBM28C64 HM58064 HN58C64 HN58C65 HN58C66 HN58064			SEEQ	82C501 82501 8023A COM82501		μA7808	Toshiba	TA78006		EF7910	Samsung	KS5824	
	Fujitsu	MBM28C64			SMC	COM82501			GoldStar	GL7808		ESM1350	AMD	AM7910	
	Hitachi	HM58064 HN58C64 HN58C65 HN58C66 HN58064			Intel	82C501 82501 8023A COM82501			Motorola	MC08		ETC5040	Motorola	MC1350	
	IDT	IDT7M7864 IDT78C64A I2864A			SEEQ	8023A			Samsung	MC7808			CMD Micro	G8912B	
	Intel	28C64A			Intel	82005 82025		μA7812	Toshiba	L7808			Intel	ID2912	
	Microchip	M5M28C64			SGS-THOMSON				GoldStar	GL7812			National	μA5912	
	Mitsubishi	NMC98C64							National	LM340-12			Plessey	TP3040	
	National	μPD28C64							Samsung	MC7812			Samsung	MV8912	
	NEC	μPD28C64							SGS-Thomson	L7812		ETC5054	TI	TCM2912C	
			(Continued)							TA78012			Fujitsu	MB6041	
										TA78012			Harris	CA3054	
										GL7815				CD22354A	
										LA1515			Intel	2916	
										KAS340T15			Motorola	CA3054	
										MC7815			National	TP3054	
													Samsung	KT8554	

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

ALT. SOURCE DIRECTORY

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ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
SGS-THOMSON (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
HCC4011	SGS-Thomson	HCF4011		HCC40161	Panasonic	MN40161		HCC40181	National	MM74C181		HCC4023	SGS-Thomson	HCF4023	
HCC40110	Signetics	HEF4011		HCC40161B	SGS-Thomson	HCF40161B		HCC40182	SGS-Thomson	HCF40181		HCC4024	Signetics	HEF4023B	
	Cypress	CM7C264			Signetics	HEF40161			Harris	CD40182B			Toshiba	TC4023B	
	Hitachi	HY6789			Toshiba	TC40161B			Motorola	MC14582			Harris	CD4024B	
	SGS-Thomson	HCF40110		HCC40161B	Harris	CD40161B			National	F4582			Motorola	MC14024	
HCC4012	Waferscale	WS57C49B			Motorola	MC14016B			SGS-Thomson	MM74C182			National	CD4024	
	Harris	CD4012B				MC14161		HCC4019	Harris	HCF40182			F4024		
	Motorola	MC14012			National	CD40161			National	CD4019B			SGS-Thomson	HCF4024	
	National	CD4012				CD40161B				F4019			Signetics	HEF4024	
		F4012				F40161				F4019B			Toshiba	TC4024B	
	SGS-Thomson	HCF4012			Panasonic	MN40161			OKI	MSM4019		HCC4025	Harris	CD4025B	
	Signetics	HEF4012			SGS-Thomson	HCF40161			SGS-Thomson	HCF4019			Motorola	MC14025	
	Toshiba	TC4012B				HCF40161B				HEF4019			National	CD4025	
HCC4013	Harris	CD4013B			Signetics	HEF40161		HCC40192	Signetics	HEF4019			SGS-Thomson	HCF4025	
	Motorola	MC14013			Toshiba	TC40161B			Toshiba	TC4019B			Signetics	HEF4025	
	National	CD4013		HCC40162	Harris	CD40162B			Harris	CD40192B			Toshiba	TC4025B	
		F4013			Motorola	MC140162B			Motorola	MC14029		HCC4027	Harris	CD4027B	
	OKI	MM74C74			National	MC14162			National	CD40192			Motorola	MC14027	
	SGS-Thomson	MSM4013				CD40162				F40192			National	MC14027B	
		HCF4013				CD40162B			SGS-Thomson	F4029			CD4027B		
HCC4014	Signetics	HEF4013			SGS-Thomson	HCF40162B				HCF4029			F4027		
	Harris	CD4014B				HCF40162				HCF40192			MM74C76		
	Motorola	MC14014				HCF40162B			Signetics	HEF40192			MSM4027		
	National	CD4014			Signetics	HEF40162			Toshiba	TC40192B			HCC4027B		
		F4014			Toshiba	TC40162B		HCC40193	TC4029B				HCF4027B		
	SGS-Thomson	HCF4014			Harris	CD40162B			Harris	CD40193B			Signetics	HEF4027	
	Signetics	HEF4014			Motorola	MC140162B			National	CD40193			Toshiba	TC4027B	
HCC4015	Toshiba	TC4014B			National	CD40162				F40193			Harris	CD4027B	
	Harris	CD4015B				CD40162B				MM54C193			Motorola	MC14027	
	Motorola	MC14015				F40162			SGS-Thomson	MM74C193			MC14027B		
	National	CD4015			SGS-Thomson	HCF40162				HCF40193			CD4027		
		F4015				HCF40162B			Signetics	HEF40193			CD4027B		
	OKI	MM74C164				HCF40162B			Toshiba	TC40193B			F4027		
	SGS-Thomson	MSM4015			Signetics	HEF40162		HCC40194	Harris	CD40194B			MM74C76		
		HCF4015			Toshiba	TC40162B			Motorola	MC140194B			MSM4027		
	Signetics	HEF4015			Harris	CD40163B			National	MC14194			HCC4027		
HCC4016	Toshiba	TC4015B			Motorola	MC140163B			SGS-Thomson	F40194			HCF4027		
	Harris	CD4016B			National	MC14163				HCF40194			HCF4027B		
	Motorola	MC14016				CD40163B			Signetics	HEF40194			HEF4027		
	National	CD4016				F40163			Toshiba	TC40194B			TC4027B		
		F4016			SGS-Thomson	HCF40163B			Harris	CD40194B			CD4028B		
	SGS-Thomson	F4066				HEF40163			Motorola	MC140194B			MC14028		
		HCC4066			Signetics	HEF40163				CD40194B			CD4028		
		HCF4016			Toshiba	TC40163B				MC140194B			F4028		
		HCF4066			Motorola	MC14017				MC14194			MM74C42		
	Signetics	HEF4016			National	CD4017			National	F40194			MSM4028		
		HEF4066			SGS-Thomson	F4017			SGS-Thomson	HCF40194			HCF4028		
	Toshiba	TC4016B				HCF4017				HCF40194			HEF4028		
		TC4066B			Signetics	HEF4017				HCF40194B			TC4028B		
HCC40160	Unitrode	PI7516			Harris	CD40174B			Signetics	HEF40194			Harris	CD40192B	
	Harris	CD40160B			Motorola	MC140174B			Toshiba	TC40194B			Motorola	CD4029B	
	Motorola	MC14160			National	MC14174			Harris	CD4020B			Motorola	MC14029	
		MC40160B				CD40174B			Motorola	MC14020			National	CD40192	
	National	CD40160				F40174B			National	CD4020			CD4029		
		CD40160B			SGS-Thomson	HCF40174B				F4020			F40192		
		F40160				HCF40174			SGS-Thomson	HCF4020			F4029		
	SGS-Thomson	HCF40160				HCF40174B				HEF4020			SGS-Thomson	HCC40192	
		HCF40160B			Signetics	HEF40174				TC4020B				HCF40192	
	Signetics	HEF40160			Toshiba	TC40174B				CD4021B			HEF4029		
HCC40160B	Toshiba	TC40160B			Harris	CD40174B			HCC4021	Motorola	MC14021		Signetics	HEF40192	
	Harris	CD40160B			Motorola	MC140174B				National	CD4021		Toshiba	TC40192B	
	Motorola	MC14160				MC14174				F4021			TC4029B		
		MC40160B			National	CD40174B				SGS-Thomson	HCF4021			CD4030B	
	National	CD40160				F40174B				HEF4021			National	CD4030	
		CD40160B			SGS-Thomson	HCF40174				TC4021B			F4030		
		F40160				HCF40174B				CD4022B			SGS-Thomson	HCF4030	
	SGS-Thomson	HCF40160				HCF40174B				MC14022			Signetics	HEF4030	
		HCF40160B			Signetics	HEF40174				CD4022			Toshiba	TC4030B	
	Signetics	HEF40160			Toshiba	TC40174B				F4022			Harris	CD4031B	
	Toshiba	TC40160B			Harris	CD40174B			SGS-Thomson	HCF4022			National	CD4031	
	Harris	CD40160B			Motorola	MC14018				HEF4022			SGS-Thomson	HCF4031	
	Motorola	MC14016B				F4018				TC4022B				HEF4731	
		MC14161			SGS-Thomson	HCF4018				CD4023B			Signetics	CD4032B	
	National	CD40161				HEF4018				MC14023			Motorola	MC14032	
		CD40161B			Signetics	TC4018B				CD4023			SGS-Thomson	HCF4032	
		F40161			Toshiba	TC40181B				F4023				TC4032B	
					Harris	MC14581				MM74C10					
					Motorola										

* Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
SGS-THOMSON (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
HCC4033	Harris	CD4033B		HCC4049	Signetics	HEF4049		HCC4068	SGS-Thomson	HCF4068		HCC4077	SGS-Thomson	HCC4077B	
	SGS-Thomson	HCF4033		HCC4050	Toshiba	TC4049B			Signetics	HEF4068				HCF4077	
HCC4034	Harris	CD4034B			Harris	CD4050B			Toshiba	TC4068B				HCF4077B	
	Motorola	MC14034			Motorola	MC14050		HCC4069	Harris	CD4069UB			Signetics	HEF4077	
	National	CD4034			National	CD4050			Motorola	MC14069		HCC4077B	Toshiba	TC4077B	
		F4034				F4050			National	CD4069			Harris	CD4077B	
	SGS-Thomson	HCF4034				HCF4050				F4069			Motorola	MC14077	
		TC4034B			Signetics	HEF4050				MM54C04				MC14077B	
HCC4035	Toshiba	CD4035B		HCC4051	Toshiba	TC4050B			OKI	MM74C04			National	CD4077	
	Harris	CD4035B			Harris	CD4051B			SGS-Thomson	MSM4069				F4077	
	Motorola	MC14035			Motorola	MC14051				HCF4069			SGS-Thomson	HCC4077	
	National	CD4035B			National	CD4051			Signetics	HEF4069				HCF4077	
		F4035				F4051			Toshiba	TC4069UB				HCF4077B	
	SGS-Thomson	HCF4035				HCF4051		HCC4070	Harris	CD4070B			Signetics	HEF4077	
		HEF4035			Signetics	HEF4051			Motorola	MC14070			Toshiba	TC4077B	
		TC4035B			Toshiba	TC4051B			National	CD4070		HCC4078	Harris	CD4078B	
HCC4038	Toshiba	CD4038B		HCC4052	Harris	CD4052B				F4070			Motorola	MC14078	
	Harris	CD4038B			National	CD4052			SGS-Thomson	MM74C86			National	F4078	
	Motorola	MC14038				CD4052B				HCF4070			SGS-Thomson	HCF4078	
	SGS-Thomson	HCF4038				F4052				HEF4070				HEF4078	
		TC4038B			SGS-Thomson	HCF4052		HCC4071	Signetics	CD4071B			Signetics	TC4078B	
HCC4040	Toshiba	CD4040B				HCF4052			Harris	MC14071				CD4081B	
	Harris	CD4040B			Signetics	HEF4052			Motorola	MC14071B			HCC4081	Motorola	MC14081
	Motorola	MC14040				CD4053B				CD4071				CD4081	
	National	CD4040			Motorola	MC14053			National	CD4071B				F4081	
		F4040			National	CD4053				F4071				MM74C08	
	SGS-Thomson	HCF4040				F4053				MM74C32				MSM4081	
		HEF4040			SGS-Thomson	HCF4053			OKI	MSM4071			OKI	MSM4081	
	Signetics	HEF4040				HEF4053			SGS-Thomson	HCC4071B			SGS-Thomson	HCF4081	
HCC4041	Toshiba	TC4040B			Signetics	HEF4053				HCF4071				HEF4081	
	Harris	CD4041UB			Toshiba	TC4053B				HCF4071B				TC4081B	
	National	CD4041			Harris	CD4054B				HEF4071			HCC4082	Harris	CD4082B
		F4041			SGS-Thomson	HCF4054				TC4071B				Motorola	MC14082
	SGS-Thomson	HCF4041				TC4054B				CD4071B				National	CD4082
		HEF4041			HCC4055	CD4055B				MC14071				F4082	
	Signetics	HEF4041				HCF4055		HCC4071B	Signetics	MC14071B			SGS-Thomson	HCF4082	
	Harris	CD4042B				TC4055B				CD4071				HEF4082	
	Motorola	MC14042			SGS-Thomson	CD4056B			Motorola	F4071				TC4082B	
	National	CD4042				ML4056				MM74C32			HCC4085	SGS-Thomson	HCC4085B
	SGS-Thomson	HCF4042				HCC4056B				MSM4071				HCF4085	
		HEF4042				HCF4056			OKI	HCC4071				HCF4085B	
	Signetics	HEF4042				HCF4056B			SGS-Thomson	HCF4071				HEF4085	
HCC4043	Toshiba	TC4042B				TC4056B				HCF4071B				TC4085B	
	Harris	CD4043B				CD4056B				HEF4071				HCC4085	
	Motorola	MC14043				ML4056				TC4071B				HCF4085	
	National	CD4043				HCC4056				DAC08				HCF4085B	
	SGS-Thomson	HCF4043				HCF4056				MB4072				HEF4085	
		HEF4043				HCF4056B				CD4072B				TC4085B	
		TC4043B				CD4056B				MC14072				CD4086B	
HCC4044	Harris	CD4044B				CD4060B				CD4072				MC14506	
	Motorola	MC14044				MC14060				F4072				HCC4086	
	National	CD4044				CD4060				HCF4072				HCC4086B	
	SGS-Thomson	HCF4044				HCF4060				HEF4072				HCF4086	
		HEF4044				HEF4060				TC4072B				HCF4086B	
	Signetics	HEF4044				MB4063				CD4073B				HEF4086B	
HCC4045	Toshiba	TC4044B				CD4063B				MC14073				TC4086B	
	Harris	CD4521B				MC14443				CD4073				CD4086B	
	Motorola	MC14521				μA9708				F4073				MC14506	
	National	F4521				HCF4063				HCF4073				HCC4086	
	SGS-Thomson	HCF4045				TC4063B				HEF4073				HCF4086	
		HEF4521				CD4016B				TC4073B				HCF4086B	
	Signetics	HEF4521				MC14016				CD4075B				HEF4086B	
	Toshiba	TC4521B				MC14066				MC14075				TC4086B	
HCC4046	Harris	CD4046B				CD4016				CD4075				CD4089B	
	Motorola	MC14046				CD4066				F4075				CD4089	
	National	CD4046				F4016				HCF4075				HCF4089	
		F4046				F4066				HEF4075				CD4093B	
	SGS-Thomson	HCF4046				HCC4016				TC4075B				MC14093B	
		CD4047B				HCF4016				CD4076B				MC14093B	
HCC4047	Harris	CD4047				HCF4066				MC14076				CD4093B	
	National	F4047				HEF4016				CD4076				F4093B	
	SGS-Thomson	HCF4047				HEF4066				F4076				HCC4093B	
		HEF4047				TC4016B				MM54C173				HCF4093	
		TC4047B				TC4066B				MM74C173				HCF4093B	
HCC4048	National	CD4048				PIC7516				HCF4076				HEF4093	
	SGS-Thomson	HCF4048				MC14067				HEF4076				TC4093B	
		CD4049UB				F4067				TC4076B				CD4093B	
HCC4049	Harris	CD4049				HCF4067				CD4077B				MC14093	
	Motorola	MC14049				HEF4067				MC14077B				MC14093B	
	National	F4049				CD4068B				CD4077				CD4093B	
	OKI	MSM4049				MC14068				F4077				F4093B	
	SGS-Thomson	HCF4049				F4068									

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
SGS-THOMSON (Cont'd)				HCC4510 (Cont'd)				HCC4556				HCF40102			
HCC4093B	SGS-Thomson	HCC4093	(Cont'd)	HCC4511	SGS-Thomson	HCF4510		Harris	CD4556B	HCF40102B		HCF40102B	SGS-Thomson	HCC40102	
		HCF4093			Signetics	HEF4510		Motorola	MC14556	HCF40102B		HCF40102B		HCC40102B	
		HCF4093B			Toshiba	TC4510B		National	F4556	HCF40102B		HCF40102B		HCC40102B	
	Signetics	HEF4093			Harris	CD4511B		SGS-Thomson	HCF4556	HCF40102B		HCF40102B		HCC40102	
	Toshiba	TC4093B			Motorola	MC14511		Signetics	HEF4556	HCC40102B		HCF40102B		HCC40102B	
	Harris	CD4094B			National	CD4511		Toshiba	TC4556B	HCF40102		HCF40102		HCF40102	
	Motorola	MC14094			NEC	μPD4511		Harris	CD4585B	HCF40102		HCF40102		HCF40102B	
		MC14094B			SGS-Thomson	HCF4511		Motorola	MC14585	TC40102B		HCF40102B		HCC40103	
		MC14094B				HEF4511		National	F40085	HCC40103B		HCF40103B		HCC40103B	
	National	CD4094B			Signetics	HEF4511B		SGS-Thomson	HCF4585	HCF40103B		HCF40103B		HCF40103B	
	SGS-Thomson	HCC4094B			Toshiba	TC4511B		Signetics	HEF4585	HCF40103B		HCF40103B		HCF40103B	
		HCF4094			Harris	CD4512B		Toshiba	TC4585B	HCF40103B		HCF40103B		HCF40103B	
		HCF4094B			Motorola	MC14512		National	CD4724	HCF40103B		HCF40103B		HCF40103B	
		HCF4094B			National	F4512		SGS-Thomson	HCF4724	HCF40103B		HCF40103B		HCF40103B	
	Signetics	HEF4094			SGS-Thomson	HCF4512		HCF4000	Motorola	MC14000		HCF40104		HCC40103B	
	Toshiba	TC4094B				TC4512B			MC14000B	HCF40103		HCF40104		HCF40103	
	Harris	CD4094B			HCC4514	CD4514B		National	CD4000	TC40103B		HCF40104		TC40103B	
	Motorola	MC14094				MC14514		SGS-Thomson	CD4000B	HCC/HCF40104		HCF40104		HCC/HCF40104	
		MC14094B				CD4514			HCC4000	HCC40104B		HCF40104		HCC40104B	
	National	CD4094B				F4514			HCC4000B	HCF40104B		HCF40104B		HCF40104B	
	SGS-Thomson	HCC4094				HCF4514			HCF4000B	TC40104B		HCF40104B		TC40104B	
		HCF4094			Signetics	HEF4514			HEF400	HCC/HCF40104		HCF40104B		HCC/HCF40104	
		HCF4094B			Toshiba	TC4514B		Signetics	HEF400	HCC40104B		HCF40104B		HCC40104B	
		HCF4094B			Harris	CD4515B		Toshiba	TC4000B	HCF40104		HCF40104		HCF40104	
	Signetics	HEF4094			Motorola	MC14515		Motorola	MC14000	TC40104B		HCF40106		TC40104B	
	Toshiba	TC4094B			National	CD4515			MC14000B	CD40106B		HCF40106		CD40106B	
	Motorola	MC14097				F4515		National	CD4000	MIC54C14		HCF40106		MIC54C14	
	National	F4097			SGS-Thomson	HCF4515			CD4000B	MC14106		HCF40106		MC14106	
	SGS-Thomson	HCF4097				HEF4515		SGS-Thomson	HCC4000	MC14584		HCF40106		MC14584	
		MC14528			Signetics	HEF4515			HCC4000B	CD40106		HCF40106		CD40106	
	Motorola	CD4528			Toshiba	TC4515B			HCF4000	CD4584B		HCF40106		CD4584B	
	National	F4528			Harris	CD4516B		Signetics	HEF400	F400014		HCF40106		F400014	
		MM74C221			Motorola	MC14516			Toshiba	F40014		HCF40106		MM54C14	
	SGS-Thomson	HCF4098			National	CD4516			CD4001B	MM74C14		HCF40106		MM74C14	
		HEF4528				F4516		HCF4001	Motorola	MC14001		HCF40106		MC14001	
		TC4528B			SGS-Thomson	HCF4516			MC14001	CD4001		HCF40106		CD4001	
		CD4099B			Signetics	HEF4516		SGS-Thomson	HCC4001	HCC40106		HCF40106		HCC40106	
		MC14099			Toshiba	TC4516B			HEF4001	HEF40106		HCF40106		HEF40106	
		MC14099B			Harris	CD4517B		Signetics	TC4001B	TC4584B		HCF40106		TC4584B	
	National	CD4099B			Motorola	MC14517			CD4002B	HCC40107		HCF40107		HCC40107	
	SGS-Thomson	HCC4099B			SGS-Thomson	HCF4517		HCF4002	Motorola	MC14002		HCF40107		TC40107B	
		HCF4099				HEF4517			MC14002	MC14580		HCF40107		MC14580	
		HCF4099B			Signetics	CD4518B			F4002	HCC40108		HCF40108		HCC40108	
	Toshiba	TC4099B			Motorola	MC14518		SGS-Thomson	HCC4002	CD40109B		HCF40108		CD40109B	
	Harris	CD4099B			National	CD4518			HEF4002	HCC40109		HCF40108		HCC40109	
	Motorola	MC14099B				F4518		Signetics	TC4002B	MC14011		HCF40109		MC14011	
	National	CD4099B			SGS-Thomson	HCF4518			CD4006B	CD4011		HCF40109		CD4011	
	SGS-Thomson	HCC4099				HEF4518		HCF4006	Motorola	MC14006		HCF40109		MC14006	
		HCF4099			Signetics	TC4518B			CD4006	F4006		HCF40109		F4006	
		HCF4099B			Harris	CD4520B			F4006B	HCC4011		HCF40109		HCC4011	
	Toshiba	TC4099B			Motorola	MC14520		SGS-Thomson	HCC4006	HEF4011		HCF40110		HEF4011	
	Harris	CD4502B			National	CD4520			HEF4006	CY7C264		HCF40110		CY7C264	
	Motorola	MC14502			OKI	MSM4520		Signetics	TC4006B	HIM6789		HCF40110		HIM6789	
		MC14502B			SGS-Thomson	HCF4520			CD4007B	HCC40110		HCF40110		HCC40110	
	SGS-Thomson	HCC4502B				HEF4520		HCF4007	Motorola	MC14007		HCF40110		MC14007	
		HCF4502			Signetics	TC4520B			MC14007	CD4012		HCF40110		CD4012	
		HCF4502B			Toshiba	CD4527B			F4007	F4012		HCF40110		F4012	
		MK4502			Harris	MC14527		SGS-Thomson	HCC4007	HCC4012		HCF40110		HCC4012	
	Signetics	HEF4502			National	CD4527			HEF4007	HEF4012		HCF40110		HEF4012	
	Toshiba	TC4502B				F4527		Signetics	TC4007UB	TC4012B		HCF40110		TC4012B	
		CD4502B			SGS-Thomson	HCF4527			CD4008B	CD4013B		HCF40110		CD4013B	
	Harris	MC14502B				TC4527B		HCF4008	Motorola	MC14013		HCF40110		MC14013	
	Motorola	MC14502B			Signetics	CD4532B			CD4008	CD4013		HCF40110		CD4013	
	SGS-Thomson	HCC4502				MC14532			F4008	F4013		HCF40110		F4013	
		HCF4502			Motorola	F4532			MM74C83	MM74C74		HCF40110		MM74C74	
		HCF4502B			SGS-Thomson	HCF4532		SGS-Thomson	HCC4008	MSM4013		HCF40110		MSM4013	
		MK4502				HEF4532			HEF4008	HCC4013		HCF40110		HCC4013	
	Signetics	HEF4502			Signetics	TC4532B			TC4008B	HEF4013		HCF40110		HEF4013	
	Toshiba	TC4502B				CD4536B		HCF4009	Harris	CD4014B		HCF40110		CD4014B	
	Harris	CD4508B			Motorola	MC14536			MC14009	MC14014		HCF40110		MC14014	
	Motorola	MC14508			SGS-Thomson	HCF4536			CD4009	CD4014		HCF40110		CD4014	
	SGS-Thomson	HCC/HCF4508				CD4555B		SGS-Thomson	HCC4009	F4014		HCF40110		F4014	
		HCF4508			HCC4555	MC14555			TC4009UB	HCC4014		HCF40110		HCC4014	
		HEF4508				F4555		HCF4010	Harris	HEF4014		HCF40110		HEF4014	
	Toshiba	TC4508B				HCF4555			MC14010	TC4014B		HCF40110		TC4014B	
	Harris	MC14510			SGS-Thomson	HEF4555			CD4010	CD4015B		HCF40110		CD4015B	
	Motorola	MC14510				HEF4555B			HCC4010	MC14015		HCF40110		MC14015	
	National	F4510			Signetics	HEF4555B			TC4010B	CD4015		HCF40110		CD4015	
					Toshiba	TC4555B						HCF40110			

• Discontinued

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CONTACT: SOURCE DIRECTORY

◆ **Discontinued**

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
SGS-THOMSON (Cont'd)				HCF4055	Harris	CD4055B		HCF4071B	Harris	CD4071B		HCF4082	SGS-Thomson		(Cont'd)
HCF4042	National	CD4042	(Cont'd)	SGS-Thomson	HCC4055			Motorola	MC14071B					HCC4082	
	SGS-Thomson	F4042		HCF4056	Toshiba	TC4055B		National	CD4071				Signetics	HEF4082	
					Harris	CD4056B			CD4071B			HCF4085	Toshiba	TC4082B	
HCF4043					Lansdale	ML4056			F4071				SGS-Thomson	HCC4085	
					SGS-Thomson	HCC4056		OKI	MM74C32					HCC4085B	
	Signetics	HEF4042				HCC4056B		SGS-Thomson	MSM4071					HCF4085B	
	Toshiba	TC4042B				HCF4056B							Signetics	HEF4085	
	Harris	CD4043B				TC4056B			HCC4071			HCF4085B	Toshiba	TC4085B	
	Motorola	MC14043		HCF4056B		CD4056B			HCC4071B				SGS-Thomson	HCC4085	
	National	CD4043			Harris	CD4056B			HCF4071					HCC4085B	
	SGS-Thomson				Lansdale	ML4056			HEF4071			HCF4086	Signetics	HEF4085	
					SGS-Thomson	HCC4056			TC4071B				Toshiba	TC4085B	
						HCC4056B			AD				Signetics	HEF4085	
	Signetics	HEF4043				HCF4056		HCF4072	Fujitsu	MB4072			Toshiba	TC4085B	
	Toshiba	TC4043B				TC4056B			Harris	CD4072B			Harris	CD4086B	
HCF4044						CD4056B			Motorola	MC14072			Motorola	MC14506	
	Harris	CD4044B				HCF4056			National	CD4072			SGS-Thomson	HCC4086	
	Motorola	MC14044		HCF4060		TC4056B				F4072				HCC4086B	
	National	CD4044				CD4060B			SGS-Thomson	HCC4072				HCF4086B	
	F4044					MC14060				HEF4072				HEF4086B	
	SGS-Thomson					CD4060				TC4072B				TC4086B	
						HCC4060		HCF4073		CD4073B				CD4086B	
	Signetics	HEF4044				HEF4060			Harris	MC14073				MC14506	
	Toshiba	TC4044B		HCF4063		MB4063			Motorola	CD4073			SGS-Thomson	HCC4086	
	Harris	CD4521B				CD4063B			National	F4073				HCC4086B	
	Motorola	MC14521				MC14443			SGS-Thomson	HCC4073				HCF4086	
	National	F4521				μA9708				HEF4073				HEF4086B	
	SGS-Thomson					HCC4063				TC4073B				TC4086B	
						TC4063B		HCF4075		CD4075B				CD4089B	
	Signetics	HEF4521				CD4016B			Harris	MC14075				CD4089	
	Toshiba	TC4521B				MC14016			Motorola	CD4075				HCC4089	
	Harris	CD4046B				MC14066			National	F4075				CD4093B	
	Motorola	MC14046				CD4016			SGS-Thomson	HCC4075				MC14093B	
	National	F4046				CD4066				HEF4075				CD4093B	
	SGS-Thomson					F4016				TC4075B				F4093B	
						F4066				CD4076B				HCC4093	
						HCC4016		HCF4076		MC14076				HCC4093B	
	Harris	CD4047B				HCF4016				CD4076				HCF4093B	
	National	CD4047				HEF4016				F4076				HEF4093	
	F4047					HEF4066				MM54C173				TC4093B	
	SGS-Thomson					TC4016B				MM74C173				Harris	CD4093B
						TC4066B								Motorola	MC14093B
						PIC7516								National	CD4093B
						MC14067								F4093B	
						F4067								HCC4093	
						HCC4067								HCC4093B	
						HEF4067								HCF4093	
						CD4068B								HEF4093	
						MC14068								TC4093B	
						F4068								CD4094B	
						HCC4068								MC14094	
						HEF4068								MC14094B	
						TC4068B								MC14094B	
						CD4069UB								MC14094B	
						MC14069								MC14094B	
						CD4069								MC14094B	
						F4069								MC14094B	
						MM54C04								MC14094B	
						MM74C04								MC14094B	
						MSM4069								MC14094B	
						HCC4069								MC14094B	
						HEF4069								MC14094B	
						TC4069UB								MC14094B	
						CD4070B								MC14094B	
						MC14070								MC14094B	
						CD4070								MC14094B	
						F4070								MC14094B	
						MM74C86								MC14094B	
						HCC4070								MC14094B	
						HEF4070								MC14094B	
						CD4071B								MC14094B	
						MC14071								MC14094B	
						MC14071B								MC14094B	
						CD4071								MC14094B	
						CD4071B								MC14094B	
						F4071								MC14094B	
						MM74C32								MC14094B	
						MSM4071								MC14094B	
						HCC4071								MC14094B	
						HCC4071B								MC14094B	
						HCF4071B								MC14094B	
						HEF4071								MC14094B	
						TC4071B								MC14094B	
						TC4071B								MC14094B	

• Discontinued

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IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
SGS-THOMSON (Cont'd)				HCF4516 (Cont'd)				MSG171 (Cont'd)				IMS1620 (Cont'd)			
HCF4099	National	CD4099B	(Cont'd)	HCF4517	SGS-Thomson	HCC4516		MSG176	AD	ADV476		IMS1624	NEC	μPD4362	
	SGS-Thomson	HCC4099			Signetics	HEF4516			ATMEL	AT76C176			Performance	P4C188	
		HCC4099B			Toshiba	TC4516B			Avases	AV3676			Saratoga	SSM7188	
		HCF4099B			Harris	CD4517B			Brooktree	BT476			Toshiba	TC55416	
HCF4099B	Toshiba	TC4099B			Motorola	MC14517			National	DAC0631			VLSI Tech	VT6288	
	Harris	CD4099B			SGS-Thomson	HCC4517		IMS1403	AMD	DP85176			Cypress	CY7B166	
	Motorola	MC14099				HEF4517			AM2167				Fujitsu	MB82B75	
		MC14099B			Signetics	HEF4518			Cypress	CY7C167A			Hitachi	HM6789P	
	National	CD4099B		HCF4518	Harris	CD4518B			Harris	HM65262			IDT	IDT6198	
	SGS-Thomson	HCC4099			Motorola	MC14518			Hitachi	HM6267			LogicDev	L7C164	
		HCC4099B			National	CD4518			IDT	IDT6167				L7C165	
		HCF4099				F4518			Intel	51C66				L7C166	
		HCF4099B			SGS-Thomson	HCC4518				51C67			Mitsubishi	M5M5189	
HCF4502	Toshiba	TC4502B			Signetics	HEF4518			LogicDev	L7C167			M5M5189AP		
	Harris	CD4502B			Toshiba	TC4518B			MicronTech	MT5C1601			Motorola	MCM6290	
	Motorola	MC14502		HCF4520	Harris	CD4520B			Mitsubishi	M5M21C67			National	54LS152	
		MC14502B			Motorola	MC14520			Motorola	MCM2167			NEC	μPD4363	
	SGS-Thomson	HCC4502			National	CD4520			NEC	μPD4311			Performance	P4C190	
		HCC4502B				F4520			S-MOS	SRM2267			S-MOS	SRM2275	
		HCF4502B			OKI	MSM4520			Saratoga	SSM6167			Saratoga	SSM7166	
		MK4502			SGS-Thomson	HCC4520			SGS-Thomson				SGS-Thomson		
	Signetics	HEF4502			Signetics	HEF4520				MK41H66			T54LS152		
	Toshiba	TC4502B		HCF4527	Toshiba	TC4520B				MK41H67			Sony	CKX5465P	
	Harris	CD4502B			Harris	CD4527B			Sharp	LH5167			Toshiba	TC55417	
	Motorola	MC14502			Motorola	MC14527			AMD	AM2168			Vitellic	V61C62	
		MC14502B			National	F4527			Fujitsu	MB81C68A			VLSI Tech	VT65K54	
	SGS-Thomson	HCC4502			SGS-Thomson	HCC4527			Hitachi	HM6168HP			Cypress	CY7C182	
		HCC4502B			Signetics	HEF4527				HM6268L				CY7C185	
		HCF4502			Toshiba	TC4527B			IDT	IDT6168A			EDI	CY7C186	
		MK4502			Signetics	HEF4527B				IDT6168L			Fujitsu	ED18808	
	Signetics	HEF4502		HCF4532	Harris	CD4532B				IDT6168LA			Harris	MB82B79	
	Toshiba	TC4502B			Motorola	MC14532			Intel	IDT6168S				HM65642	
	Harris	CD4503B			National	F4532				51C68			IDT	DPS9264	
	Motorola	MC14503			SGS-Thomson	HCC4532			LogicDev	L7C168				IDT7164	
	National	CD4503			Signetics	HEF4532			Mitsubishi	M5M21C68P			MicronTech	MT5C6408	
		F40097B			Toshiba	TC4532B			Motorola	MCM6168			Mitsubishi	M5M5179	
		TC4503B			Harris	CD4536B			NEC	μPD4314			Mosel	MS6264	
HCF4508	Harris	CD4508B		HCF4536	Motorola	MC14536			Ricoh	PS6168			Motorola	MCM6264	
	Motorola	MC14508			SGS-Thomson	HCC4536			SGS-Thomson	MK41L68			National	MCM6265	
	SGS-Thomson	HCC/HCF4508			Signetics	HEF4536			Sony	CKX5416P/K			NEC	NMC6164	
		HCC4508			Motorola	MC14538B			Toshiba	TMM2068AP			Performance	μPD4364	
	Signetics	HEF4508		HCF4538B	Motorola	MC14538B			VLSI Tech	VT2069			Sony	P4C164	
	Toshiba	TC4508B			National	CD4538			Cypress	CY7C187			Toshiba	CKX55863	
	Harris	CD4510B			OKI	MSM4538			EDI	ED18164			UMC	TMM2088P	
	Motorola	MC14510			SGS-Thomson	GCC4538B			IDT	IDT7187			Vitellic	UM6164	
	National	CD4510			Signetics	HEF4538B				IDT7187L			VLSI Tech	V63C64P	
		F4510			Toshiba	TC4538B			LogicDev	L7C187			Cypress	VT20C98	
	SGS-Thomson	HCC4510			Motorola	MC14555			MicronTech	MT5C6401			Dense-Pac	CY7C197	
		HEF4510			National	F4555			Mosel	MS6287				DPS92256L	
		TC4510B			Signetics	HEF4555			Motorola	MCM6187			Fujitsu	MB81C81A	
		CD4511B			Toshiba	TC4555B				MCM6287				MB82B81	
		MC14511			Harris	CD4555B			National	F1600			Hitachi	HM6207	
		CD4511			Motorola	MC14555				F1602				HM6707	
		F4511			National	F4555			NEC	μPD4361			IDT	IDT71257L	
	NEC	μPD4511			SGS-Thomson	HCC4555			Performance	P4C187				IDT71257S	
	SGS-Thomson	HCC4511			Signetics	HEF4555			SGS-Thomson	IMS1601			LogicDev	L7C197	
		HEF4511			Toshiba	TC4555B				TC5561			MicronTech	MT5C2561	
		TC4511B			Harris	CD4556B			Toshiba	TC5562			Mitsubishi	M5M5257	
		CD4512B			Motorola	MC14556			Cypress	CY7C187			Motorola	MCM6207	
		MC14512			National	F4556			EDI	ED18164			NEC	μPD46251	
	National	CD4512			SGS-Thomson	HCC4556			IDT	IDT7187			Performance	P4C1257	
		F4512			Signetics	HEF4556				IDT7187L			Samsung	KM61257	
		HCC4512			Toshiba	TC4556B			LogicDev	L7C187			Sharp	LH52251	
		TC4512B			Motorola	MC14585			MicronTech	MT5C6401			Cypress	CY7C194	
		CD4514B			Harris	CD4585B				MT5C6401			EDI	ED18465C	
		MC14514			Motorola	MC14585			Mosel	MS6287			Fujitsu	MB8184	
	National	CD4514			National	F40085			Motorola	MCM6187				MB82B84	
		F4514			SGS-Thomson	MM74C85				MCM6287			Hitachi	HM6208	
	SGS-Thomson	HCC4514			Signetics	HEF4585			National	F1600			IDT	IDT71258	
		HEF4514			Toshiba	TC4585B			NEC	μPD4361			MicronTech	MT5C2564	
		TC4514B			National	CD4724			Performance	P4C187			Mitsubishi	M5M5258	
		CD4515B			SGS-Thomson	HCC4724			SGS-Thomson	IMS1600			Motorola	MCM6208	
		MC14515			Signetics	HEF4585				TC5561			NEC	μPD43254	
		CD4515			Toshiba	TC4585B				TC5562			Sony	CKX54256	
	SGS-Thomson	HCC4515			ATMEL	AT76C171				CY7B164			TI	TMS6708	
		HEF4515				AT76C176			Fujitsu	MB81C74			Toshiba	TC55464	
		TC4515B			Avases	AV3676				MB82B74			VLSI Tech	VT6208	
		MC14516			Brooktree	BT476			Hitachi	HM6288			Cypress	CY7C198	
		MC14516			EdsunLabs	EL171CE6				HM6788				CY7C199	
		MC14516			National	DAC0630			IDT	DPS9264			Dense-Pac	DPS92256	
		MC14516				DAC0631				IDT7188				DPS92256L	
		MC14516				DP85176			Mitsubishi	M5M5188			EDI	ED18833C	
		MC14516				DP85176			Motorola	MCM6188			Fujitsu	MB8298	
		MC14516				DP85176				MCM6288			Hitachi	HM62832	
		MC14516				DP85176							IDT	IDT71256	
		MC14516				DP85176							Lattice	SR256K8	
		MC14516				DP85176							Motorola	MCM6206	
		MC14516				DP85176									

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
SGS-THOMSON (Cont'd)				LM139A	AD	PM139A		LM2901		(Cont'd)		LM311		(Cont'd)	
IMS1830	NEC	μPD43256A	(Cont'd)		Harris	CA0139A			TI	LM3302			TI	LM311	
	SGS-Thomson	MK48230			Motorola	LM139A			Toshiba	TA75339			Toshiba	TA75393	
	Sony	CKX58255				LM3302		LM2902	AD	OP400		LM317	Lambda	LM317	
	Toshiba	TC55328			National	LM139A			GoldStar	GL324			LinearTech	LM317	
	VLSI Tech	VT62832			Raytheon	LM139A			Hitachi	HA17902			Motorola	LM317	
IMS2800	SGS-Thomson			LM148	Signetics	LM339			Motorola	LM2902			National	μA317	
		IMS2801			AD	OP11				MC33174				LM317	
		TC541000				OP400			National	μA324			NEC	LM317	
		IMS2800				OP470			NEC	μPC451			Samsung	LM317	
IMS2801	Toshiba	TC541000				PM148			Signetics	LM324				LM317L	
	SGS-Thomson				Exar	PM248	(3247)		TI	LM2902			SiliconG	SG317	(3642)
		LM2800			Harris	XR4741			Toshiba	TA75902			TI	LM317	
		TC541000			LinearTech	HA4741		LM2903	Motorola	LM2903		LM318	Unitrode	UC317	
LF155	AD	AD381			MicroPwr	MPOP11			National	μA2902			AD	AD518	
		AD544			Motorola	LM148				LM2902			Elahtec	EL2041	
		OP15				LM248				LM2903			LinearTech	LM318	
		OP43				MC33174			Samsung	LM2902			National	LT1023	
		PM155				MC4741				LM2903			LM118	LM318	
	Burr-Brown	OPA606			National	μA148			Signetics	LM2903			Signetics	NE530	
	LinearTech	LF155				LM148			TI	LM2903				NE538	
		LT1022			Raytheon	LM148		LM2904	Harris	CA2904				SE530	
		LT1055				RC4741			Motorola	LM2904				SE531	
		LT1056				LM148			National	LM2904				LM318	
		OP15		LM201	TI	LM201			Samsung	LM2904		LM319	AD	PM219	
		LF155			National	μA201			TI	LM2904			Signetics	LM319	
		LF353			SiliconG	SG201			Toshiba	TA75358		LM323	LinearTech	LM323	
		LF411			TI	LM201			National	LM2930				LT323	
		LM110		LM211	AD	AD211			National	LM2930A				LM323	
		LM210				PM211			National	LM2931				μA323	
		LM310			Motorola	LM211			National	LM2931A				LM323	
		LF353			National	LM211			Cherry Semi	CS935				SG323	
		LF411			Signetics	LM211			National	LM2935		LM324	SiliconG	LM324	
LF156	AD	AD544			SiliconG	SG211	(3643)			AD301			AMD	MB3614	
		OP16			TI	LM211		LM301	AD	OP77			Fujitsu	CA0224	
		OP43			Motorola	LM217				CA0301A			Harris	CA0324	
		PM156			National	LM217			Harris	LM301				LM324	
		PM156A			SiliconG	SG217	(3642)		LinearTech	LM301			Hitachi	HA17324	
	Burr-Brown	OPA156A	(3329, 3331)			SG217A	(3642)			LM301A			Motorola	LM324	
					Unitrode	UC217			Motorola	LM301			National	LM224	
					VTC	VM217	(3714)		National	μA301				LM324	
	Harris	HA5170		LM218	National	LM218				LM301A			Raytheon	LM324	
		HA5180			TI	LM218				LM301			Samsung	LM324	
	LinearTech	LF156		LM219	AD	PM219				LM301A			TI	LM324	
		LF156A				PM319			NEC	μPC301		LM324A	National	LM324A	
		LF156A			National	LM219			Samsung	KA301			Samsung	LM324A	
		OPA101				LM319			SGS-Thomson	LM301A		LM337	LinearTech	LM337	
LF351	AD	OP16			Samsung	KA219				LM301A				LM337	
	SGS-Thomson					KA319			SiliconG	SG301			Motorola	LM337	
		TL081			Signetics	LM219			TI	μA301			National	LM337	
LF353	Exar	XR082		LM223	Motorola	LM223				LM301				SG337	(3642)
	Fujitsu	MB40547-7			National	μA223				LM301A				SG337A	(3642)
		MB47082				LM223		LM301A	AD	AD301			TI	LM337	
	SGS-Thomson					SG223				OP77				LM337	
		TL082		LM239	SiliconG	PM239			Harris	CA0301A			Unitrode	UC337	
		HA17082			AD	PM239				LM301		LM339	GoldStar	GL339	
	TI	TL082			Harris	CA0239			LinearTech	LM301			Harris	CA0339	
LF355	AD	OP15			Motorola	LM239				LM301A				CA0339A	
		OP43			National	μA239				LM301			Motorola	LM339	
		OP43				μA250			Motorola	LM301			National	μA339	
	LinearTech	LF355				LM239			National	μA301				LM339	
	Motorola	LF355			Samsung	LM239				LM301A			NEC	μPC137	
	National	LF355			Signetics	LM239				LM301				μPC177	
LF356	AD	OP16			TI	LM239				LM301A			Raytheon	LM339	
	LinearTech	LF356		LM246	Exar	XR246			NEC	μPC301			Samsung	LM339	
	Motorola	LF356			National	LM246			Samsung	KA301				LM339A	
	National	LF356			AD	PM248	(3247)		SGS-Thomson	LM301			TI	LM339	
LM101	AD	AD101		LM255	AD	PM155				LM301				LM339	
	SGS-Thomson					PM255			SiliconG	SG301		LM346	Toshiba	TA75339	
		LS101			MicroPwr	MP255			TI	μA301			National	LM346	
LM108A	AD	AD108A		LM256	National	LF255				LM301		LM358	GoldStar	GL358	
		PM108A				LF256				LM301A			Harris	CA0358A	
	Harris	LM108A				CA0258		LM3045	Allegro	ULS2045				LM358	
	LinearTech	LM108A			Motorola	LM258			Micro	μA3045			Hitachi	HA17358	
	Motorola	LM108A			National	LM258A			National	LM3045			Motorola	LM358	
	National	μA108A			Samsung	LM258				MC3346			National	LM358	
		LM108A				LM258A		LM3046	Motorola	SL3046				LM358A	
	Raytheon	LM108A			Signetics	LM258			Plessey	SL3086			Samsung	LM358A	
	TI	LM108A			TI	LM258				SL3146				LA6358	
LM111	AD	AD111		LM2901	AD	PM139			SGS-Thomson	CA3046			Sanyo	LM358	
		PM111			IDT	IDT39C01				SFC2046			Signetics	NE532	
		LM111			Motorola	LM2901				AD311				LM348	
	Raytheon	LM111				MC3302				PM211			TI	LM358	
	Signetics	LLM117			National	μA2901		LM311	AD	CA0311				TA75358	
LM117	Lambda	KA78T05				μA3302				LM311		LM393	Toshiba	LM393	
LM123	Samsung	OP400				LM2901			Harris	LM311			Motorola	μPC393C	
LM124	AD	CA0124				LM3302			LinearTech	LM311			NEC	LM393	
		LT1014			Samsung	LM2901			Motorola	μA311			Samsung	LM393A	
		μA124				LM3302			National	LM311				LA6393	
	LinearTech	LM124A			SGS-Thomson	MC3302				LM311			Sanyo	LM393	
	National	LM124				LM2901			Samsung	LM311			Signetics	LM393	
	Signetics	SG124			Signetics	LM2901			Signetics	LM311			TI	LM393	
	SiliconG					MC3302			SiliconG	SG311			Toshiba	TA75393	
			(Continued)				(Continued)				(Continued)				(Continued)

* Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
SGS-THOMSON (Cont'd)				L165	Allegro Micro	ULN3751		L78M06CV	TI	μA78M06	(Cont'd)	L78M24	TI	μA78M24	(Cont'd)
LM723	Harris	CA0723		• L201	Cherry Semi	CS365	(3642)	L78M08	Toshiba	TA78M06		L78M24CV	Toshiba	TA78M24	
	Motorola	MC1723			SiliconG	SG1173			Motorola	MC78M08			Motorola	MC78M24	
	National	μA723			Mitsubishi	M54524			National	μA78M08			National	μA78M24	
		μA723M			Motorola	MC1411				LM78M08			Samsung	MC78M24	
	NEC	LM723			National	μA9665			Samsung	MC78M08				MC78M24C	
	Samsung	LM723			Sanyo	KA2655			Sanyo	L78M08			Sanyo	L78M24	
	SGS-Thomson	LM723			TI	SN75476			SGS-Thomson	L78M08CV			SGS-Thomson	L78M24	
		μA723			Toshiba	TD62001			TI	μA78M08			TI	L78M24	
	Signetics	μA723				TD62101			Toshiba	TA78M08			Toshiba	TA78M24	
	SiliconG	SG723	(3642)	L202	Mitsubishi	M54525		L78M08CV	Motorola	MC78M08		L78S09	SGS-Thomson	μ78S09	
	TI	μA723			Motorola	MC1412			National	LM78M08					
		μA723M			National	μA9666				LM78M08		L78S12	SGS-Thomson	μ78S12	
LM748	AD	OP06				MC1412			Samsung	MC78M08					
		OP77			NEC	μPA2002			Sanyo	L78M08		L7805	GoldStar	GL7805	
		PM1008			Samsung	KA2656			SGS-Thomson	L78M08			National	LM340-5	
	Harris	CA0748			Sanyo	LB1232			TI	μA78M08			Samsung	MC7805	
	Motorola	MC1748			TI	SN75477			Toshiba	TA78M08			SGS-Thomson		
	National	LM748		• L203	Toshiba	TD62002		L78M09	National	μA78M09				μA7805	
	SGS-Thomson	SN72748P			Mitsubishi	M52523				LM78M09			Toshiba	TA78005	
		LS148				M54523			TI	μA78M09				TA79005	
	TI	μA748		• L203	Motorola	MC1413			TI	μA78M09		L7806	GoldStar	GL7806	
		LM748			National	μA9667			Toshiba	TA78M09			Samsung	MC7806	
• LM7809	GoldStar	GL7809		• L203	Samsung	KA2657		L78M10	National	μA78M10			SGS-Thomson		
	Hitachi	HA17809			Sanyo	LB1233				LM78M10				μA7806	
	Motorola	MC7809			SGS-Thomson				TI	μA78M10		L7808	Toshiba	TA78006	
	National	μA7809				ULN2003			Toshiba	TA78M10			GoldStar	GL7808	
		LM7809			TI	SN75478			Motorola	MC78M12			Motorola	MC08	
• LM7809	TI	μA7809		• L203	Toshiba	ULN2003		L78M12	National	μA78M12			Samsung	MC7808	
	Toshiba	TA78009				TD62003				LM341-12			SGS-Thomson		
	AD	AD101		• L204	Mitsubishi	TD62103				LM342-12				μA7808	
	SGS-Thomson				Motorola	M54526			Samsung	LM78M12		L7810	Toshiba	TA78008	
		LM101			Samsung	MC1416			Sanyo	MC78M12			National	μA7810	
LS1240	Motorola	MC34012			Sanyo	LB1234			SGS-Thomson	L78M12CV			TI	μA7810	
	Samsung	KA2418			Toshiba	TD62004			TI	μA78M12		L7812	Toshiba	TA78010	
LS148	AD	OP06				TD62104			Toshiba	TA78M12			National	GL7812	
		OP77				L293D			Motorola	MC78M12			Samsung	LM340-12	
		PM1008			TI	CS293D		L78M12CV	National	μA78M12			SGS-Thomson	MC7812	
	Harris	CA0748			Unitrode	L295				LM341-12				μA7812	
	Motorola	MC1748			Unitrode	L296				LM342-12			Toshiba	TA78012	
	National	LM748			Cherry Semi	CS298				LM78M12		L7815	GoldStar	GL7815	
	SGS-Thomson	LM748			Lansdale	ML5445			Samsung	MC78M12			Lambda	LAS1515	
		μA748			National	DM5445			Sanyo	LM78M12			Samsung	KA340T15	
	TI	LM748			Siemens	S042			SGS-Thomson	L78M12				MC7815	
		SN72748P			Signetics	NE602				L78M12			SGS-Thomson		
LS204	National	LM204				SA602			TI	μA78M12				μA7815	
LS285A	SiliconG	SG204	(3642)	L604	TI	SN5445			Toshiba	TA78M12		L7818	Toshiba	TA78015	
	Ericsson	PBL3726			AD	AD7628			Motorola	MC78M15			Samsung	MC7818	
	Maxim	ICL8069			Dionics	DI604A			National	μA78M15			SGS-Thomson		
	MicroPwr	MP5010			Maxim	AD7628				LM341-15				μA7818	
	Motorola	LM285			MicroPwr	MP7628				LM342-15			Toshiba	TA78018	
	National	LM285			Motorola	MC12020				LM78M15		L7820	National	DS7820	
	Samsung	KA2412A			Siemens	S041P			Samsung	MC78M15		L7824	AD	AD7824	
		LS285A		L702B	SGS-Thomson	L702N			Sanyo	L78M15			GoldStar	GL7824	
LS3240	Motorola	MC34017				L702SP			SGS-Thomson	L78M15CV			Maxim	AD7824	
LS356	Ericsson	PBL3781		L702N	SGS-Thomson	L702B			TI	μA78M15			Samsung	MC7824	
	Samsung	KA2425B				L702SP			Toshiba	TA78M15			SGS-Thomson		
LS4558	AD	OP14 (3245, 3248)		L702SP	SGS-Thomson	L702B		L78M15CV	Motorola	MC78M15			TI	μA7824	
		OP215				L702N			National	μA78M15			Toshiba	TA78024	
		OP270				L702N				LM341-15		L78515	SGS-Thomson	μ78515	
	Exar	XR1458				LM341-5				LM342-15					
		XR4558				LM342-05				LM78M15			Samsung	MC7905	
	Fujitsu	MB3607		L78M05	National	MC78M05			Samsung	MC78M15			Motorola	MC7906	
	Harris	CA1458			Samsung	LM78M05			Sanyo	L78M15			National	μA7906	
		CA1558			Sanyo	LM78M05			SGS-Thomson	L78M15				LM7906	
	Hitachi	HA17458			SGS-Thomson	L78M05CV				L78M15			Samsung	MC7906	
	Motorola	MC4558				LM341-5			TI	μA78M15			TI	μA7906	
		SE4558		L78M05CV	National	LM342-05			Toshiba	TA78M15			Toshiba	TA78006	
	National	μA1458				LM342-05			Motorola	MC78M18			National	μA79M08	
		μA4558			Samsung	MC78M05			National	μA78M18		L7908	Samsung	MC79M08C	
		LM1558			Sanyo	L78M05			Samsung	MC78M18				MC7908	
	Raytheon	RC4558			SGS-Thomson	L78M05			Sanyo	L78M18			Toshiba	TA79008	
		RM4558				MC78M06			TI	μA78M18			GoldStar	GL7909	
	Samsung	MC4558		L78M06	Motorola	MC78M06			Toshiba	TA78M18		L7909	National	μA7909	
	SGS-Thomson				National	μA78M06			Motorola	MC78M20				LM7909	
		MC4558				LM78M06			National	μA78M20			NEC	μPC7909	
	Signetics	MC1458			Samsung	MC78M06		L78M20		LM78M20			TI	μA7909	
		MC1558			Sanyo	L78M06			NEC	μPC78M20			Toshiba	TA79009	
		NE4558			SGS-Thomson	L78M06CV			Samsung	MC78M20C			Intel	P51C259H	
		SA4558				μA78M06			TI	μA78M20		L7910	GoldStar	GL7912	
		SE4558			TI	TA78M06			Toshiba	TA78M20		L7912	Motorola	MC79M12	
	TI	MC1458		L78M06CV	Motorola	MC78M06			Motorola	MC78M24			National	μA79M12	
		MC1558			National	μA78M06			National	MC78M24				μA79M12M	
		MC4558C				LM78M06			Samsung	MC78M24C				LM79M12	
		RC4558			Samsung	MC78M06			Sanyo	L78M24			Samsung	MC79M12C	
		RM4558			SGS-Thomson	L78M06			SGS-Thomson	L78M24CV				MC7912	
		TL4558													
		TA75458													
	Toshiba	TA75558													
			(Continued)				(Continued)				(Continued)				(Continued)

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
SGS-THOMSON (Cont'd)				MC3302 (Cont'd)				MKB45F56 TI (Cont'd)				MK3882 Sharp (Cont'd)				
L7912	SGS-Thomson	(Cont'd)		SGS-Thomson	LM2901					TM4256FC1				LH0082		
	TI	μA7912		Signetics	LM2901			Toshiba	TM5256				Zilog	Z80-CTC		
	Toshiba	TA78024		TI	MC3302				TC511000			• MK3883	SGS-Thomson	Z80DMA		
L7915	GoldStar	GL7915		Motorola	LM3302				TC511000C					Z8410		
	Samsung	MC7915		Toshiba	TA75339			MKB4564	SGS-Thomson	TS4164		• MK3883	Sharp	LH0083		
	SGS-Thomson	μA7915		Motorola	MC3303			MK0808	MicroLinear	ML2258			Zilog	Z80-DMA		
	Toshiba	TA79015		National	μA3303				National	ADC0808		• MK3884	GoldStar	Z8440		
	Unitrode	UC320-15		Samsung	MC3303				Samsung	KAD0808			SGS-Thomson	MK3886		
L7918	Samsung	MC7918		Signetics	MC3303				Siemens	SDA0808				Z80ASIO		
	Toshiba	TA79018		TI	MC3303				TI	ADC0808				Z80SIO		
L7920	SiliconG	SG7920A (3642)		MC3403	Motorola	MC3403		MK27C512-15F1	Mitsubishi	M27512-170V10				Z8440		
	TI	μA7920		TI	MC3403			• MK2716	Harris	HM6617		• MK3884	Sharp	Z8441		
	Toshiba	TA79020		MC4558	AD	OP14 (3245, 3248)			Krueger	2716-350 (3513)				Z8442		
L7924	GoldStar	GL7924			Exar	XR1458				2716-450 (3513)				LH0084		
	Hitachi	HD74LS195A			XR4558			• MK2716	National	MM2716		• MK3884	Zilog	Z80-SIO		
	Motorola	MC719924			Fujitsu	MB3607			OKI	MSM2716				Z8440		
	National	SN74LS195A			Harris	CA1458			SGS-Thomson	M2716				Z8441		
		μA7924			Motorola	CA1558		MK2817	Allegro	UDN6116		• MK3885	GoldStar	Z8442		
	Panasonic	DM74LS195			National	SE4558			Micro	HM6116			SGS-Thomson	MK3886		
	Samsung	DN74LS195A				μA1458			Hitachi	M5M5517				Z80ASIO		
	SGS-Thomson	MC7924C			Raytheon	LM1558			Mitsubishi	MMC2116				Z80SIO		
		T74LS195A			Samsung	RC4558			National	MSM2128				Z8440		
	TI	μA7924			SGS-Thomson	MC4558			OKI	MSM5126		• MK3885	Sharp	Z8441		
	Toshiba	TA79024			Signetics	LS4558				MSM5128				Z8442		
L7952	Motorola	MC7952				MC1458			S-MOS	MSM5129		• MK3885	Zilog	LH0084		
	National	LM320-5				MC1558				SMC6116		• MK3885		LH0085		
L9222	Harris	CA3252 (3461)				NE4558			SGS-Thomson	SRM2016C				LH0086		
	National	DS3669			TI	SE4558				ET2128				Z80-SIO		
	TI	SN75440				MC1458			Sharp	MK6116				Z8441		
MCF40101	Motorola	MC14531				MC1558				LH5115		MK3886	GoldStar	Z8442		
	National	F4531				MC4558C			Signetics	LH5116			SGS-Thomson	Z8440		
	SGS-Thomson	HCC40101				RC4558			Sony	CXK5816				Z80ASIO		
	Signetics	HEF4531				RM4558			UMC	UM6116				Z80SIO		
MC1458	Toshiba	TC4531B				TL4558		• MK36000	Vitelc	V61C16				Z8440		
	AD	OP14 (3245, 3248)				TA75458			Microchip	RO9464				Z8441		
	Harris	OP270				TA75558			National	MM52164				Z8442		
		HA2102				CD74HCT651			Signetics	26S64				LH0084		
	MicroPwr	HA5102				SN74HCT651				2664				LH0085		
	National	MPOP14				TC74HCT651A (3674)		MK37000		RO39365				LH0086		
		μA1458HC				CD74HCT652			Microchip	R09864				Z80-SIO		
		LF412				SN74HCT652			Mitsubishi	M5M23C64				Z8440		
	NEC	LM1458				TC74HCT652A (3674)			National	F3568				Z8441		
	μPC251	RC4207				MC74HC155				F3569		• MK3887	GoldStar	Z8442		
	Raytheon	RC4227				MM74HC155				F3570			SGS-Thomson	Z8440		
	Samsung	MC1458				M74HC155			OKI	MM52264				MK3886		
	SGS-Thomson	μA1458				TC74HC155A (3674)		• MK38000	Panasonic	NM52264				Z80ASIO		
	Signetics	NE5512							TI	MSM3864				Z80SIO		
	SA1458	SE5512				MC74HC51				MN2364				Z8440		
	TI	LF412				CD74HC51			Catalyst	TMS2364				Z8441		
	Toshiba	TA75458				HD74HC51			Semi	CAT71C256		• MK3887	Sharp	Z8442		
MC1488	Exar	XR1488				MC74HC51			Gould AMI	S23256				LH0084		
	Motorola	MC1488				MM74HC51			NCR	NCR23256		• MK3887	Zilog	LH0085		
	National	μA1488				74HC51				NCR23257				LH0086		
		μA212A				SN74HC51			OKI	MSM38256		• MK3887		Z80-SIO		
		μA750				TC74HC51A (3674)			Panasonic	MM23256				Z8440		
		DS1488				DPD411M				MN23257				Z8441		
		MC1488				MB81C1000				SMM23256		• MK4007	Harris	Z8442		
		MC1488				TH22568				SMM6325		• MK4007	Motorola	CD4007B		
		MC1488				GM71C1000				SMM6326			National	MC14007		
		MC1488				HB561003				23256				CD4007		
		MC1488				HM511000				23256A		• MK4007	SGS-Thomson	F4007		
		MC1488				HM51101				TC53257				HCC4007		
		MC1488				HM51102			Toshiba	VT23256				HCF4007		
		SG1488				HM561003			VLSI Tech	VT23257				HEF4007		
	Samsung	MC1488				HY51C1000			National	F3870		• MK4007	Signetics	TC4007UB		
	Signetics	MC1488				HY51C1002			SGS-Thomson	M3870		• MK4027	Toshiba	M4027		
	SiliconG	MC1488				MT4C1024				F3872				TC4013B		
MC1489	National	MC1489				MH25608			National	M3872				CY7C167A		
	SiliconG	SG1489 (3643)				MH25609			SGS-Thomson	M3872		MK41H66	Cypress	51C67		
	TI	MC1489				M5M4C1000				Z8420			Intel	LC7167		
	AD	PM139				M5M41000S			GoldStar	Z8420			LogicDev	MT5C1601		
MC3302	IDT	IDT39C01				M5M41000A			SGS-Thomson	Z80PIO			MicronTech	LH5167		
	Motorola	LM2901				MCM511000A				Z8420			Sharp	V61C67		
		MC3302				μPD421000				LH0081		• MK3881	AMD	AM2167		
		μA2901				MC421000			Sharp	Z80-PIO				CY7C167A		
		μA3302				MSM41000			Zilog	Z8420				HM65262		
		LM2901				KM41C1000				Z8430		• MK3882	Harris	HM6267		
		LM3302				KM41256A			GoldStar	Z8430			Hitachi	IDT6167		
		LM2901				HYB511000			SGS-Thomson	Z80ACTC			IDT	51C66		
	Samsung	LM3302				TMS4C1024				Z80CTC			Intel	51C67		
		LM3302								Z8430					(Continued)	

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications against your requirements.

WAST: SOURCE DIRECTORY

♦ Discontinued

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
SGS-THOMSON (Cont'd)				M4116	National	F16K F4116 MM5290 MSM3716 HYB4116 2690 2910 μA5116 TP5116 5116 KT5116 MA556 TP5156 5156 MM5450 MM5450 SN5450 SN5451 ML5451 (3514)		M74HCT373	Harris Hitachi Marconi Motorola National Plessey Signetics TI Toshiba	CD74HCT373 HD74HCT373 74HCT373 MC74HCT373 MM74HCT373 MV74HCT373 MV74SC373 74HCT373 SN74HCT373 TC74HCT373A (3674)	M74HCT652 M74HCU04	Harris Harris Motorola National Signetics TI Toshiba	CD74HCT652 CD74HCU04 MC74HCU04 MM74HCU04 74HCU04 SN74HCU04 TC74HCU04A (3674)		
M27128A	ATMEL Fujitsu Intel	AT27C128 MBM27C128 M27C128 27C128A 27C128 MSM27C128 SPM27129C WS27C128L HM6617 2716-350 (3513) 2716-450 (3513) 2716T-350 (3513) 2716T-450 (3513)		M5116	OKI Siemens Signetics Intel National			M74HCT374	Harris Hitachi LinearTech Marconi Motorola National Plessey	CD74HCT374 HD74HCT374 LTC1044 74HCT374 MC74HCT374 MM74HCT374 MV74HCT374 MV74SC374 74HCT374 SN74HCT374 TC74HCT374A (3674)	M74HC00	Harris Hitachi Motorola National Signetics TI Toshiba	CD74HC00 HD74HC00 MC74HC00 MM74HC00 74HC00 SN74HC00 TC74HC00A (3674)		
M2716	Microchip OKI S-MOS Waferscale Harris Krueger	27256 M27256 P27257 27256 27256-200 (3513) 27256-250 (3513) 27256-300 (3513) MSL27256 M5M27256 MCM67256 MSM27256 LH57256 TMS27C256 TC57H256 27256-2 27256-20 27256-20 27256-25 27256-25 M2732 2732 2732A 2732-250 (3513) 2732-300 (3513) 2732-350 (3513) 2732-450 (3513)		M5450	Micrel National TI			M74HCT540	Harris Marconi Motorola National Plessey Signetics TI Toshiba	CD74HCT540 74HCT540 MC74HCT540 MM74HCT540 MV74HCT540 74HCT540 SN74HCT540 TC74HCT540A (3674)	M74HC02	Harris Hitachi Motorola National Signetics TI Toshiba	CD74HC02 HD74HC02 MC74HC02 MM74HC02 74HC02 SN74HC02 TC74HC02A (3674)		
M27256	National OKI ATMEL Catalyst Rsch Intel	MM2716 MSM2716 AT27HC256 27256 M27256 P27257 27256 27256-200 (3513) 27256-250 (3513) 27256-300 (3513) MSL27256 M5M27256 MCM67256 MSM27256 LH57256 TMS27C256 TC57H256 27256-2 27256-20 27256-20 27256-25 27256-25 M2732 2732 2732A 2732-250 (3513) 2732-300 (3513) 2732-350 (3513) 2732-450 (3513)		M5451	Lansdale Micrel National	(3514)		M74HCT541	Harris Marconi National Plessey Signetics TI Toshiba	CD74HCT541 74HCT541 MM74HCT541 MV74HCT541 74HCT541 SN74HCT541 TC74HCT541A (3674)	M74HC03	Harris Motorola National Signetics TI Toshiba	CD74HC03 MC74HC03 74HC03 SN74HC03 TC74HC03A (3674)		
M27256-2	Intel	27256-20		M74HCT04	Harris National Signetics TI Toshiba	CD74HCT04 MM72HCT04 74HCT04 SN74HCT04 TC74HCT04A (3674)		M74HCT563	Harris Marconi National Plessey Signetics TI Toshiba	CD74HCT563 74HCT563 MM74HCT563 MV74HCT563 74HCT563 SN74HCT563 TC74HCT563 CD74HCT564 74HCT564 MC74HCT564 MM74HCT564 MV74HCT564 74HCT564 SN74HCT564 TC74HCT564	M74HC04	Harris Hitachi National Signetics TI Toshiba	CD74HC04 HD74HC04 MM74HC04 74HC04 SN74HC04 TC74HC04A (3674)		
M27256-20	Microchip	27256-20		M74HCT137	Harris Marconi Plessey Signetics TI Toshiba	CD74HCT137 74HCT137 MV74HCT137 74HCT137 SN74HCT137 TC74HCT137A (3674)		M74HCT564	Harris Marconi Motorola National Plessey Signetics TI Toshiba	CD74HCT564 74HCT564 MC74HCT564 MM74HCT564 MV74HCT564 74HCT564 SN74HCT564 TC74HCT564	M74HC08	Harris Hitachi Motorola National Signetics TI Toshiba	CD74HC08 HD74HC08 MC74HC08 MM74HC08 74HC08 SN74HC08 TC74HC08A (3674)		
M27256-25	Intel	27256-25		M74HCT138	Harris Marconi National Plessey Signetics TI Toshiba	CD74HCT138 74HCT138 MM74HCT138 MV74HCT138 74HCT138 SN74HCT138 TC74HCT138A (3674)		M74HCT573	Harris Marconi National Plessey Signetics TI Toshiba	CD74HCT573 74HCT573 MM74HCT573 MV74HCT573 74HCT573 SN74HCT573 TC74HCT573	M74HC10	Harris Hitachi Motorola National Signetics TI Toshiba	CD74HC10 HD74HC10 MC74HC10 MM74HC10 74HC10 SN74HC10 TC74HC10A (3674)		
M2732A	Intel	M2732 2732 2732A 2732-250 (3513) 2732-300 (3513) 2732-350 (3513) 2732-450 (3513) 2732A-250 (3513) 2732A-300 (3513) 2732A-350 (3513) 2732A-450 (3513)		M74HCT240	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT240 HD74HCT240 74HCT240 MC74HCT240 MM74HCT240 MV74HCT240 74HCT240 SN74HCT240 TC74HCT240A (3674)		M74HCT574	Harris Marconi National Plessey Signetics TI Toshiba	CD74HCT574 74HCT574 MM74HCT574 MV74HCT574 74HCT574 SN74HCT574 TC74HCT574	M74HC107	Harris Hitachi Motorola National Signetics TI Toshiba	CD74HC107 HD74HC107 MC74HC107 MM74HC107 74HC107 SN74HC107 TC74HC107A (3674)		
M27512	National OKI TI Catalyst Rsch Hitachi Intel	MM2732 NMC2732 MSM2732 TMS2732A 27512 HN27512 N27512 P27512 27512 27512-200 (3513) 27512-250 (3513) M27512 MSM27512 M27512 TMS27C512 27512-2 M27512-2 M27512-2		M74HCT241	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT241 HD74HCT241 74HCT241 MC74HCT241 MM74HCT241 MV74HCT241 74HCT241 SN74HCT241 TC74HCT241A (3674)		M74HCT620	Harris Marconi National Plessey Signetics TI Toshiba	CD74HCT620 74HCT620 MC74HCT620 MM74HCT620 MV74HCT620 74HCT620 SN74HCT620 TC74HCT620A (3674)	M74HC109	Harris Hitachi Motorola National Signetics TI Toshiba	CD74HC109 HD74HC109 MC74HC109 MM74HC109 74HC109 SN74HC109 TC74HC109A (3674)		
M27512-2F1	Intel	27512-20		M74HCT244	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT244 HD74HCT244 74HCT244 MC74HCT244 MM74HCT244 MV74HCT244 74HCT244 SN74HCT244 TC74HCT244A (3674)		M74HCT643	Harris Signetics TI Toshiba	CD74HCT643 74HCT643 SN74HCT643 TC74HCT643A (3674)	M74HC111	Harris Hitachi Motorola National Signetics TI Toshiba	CD74HC111 HD74HC111 MC74HC111 MM74HC111 74HC111 SN74HC111 TC74HC111A (3674)		
M27512-20F1	Intel	27512-20		M74HCT245	Harris Hitachi Marconi Motorola National Plessey	CD74HCT245 HD74HCT245 74HCT245 MC74HCT245 MM74HCT245 MV74HCT245 74HCT245 SN74HCT245 TC74HCT245A (3674)		M74HCT646	Harris Signetics TI Toshiba	CD74HCT646 74HCT646 SN74HCT646 TC74HCT646A (3674)	M74HC112	Harris Hitachi Motorola National Signetics TI Toshiba	CD74HC112 HD74HC112 MC74HC112 MM74HC112 74HC112 SN74HC112 TC74HC112A (3674)		
M27512-25F1	Microchip Mitsubishi	27512-20 27512-20 M27512-20		M74HCT246	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT246 HD74HCT246 74HCT246 MC74HCT246 MM74HCT246 MV74HCT246 74HCT246 SN74HCT246 TC74HCT246A (3674)		M74HCT648	Harris Signetics TI Toshiba	CD74HCT648 74HCT648 SN74HCT648 TC74HCT648A (3674)	M74HC113	Harris Hitachi Motorola National Signetics TI Toshiba	CD74HC113 HD74HC113 MC74HC113 MM74HC113 74HC113 SN74HC113 TC74HC113A (3674)		
M27512-3F1	Intel	27512-25		M74HCT247	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT247 HD74HCT247 74HCT247 MC74HCT247 MM74HCT247 MV74HCT247 74HCT247 SN74HCT247 TC74HCT247A (3674)		M74HCT651	Harris	CD74HCT651	M74HC123	Harris Hitachi National Signetics Toshiba	CD74HC123 HD74HC123 MM74HC123 74HC123 TC74HC123A (3674)		
M27512F1	Mitsubishi	M27512-3		M74HCT248	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT248 HD74HCT248 74HCT248 MC74HCT248 MM74HCT248 MV74HCT248 74HCT248 SN74HCT248 TC74HCT248A (3674)		M74HCT652	Harris	CD74HCT652	M74HC124	Harris Hitachi National Signetics Toshiba	CD74HC124 HD74HC124 MM74HC124 74HC124 TC74HC124A (3674)		
M27512F1	Intel	27512-25		M74HCT249	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT249 HD74HCT249 74HCT249 MC74HCT249 MM74HCT249 MV74HCT249 74HCT249 SN74HCT249 TC74HCT249A (3674)		M74HCT653	Harris	CD74HCT653	M74HC125	Harris Hitachi National Signetics Toshiba	CD74HC125 HD74HC125 MM74HC125 74HC125 TC74HC125A (3674)		
M27512F1	Intel	27512-25		M74HCT250	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT250 HD74HCT250 74HCT250 MC74HCT250 MM74HCT250 MV74HCT250 74HCT250 SN74HCT250 TC74HCT250A (3674)		M74HCT654	Harris	CD74HCT654	M74HC126	Harris Hitachi National Signetics Toshiba	CD74HC126 HD74HC126 MM74HC126 74HC126 TC74HC126A (3674)		
M27512F1	Intel	27512-25		M74HCT251	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT251 HD74HCT251 74HCT251 MC74HCT251 MM74HCT251 MV74HCT251 74HCT251 SN74HCT251 TC74HCT251A (3674)		M74HCT655	Harris	CD74HCT655	M74HC127	Harris Hitachi National Signetics Toshiba	CD74HC127 HD74HC127 MM74HC127 74HC127 TC74HC127A (3674)		
M27512F1	Intel	27512-25		M74HCT252	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT252 HD74HCT252 74HCT252 MC74HCT252 MM74HCT252 MV74HCT252 74HCT252 SN74HCT252 TC74HCT252A (3674)		M74HCT656	Harris	CD74HCT656	M74HC128	Harris Hitachi National Signetics Toshiba	CD74HC128 HD74HC128 MM74HC128 74HC128 TC74HC128A (3674)		
M27512F1	Intel	27512-25		M74HCT253	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT253 HD74HCT253 74HCT253 MC74HCT253 MM74HCT253 MV74HCT253 74HCT253 SN74HCT253 TC74HCT253A (3674)		M74HCT657	Harris	CD74HCT657	M74HC129	Harris Hitachi National Signetics Toshiba	CD74HC129 HD74HC129 MM74HC129 74HC129 TC74HC129A (3674)		
M27512F1	Intel	27512-25		M74HCT254	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT254 HD74HCT254 74HCT254 MC74HCT254 MM74HCT254 MV74HCT254 74HCT254 SN74HCT254 TC74HCT254A (3674)		M74HCT658	Harris	CD74HCT658	M74HC130	Harris Hitachi National Signetics Toshiba	CD74HC130 HD74HC130 MM74HC130 74HC130 TC74HC130A (3674)		
M27512F1	Intel	27512-25		M74HCT255	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT255 HD74HCT255 74HCT255 MC74HCT255 MM74HCT255 MV74HCT255 74HCT255 SN74HCT255 TC74HCT255A (3674)		M74HCT659	Harris	CD74HCT659	M74HC131	Harris Hitachi National Signetics Toshiba	CD74HC131 HD74HC131 MM74HC131 74HC131 TC74HC131A (3674)		
M27512F1	Intel	27512-25		M74HCT256	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT256 HD74HCT256 74HCT256 MC74HCT256 MM74HCT256 MV74HCT256 74HCT256 SN74HCT256 TC74HCT256A (3674)		M74HCT660	Harris	CD74HCT660	M74HC132	Harris Hitachi National Signetics Toshiba	CD74HC132 HD74HC132 MM74HC132 74HC132 TC74HC132A (3674)		
M27512F1	Intel	27512-25		M74HCT257	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT257 HD74HCT257 74HCT257 MC74HCT257 MM74HCT257 MV74HCT257 74HCT257 SN74HCT257 TC74HCT257A (3674)		M74HCT661	Harris	CD74HCT661	M74HC133	Harris Hitachi National Signetics Toshiba	CD74HC133 HD74HC133 MM74HC133 74HC133 TC74HC133A (3674)		
M27512F1	Intel	27512-25		M74HCT258	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT258 HD74HCT258 74HCT258 MC74HCT258 MM74HCT258 MV74HCT258 74HCT258 SN74HCT258 TC74HCT258A (3674)		M74HCT662	Harris	CD74HCT662	M74HC134	Harris Hitachi National Signetics Toshiba	CD74HC134 HD74HC134 MM74HC134 74HC134 TC74HC134A (3674)		
M27512F1	Intel	27512-25		M74HCT259	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT259 HD74HCT259 74HCT259 MC74HCT259 MM74HCT259 MV74HCT259 74HCT259 SN74HCT259 TC74HCT259A (3674)		M74HCT663	Harris	CD74HCT663	M74HC135	Harris Hitachi National Signetics Toshiba	CD74HC135 HD74HC135 MM74HC135 74HC135 TC74HC135A (3674)		
M27512F1	Intel	27512-25		M74HCT260	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT260 HD74HCT260 74HCT260 MC74HCT260 MM74HCT260 MV74HCT260 74HCT260 SN74HCT260 TC74HCT260A (3674)		M74HCT664	Harris	CD74HCT664	M74HC136	Harris Hitachi National Signetics Toshiba	CD74HC136 HD74HC136 MM74HC136 74HC136 TC74HC136A (3674)		
M27512F1	Intel	27512-25		M74HCT261	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT261 HD74HCT261 74HCT261 MC74HCT261 MM74HCT261 MV74HCT261 74HCT261 SN74HCT261 TC74HCT261A (3674)		M74HCT665	Harris	CD74HCT665	M74HC137	Harris Hitachi National Signetics Toshiba	CD74HC137 HD74HC137 MM74HC137 74HC137 TC74HC137A (3674)		
M27512F1	Intel	27512-25		M74HCT262	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT262 HD74HCT262 74HCT262 MC74HCT262 MM74HCT262 MV74HCT262 74HCT262 SN74HCT262 TC74HCT262A (3674)		M74HCT666	Harris	CD74HCT666	M74HC138	Harris Hitachi National Signetics Toshiba	CD74HC138 HD74HC138 MM74HC138 74HC138 TC74HC138A (3674)		
M27512F1	Intel	27512-25		M74HCT263	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT263 HD74HCT263 74HCT263 MC74HCT263 MM74HCT263 MV74HCT263 74HCT263 SN74HCT263 TC74HCT263A (3674)		M74HCT667	Harris	CD74HCT667	M74HC139	Harris Hitachi National Signetics Toshiba	CD74HC139 HD74HC139 MM74HC139 74HC139 TC74HC139A (3674)		
M27512F1	Intel	27512-25		M74HCT264	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT264 HD74HCT264 74HCT264 MC74HCT264 MM74HCT264 MV74HCT264 74HCT264 SN74HCT264 TC74HCT264A (3674)		M74HCT668	Harris	CD74HCT668	M74HC140	Harris Hitachi National Signetics Toshiba	CD74HC140 HD74HC140 MM74HC140 74HC140 TC74HC140A (3674)		
M27512F1	Intel	27512-25		M74HCT265	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT265 HD74HCT265 74HCT265 MC74HCT265 MM74HCT265 MV74HCT265 74HCT265 SN74HCT265 TC74HCT265A (3674)		M74HCT669	Harris	CD74HCT669	M74HC141	Harris Hitachi National Signetics Toshiba	CD74HC141 HD74HC141 MM74HC141 74HC141 TC74HC141A (3674)		
M27512F1	Intel	27512-25		M74HCT266	Harris Hitachi Marconi Motorola National Plessey Samsung Signetics TI Toshiba	CD74HCT266 HD74HCT266 74HCT266 MC74HCT266 MM74HCT266 MV74HCT266 74HCT266 SN74HCT266 TC74HCT266A (3674)		M74HCT670	Harris	CD74HCT670	M74HC142	Harris Hitachi National Signetics Toshiba	CD74HC142 HD74HC142 MM74HC142 74HC142 TC74HC142A (3674)		
M27512F1	Intel														

◆ Discontinued

The manufacturers report their devices can be used as direct replacements. Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
SGS-THOMSON (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
M74HC125	Harris	CD74HC125	(3674)	M74HC154	National	MM74HC154	(3674)	M74HC174	TI	SN74HC174	(3674)	M74HC238	Harris	CD74HC238	(3674)
	Hitachi	HD74HC125			Signetics	74HC154			Toshiba	TC74HC174A			Motorola	MC74HC238	
	Motorola	MC74HC125			TI	SN74HC154							National	MM74HC238	
	Signetics	MM74HC125			Toshiba	TC74HC154A		M74HC175	Harris	CD74HC175			Signetics	74HC238	
	TI	74HC125							Hitachi	HD74HC175			TI	SN74HC238	
	Toshiba	SN74HC125		M74HC155	Motorola	MC74HC155	(3674)		Motorola	MC74HC175	(3674)	M74HC240	Harris	CD74HC240	(3674)
		TC74HC125A			National	MM74HC155			Signetics	MM74HC175			Hitachi	HD74HC240	
M74HC126	Harris	CD74HC126	(3674)		SGS-Thomson	MC74HC155			TI	SN74HC175			Motorola	MC74HC240	
	Hitachi	HD74HC126			Toshiba	TC74HC155A			Toshiba	TC74HC175A			National	MM74HC240	
	Motorola	MC74HC126		M74HC157	Harris	CD74HC157		M74HC181	Harris	CD74HC181	(3674)		Signetics	74HC240	
	National	MM74HC126			Hitachi	HD74HC157			Motorola	MM74HC181			TI	SN74HC240	
	Signetics	74HC126			Motorola	MC74HC157			Signetics	74HC181			Toshiba	TC74HC240A	
	Toshiba	TC74HC126A			Signetics	74HC157			Toshiba	TC74HC181A		M74HC241	Harris	CD74HC241	(3674)
M74HC131	Motorola	MC74HC131	(3674)		TI	SN74HC157							Hitachi	HD74HC241	
M74HC132	Harris	CD74HC132			Toshiba	TC74HC157A	(3674)	M74HC182	Harris	CD74HC182	(3674)		Motorola	MC74HC241	
	Hitachi	HD74HC132		M74HC158	Harris	CD74HC158			National	MM74HC182			National	MM74HC241	
	Motorola	MC74HC132			Hitachi	HD74HC158			Signetics	74HC182			Signetics	74HC241	
	National	MM74HC132			Motorola	MC74HC158		M74HC190	Harris	CD74HC190			TI	SN74HC241	
	TI	SN74HC132			Signetics	74HC158			TI	SN74HC190			Toshiba	TC74HC241A	
	Toshiba	TC74HC132A			Toshiba	TC74HC158A			Hitachi	HD74HC190	(3674)	M74HC242	Harris	CD74HC242	(3674)
M74HC133	Motorola	MC74HC133	(3674)						Motorola	MM74HC190			Hitachi	HD74HC242	
	National	MM74HC133		M74HC160	Harris	CD74HC160	(3674)		Signetics	74HC182			Motorola	MC74HC242	
	TI	SN74HC133			Motorola	MC74HC160		M74HC191	Harris	CD74HC191			National	MM74HC242	
	Toshiba	TC74HC133A			National	MM74HC160			Hitachi	HD74HC191			Signetics	74HC242	
					Signetics	74HC160			National	MM74HC191		M74HC243	Harris	CD74HC243	(3674)
M74HC137	Harris	CD74HC137	(3674)		TI	SN74HC160			Signetics	74HC191			Hitachi	HD74HC243	
	Hitachi	HD74HC137			Toshiba	TC74HC160A	(3674)		TI	SN74HC191			Motorola	MC74HC243	
	Motorola	MC74HC137		M74HC161	Harris	CD74HC161			Toshiba	TC74HC191A	(3674)		National	MM74HC243	
	National	MM74HC137			Hitachi	HD74HC161			Hitachi	HD74HC192			Signetics	74HC243	
	Signetics	74HC137			Motorola	MC74HC161		M74HC192	Harris	CD74HC192			TI	SN74HC243	
	TI	SN74HC137			National	MM74HC161			Hitachi	HD74HC192	(3674)	M74HC244	Harris	CD74HC244	(3674)
	Toshiba	TC74HC137A			Signetics	74HC161			National	MM74HC192			Hitachi	HD74HC244	
M74HC138	Harris	CD74HC138	(3674)		TI	SN74HC161			Signetics	74HC192			Motorola	MC74HC244	
	Hitachi	HD74HC138			Toshiba	TC74HC161A	(3674)		TI	SN74HC192			National	MM74HC244	
	Motorola	MC74HC138		M74HC162	Harris	CD74HC162			Toshiba	TC74HC192A	(3674)		Signetics	74HC244	
	National	MM74HC138			Hitachi	HD74HC162		M74HC193	Harris	CD74HC193			TI	SN74HC244	
	Signetics	74HC138			Motorola	MC74HC162			Hitachi	HD74HC193			Toshiba	TC74HC244A	
	TI	SN74HC138			National	MM74HC162			National	MM74HC193	(3674)	M74HC245	Harris	CD74HC245	(3674)
	Toshiba	TC74HC138A			Signetics	74HC162			Signetics	74HC193			Hitachi	HD74HC245	
M74HC139	Harris	CD74HC139	(3674)		TI	SN74HC162			TI	SN74HC193			Motorola	MC74HC245	
	Hitachi	HD74HC139			Toshiba	TC74HC162A	(3674)		Toshiba	TC74HC193A			National	MM74HC245	
	Motorola	MC74HC139						M74HC194	Harris	CD74HC194			Signetics	74HC245	
	National	MM74HC139							Hitachi	HD74HC194	(3674)		TI	SN74HC245	
	Signetics	74HC139		M74HC163	Harris	CD74HC163			Motorola	MC74HC194			Toshiba	TC74HC245A	
	TI	SN74HC139			Hitachi	HD74HC163	(3674)		National	MM74HC194		M74HC251	Harris	CD74HC251	(3674)
	Toshiba	TC74HC139A			Motorola	MC74HC163			Signetics	74HC194			Hitachi	HD74HC251	
M74HC14	Harris	CD74HC14	(3674)		TI	SN74HC163			TI	SN74HC194			Motorola	MC74HC251	
	Hitachi	HD74HC14			Toshiba	TC74HC163A			Toshiba	TC74HC194A	(3674)		National	MM74HC251	
	Motorola	MC74HC14		M74HC164	Harris	CD74HC164							Signetics	74HC251	
	National	MM74HC14			Hitachi	HD74HC164		M74HC195	Harris	CD74HC195			TI	SN74HC251	
	Signetics	74HC14			Motorola	MC74HC164			Hitachi	HD74HC195	(3674)		Toshiba	TC74HC251A	
	TI	SN74HC14			National	MM74HC164	(3674)		Motorola	MC74HC195		M74HC253	Harris	CD74HC253	(3674)
	Toshiba	TC74HC14A			Signetics	74HC164			Signetics	74HC195			Hitachi	HD74HC253	
M74HC147	Harris	CD74HC147	(3674)		TI	SN74HC164			TI	SN74HC195			Motorola	MC74HC253	
	Hitachi	HD74HC147			Toshiba	TC74HC164A			Toshiba	TC74HC195A	(3674)		National	MM74HC253	
	Motorola	MC74HC147		M74HC165	Harris	CD74HC165							Signetics	74HC253	
	National	MM74HC147			Hitachi	HD74HC165		M74HC20	Harris	CD74HC20			TI	SN74HC253	
	Signetics	74HC147			Motorola	MC74HC165			Hitachi	HD74HC20	(3674)		Toshiba	TC74HC253A	
	TI	SN74HC147			National	MM74HC165	(3674)		Motorola	MC74HC20		M74HC257	Harris	CD74HC257	(3674)
	Toshiba	TC74HC147A			Signetics	74HC165			National	MM74HC20			Hitachi	HD74HC257	
M74HC148	Hitachi	HD74HC148	(3674)		TI	SN74HC165			Signetics	74HC20			Motorola	MC74HC257	
	TI	SN74HC148			Toshiba	TC74HC165A			TI	SN74HC20			National	MM74HC257	
	Toshiba	TC74HC148A							Toshiba	TC74HC20A	(3674)		Signetics	74HC257	
M74HC151	Harris	CD74HC151		M74HC166	Harris	CD74HC166			Hitachi	HD74HC21			TI	SN74HC257	
	Hitachi	HD74HC151			National	MM74HC166	(3674)		Motorola	MC74HC21			Toshiba	TC74HC257A	
	Motorola	MC74HC151			Signetics	74HC166			Signetics	74HC21		M74HC258	Harris	CD74HC258	(3674)
	National	MM74HC151			TI	SN74HC166			TI	SN74HC21			Hitachi	HD74HC258	
	Signetics	74HC151			Toshiba	TC74HC166A			Toshiba	TC74HC21A	(3674)		Signetics	74HC258	
	TI	SN74HC151							Hitachi	HD74HC221			TI	SN74HC258	
	Toshiba	TC74HC151A							National	MM74HC221			Toshiba	TC74HC258A	
M74HC153	Harris	CD74HC153	(3674)						Signetics	74HC221					
	Hitachi	HD74HC153		M74HC173	Harris	CD74HC173	(3674)		Toshiba	TC74HC221A	(3674)	M74HC266	Harris	CD74HC266	(3674)
	Motorola	MC74HC153			Hitachi	HD74HC173							National	MM74HC266	
	National	MM74HC153			Motorola	MC74HC173							Signetics	74HC266	
	Signetics	74HC153			National	MM74HC173		M74HC221	Harris	CD74HC221			TI	SN74HC266	
	TI	SN74HC153			Signetics	74HC173			Hitachi	HD74HC221			Toshiba	TC74HC266A	
	Toshiba	TC74HC153A			Toshiba	TC74HC173A			National	MM74HC221A			Hitachi	HD74HC27	
M74HC154	Harris	CD74HC154	(3674)						Signetics	74HC237	(3674)	M74HC27	Harris	CD74HC27	(3674)
	Hitachi	HD74HC154		M74HC174	Harris	CD74HC174	(3674)		TI	SN74HC237			Hitachi	HD74HC27	
	Motorola	MC74HC154			Hitachi	HD74HC174			Toshiba	TC74HC237A			Motorola	MC74HC27	
					Motorola	MC74HC174							National	MM74HC27	
					Signetics	74HC174							Signetics	74HC27	

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
SGS-THOMSON (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
M74HC27	TI	SN74HC27	(Cont'd)	M74HC366	Signetics TI	74HC366 SN74HC366	(3674)	M74HC4022	Toshiba	TC74HC4022		M74HC423	Harris	CD74HC423	
M74HC273	Toshiba	TC74HC273A (3674)		M74HC367	Harris	CD74HC367		M74HC4024	Harris	CD74HC4024		M74HC4511	Motorola	MC74HC423A	
	Hitachi	HD74HC273			Hitachi	HD74HC367			Hitachi	HD74HC4024			Signetics	74HC423	
	Marconi	74HC273			Motorola	MC74HC367			Motorola	MC74HC4024			Harris	CD74HC4511	
	Motorola	MC74HC273			National	MM74HC367			National	MM74HC4024			Motorola	MC74HC4511	
	National	MM74HC273			Signetics	74HC367			Signetics	74HC4024			National	MM74HC4511	
	Signetics	74HC273			TI	SN74HC367			TI	SN74HC4024			Signetics	74HC4511	
	TI	SN74HC273			Toshiba	TC74HC367A (3674)			Toshiba	TC74HC4024A (3674)			Toshiba	TC74HC4511A (3674)	
	Toshiba	TC74HC273A (3674)													
M74HC279	Harris	CD74HC279		M74HC368	Harris	CD74HC368		M74HC4028	Motorola	MC74HC4028		M74HC4514	Harris	CD74HC4514	
	Signetics	74HC279			Hitachi	HD74HC368		M74HC4040	Harris	CD74HC4040			Hitachi	HD74HC4514	
	Toshiba	TC74HC279A (3674)			Motorola	MC74HC368			Hitachi	HD74HC4040			Motorola	MC74HC4514	
					National	MM74HC368			Motorola	MC74HC4040			National	MM74HC4514	
M74HC280	Harris	CD74HC280			Signetics	74HC368			Signetics	74HC4040			Signetics	74HC4514	
	Hitachi	HD74HC280			TI	SN74HC368			TI	SN74HC4040			TI	SN74HC4514	
	Motorola	MC74HC280			Toshiba	TC74HC368A (3674)			Toshiba	TC74HC4040A (3674)			Toshiba	TC74HC4514A (3674)	
	National	MM74HC280													
	Signetics	74HC280													
	TI	SN74HC280		M74HC373	Harris	CD74HC373		M74HC4049	Harris	CD74HC4049		M74HC4518	Harris	CD74HC4518	
	Toshiba	TC74HC280A (3674)			Hitachi	HD74HC373			Motorola	MC74HC4049			IDT	IDT71781	
					Motorola	MC74HC373			National	MM74HC4049			LogicDev	L7C171	
M74HC283	Harris	CD74HC283			Signetics	74HC373			Signetics	74HC4049			Motorola	MC74HC4518	
	National	MM74HC283			TI	SN74HC373			Toshiba	TC74HC4049A (3674)			Signetics	74HC4518	
	Signetics	74HC283			Toshiba	TC74HC373A (3674)							Toshiba	TC74HC4518	
	TI	SN74HC283											Harris	CD74HC4520	
	Toshiba	TC74HC283A (3674)											Motorola	MC74HC4520	
M74HC292	National	MM74HC292											Signetics	74HC4520	
M74HC294	National	MM74HC294											Toshiba	TC74HC4520	
M74HC298	Hitachi	HD74HC298											Harris	CD74HC4538	
	Motorola	MC74HC298											Motorola	MC74HC4538	
	National	MM74HC298											National	MM74HC4538	
	Signetics	TC74HC298A											Signetics	74HC4538	
	TI	SN74HC298											Toshiba	TC74HC4538A (3674)	
	Toshiba	TC74HC298A (3674)													
M74HC299	Harris	CD74HC299													
	Motorola	MC74HC299													
	National	MM74HC299													
	Signetics	74HC299													
	TI	SN74HC299													
	Toshiba	TC74HC299A (3674)													
M74HC30	Harris	CD74HC30													
	Hitachi	HD74HC30													
	Motorola	MC74HC30													
	National	MM74HC30													
	Signetics	74HC30													
	TI	SN74HC30													
	Toshiba	TC74HC30A (3674)													
M74HC32	Harris	CD74HC32													
	Hitachi	HD74HC32													
	Motorola	MC74HC32													
	National	MM74HC32													
	Signetics	74HC32													
	TI	SN74HC32													
	Toshiba	TC74HC32A (3674)													
M74HC323	Motorola	MC74HC323													
	National	MM74HC323													
	Toshiba	TC74HC323A (3674)													
M74HC354	Harris	CD74HC354													
	Hitachi	HD74HC354													
	Motorola	MC74HC354													
	National	MM74HC354													
	Signetics	74HC354													
	TI	SN74HC354													
	Toshiba	TC74HC354A (3674)													
M74HC356	Harris	CD74HC356													
	Hitachi	HD74HC356													
	National	MM74HC356													
	Signetics	74HC356													
	TI	SN74HC356													
	Toshiba	TC74HC356A (3674)													
M74HC365	Harris	CD74HC365													
	Hitachi	HD74HC365													
	Motorola	MC74HC365													
	National	MM74HC365													
	Signetics	74HC365													
	TI	SN74HC365													
	Toshiba	TC74HC365A (3674)													
M74HC366	Harris	CD74HC366													
	Hitachi	HD74HC366													
	Motorola	MC74HC366													
	National	MM74HC366													

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
SGS-THOMSON (Cont'd)				M74HC690	Toshiba	TC74HC690A (3674)		M9346	ROHM	BR93C46	(Cont'd)	SG2524	Signetics	SG2524C	(Cont'd)	
M74HC573	TI	SN74HC573	(Cont'd)	M74HC691	Toshiba	TC74HC691A (3674)			SGS-Thomson	ST93CS46			SiliconG	SG2524B (3642)		
	Toshiba	TC74HC573A (3674)		M74HC692	Toshiba	TC74HC692A (3674)				TS93C46A			TI	SG2524A (3642)		
M74HC574	Harris	CD74HC574		M74HC693	Toshiba	TC74HC693A (3674)		NE555	Sierra	SC22011		SG2525A	Unitrode	UC2524A		
	Hitachi	HD74HC574							Exar	XR555			Exar	XR2525A		
	Motorola	MC74HC574		M74HC696	Toshiba	TC74HC696A (3674)				XR555M			Harris	HA2525		
	National	MM74HC574		M74HC697	Toshiba	TC74HC697A (3674)			GoldStar	GLC555			LinearTech	LT2525A		
	Signetics	74HC574							Harris	CA0555			Motorola	SG2525A		
	TI	SN74HC574		M74HC698	Toshiba	TC74HC698A (3674)				NE555			SiliconG	SG2525A (3642)		
	Toshiba	TC74HC574A (3674)							Mitsubishi	M5E555			Sipex-HSD	SP2525		
M74HC590	Hitachi	HD74HC590		M74HC699	Toshiba	TC74HC699A (3674)				M51841			TeledyneS	TSC25C25A		
	National	MM74HC590							Motorola	M51848			TI	SG2525A		
	TI	SN74HC590		M74HC7266	Harris	CD74HC7266			National	MC1455				TL2525		
	Toshiba	TC74HC590A (3674)			Motorola	MC74HC7266				LM555		SG2626	Unitrode	UC2525A		
M74HC595	Hitachi	HD74HC595			National	MM74HC7266			Samsung	NE555			Siliconix	SG1626		
	LogicDev	L7C164			TI	SN74HC7266			Signetics	NE555				SG2626		
	Motorola	MC74HC595			Toshiba	TC74HC7266A (3674)				SE555				SG3626		
	National	MM74HC595		M74HC7292	Toshiba	TC74HC7292 (3674)			TI	SE555		SG3524	Cherry Semi	CS3524		
	TI	SN74HC595								SE555M			Exar	XR3524		
	Toshiba	TC74HC595A (3674)		M74HC7294	National	MM74HC7294				TA7555			Harris	CA3524		
M74HC597	Vitelc	V61C62			Toshiba	TC74HC7294 (3674)		NE556	Toshiba	M5E556			National	LM3524		
	VLSI Tech	CT64KS4		M74HC73	Harris	CD74HC73			National	LM556			Signetics	SG3524C		
	Harris	CD74HC597			Hitachi	HD74HC73			Samsung	NE556			SiliconG	SG3524 (3642)		
	Hitachi	HD74HC597			Motorola	MC74HC73			Signetics	NE556				SG3524B (3642)		
	Motorola	MC74HC597			National	MM74HC73			TI	NE555			Unitrode	UC3524		
	National	MM74HC597			Signetics	74HC73				NE556				UC3524A		
	Signetics	74HC597		M74HC74	Hitachi	HD74HC74			PBD3535	KA2413		SG3525A	Ericsson	RL3525A		
	TI	SN74HC597			Motorola	MC74HC74			PBL3717	PBL3717			Exar	XR3525A		
	Toshiba	TC74HC597A (3674)			National	MM74HC74			Unitrode	UC3717			LinearTech	LT3525		
M74HC620	Hitachi	HD74HC620			TI	SN74HC74				CA3018				SG3525		
	National	MM74HC620			Toshiba	TC74HC73A (3674)			SFC2018	LM3018			Motorola	SG3525A		
	TI	SN74HC620			Hitachi	HD74HC74				MC3346			SiliconG	SG3525A (3642)		
	Toshiba	TC74HC620A (3674)			Motorola	MC74HC74			SFC2046	SL3046			TeledyneS	TSC35C25A		
M74HC623	Hitachi	HD74HC623			National	MM74HC74				SL3086			TI	SG3525		
	National	MM74HC623			Signetics	74HC74				SL3146			Unitrode	UC3525		
	TI	SN74HC623			TI	SN74HC74			SGS-Thomson	CA3046				UC3525A		
	Toshiba	TC74HC623A (3674)		M74HC75	Harris	CD74HC75				LM3046			SG3527A	Exar		
M74HC640	Harris	CD74HC640			Hitachi	HD74HC75			SFC2054	Allegro			LinearTech	LT3527		
	Hitachi	HD74HC640			Motorola	MC74HC75				Micro	ULN2054			SG3527A		
	Motorola	MC74HC640			National	MM74HC75				ULN3054			Motorola	SG3527A (3642)		
	National	MM74HC640			Signetics	74HC75				ALN3054			SiliconG	SG3527A (3642)		
	Signetics	74HC640			TI	SN74HC75				LM3054			TeledyneS	TSC35C27A		
	TI	SN74HC640			Toshiba	TC74HC75A (3674)			SFC2086	Allegro			TI	SG3527		
	Toshiba	TC74HC640A (3674)		M74HC76	Harris	CD74HC76				Micro	ULN2086		Unitrode	UC3527A		
M74HC643	Harris	CD74HC643			Hitachi	HD74HC76			AD	OP06		ST93CS46	Catalyst			
	Hitachi	HD74HC643			Motorola	MC74HC76				MC1709			Semi	CAT59C11A (3351)		
	National	MM74HC643			National	MM74HC76				MC1709				CAT93C46 (3351)		
	Signetics	74HC643			TI	SN74HC76				LM1709				CAT93C46A (3351)		
	TI	SN74HC643			Toshiba	TC74HC76A (3674)				LM709			EXEL	XL93C46 (3396)		
	Toshiba	TC74HC643A (3674)		M74HC77	Hitachi	HD74HC77				MC555				XL93C46 (3396)		
M74HC646	Harris	CD74HC646			National	MM74HC77				PC555			Hyundai	HY93C46 (3475)		
	Motorola	MC74HC646			TI	SN74HC77				MC78L12			ICT	93C46 (3505)		
	National	MM74HC646			Toshiba	TC74HC77A (3674)				MC78L12				93C46C (3505)		
	Signetics	74HC646			Hitachi	HD74HC77				MC78L12A			Microchip	ER5911		
	TI	SN74HC646			Motorola	MC74HC85				LM340A-12			National	COP495		
	Toshiba	TC74HC646A (3674)		M74HC85	Signetics	74HC85				LM78L12				NMC93CS46		
M74HC648	Harris	CD74HC648			TI	SN74HC85				MC78L12AC				NMC93C46		
	Motorola	MC74HC648			Toshiba	TC74HC85A (3674)				MC78L12				NMC9345		
	National	MM74HC648			Hitachi	HD74HC86				TA78L012				NMC9346		
	Signetics	74HC648			Motorola	MC74HC86				TSC103-1.8				9346		
	TI	SN74HC648			National	MM74HC86			SG103-1.8	XR1524			OKI	MSM16811		
	Toshiba	TC74HC648A (3674)			Signetics	74HC86			SG1524	LT1524				MSM16811RS		
M74HC651	Harris	CD74HC651			TI	SN74HC86				LinearTech	SG1524			MSM16911		
	TI	SN74HC651			Toshiba	TC74HC86A (3674)				National	LM1524			ROHM	BR93C46	
	Toshiba	TC74HC651A (3674)		M93C06	Lansdale	ML9306			SiliconG	SG1524 (3642)			SGS-Thomson	M9346		
M74HC652	Harris	CD74HC652		M9346						UC1524				ST93CS47		
	TI	SN74HC652							Unitrode	UC1524A				TS93C46A		
	Toshiba	TC74HC652A (3674)			EXEL	XL93C46				UC1524A				SC22011		
M74HC670	Harris	CD74HC670				XL93C46 (3396)			SG1527	LT1527		ST93CS47	Sierra	CAT59C11A (3351)		
	Signetics	74HC670				XL93C46 (3396)				LT1527A			Semi	CAT93C46 (3351)		
	Toshiba	TC74HC670A (3674)				HY93C46 (3475)				SG1527A				CAT93C46A (3351)		
M74HC688	Harris	CD74HC688				93C46 (3505)				SG1527A			EXEL	XL93C46		
	Motorola	MC74HC688				93C46C (3505)				TSC15C27A				XL93C46 (3396)		
	National	MM74HC688								TL1527				HY93C46 (3475)		
	Signetics	74HC688								UC1527				93C46 (3505)		
	TI	SN74HC688								UC1527A				93C46C (3505)		
	Toshiba	TC74HC688A (3674)								SG1626			Microchip	ER5911		
		(Continued)								SG2626			National	COP495		
										SG3626				NMC93CS46		
										XR2524				NMC93C46		
										LT2524				NMC9345		
										SG2524				NMC9346		
										LM2524				9346		
										(Continued)				(Continued)		

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
SGS-THOMSON (Cont'd)				TL081	AD	OP16		TS93C46A			(Cont'd)	T54LS136	Motorola	SN54LS136	
ST93CS47		(Cont'd)			SGS-Thomson	LF351			Microchip	ER5911			National	DM54LS136	
	OKI	MSM16811		TL082	Exar	XR082			National	COP495			TI	SN54LS136	
		MSM16811RS			Fujitsu	MB40547-7				NMC93CS46		T54LS138	Motorola	SN54LS138	
		MSM16911				MB47082				NMC9345			National	DM54LS138	
	ROHM	BR93C46			SGS-Thomson					NMC9346				54LS138	
	SGS-Thomson	M9346				LF353			OKI	MSM16811			Signetics	54LS138	
		ST93CS46			TI	HA17082				MSM16811RS		T54LS139	Motorola	SN54LS138	
		TS93C46A		TL084	Exar	XR084				MSM16911			National	DM54LS139	
	Sierra	SC22011			National	μAF774			ROHM	BR93C46				54LS139	
ST93CS56	National	NMC93CS56			TI	TL084			SGS-Thomson				TI	SN54LS139A	
	SGS-Thomson			TL74LS133	Motorola	SN74LS133				M9346		T54LS14	Motorola	SN54LS14	
ST93CS57	National	NMC93CS56			National	74LS133				ST93CS46			National	DM54LS14	
	SGS-Thomson				SGS-Thomson				Sierra	SC22011				54LS14	
		ST93CS56		TL7702	TI	T74LS133			Motorola	SN54LS00			Signetics	54LS14	
	Exar	XR4739		TL7705	TI	TL7702		T54LS00	National	DM54LS00			TI	SN54LS14	
TBA231	National	μA739		TS27C64A	ATMEL	AT27HC64				54LS00		T54LS15	Motorola	SN54LS15	
		μA749			Intel	M27C64			Signetics	54LS00			National	DM54LS15	
		LM1303			Krueger	27C64-200 (3513)			TI	SN54LS00				54LS15	
TBA2540	Plessey	TDA2540				27C64-250 (3513)			Motorola	SN54LS02			TI	SN54LS15	
• TBA331	Motorola	MC3346				27C64-300 (3513)		T54LS02	National	DM54LS02			Motorola	SN54LS151	
	Plessey	SL3046								54LS02			National	DM54LS151	
		SL3086							Signetics	54LS02				54LS151	
		SL3146							TI	SN54LS02			TI	SN54LS151	
• TBA331	SGS-Thomson				Microchip	27C64			Motorola	SN54LS03			Cypress	CY7B166	
		CA3046			National	NMC27C64			National	DM54LS03				CY7C166	
		LM3046			OKI	MSM27C64				54LS03				MB82B75	
		SFC2046			S-MOS	SPM27C64			TI	SN54LS03				HM6789P	
• TBA800	National	TBA800			Signetics	27C64			Motorola	SN54LS04			Hitachi	IDT6198	
	Plessey	TBA800			TI	TMS27C64			National	DM54LS04			IDT	L7C164	
TBA810	National	TBA810			VLSI Tech	TMS27PC64				54LS04			LogicDev	L7C165	
TBA820	MCE	MCE820		TS27L2	AD	OP290				SN54LS04				L7C166	
	TI	SN76001			TI	TLC27L2			Signetics	54LS04					
TBA920	Plessey	TBA920		TS27L4	AD	OP490			TI	SN54LS04					
• TDA1170	AEG Corp	TDA1170			TI	TLC1079			Motorola	SN54LS05				Mitsubishi	M5M5189P
	National	μA7327				TLC27L4			National	DM54LS05					
TDA1190Z	Samsung	KA2102A				TLC27L9				54LS05			Motorola	MCM6290	
	SGS-Thomson					TLC27M2			TI	SN54LS05			National	54LS152	
		TDA3190		TS27M2	Harris	CA5260			Motorola	SN54LS08			NEC	μPD4363	
		CY2901C			TI	TLC27M2			National	DM54LS08			Performance	P4C190	
	Waferscale	WS5901 (3717)		TS27M4	TI	TLC27M4				54LS08			S-MOS	SRM2275	
TDA2002	NEC	μPC2002		TS271	AD	OP22			Signetics	54LS08			Saratoga	SSM7166	
TDA2003	National	TDA2003				OP43			TI	SN54LS08			SGS-Thomson		
TDA2030	AEG Corp	TDA2030			Harris	ICL7611			Motorola	SN54LS09				IMS1624	
	MicroLinear	ML510				ICL8021			National	DM54LS09			Sony	CXK5465P	
TDA2541	Elantec	EL2020				LM4250				54LS09			Toshiba	TC55417	
		EL2041				ICL7611			TI	SN54LS09			Vitellic	V61C62	
	Harris	HA2541			Maxim	MC1776			Motorola	SN54LS10			VLSI Tech	VT65KS4	
	Plessey	TDA2541			Motorola	MC3476			National	DM54LS10			Motorola	SN54LS153	
	Sipex-HSD	SP2541			National	μA776				54LS10			National	54LS153	
TDA2593	AEG Corp	TDA2593			SGS-Thomson	μA776			SGS-Thomson	54LS10			TI	SN54LS153	
	National	TDA2593				TLC251			Signetics	54LS10			Motorola	SN54LS155	
	Plessey	TDA2593			TI	TLC271			TI	SN54LS10			National	DM54LS155	
	Signetics	TDA2593				TLC271			Motorola	SN54LS109				54LS155	
TDA3190	Samsung	KA2102A				TL061			National	DM54LS109			TI	SN54LS155A	
	SGS-Thomson			TS272	AD	OP220				54LS109			Motorola	SN54LS156	
		TDA1190Z			Fujitsu	MB47358			Signetics	54LS109			National	DM54LS156	
TDA440	National	TDA440			Harris	CA358A			TI	SN54LS109A				54LS156	
	Plessey	TDA440				CA5260AX			Motorola	SN54LS11			TI	SN54LS156	
TDB0117	GoldStar	GL317				HA5142			National	DM54LS11			Motorola	SN54LS157	
• TDB2905	Motorola	MC7952				MC3358				54LS11			National	DM54LS157	
	National	LM320-5				NE532			TI	SN54LS11				54LS157	
	SGS-Thomson					TLC252			Motorola	MC54LS112A			TI	SN54LS157	
		L7952				TLC272			National	54LS112			Motorola	SN54LS158	
TL062	Harris	HA5152				TLE2022				SN54LS112A			National	DM54LS158	
	National	LF442		TS274	Harris	CA5470			TI	SN54LS113				54LS158	
	Samsung	KF442			TI	TLC254			National	54LS114			TI	SN54LS158	
	TI	TL022		TS372	AdvLinear	ALD2301			Motorola	SN54LS125			Motorola	SN54LS160A	
		TL062			TI	TLC372				DM54LS125			National	54LS160A	
TL064	Toshiba	TA75062		TS374	TI	TLC374			National	54LS125A			TI	SN54LS160A	
	AD	OP420		TS4LS393	TI	SN54LS399				54LS125A			Motorola	SN54LS161A	
		OP421		TS4164	SGS-Thomson				Signetics	54LS125			National	DM54LS161A	
	Fujitsu	MB3615				MKB4564				54LS125A				54LS161A	
	Harris	HA5144		TS68000	Krueger	68000 (3513)			TI	SN54LS125A			Signetics	54LS161A	
		HA5154			Motorola	MC68000			Motorola	SN54LS126			TI	SN54LS161A	
	TI	TL044			Signetics	SCN68000			National	DM54LS126			Motorola	SN54LS162A	
		TL064			Krueger	68008 (3513)				54LS126			National	DM54LS162A	
TL072	AnalogSys	MA336			Motorola	MC68008			SGS-Thomson	54LS126				54LS162A	
	Harris	CA3240		TS71191	National	DM77S191A			TI	SN54LS126A			TI	SN54LS162A	
		ICL8043		TS93C46A	Catalyst				Motorola	SN54LS13			Motorola	SN54LS163A	
	LinearTech	OP215			Semi	CAT59C11A (3351)			National	DM54LS13			National	DM54LS163A	
	Motorola	MC34002				CAT93C46 (3351)				54LS13				54LS163A	
		MC34072				CAT93C46A (3351)			TI	SN54LS13			Signetics	SN54LS163A	
	National	μA772				XL93CS46 (3396)			Motorola	SN54LS132			TI	SN54LS163A	
	TI	TL082C			EXEL	XL93C46 (3396)			National	DM54LS132			Motorola	SN54LS164	
	Toshiba	TA75072				HY93C46 (3475)			TI	SN54LS132			National	DM54LS164	
		TA75074			Hyundai	93C46 (3505)			Motorola	SN54LS133				54LS164	
TL074	Toshiba	TA75074			ICT	93C46C (3505)			National	54LS133			Signetics	54LS164	
													TI	SN54LS164	

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
SGS-THOMSON (Cont'd)				T54LS26	Motorola National	SN54LS26 DM54LS26 54LS26		T54LS37	Motorola National	SN54LS37 DM54LS37 54LS37		T74LS00	National	DM74LS00 74LS00	(Cont'd)
T54LS168	Motorola National	SN54LS168 DM54LS168 54LS168		T54LS260	TI	SN54LS26 SN54LS260A 54LS260		T54LS373	Motorola National Signetics	SN54LS37 SN54LS373 DM54LS373 54LS373		T74LS01	Panasonic Signetics TI	DM74LS00 74LS00 SN74LS00	
T54LS169	Motorola National	SN54LS169 DM54LS169 54LS169		T54LS266	Motorola National	SN54LS266 DM54LS266 54LS266		T54LS374	Motorola National	SN54LS373 SN54LS374 DM54LS374 54LS374		T74LS02	Hitachi Motorola National	HD74LS01 SN74LS01 74LS01 DM74LS01 74LS01	
T54LS170	TI National	SN54LS169B DM54LS170 54LS170		T54LS27	Motorola National	SN54LS266 SN54LS27 DM54LS27 54LS27		T54LS377	Signetics TI	SN54LS374 SN54LS377 DM54LS377 54LS377		T74LS03	Hitachi Motorola National	SN74LS01 HD74LS02 SN74LS02 DM74LS02 74LS02	
T54LS174	Motorola National	SN54LS174 DM54LS174 54LS174		T54LS273	TI	SN54LS27 SN54LS273 DM54LS273 54LS273		T54LS378	Motorola National	SN54LS377 SN54LS378 54LS378		T74LS04	Panasonic Signetics TI	DM74LS02 74LS02 SN74LS02	
T54LS175	Signetics TI	SN54LS174 SN54LS175 DM54LS175 54LS175		T54LS279	Motorola National	SN54LS273 SN54LS279 DM54LS279 54LS279		T54LS379	Signetics TI	SN54LS377 SN54LS378 54LS378		T74LS05	Hitachi Motorola National	SN74LS03 DM74LS03 74LS03	
T54LS181	Motorola National	SN54LS175 SN54LS181 54LS181		T54LS28	TI	SN54LS279A SN54LS28 54LS28		T54LS38	Motorola National	SN54LS379 54LS379		T74LS08	Panasonic Signetics TI	SN74LS03 DM74LS03 74LS03	
T54LS190	TI	SN54LS181 SN54LS190 SN54LS190		T54LS280	Motorola National	SN54LS28 SN54LS280 SN54LS280		T54LS39	TI	SN54LS38 DM54LS38 54LS38		T74LS09	Hitachi Motorola National	SN74LS04 DM74LS04 74LS04	
T54LS191	Motorola National	SN54LS190 SN54LS191 DM54LS191 54LS191		T54LS283	TI	SN54LS280 SN54LS283 DM54LS283 54LS283		T54LS390	Motorola National	SN54LS38 SN54LS390 SN54LS390		T74LS10	Panasonic Signetics TI	SN74LS04 DM74LS04 74LS04	
T54LS192	Signetics TI	SN54LS191 SN54LS192 DM54LS192 54LS192		T54LS290	Motorola National	SN54LS283 SN54LS290 DM54LS290 54LS290		T54LS393	TI	SN54LS390 SN54LS393 54LS393		T74LS109	Hitachi Motorola National	SN74LS05 DM74LS05 74LS05	
T54LS193	TI	SN54LS192 SN54LS193 DM54LS193 54LS193		T54LS293	Motorola National	SN54LS290 SN54LS293 DM54LS293 54LS293		T54LS395	Signetics TI	SN54LS393 SN54LS395 54LS395		T74LS11	Panasonic Signetics TI	SN74LS05 DM74LS05 74LS05	
T54LS194	Motorola National	SN54LS193 SN54LS194A 54LS194A		T54LS295	TI	SN54LS293 SN54LS295A 54LS295A		T54LS40	Motorola National	SN54LS395A SN54LS40 DM54LS40 54LS40		T74LS12	Hitachi Motorola National	SN74LS06 DM74LS06 74LS06	
T54LS195	Signetics TI	SN54LS194A SN54LS195A DM54LS195A 54LS195A		T54LS298	Motorola National	SN54LS295A SN54LS298 DM54LS298 54LS298		T54LS42	TI	SN54LS40 SN54LS42 DM54LS42 54LS42		T74LS13	Panasonic Signetics TI	SN74LS08 DM74LS08 74LS08	
T54LS196	TI	SN54LS195A SN54LS196 DM54LS196 54LS196		T54LS30	SGS-Thomson TI	SN54LS298 SN54LS298 SN54LS30 DM54LS30 54LS30		T54LS490	Motorola National	SN54LS42 SN54LS490 54LS490		T74LS14	Hitachi Motorola National	SN74LS08 DM74LS08 74LS08	
T54LS197	Motorola National	SN54LS196 SN54LS197 DM54LS197 54LS197		T54LS32	Motorola National	SN54LS298 SN54LS30 DM54LS30 54LS30		T54LS51	TI	SN54LS40 SN54LS490 54LS490		T74LS15	Panasonic Signetics TI	SN74LS09 DM74LS09 74LS09	
T54LS20	TI	SN54LS197 SN54LS197 SN54LS20 DM54LS20 54LS20		T54LS33	TI	SN54LS32 DM54LS32 54LS32		T54LS54	Motorola National	SN54LS51 SN54LS54 DM54LS54 54LS54		T74LS16	Hitachi Motorola National	SN74LS09 DM74LS09 74LS09	
T54LS21	Motorola National	SN54LS20 SN54LS21 DM54LS21 54LS21		T54LS352	Motorola National	SN54LS33 SN54LS352 DM54LS352 54LS352		T54LS55	TI	SN54LS54 SN54LS55 DM54LS55 54LS55		T74LS17	Panasonic Signetics TI	SN74LS10 DM74LS10 74LS10	
T54LS22	TI	SN54LS21 SN54LS22 DM54LS22 54LS22		T54LS353	TI	SN54LS352 SN54LS353 DM54LS353 54LS353		T54LS670	Motorola National	SN54LS55 SN54LS670 DM54LS670 54LS670		T74LS18	Hitachi Motorola National	SN74LS10 DM74LS10 74LS10	
T54LS240	Motorola National	SN54LS22 SN54LS240 54LS240		T54LS354	SGS-Thomson TI	SN54LS352 SN54LS353 DM54LS353 54LS353		T54LS74	TI	SN54LS670 SN54LS74A DM54LS74A 54LS74A		T74LS19	Panasonic Signetics TI	SN74LS11 DM74LS11 74LS11	
T54LS241	TI	SN54LS240 SN54LS241 54LS241		T54LS365	Motorola National	SN54LS353 SN54LS353 DM54LS353 54LS353		T54LS83	Motorola National	SN54LS74A SN54LS83A DM54LS83A 54LS83A		T74LS20	Hitachi Motorola National	SN74LS11 DM74LS11 74LS11	
T54LS244	Motorola National	SN54LS241 SN54LS244 54LS244		T54LS366	SGS-Thomson TI	SN54LS353 SN54LS353 DM54LS353 54LS353		T54LS86	Signetics TI	SN54LS83A SN54LS86A DM54LS86A 54LS86A		T74LS21	Panasonic Signetics TI	SN74LS12 DM74LS12 74LS12	
T54LS251	TI	SN54LS244 SN54LS251 54LS251		T54LS367	Motorola National	SN54LS365A SN54LS366A DM54LS366A 54LS366A		T54LS90	Motorola National	SN54LS86A SN54LS86 DM54LS86 54LS86		T74LS22	Hitachi Motorola National	SN74LS12 DM74LS12 74LS12	
T54LS253	Motorola National	SN54LS251 SN54LS253 DM54LS253 DM7214 54LS253		T54LS368	TI	SN54LS366A SN54LS367A DM54LS367A 54LS367A		T54LS92	TI	SN54LS86A SN54LS90 DM54LS90 54LS90		T74LS23	Panasonic Signetics TI	SN74LS13 DM74LS13 74LS13	
T54LS256	TI	SN54LS253 SN54LS256 54LS256		T54LS37	Motorola National	SN54LS366A SN54LS367A DM54LS367A 54LS367A		T54LS93	Motorola National	SN54LS92 SN54LS92 DM54LS92 54LS92		T74LS24	Hitachi Motorola National	SN74LS13 DM74LS13 74LS13	
T54LS257	Motorola National	SN54LS257A DM54LS257 54LS257A		T54LS38	Signetics TI	SN54LS367A SN54LS368A DM54LS368A 54LS368A		T54LS95	TI	SN54LS93 SN54LS95B DM54LS95B 54LS95B		T74LS25	Panasonic Signetics TI	SN74LS14 DM74LS14 74LS14	
T54LS259	TI	SN54LS257B SN54LS259 54LS259		T54LS38A	Motorola National	SN54LS368A SN54LS368A DM54LS368A 54LS368A		T74LS00	Hitachi Motorola	SN54LS95B SN54LS95B DM74LS00 SN74LS00		T74LS26	Hitachi Motorola	SN74LS14A DM74LS14A 74LS14A SN74LS12	
		SN54LS259B			TI	SN54LS368A	(Continued)				(Continued)				(Continued)

* Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
SGS-THOMSON (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
T74LS12	National	DM74LS12	(Cont'd)	T74LS155	National	DM74LS155	(Cont'd)	T74LS174	Panasonic	DN74LS174	(Cont'd)	T74LS22	National	DM74LS22	(Cont'd)
	Panasonic	DN74LS12			Panasonic	DN74LS155			Signetics	74LS174			Panasonic	DN74LS22	
	Signetics	74LS12			Signetics	74LS155		T74LS175	TI	SN74LS174		T74LS240	Hitachi	HD74LS240	
	TI	SN74LS12		T74LS156	Hitachi	HD74LS156			Hitachi	HD74LS175			Motorola	SN74LS240	
T74LS125	Motorola	SN74LS125A			Motorola	SN74LS156			Motorola	SN74LS175			National	74LS240	
	National	DM74LS125			National	DM74LS156			National	74LS175			Panasonic	DN74LS240	
		74LS125A				74LS156			Panasonic	DN74LS175			Signetics	74LS240	
	Panasonic	DN74LS125A			Panasonic	DN74LS156		T74LS181	TI	SN74LS175		T74LS241	TI	SN74LS240	
	Signetics	74LS125A			Signetics	74LS156			Hitachi	HD74LS181			Hitachi	HD74LS241	
	TI	SN74LS125A		T74LS157	TI	SN74LS156			Motorola	SN74LS181			Motorola	SN74LS241	
T74LS126	Motorola	SN74LS126A			Hitachi	HD74LS157			National	74LS181			National	74LS241	
	National	DM74LS126			Motorola	SN74LS157		T74LS190	TI	SN74LS181			Panasonic	DN74LS241	
		74LS126			National	DM74LS157			Hitachi	HD74LS190			Signetics	74LS241	
	Signetics	74LS126A				74LS157			Motorola	SN74LS190		T74LS244	TI	SN74LS241	
	TI	SN74LS126A			Panasonic	DN74LS157			National	DN74LS190			Hitachi	HD74LS244	
T74LS13	Hitachi	HD74LS13			Signetics	74LS157			Panasonic	DN74LS190			Motorola	SN74LS244	
	Motorola	SN74LS13		T74LS158	TI	SN74LS157		T74LS191	TI	SN74LS190			National	74LS244	
	National	DM74LS13			Hitachi	HD74LS158			Hitachi	HD74LS191			Panasonic	DN74LS244	
		74LS13			Motorola	SN74LS158			Motorola	SN74LS191		T74LS245	TI	SN74LS244	
	Panasonic	DN74LS13			National	DM74LS158			National	DM74LS191			Motorola	SN74LS245	
	Signetics	74LS13				74LS158				74LS191			National	DM74LS245	
	TI	SN74LS13			Panasonic	DN74LS158			Panasonic	DN74LS191			Signetics	74LS245	
T74LS132	Hitachi	HD74LS132			Signetics	74LS158			Signetics	74LS191		T74LS248	TI	SN74LS245	
	Motorola	SN74LS132		T74LS160	TI	SN74LS158			TI	SN74LS191			Hitachi	HD74LS248	
	National	DM74LS132			Hitachi	HD74LS160A			Hitachi	HD74LS192			Motorola	SN74LS248	
		74LS132			Motorola	SN74LS160A		T74LS192	Motorola	SN74LS192			National	DM74LS248	
	Panasonic	DN74LS132			National	DM74LS160			National	DM74LS192				74LS248	
	Signetics	74LS132				74LS160				74LS192		T74LS249	Hitachi	HD74LS249	
	TI	SN74LS132			Panasonic	DN74LS160A			Panasonic	DN74LS192			Motorola	SN74LS249	
T74LS133	Motorola	SN74LS133			Signetics	74LS160			Signetics	74LS192			National	DM74LS249	
	National	74LS133				74LS160A			TI	SN74LS192				74LS249	
	SGS-Thomson	TL74LS133		T74LS161	TI	SN74LS160A			Hitachi	HD74LS193		T74LS251	Hitachi	HD74LS251	
		HD74LS136			Hitachi	HD74LS161A			Hitachi	HD74LS193			Motorola	SN74LS251	
T74LS136	Hitachi	HD74LS136			Motorola	SN74LS161A		T74LS193	Motorola	SN74LS193			National	DM74LS251	
	Motorola	SN74LS136			National	DM74LS161			National	DM74LS193				74LS251	
	National	DM74LS136				74LS161A				74LS193			Panasonic	DN74LS251	
		74LS136			Panasonic	DN74LS161A			Panasonic	DN74LS193			Signetics	74LS251	
	Panasonic	DN74LS136			Signetics	74LS161A			Signetics	74LS193			TI	SN74LS251	
	Signetics	74LS136		T74LS162	TI	SN74LS161A			TI	SN74LS193		T74LS253	Hitachi	HD74LS253	
	TI	SN74LS136			Hitachi	HD74LS162A			Hitachi	HD74LS194A			Motorola	SN74LS253	
T74LS138	Hitachi	HD74LS138			Motorola	SN74LS162A			Motorola	SN74LS194A			National	DM74LS253	
	Motorola	SN74LS138			National	DM74LS162			National	DM74LS194				DM8214	
	National	DM74LS138				74LS162				74LS194A				74LS253	
		74LS138			Panasonic	DN74LS162A			Panasonic	DN74LS194A			Panasonic	DN74LS253	
	Panasonic	DN74LS138			Signetics	74LS162A			Signetics	74LS194A			Signetics	74LS253	
	Signetics	74LS138		T74LS163	TI	SN74LS162A			TI	SN74LS194A			TI	SN74LS253	
	TI	SN74LS138			Hitachi	HD74LS163		T74LS195A	GoldStar	GL7924			Motorola	SN74LS256	
T74LS139	Hitachi	HD74LS139			Motorola	SN74LS163A			Hitachi	HD74LS195A			National	74LS256	
	Motorola	SN74LS139			National	DM74LS163			Motorola	MC719924			Signetics	74LS256	
	National	DM74LS139				74LS163				MC7924			TI	SN74LS256	
		74LS139			Panasonic	DN74LS163A			National	SN74LS195A			Hitachi	HD74LS257	
	Panasonic	DN74LS139			Signetics	74LS163A				μA7924			Motorola	SN74LS257A	
	Signetics	74LS139			TI	SN74LS163A				DM74LS195			National	DM74LS257	
	TI	SN74LS139A		T74LS164	Hitachi	HD74LS164				LM7924				74LS257A	
T74LS14	Hitachi	HD74LS14			Motorola	SN74LS164A				74LS195A			Signetics	74LS257	
	Motorola	SN74LS14			National	DM74LS164			Panasonic	DN74LS195A				74LS257	
	National	DM74LS14				74LS164			Samsung	MC7924C				74LS257A	
		74LS14			Panasonic	DN74LS164			SGS-Thomson				TI	SN74LS257B	
	Panasonic	DN74LS14			Signetics	74LS164				L7924			Hitachi	HD74LS258	
	Signetics	74LS14				74LS164A				μA7924			Motorola	SN74LS258A	
	TI	SN74LS14			TI	SN74LS164				SN74LS195A			National	DM74LS258	
T74LS148	Hitachi	HD74LS148			Motorola	SN74LS165			Toshiba	TA79024				74LS258A	
	Motorola	SN74LS148		T74LS165	National	74LS165			Motorola	SN74LS196			Panasonic	DN74LS258A	
	TI	SN74LS148			TI	SN74LS165A			National	DM74LS196			Signetics	74LS258	
T74LS15	Motorola	SN74LS15			Motorola	SN74LS166				74LS196			TI	SN74LS258B	
	National	DM74LS15		T74LS166	National	DM74LS166			Panasonic	DN74LS196			Motorola	SN74LS259	
		74LS15			TI	SN74LS166A			Signetics	N82S80			National	74LS259	
	Panasonic	DN74LS15			Motorola	SN74LS168			TI	SN74LS196			TI	SN74LS259B	
	TI	SN74LS15		T74LS168	National	DM74LS168			Motorola	SN74LS197				HD74LS26	
T74LS151	Hitachi	HD74LS151			Motorola	SN74LS169			National	DM74LS197			Hitachi	HD74LS26	
		HD74LS151A		T74LS169	National	DM74LS169				74LS197			Motorola	SN74LS26	
	Motorola	SN74LS151				74LS169			Panasonic	DN74LS197			National	DM74LS26	
	National	DM74LS151			Signetics	74LS169A			Signetics	74LS197				74LS26	
		74LS151			TI	SN74LS169			TI	SN74LS197			Panasonic	DN74LS26	
	Panasonic	DN74LS151			TI	SN74LS169			Hitachi	HD74LS20			Signetics	74LS26	
	Signetics	74LS151		T74LS170	Motorola	SN74LS170			Motorola	SN74LS20			TI	SN74LS26	
	TI	SN74LS151			National	DM74LS170			National	DM74LS20			Panasonic	DN74LS260	
T74LS152	Hitachi	HD74LS152				74LS170				74LS20			Signetics	74LS260	
	Signetics	74LS152			Panasonic	DN74LS170			Panasonic	DN74LS20			TI	SN74LS260	
	TI	SN74LS152		T74LS173	TI	SN74LS170			Signetics	74LS20				ML8242	
T74LS153	Hitachi	HD74LS153			Motorola	SN74LS173A			TI	SN74LS20			Motorola	SN74LS266	
	Motorola	SN74LS153			National	DM74LS173			Hitachi	HD74LS21			National	DM74LS266	
	National	DM74LS153				74LS173			Motorola	SN74LS21				74LS266	
		74LS153			Panasonic	DN74LS173			National	DM74LS21			Panasonic	DN74LS266	
	Panasonic	DN74LS153			Signetics	74LS173				74LS21			Signetics	74LS266	
	Signetics	74LS153			TI	SN74LS173A			Panasonic	DN74LS21			TI	SN74LS266	
	TI	SN74LS153		T74LS174	Hitachi	HD74LS174			Signetics	74LS21			Hitachi	HD74LS27	
T74LS155	Hitachi	HD74LS155			Motorola	SN74LS174			TI	SN74LS21			Motorola	SN74LS27	
	Motorola	SN74LS155			National	DM74LS174			Hitachi	HD74LS22			National	DM74LS27	
		74LS155				74LS174			Motorola	SN74LS22				74LS27	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
SGS-THOMSON (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
T74LS27	Panasonic Signetics TI	DN74LS27 74LS27 SN74LS27	(Cont'd)	T74LS365A	Panasonic SGS-Thomson	DN74LS365A 74LS365 74LS365A	(Cont'd)	T74LS395	Panasonic Signetics TI	DN74LS395A 74LS395 SN74LS395A	(Cont'd)	T74LS83	Panasonic Signetics TI	DN74LS83A 74LS83A SN74LS83A	(Cont'd)
T74LS273	Motorola National Signetics TI	SN74LS273 74LS273 SN74LS273		T74LS366	Motorola National	SN74LS366A DM74LS366 74LS366A		T74LS398	Motorola TI	SN74LS398 SN74LS398		T74LS86	Hitachi Motorola National	HD74LS86 SN74LS86 DM74LS86	
T74LS279	Hitachi Motorola National	HD74LS279 SN74LS279 DM74LS279		T74LS366A	Panasonic SGS-Thomson	DN74LS366A 74LS366A 74LS366A		T74LS40	Hitachi Motorola National	HD74LS40 SN74LS40 DM74LS40		T74LS90	Panasonic Signetics TI	DN74LS90 74LS90 SN74LS90	
T74LS28	Panasonic Signetics TI	DN74LS28 74LS28 SN74LS28		T74LS367	Motorola National	SN74LS367A DM74LS367 74LS367A		T74LS42	Panasonic TI	DN74LS42 74LS42 SN74LS42		T74LS92	Panasonic Signetics TI	DN74LS92 74LS92 SN74LS92	
T74LS280	Hitachi Motorola Panasonic TI	HD74LS280 SN74LS280 DM74LS280		T74LS367A	Motorola National	SN74LS367A DM74LS367 74LS367A		T74LS47	Hitachi Motorola National	HD74LS47 SN74LS47 DM74LS47		T74LS93	Hitachi Motorola National	HD74LS93 SN74LS93 DM74LS93	
T74LS283	Hitachi Motorola National	HD74LS283 SN74LS283 DM74LS283		T74LS368	Panasonic SGS-Thomson	DN74LS368A 74LS368 74LS368A		T74LS48	TI	SN74LS48 SN74LS48		T74LS95	Hitachi Motorola National	HD74LS95B SN74LS95B DM74LS95B	
T74LS290	Panasonic Signetics TI	DN74LS290 74LS290 SN74LS290		T74LS37	Motorola National	SN74LS37 DM74LS37 74LS37		T74LS49	Signetics TI	74LS49 SN74LS49		T74LS95B	Panasonic SGS-Thomson	DN74LS95B 74LS95B SN74LS95B	
T74LS292	Hitachi Motorola National	HD74LS292 SN74LS292 DM74LS292		T74LS373	Panasonic Signetics TI	SN74LS373 74LS373 SN74LS373		T74LS534	Motorola National	SN74LS534 DM74LS534 74LS534		UC1844	Motorola TeledyneS Unitorde	UC1844A TSC18C44 UC1844	
T74LS295A	Panasonic Signetics TI	DN74LS295A 74LS295A SN74LS295B		T74LS377	Motorola National	SN74LS377 DM74LS377 74LS377		T74LS54	Hitachi Motorola National	HD74LS54 SN74LS54 DM74LS54		UC2840	SiliconG Unitorde	UC2840 CS2842A	(3642)
T74LS298	Hitachi Motorola National	HD74LS298 SN74LS298 74LS298		T74LS378	Motorola National	SN74LS378 74LS378 SN74LS378		T74LS540	Motorola National	SN74LS540 DM74LS540 74LS540		UC2842	Cherry Semi Gennum SiliconG	UC2842 LS2842 SG2842	(3642)
T74LS299	Motorola National	SN74LS299 74LS299 SN74LS299		T74LS379	Motorola National	SN74LS379 DM74LS379 74LS379		T74LS541	Motorola Signetics TI	SN74LS541 74LS541 SN74LS541		UC2843	TeledyneS Unitorde	TSC28C42 UC2842	
T74LS30	Hitachi Motorola National	HD74LS30 SN74LS30 DM74LS30		T74LS38	Hitachi Motorola National	HD74LS38 SN74LS38 DM74LS38		T74LS55	Hitachi Motorola National	HD74LS55 SN74LS55 DM74LS55		UC2843	Cherry Semi SiliconG	CS2843A SG2843	(3642)
T74LS32	Panasonic Signetics TI	DN74LS32 74LS32 SN74LS32		T74LS387	Motorola National	SN74LS387 74LS387 SN74LS387		T74LS555	Panasonic TI	SN74LS555 DM74LS555 74LS555		UC3840	Unitorde	UC3840	
T74LS33	Motorola National	SN74LS33 74LS33 SN74LS33		T74LS390	Motorola National	SN74LS390 DM74LS390 74LS390		T74LS5645	Motorola Signetics	SN74LS645-1 74LS645 SN74LS645		UC3842	Motorola SiliconG	UC3842 SG3842	(3642)
T74LS352	Motorola National	SN74LS352 DM74LS352 74LS352		T74LS393	Motorola National	SN74LS393 DM74LS393 74LS393		T74LS670	Motorola National	SN74LS670 DM74LS670 74LS670		UC3843	TeledyneS Unitorde	TSC38C42 UC3842	
T74LS353	TI	SN74LS353 74LS353 SN74LS353		T74LS395	Panasonic SGS-Thomson	DN74LS395A 74LS395A SN74LS395A		T74LS74	Hitachi Motorola National	HD74LS74 SN74LS74 DM74LS74		UC3846	Cherry Semi Motorola	CS3843A UC3843A	(3642)
T74LS365	Motorola National	SN74LS365A DM74LS365 74LS365A		T74LS396	Motorola National	SN74LS396 DM74LS396 74LS396		T74LS75	Motorola National	SN74LS75 DM74LS75 74LS75		UC3847	SiliconG Unitorde	UC3847 SG3847	(3642)
T74LS365A	Motorola National	SN74LS365A DM74LS365 74LS365A		T74LS399	Motorola National	SN74LS399 DM74LS399 74LS399		T74LS83	Hitachi Motorola National	HD74LS83A SN74LS83A DM74LS83A		ULN2001	Allegro Micro	ULN2001 ULQ2001 ULS2001	

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
SGS-THOMSON (Cont'd)				ULN2804	Allegro Micro	ULN2804 ULS2804 ULN2804 SG2804 (3642)		Z84C00	GoldStar SGS-Thomson	Z8400 Z80ACPU Z80ACTC Z8400 LH0080 TMPZ84C00 Z84C00 Z8400		Z8470	GoldStar SGS-Thomson	Z8470 Z80ADART Z80DART Z80-DART Z8470 Z8530 CA85C30 (3569) KS85C30 Z8530	
ULN2002	Allegro Micro	ULN2002 ULS2002 XR2002C XR2202		ULN2805	Motorola SiliconG Toshiba Allegro Micro	ULN2805 SG2805 (3642) SG2805 (3642) μ A9668 Z8 GoldStar Z8400 SGS-Thomson		Z84C10	Sharp Toshiba Zilog	TMPZ84C10 Z84C10 Z8410 TMPZ84C20 Z84C20 TMPZ84C30 Z84C30		Z8530	AMD Newbridge Samsung Zilog	Z8531 Zilog Z86E21 Zilog Z86R91 Zilog Z8600 Zilog Z8601 Sharp	
ULN2003	Motorola SiliconG TI Mitsubishi	ULN2002 SG2002 (3643) ULN2002 M52523 M54523 MC1413 μ A9667 MC1413 KA2657 LB1233 SN75478 ULN2003 TD62003 TD62103		ULQ2004	National Zilog	Z8 GoldStar Z8400 SGS-Thomson		Z84C20	Toshiba Zilog	TMPZ84C20 Z84C20		Z8531	Zilog	Z86E21 Zilog Z86R91 Zilog Z8600 Zilog Z8601 Sharp	
ULN2004	Allegro Micro	ULN2004 ULS2004 XR2204 ULN2004 SG2004 (3643) ULN2004 ULN2004A		Z80ACTC	GoldStar SGS-Thomson	Z8430 Z80CTC Z8430 LH0082 Z80-CTC Z8430 Z8400		Z84C30	Toshiba Zilog	TMPZ84C30 Z84C30		Z8610	Zilog	Z8610 Zilog Z8611 Sharp	
ULN2064	Allegro Micro	ULN2064 M54532 ULN2064 SN75064 ULN2064 TA75064 TD62064		Z80ADART	GoldStar SGS-Thomson	Z8470 Z80DART Z8470 Z80-DART Z8470 Z8440		Z84C40	Toshiba Zilog	TMPZ84C40 Z84C40		Z8611	Zilog	Z8611 Zilog Z8612 Zilog Z8671 Zilog Z8681 Sharp	
ULN2065	Allegro Micro	ULN2065 ULN2065 SG2065 (3642) SN75065 ULN2065 ULN2066 SG2066 (3642) SN75066 ULN2066		Z80ASIO	GoldStar SGS-Thomson	Z8440 MK3886 Z80SIO Z8440 Z8441 Z8442 LH0084 LH0085 LH0086 Z80-SIO Z8440 Z8441 Z8442		Z8410	SGS-Thomson	Z80DMA LH0083 Z80-DMA Z8410 Z8420		Z8681	Zilog	Z8681 Zilog Z8682 Zilog Z8682 AMD AT27C1024 ATMEL AT27HC1024	
ULN2066	Motorola SiliconG TI	ULN2066 SG2066 (3642) SN75066 ULN2066		Z80CTC	GoldStar SGS-Thomson	Z8430 Z80ACTC Z8430 LH0082 Z80-CTC Z8430		Z8420	GoldStar SGS-Thomson	Z8420 Z80PIO LH0081 Z80-PIO Z8420 Z8430		4801	Signetics Krueger	M27C1024 27C210 DPV27C1024A MBM27C1024 HN27C1024 HN27C1024G 27C210 27C1024 μ PD27C1024 NMC27C1024 μ PD27C1024A MSM27C1024	
ULN2067	Motorola SiliconG TI	ULN2067 SG2067 (3642) SN75067 ULN2067		Z80DART	GoldStar SGS-Thomson	Z8470 Z80ADART Z8470 Z80-DART Z8470		Z8430	GoldStar SGS-Thomson	Z8430 Z80ACTC Z80CTC LH0082 Z80-CTC Z8430		5089	National Samsung	TP5089 KS5808 MK5089 LR4089 STC TCM5089 TI TCM5094	
ULN2068	Allegro Micro	ULN2068 ULN2068 SG2068 (3642) SN75068 ULN2068		Z80DMA	SGS-Thomson	Z8410 LH0083 Z80-DMA Z8410 Z8420		Z8440	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8441 Z8442 LH0084 LH0085 LH0086		5094	TI	TCM5094	
ULN2069	Allegro Micro	ULN2069 ULN2069 SG2069 (3642) SN75069 ULN2069		Z80PIO	GoldStar SGS-Thomson	Z8420 Z8420 Z80SIO Z8440		Z8441	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8441 Z8442 LH0084 LH0085 LH0086		54LS10	Motorola National	SN54LS10 DM54LS10 54LS10	
ULN2070	SiliconG	SG2070 (3642)		Z80SIO	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8440 Z8442 LH0084 LH0085 LH0086		Z8442	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8440 Z8442 LH0084 LH0085 LH0086		54LS109	Signetics TI	T54LS10 54LS10 SN54LS10 SN54LS109 DM54LS109 54LS109	
ULN2071	SiliconG	SG2071 (3642)		Z80SIO	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8440 Z8442 LH0084 LH0085 LH0086		Z8442	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8440 Z8442 LH0084 LH0085 LH0086		54LS126	Motorola National	SN54LS126 DM54LS126 54LS126	
ULN2074	Allegro Micro	ULN2074 ULN2074 SG2074 (3642) ULN2074 TD62074		Z80SIO	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8440 Z8442 LH0084 LH0085 LH0086		Z8442	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8440 Z8442 LH0084 LH0085 LH0086		54LS126	TI	T54LS126 SN54LS126A SN54LS298 DM54LS298 54LS298	
ULN2075	Allegro Micro	ULN2075 ULN2075 SG2075 (3642) ULN2075 TI		Z80SIO	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8440 Z8442 LH0084 LH0085 LH0086		Z8442	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8440 Z8442 LH0084 LH0085 LH0086		54LS126	TI	T54LS126 SN54LS126A SN54LS298 DM54LS298 54LS298	
ULN2076	SiliconG	SG2076 (3642)		Z80SIO	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8440 Z8442 LH0084 LH0085 LH0086		Z8442	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8440 Z8442 LH0084 LH0085 LH0086		54LS126	TI	T54LS126 SN54LS126A SN54LS298 DM54LS298 54LS298	
ULN2077	SiliconG	SG2077 (3642)		Z80SIO	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8440 Z8442 LH0084 LH0085 LH0086		Z8442	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8440 Z8442 LH0084 LH0085 LH0086		54LS126	TI	T54LS126 SN54LS126A SN54LS298 DM54LS298 54LS298	
ULN2801	Allegro Micro	ULN2801 ULS2801 SG2801 (3642)		Z80SIO	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8440 Z8442 LH0084 LH0085 LH0086		Z8442	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8440 Z8442 LH0084 LH0085 LH0086		54LS126	TI	T54LS126 SN54LS126A SN54LS298 DM54LS298 54LS298	
ULN2802	Allegro Micro	ULN2802 ULS2802 SG2802 (3642)		Z80SIO	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8440 Z8442 LH0084 LH0085 LH0086		Z8442	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8440 Z8442 LH0084 LH0085 LH0086		54LS126	TI	T54LS126 SN54LS126A SN54LS298 DM54LS298 54LS298	
ULN2803	Allegro Micro	ULN2803 ULS2803 SG2803 (3642) SG2813 (3642)		Z80SIO	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8440 Z8442 LH0084 LH0085 LH0086		Z8442	GoldStar SGS-Thomson	Z8440 MK3886 Z80ASIO Z80SIO Z8440 Z8442 LH0084 LH0085 LH0086		54LS126	TI	T54LS126 SN54LS126A SN54LS298 DM54LS298 54LS298	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Sharp Electronics (Cont'd)				Sharp Electronics (Cont'd)				Sharp Electronics (Cont'd)				Sharp Electronics (Cont'd)			
IR3N06			(Cont'd)	LH2332	Intel	UM2168	(Cont'd)	LH5116	SGS-Thomson	ET2128	(Cont'd)	LH5165	Samsung	KM6264	(Cont'd)
	Samsung	MC3361			Microchip	51C69				MK2817			Sharp	KM6264A	
	Signetics	MC3361			Mitsubishi	RO9432				MK6116			Sony	LH5164	
LH0080	GoldStar	Z8400			National	M58333			Sharp	LH5115				CXK5164P	
	SGS-Thomson					F3532			Signetics	NE5517				CXK5863P	
		Z80ACPU			NCR	NM52132			Sony	CXK5816				CXK5864	
		Z80ACTC			Panasonic	NCR2332			UMC	UM6116				CXK5865P	
		Z84C00			Siemens	MN2332			Vitellic	V61C16			Toshiba	TC5563	
		Z8400				SAB8332				DPS88H08				TC5565A (3682)	
	Toshiba	TMPZ84C00			Signetics	SA88332		LH5164	Dense-Pac	XR8464			UMC	UM6264A	
	Zilog	Z84C00				2332			Exar	MB88464			Vitellic	V61C62	
		Z8400				2632A			Fujitsu	MB81C78A				V62C64	
LH0081	GoldStar	Z8420			TI	D51C69				MB8464A				V63C64	
	SGS-Thomson					P51C69			GoldStar	GM76C88L				VT20C99	
		Z80PIO			VLSI Tech	VT2332			Harris	CDM6264				CY7C167A	
		Z8420			NCR	NCR2364			Hitachi	HM6264				51C67	
	Zilog	Z80-PIO			OKI	MSM3864				HM6464				LogicDev	L7C167
		Z8420			Plessey	SL2364C				MB6264				MicronTech	MT5C1601
LH0082	GoldStar	Z8430			S-MOS	SMM2364			Hyundai	HY6264				SGS-Thomson	
	SGS-Thomson				Signetics	2364			IDT	DPS9264					
		Z80ACTC			TI	TMS2364				6264-100 (3513)					
		Z80CTC			VLSI Tech	VT2364				6264-120 (3513)					
		Z8430			Weitek	SC8164				6264-150 (3513)					
	Zilog	Z80-CTC			Mitsubishi	M5M2364				6264LP-100 (3513)					
LH0083	SGS-Thomson				NEC	μPD23C64E				6264LP-120 (3513)					
		Z80DMA			Samsung	KM2365				6264LP-150 (3513)					
		Z8410			Toshiba	TC5364P									
	Zilog	Z80-DMA			UMC	UM23C64									
		Z8410			Hitachi	HD44100									
LH0084	GoldStar	Z8440			Hughes	HO480			MicroLinear	ML8464					
	SGS-Thomson				OKI	MSM5259GS			Mitsubishi	AM99C88					
		MK3886			Samsung	KS0061				M5M5178					
		Z80ASIO			Hitachi	HD44780			Motorola	MCM6064					
		Z80SIO			OKI	MSM6222				MCM61L64					
		Z8440			Samsung	KS0062				MCM6164C					
		Z8441			NEC	μPC1366			National	DP8464					
		Z8442			Samsung	KA2912			OKI	MSM5164					
	Sharp	LH0085				KS0081				MSM5165					
		LH0086			Hitachi	HD44102			S-MOS	SRM2064					
	Zilog	Z80-SIO			OKI	MSM5299				SRM2264					
		Z8440			Samsung	KS0102			Samsung	KM6264					
		Z8441			Sharp	LH5826				KM6264A					
		Z8442			Hitachi	HD44103			Sharp	LH5165					
LH0085	GoldStar	Z8440			OKI	MSM5298			Sony	CXK5164P					
	SGS-Thomson				Samsung	KS0101				CXK5863P					
		MK3886			Sharp	LH5031				CXK5864					
		Z80ASIO			Hitachi	HD44103				CXK5865					
		Z80SIO			OKI	MSM5298				CXK5865P					
		Z8440			Samsung	KS0101			Toshiba	TC5563					
		Z8441			Sharp	LH5030				TC5565A (3682)					
		Z8442			Harris	HA5101				TC5588					
	Sharp	LH0084			Intel	5101			UMC	UM6264A					
		LH0086			MicroNet	MN5101	(3547)		Vitellic	V61C62					
	Zilog	Z80-SIO			Mitsubishi	M5L5101				V62C64					
		Z8440			Motorola	MCMS1L01				V63C64					
		Z8441				MCM145101			VLSI Tech	VT20C99					
		Z8442			National	MM74C920			Dense-Pac	DPS88H08					
LH0086	GoldStar	Z8440			Panasonic	MNS101			Exar	XR8464					
	SGS-Thomson				Allegro	UDN6116			Fujitsu	MB88464					
		MK3886			Micro	HM6116				MB81C78A					
		Z80ASIO			Hitachi	M5M5517				MB8464A					
		Z80SIO			Mitsubishi	MMC2116			GoldStar	GM76C88L					
		Z8440			National	MSM2128			Harris	CDM6264					
		Z8441			OKI	MSM5126			Hitachi	HM6264					
		Z8442				MSM5128				MB6264					
	Sharp	LH0084				MSM5129			Hyundai	HY6264					
		LH0085			S-MOS	SMC6116			IDT	DPS9264					
	Zilog	Z80-SIO			SGS-Thomson	SRM2016C				6264-100 (3513)					
		Z8440				ET2128				6264-120 (3513)					
		Z8441				MK2817				6264-150 (3513)					
		Z8442				MK6116				6264LP-100 (3513)					
LH2114	AMD	AM9114				LH5116				6264LP-120 (3513)					
	Intel	2114A				NE5517				6264LP-150 (3513)					
	Krueger	2114-150	(3513)		Sharp	CXK5816									
		2114-200	(3513)		Signetics	UM6116									
		2114-450	(3513)		Sony	V61C16									
	Mitsubishi	M5L2114			UMC	UDN6116									
	Motorola	M5L2114			Hitachi	HM6116									
	National	F2114			Mitsubishi	M5M5517									
		NMC2114A			National	MMC2116									
	OKI	MSM2114			OKI	MSM2128									
	Rockwell	R6514				MSM5126									
	Toshiba	TMM2114A				MSM5128									
	UMC	UM6114				MSM5129									
LH23128	Mitsubishi	M5M23128				SMC6116									
	Samsung	KM23128				SRM2016C									
	UMC	UM23C128													
LH2332	Commodore	MPS2332													
	Fujitsu	P51C69													
	Hitachi	P51C69													

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
Sharp Electronics (Cont'd)				LH534000	Fujitsu	MB834200		LH57256	ATMEL	AT27HC256		LH5762J	Samsung	KA2153	(Cont'd)	
LH52259	Catalyst Semi	CAT71C256			Hitachi	HN62404			Catalyst	27256			Sharp	LH5763		
		CAT71C256L			Mitsubishi	M5M23C400			Intel	M27256			LH5764J			
	Cypress Dense-Pac	CY7C197			NEC	μPD23C4000				P27257			TI	TMS27C49		
		DPS92256			Toshiba	TC534000 (3678)				27256			Toshiba	TA7644BP		
	GoldStar	DPS92256L				TC534000P (3678)			Krueger	27256-200 (3513)			Waferscale	WS57C49B		
		GM76C256			UMC	UM23C4000				27256-250 (3513)			WS57C64F			
	Hitachi	HM61256		LH534300	Hitachi	HN62304B				27256-300 (3513)		LH5763	ATMEL	AT27C641		
		HM62256			NEC	μPD23C4001E			Mitsubishi	MSL27256				AT27HC64		
	Hyundai	HM64456			Samsung	KM23C4000				M5M27256			Cypress	CY7C266		
		HY62C256			UMC	UM23C4001 (3688)			Motorola	MCM67256			Fujitsu	MBM27C64		
	Inova	HY63C256		LH53513	NCR	NCR23C512			OKI	MSM27256				MBM2764		
		HY63C256L			Samsung	KM23C512			SGS-Thomson	M27256			Microchip	NM27C64		
	IDT	S32K8			Toshiba	TC53512P				TMS27C256			National	KA2153		
		IDT7M856S			UMC	UM23C512 (3688)			TI	TC57H256			Samsung	LH5762J		
	LogicDev	IDT71256L			VLSI Tech	VT23512			Cypress	CY7C274			Sharp	LH5764J		
		IDT71256S			Cypress	CY7C408A				MBM27C256A			TI	TMS27C49		
	MicronTech	IDT8M824			Cypress	CY7C409A			Fujitsu	MBM27C256H			Toshiba	TA7644BP		
		L7C199			AMD	AM7200			Sharp	LH57254J			Waferscale	WS57C49B		
	Mitsubishi	MT5C2568			IDT	IDT7200				LH57255J				WS57C64F		
		M5M5256		LH5496	Mosel	MS7200			LH5749	AMD	AM27S49		LH5764	Catalyst	2764	
Mosel	MS62256			AMD	AM67C4501				27S49				Rsch	AT27C641		
	MCM60256A				AM7201			ATMEL	AT27HC641			LH5764J	ATMEL	AT27HC64		
National	NM44251				67C4501				AT27HC642					CY7C266		
	μPD43256B			Dallas	DS2009			Cypress	CY7C261				Cypress	MBM27C64		
OKI	MSM51257JS			IDT	IDT7201				CY7C263			Fujitsu	MBM2764			
	MSM51257LRS				IDT7201A			Fujitsu	CY7C264				Microchip	NM27C64		
Performance	MSM51257RJ				IDT7201LA				MBM7144				National	NM27C64		
	MSM51257RS				IDT7201SA				MB7144E				Samsung	KA2153		
S-MOS	P4C1256				IDT7202A			ICT	27CX641				Sharp	LH5762J		
	SRM20256			MicronTech	MT52C9005			Microchip	27HC641				TI	TMS27C49		
Samsung	SRM20256C			Samsung	KM75C01A			National	27HC641				Toshiba	TA7644BP		
	SRM2257			Saratoga	SSL7201				32Z565				Waferscale	WS57C49B		
Sharp	KM62256			SGS-Thomson	MK4501				93Z665C				WS57C64F			
	KM68257			TI	SN74ACT7201				93Z667C			LH5826	Hitachi	HD44102		
Sony	LH52256				TACT7201			NEC	μPD27HC65				OKI	MSM5299		
	CXK58256			Vitellic	V61C01			Sharp	LH5749J				Samsung	KS0102		
Toshiba	TC55257		LH5496D	Cypress	CY7C421			Signetics	N82HS641				Sharp	LH5025A		
	TC55257A		LH5497	AMD	AM67C4502				27HC641			LH64256	NEC	μPD424258		
UMC	UM62256A				AM7202				27HC642				Samsung	KM44C256		
	MB81C71A		LH5261		67C4502				82HS641					V53C105		
Fujitsu	HM6287			Dallas	DS2010			SiliconSys	SS1203				Fujitsu	MB81C4256		
	HM6787			IDT	IDT7202				TMS278C49			LH64257	GoldStar	GM71C4256		
LogicDev	L7C166				IDT7202A			Waferscale	WS57C49				Hitachi	HM514256		
	M5M5187				IDT7202LA				WS57C49B				Hyundai	HY51C4256		
Mitsubishi	M5M5187AP				IDT7202SA			LH5749J	AMD	AM27S49			MicronTech	MT4C256		
	M5M5187P			MicronTech	MT52C9010				27S49					MT4C256		
OKI	MSM5187			Mosel	MS7202A			ATMEL	AT27HC641				Mitsubishi	M5M44C256		
	S-MOS	SRM2261		Plessey	MV61901				AT27HC642				Motorola	MCM514256A		
Saratoga	SSM7187			Samsung	KM75C02			Cypress	CY7C261				Motorola	μPD424256		
	SGS-Thomson	MK41H87			KM75C02A				CY7C263				NEC	μPD424256		
Signetics	74HC4515			Saratoga	SSL7202				CY7C264					μPD424256A		
	PAL20L8		LH5262	TI	TACT7202				MBM7144				NMB	AAA1M104		
AMD	PAL20L8				TACT7202				MB7144E				OKI	MSM41005		
	PLDC20G10			Vitellic	V61C02				27CX641					MSM414256		
Fujitsu	MB81C88		LH5497D	Cypress	CY7C425				27HC641				Samsung	KM44C256		
	Gould AMI	PEEL20CG10 (3442)	LH5498	AMD	AM7203				32Z565				Siemens	HYB514256		
Hitachi	HM7688HP			Cypress	CY7C428				93Z665C				TI	TMS44C256		
	ICT	PEEL20CG10		Dallas	DS2011				93Z667C				Toshiba	TC514256		
Lattice	GAL20V8A			IDT	IDT7203				93Z667C					MB81C4258		
	L7C164				IDT7203LA			NEC	μPD27HC65				Hitachi	HM514258		
LogicDev	L7C164				IDT7203SA				N82HS641				Hyundai	HY51C4258		
	M5M5188AP			MicronTech	MT52C9020				27HC641				MicronTech	MT4C258		
Mitsubishi	F100165			Mosel	MS7203				27HC642				Mitsubishi	M5M44C258		
	PAL20L8			Samsung	KM75C03				82HS641				Motorola	MCM514258A		
National	μPD4362C				KM75C102A				SS1203				NEC	μPD424258		
	MSM5188A			Saratoga	SSL7203				TMS278C49				OKI	MSM514257		
Samsung	CPL20L8			SGS-Thomson	MK4503				WS57C49B					MSM514258		
	CPL20L8-35				MK4503				WS57C49B				Samsung	KM44C258		
Sony	CXK5464AP				5C032				AT27C642				Toshiba	TC514258		
	TIBPAL20L8		LH5498D	Cypress	CY7C429				82HS641					KS6022A		
TI	TIBPAL20L8-20		LH5499	Intel	5C032				CS203				Samsung	KS6025B		
			LH57128	AMD	AM27C128				CY7C264				Samsung	KS6028		
VLSI Tech	VT64KS4			ATMEL	AT27C128				CD22203				Samsung	KS6026B		
	Hitachi	HN62321		Krueger	27128-200 (3513)				27CX642				NCM	NCM2009Z		
Mitsubishi	HN62321E				27128-250 (3513)				M27HC641				Samsung	KS5809		
	M5M23C100				27128-300 (3513)				SSI75T203 (3647)					TP5089		
NEC	μPD23C1010A				27128A-450 (3513)				TMS27C49				Samsung	KS5808		
	KM23C1000			National	NMC27128				TMS27C64					MK5089		
Toshiba	TC531000P			OKI	MSM27128				AT27HC64				STC	STC5089		
	UMC	UM23C1024		SGS-Thomson	M27128				AT27HC64				TI	TCM5089		
LH532100	NEC	μPD23C2001			CY7C274				CY7C266				Gould AMI	S2560		
	Samsung	KM23C2000			MBM27C256A				MBM27C64				National	TDA2560		
Toshiba	TC53200P				MBM27C256H				27HC64				Plessey	TDA2560		
	UMC	UM23C2001			LH57255J				NM27C64							
LH53257	Hitachi	HN623257P			LH57256J											
	Mitsubishi	M5M23256														
NEC	μPD23C256E															
	Samsung	KM23256														
Samsu	KM23257															
	TC53257P															
Toshiba	UM23C256															
	UMC															

• Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Sharp Electronics (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
LR40992	Samsung	KS5805A	(Cont'd)												
	SGS-Thomson	MK50992													
		M2560													
LR40993	Samsung	KS5805B													
	SGS-Thomson	MK50993													
LR4803	Samsung	CPL16L8L-25													
	SGS-Thomson	KS5822													
		MK5375													
LR48081	Samsung	KS5819													
	SGS-Thomson	MK5370													
		KS5820													
LR48082	Samsung	UM91210													
	UMC	UM91210													
SM4A	Samsung	KS52000													
Z8601	SGS-Thomson	Z8601													
		Z8601													
Z8611	Zilog	Z8611													
	SGS-Thomson	Z8611													
Z8681		Z8681													
	Zilog	Z8681													
Siemens															
μAA170	TI	μAA170													
GXB10415	Motorola	MCM10146													
	National	DM10415													
HYB4116	Krueger	4116-120	(3513)												
		4116-150	(3513)												
		4116-200	(3513)												
	National	F16K													
		F4116													
		MM5290													
	OKI	MSM3716													
	Signetics	2690													
HYB41256	Krueger	41256-100	(3513)												
		41256-120	(3513)												
		41256-150	(3513)												
	MicronTech	MT1259													
	Mitsubishi	M5M4256A													
	Motorola	MCM6256B													
	OKI	MSM37256A													
	Panasonic	MN41256													
	Samsung	KM41256A													
	Vitellic	V51C257													
		V53C256													
HYB4164	IDT	DPS9264													
		IDT7164L													
	Intel	M2164A													
	Krueger	4164-120	(3513)												
		4164-150	(3513)												
		4164-200	(3513)												
	National	F4164													
		F64K													
		NMC4164													
	OKI	MSM3764													
	Panasonic	MN4164													
		MN4864													
	Samsung	KM4164A													
		KM4164B													
	TI	SM4164													
HYB511000	Dense-Pac	DPD411M													
	Fujitsu	MB81C1000													
		TH22568													
	GoldStar	GM71C1000													
	Hitachi	HB561003													
		HM511000													
		HM51101													
		HM51102													
		HM561003													
	Hyundai	HY51C1000													
		HY51C1002													
	MicronTech	MT4C1024													
	Mitsubishi	MH25608													
		MH25609													
		M5M4C1000													
		M5M41000S													
		M5M410000													
	Motorola	MCM511000A													
	NEC	μPD421000													
		MC421000													
	OKI	MSM41000													
	Samsung	KM41C1000													
		KM41256A													
(Continued)				(Continued)				(Continued)				(Continued)			

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Siemens (Cont'd)				SC11312	Fujitsu National	MB6046 TP3067		HDAC7541	Burr-Brown Datel	DAC7541A DAC7541		AM26LS31	Motorola National	AM26LS31 μA26LS31	(Cont'd)
• TBA1440G	SGS-Thomson	TBA1440G			Samsung	KT8567			Harris	AD7541					
TCA4500	Motorola	TCA4500		SC11403	Universal	ETC5067		HDAC7542	Maxim	MX7541					
	National	LM4500		SC11453	Brooktree	USC1852			Siliconix	SI7541A		AM6012	TI	AM26LS31	
	TI	TMS4500A			National	BT453			Sipex-HSD	DAC331			AMD	AM6012	
• TDA1048	VLSI Tech	VL4500A		SC22001	Catalyst	FVG453			AD	AD7542			AD	AD6012	
	SGS-Thomson				Semi				Maxim	PM7542				DAC312	
• TDA2522	National	TDA1048			National	CAT24C44 (3352)		HDAC7543	MicroPwr	AD7542		• CA3081	NEC	PM6012	
	Plessey	TDA2522				COP494			AD	AD7543			Plessey	μPC6012	
• TDA2530	Krueger	TDA2522	(3513)		Xicor	NMC9306	(3729)		Maxim	PM7543		• CA3082	Allegro	ZN6012	
		2532-350 (3513)		SC22011	Catalyst	X2444 (3729)		HDAC7545	MicroPwr	MP7543			Micro	ULN2081	
• TDA2530	National	MM2532	(3513)		Semi	CAT59C11A (3351)			AD	AD7545		• CA3083	Harris	CA3081	
		NMC2532				CAT93C46 (3351)			Burr-Brown	PM7545			Micro	ULN2082	
		TDA2530			EXEL	CAT93C46A (3351)			Harris	DAC7545 (3341)		• CA3083	SiliconG	CA3082	
• TDA2530	Plessey	TDA2530				XLS93C46			Maxim	AD7545				SG3083	
• TDA2560	Gould AMI	S2560				XL93CS46 (3396)			MicroPwr	AD7545		• CA3183	SiliconG	SG3183 (3643)	
	National	TDA2560			Hyundai	HY93C46 (3475)			Sipex-HSD	HS7545			AD	SG3183 (3643)	
	Plessey	TDA2560			ICT	93C46 (3505)		Signetics							
	Samsung	KS5805A			Microchip	93C46C (3505)		μA723	Harris	CA0723		DAC08	Datel	ADDAC-08	
	SGS-Thomson				National	ER5911			Motorola	MC1723			Motorola	DAC1508	
• TDA2560	Sharp	MK50992				COP495			National	MC1723			National	DAC08B	
		M2560				NMC93CS46				μA723M				DAC08	
		LR40992				NMC9345				LM723				DAC0801	
Sierra Semiconductor						NMC9346				LM723				DAC0802	
SC11000	EG&G-Reticon	RM5632A			OKI	9346				LM723				μPC624	
		R5632				MSM16811				LM723			NEC	DAC08	
	Exar	XR2126				MSM16811RS				LM723			Raytheon	KDA0800	
		XR2127			ROHM	MSM16911				LM723			Samsung	KDA0801	
	Gould AMI	S35212A			SGS-Thomson	BR93C46			SiliconG	SG723 (3642)		• DS8820	National	KDA0802	
	Hitachi	HA17815				M9346			TI	μA723			TI	DS8820	
	Mitel	MT35212A				ST93CS46			Adv Analog	μA723M		• DS8830	National	SN75182	
	Sierra	MT35212A				ST93CS47			Motorola	A733			TI	DS8830	
	Sierra	SC11005				TS93C46A				MC1733		• DS8880	National	SN75183	
SC11001	Exar	XR2128			SC22056	Catalyst	CAT35C102 (3351)			NE592			TI	DS8820	
SC11002	National	MM74HC942				Semi	93CX56 (3505)			μA733			TI	SN75182	
SC11003	National	MM74HC943				ICT	93C56A (3505)			LM733		HEF400	Motorola	MC14000	
SC11005	EG&G-Reticon						NMC93C56			NE592			National	MC14000B	
		RM5632A								SE592				CD4000	
		R5632								SG1401 (3643)				CD4000B	
	Exar	XR2126			SC22057	National	CAT35C104 (3351)			μA733			SGS-Thomson	HCC4000	
		XR2127				Catalyst	93CX66 (3505)			μA733M				HCC4000B	
		XR2127				Semi	93C66A (3505)			NE592				HCF4000	
	Gould AMI	S35212A				ICT	NMC93C66			NE592-8				HCF4000B	
	Hitachi	HA17815					CD22101			SE592				TC4000B	
	Mitel	MT35212A			SC22101	National	NMC95C14			OP02		HEF4001	Toshiba	CD4001B	
	Sierra	SC11000			SC22300	National	NMC95C12			OP77			Harris	CD4001B	
	Exar	XR1010			SC22304	National	COP820			MP0P02			Motorola	MC14001	
	LinearTech	LT1060			SC44820	National	COP821			MC1741			National	CD4001	
	Maxim	MF10			SC44822	National	COP822		MicroPwr	μA741M			SGS-Thomson	HCC4001	
• SC11204	MicroLinear	ML2110			SC44822	National	COP841		Motorola	LM741				HCF4001	
SC11270	SiliconSys	SSI204			SC44844	National	COP844			RM741				TC4001B	
	CMD Micro	G8870				Sierra	SC46844			LM741		HEF4002	Toshiba	CD4002B	
	Crystal	CS8870			SC44848	National	COP848			SGS-Thomson			Harris	MC14002	
	Fujitsu	MB87017A				Sierra	SC46848			μA741			Motorola	CD4002	
	Mitel	MT8870			SC44884	National	COP884			SG741			National	F4002	
		MT8870-1					COP888			μA741M			SGS-Thomson	HCC4002	
	Plessey	MV8870			SC44884	National	COP888			OP04				HCF4002	
	Samsung	KT3170				Sierra	SC44844			CA0747		HEF4006	Toshiba	TC4002B	
	Sierra	SC11271				Sierra	SC44848			HA17747			Harris	CD4006B	
	Telton	M8870			SC46848	National	COP888			MP0P04			Motorola	MC14006	
	CMD Micro	G8870					SC44888			MC1747			National	CD4006	
	Crystal	CS8870			SC46888	National	COP8620			μA747				F4006	
	Fujitsu	MB87017A					COP8621			LM747				F4006B	
	Mitel	MT8870				Sierra	COP8622			μPC1418			SGS-Thomson	HCC4006	
		MT8870-1			SC48620	National	COP8622			RC747				HCF4006	
	Plessey	MV8870			SC48622	National	COP8720			RM747		HEF4007	Toshiba	TC4006B	
	Samsung	KT3170					COP8721			μA747M			Harris	CD4007B	
	Sierra	SC11270			SC48720	National	COP8721			μA705			Motorola	MC14007	
	Telton	M8870			SC48721	National	COP8722			LM1800			National	CD4007	
SC11290	SiliconSys	SSI2090								ADC0803			SGS-Thomson	F4007	
SC11302	Fujitsu	MB6042								ADC0804				HCC4007	
	Harris	CD22357								ADC0804				HCF4007	
		CD22357A								ADC0804				TC4007UB	
	Intel	2917								ADC0805				CD4008B	
	National	μA3057								ADC0820				MC14008	
		TP3057								ADC0820				CD4008	
	Samsung	KT8557								ADC0820				F4008	
	SGS-Thomson	ETC5057								ADC0820				MM74C83	
SC11305	National	TP3051			HCMP96850	AD	AD9685			ADC0820			SGS-Thomson	HCC4008	
SC11306	National	TP3056				Honeywell	HCMP96850			ADC0820				HCF4008	
SC11311	Fujitsu	MB6045				Motorola	MCM93415			ADC0820				TC4008B	
	Intel	2913					93415			ADC0820				F4009	
	Motorola	MC14400-5				Plessey	SP9683			ADC0820				MM80C98	
	National	TP3064					IDT75C18			AM26LS30			Toshiba	TC4008B	
	Samsung	KT8564					TDC1018			AM26LS31			National	MM80C98	
	SGS-Thomson	ETC5064								26LS31					
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• Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Signetics (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
HEF40106	Harris	CD40106B		HEF40161	Panasonic	MN40161		HEF40194	Harris	CD40194B		HEF4035	National	CD4035B	
	Micrel	MC14106			SGS-Thomson	HCC40161			Motorola	MC140194B				F4035	
	Motorola	MC14584				HCC40161B			National	F40194			SGS-Thomson	HCC4035	
		MC14584B				HCF40161			SGS-Thomson	HCC40194				HCF4035	
	National	CD40106				HCF40161B				HCC40194B			Toshiba	TC4035B	
		CD4584		HEF40162	Toshiba	TC40161B				HCF40194				CD4040B	
		CD4584B			Harris	CD40162B				HCF40194B				MC14040	
		F400014			Motorola	MC140162B				TC40194B				CD4040	
		F40014				MC14162		HEF4020	Toshiba	CD4020B			SGS-Thomson	HCC4040	
		MM54C14				CD40162B			Harris	MC14020				HCF4040	
		MM74C14				F40162			Motorola	CD4020				TC4040B	
	SGS-Thomson	HCC40106			SGS-Thomson	HCC40162			National	F4020				CD4041	
		HCF40106				HCC40162B			SGS-Thomson	HCC4020		HEF4041	Toshiba	CD4041UB	
		TC4584B				HCF40162				HCF4020			Harris	CD4041	
HEF4011	Toshiba	TC4584B				HCF40162B				TC4020B			National	F4041	
	Motorola	MC14011				TC40162B		HEF4021	Toshiba	CD4021B			SGS-Thomson	HCC4041	
	National	CD4011				CD40163B			Harris	MC14021				HCF4041	
	SGS-Thomson	HCC4011		HEF40163	Motorola	MC140163B			Motorola	CD4021				CD4042B	
		HCF4011				MC14163			National	F4021		HEF4042	Harris	MC14042	
HEF4012	Harris	CD4012B				CD40163			SGS-Thomson	HCC4021			Motorola	CD4042	
	Motorola	MC14012				CD40163B				HCF4021				F4042	
	National	CD4012				F40163				TC4021B			SGS-Thomson	HCC4042	
	SGS-Thomson	HCC4012				HCC40163B		HEF4022	Toshiba	CD4022B				HCF4042	
		HCF4012				HCF40163B			Harris	MC14022				TC4042B	
		TC4012B		HEF4017	Toshiba	TC40163B			Motorola	CD4022		HEF4043	Toshiba	CD4043B	
		CD4013B			Motorola	MC14017			National	F4022			Harris	CD4043	
HEF4013	Harris	CD4013B			National	CD4017			SGS-Thomson	HCC4022			Motorola	CD4043	
	Motorola	MC14013				F4017				HCF4022			National	CD4043	
	National	CD4013			SGS-Thomson	HCC4017		HEF4023	Toshiba	TC4022B			SGS-Thomson	HCC4043	
		F4013				HCF4017			Harris	CD4023B				HCF4043	
		MM74C74		HEF40174	Toshiba	TC4017B			Motorola	MC14023				TC4043B	
	OKI	MSM4013			Harris	CD40174B			National	CD4023		HEF4044	Harris	CD4044B	
	SGS-Thomson	HCC4013			Motorola	MC140174B				F4023			Motorola	MC14044	
		HCF4013				MC14174			SGS-Thomson	MM74C10				MC4044	
HEF4014	Harris	CD4014B				CD40174B				HCC4023			National	CD4044	
	Motorola	MC14014				F40174B				HCF4023			SGS-Thomson	HCC4044	
	National	CD4014				HCC40174		HEF4024	Toshiba	TC4023B				HCF4044	
	SGS-Thomson	F4014				HCC40174B			Harris	CD4024B				TC4044B	
		HCC4014				HCF40174B			Motorola	MC14024		HEF4047	Toshiba	CD4047B	
		HCF4014		HEF40175	Toshiba	TC40174B			National	MC4024			Harris	CD4047	
		TC4014B			Motorola	MC14175				CD4024			National	F4047	
		CD4015B				MC40175			SGS-Thomson	F4024			SGS-Thomson	HCC4047	
HEF4015	Harris	CD4015B				CD40175				HCC4024				HCF4047	
	Motorola	MC14015				F40175				HCF4024				TC4047B	
	National	CD4015				MM54C175		HEF4025	Toshiba	TC4024B				CD4049UB	
		F4015				MM74C175			Harris	CD4025B				MC14049	
		MM74C164				TC40175B			Motorola	MC14025				CD4049	
	OKI	MSM4015		HEF4018	Toshiba	MC14018			National	CD4025				F4049	
	SGS-Thomson	HCC4015				CD4018				F4025			OKI	MSM4049	
		HCF4015				F4018			SGS-Thomson	HCC4025			SGS-Thomson	HCC4049	
		TC4015B				HCC4018				HCF4025				HCF4049	
HEF4016	Toshiba	TC4015B				HCF4018		HEF4027	Toshiba	TC4025B				TC4049B	
	Harris	CD4016B				TC4018B			Harris	CD4027B		HEF4050	Toshiba	CD4050B	
	Motorola	MC14016B				CD4019B			Motorola	MC14027			Harris	MC14050	
		MC14066				CD4019			National	MC14027B			Motorola	CD4050	
	National	CD4016				F4019				CD4027			National	F4050	
		CD4066				F4019B				CD4027B			SGS-Thomson	HCC4050	
		F4016				MSM4019				F4027				HCF4050	
	SGS-Thomson	HCC4016				HCC4019				MM74C76				TC4050B	
		HCC4066				HCF4019				MSM4027				CD4051B	
		HCF4016				TC4019B			OKI	HCC4027		HEF4051	Harris	CD4051B	
		HCF4066				CD4019B			SGS-Thomson	HCC4027B			Motorola	MC14051	
	Signetics	HEF4066				CD4029B				HCF4027			National	CD4051	
	Toshiba	TC4016B				MC14029				HCF4027B				F4051	
		TC4066B				CD40192				TC4027B			SGS-Thomson	HCC4051	
	Unitrode	PIC7516				CD4029				CD4028B				HCF4051	
HEF40160	Harris	CD40160B				F40192		HEF4028	Toshiba	CD4028B				TC4051B	
	Motorola	MC14160				F4029			Harris	MC14028				CD4052B	
		MC40160B				HCC40192			Motorola	CD4028		HEF4052	Harris	CD4052	
	National	CD40160				HCF40192			National	F4028			National	CD4052B	
		CD40160B				HCF4029				MM74C42				F4052	
	SGS-Thomson	HCC40160				TC40192B			OKI	MSM4028				HCC4052	
		HCC40160B				TC4029B			SGS-Thomson	HCC4028				HCF4052	
		HCF40160				CD40193B		HEF4030		TC4028B				CD4053B	
		HCF40160B				CD40193			Toshiba	CD4030B				MC14053	
		TC40160B				F40193			Harris	CD4030				CD4053	
HEF40161	Toshiba	TC40161B				MM54C193			National	F4030				F4053	
	Harris	MC14016B				MM74C193			SGS-Thomson	HCC4030				HCC4053	
	Motorola	MC14016B				HCC40193		HEF4035		HCF4030				HCF4053	
		MC14161				HCF40193				TC4030B				TC4053B	
	National	CD40161				TC40193B				CD4035B				MC14569	
		CD40161B								MC14035					
		F40161													

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Signetics (Cont'd)				HEF4075 (Cont'd)				HEF4502 (Cont'd)				HEF4527 (Cont'd)			
HEF4060	Harris	CD4060B			SGS-Thomson	HCC4075				HCF4502B			National	CD4527	
	Motorola	MC14060				HCF4075				MK4502				F4527	
	National	CD4060			Toshiba	TC4075B				TC4502B				SGS-Thomson	
	SGS-Thomson			HEF4076	Harris	CD4076B		HEF4508	Toshiba	CD4508B				HCC4527	
		HCC4060			Motorola	MC14076			Harris	MC14508				HCF4527	
		HCF4060			National	CD4076			Motorola					TC4527B	
HEF4066	Harris	CD4016B				F4076			SGS-Thomson	HCC/HCF4508		HEF4528	Toshiba	MC14528	
	Motorola	MC14016				MM54C173				HCF4508			Motorola	CD4528	
		MC14066				MM74C173				TC4508B			National	F4528	
	National	CD4016								CD4510B				MM74C221	
		CD4066				HCC4076		HEF4510	Harris	CD4510B				HCC4098	
		F4016				HCF4076			Motorola	MC14510				HCF4098	
		F4066				TC4076B			National	CD4510				TC4528B	
	SGS-Thomson					CD4077B				F4510		HEF4531	Toshiba	MC14531	
		HCC4016		HEF4077	Harris	MC14077							Motorola	F4531	
		HCC4066			Motorola	MC14077B							National	SGS-Thomson	
		HCF4016				CD4077				HCC4510				HCC40101	
		HCF4066				F4077				HCF4510				MCF40101	
	Signetics	HEF4016						HEF4511	Toshiba	TC4510B				TC4531B	
	Toshiba	TC4016B				HCC4077			Harris	CD4511B				CD4532B	
		TC4066B				HCC4077B			Motorola	MC14511				MC14532	
	Unitrode	PIC7516				HCF4077			National	CD4511				F4532	
HEF4067	Motorola	MC14067				HCF4077B			NEC	μPD4511				SGS-Thomson	
	National	F4067				TC4077B			SGS-Thomson	HCC4511				HCC4532	
	SGS-Thomson			HEF4078	Toshiba	CD4078B				HCF4511				HCF4532	
		HCC4067			Harris	MC14078		HEF4514	Toshiba	TC4511B				TC4532B	
		HCF4067			Motorola	F4078			Harris	CD4514B		HEF4534	Allegro	UCN5810	
HEF4068	Motorola	MC14068			National				Motorola	MC14514			Micro	S4534	
	National	F4068			SGS-Thomson				National	CD4514			Gould AMI	TL4810	
	SGS-Thomson					HCC4078				F4514			TI	UCN4810A	
		HCC4068		HEF4081	Toshiba	TC4078B								CD14538B	
		HCF4068			Harris	MC14081				HCC4514				MC14538	
		TC4068B			Motorola	CD4081				HCF4514				MC14538B	
		CD4069UB			National	F4081				TC4514B				CD4538	
HEF4069	Harris	MC14069				MM74C08		HEF4515	Harris	CD4515B				CD4538B	
	Motorola	CD4069				MSM4081			Motorola	MC14515				MSM4538	
	National	F4069			OKI				National	CD4515				GCC4538B	
		MM54C04			SGS-Thomson					F4515				HCF4538B	
		MM74C04				HCC4081				HCC4515				TC4538B	
	OKI	MSM4069				HCF4081				HCF4515		HEF4539	Toshiba	MC14539	
	SGS-Thomson					TC4081B				TC4515B			Motorola	MC14539B	
		HCC4069				CD4082B				CD4516B				F4539	
		HCF4069				MC14082		HEF4516	Harris	MC14516				TC4539B	
		TC4069UB				CD4082			Motorola	CD4516				CD4543B	
HEF4070	Toshiba	CD4070B				F4082			National	F4516				MC14543	
	Harris	MC14070												MC14543B	
	Motorola	CD4070				HCC4082				HCC4516				CD4543	
	National	F4070				HCF4082				HCF4516				F4543	
		MM74C86				TC4082B				TC4516B				TC4543B	
	SGS-Thomson			HEF4085	SGS-Thomson					CD4517B				CD4555B	
		HCC4070				HCC4085				MC14517				MC14555	
		HCF4070				HCC4085B								F4555	
		CD4071B				HCF4085B				HCC4517				SGS-Thomson	
HEF4071	Harris	MC14071				TC4085B				HCF4517				HCC4555	
	Motorola	MC14071B				CD4086B				CD4518B				HCF4555	
	National	CD4071				MC14506				MC14518				TC4555B	
		CD4071B								CD4518				CD4556B	
		F4071				HCC4086				F4518				MC14556	
		MM74C32				HCC4086B								F4556	
	OKI	MSM4071				HCF4086				HCC4518				SGS-Thomson	
	SGS-Thomson					HCF4086B				HCF4518				HCC4556	
		HCC4071				TC4086B				TC4518B				HCF4556	
		HCC4071B				CD4093B				CD4519B				TC4556B	
		HCF4071				MC14093				MC14519		HEF4557	Toshiba	MC14557	
		HCF4071B				MC14093B				MC14519B			Motorola	F4557	
		TC4071B				CD4093B				CD4519				CD4585B	
	OKI	MM74C32				F4093B				CD4519B				MC14585	
	SGS-Thomson									TC4519B				F4085	
HEF4072	Toshiba	DA08				HCC4093				CD4520B				MM74C85	
	AD	MB4072				HCC4093B				MC14520					
	Fujitsu	CD4072B				HCF4093				CD4520				SGS-Thomson	
	Harris	MC14072				HCF4093B				F4520				HCC4585	
	Motorola	CD4072				TC4093B				MSM4520				HCF4585	
	National	F4072				CD4094B								TC4585B	
						MC14094				HCC4520				CD4541B	
	SGS-Thomson					MC14094B				HCF4520				MC14541	
		HCC4072				CD4094B				TC4520B				F4720	
		HCF4072								CD4521B				F4727	
HEF4073	Toshiba	CD4073B				HCC4094				MC14521				CD4031B	
	Harris	MC14073				HCC4094B				F4521				CD4031	
	Motorola	CD4073				HCF4094				HCC4045					
	National	F4073				HCF4094B				HCF4045					
	SGS-Thomson					TC4094B				TC4521B					
		HCC4073				CD4502B				MC14526					
		HCF4073				MC14502				CD4526					
		TC4073B				MC14502B				F4526					
HEF4075	Toshiba	CD4075B				HCC4502				TC4526B					
	Harris	CD4075				HCC4502B				CD4527B					
	Motorola	F4075				HCF4502				MC14527					
	National														

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Signetics (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
• LF355	LinearTech	LF355		LM239	Motorola	LM239		LM311	Samsung	LM311		MC1458	Hitachi	HA17458	
	Motorola	LF355			National	μA239			SGS-Thomson	LM311			Motorola	MC4558	
	National	LF355				μA250				LM311			National	SE4558	
	SGS-Thomson					LM239			SiliconG	SG311				μA1458	
• LF356	AD	OP16				LM239			TI	LM311				μA4558	
	LinearTech	LF356				LM239			Toshiba	TA75393			Raytheon	LM1558	
	Motorola	LF356				CA0258			AD	PM219				RC4558	
	National	LF356				LM258			SGS-Thomson				Samsung	RM4558	
	SGS-Thomson					LM258A							SGS-Thomson	MC4558	
LF398	LinearTech	LF356				LM258A								LS4558	
	National	LF398				LM258A								MC4558	
		LM298												MC1558	
	Signetics	NE5537				LM258								NE4558	
	TI	LF398				LM258								SA4558	
• LH2101	National	LH2101				PM139								SE4558	
	Raytheon	LH2101A				IDT	IDT39C01							MC1458	
• LH2308	National	LH2308				Motorola	LM2901							MC1558	
• LM101	AD	OP77					MC3302							RC4558	
		OP77				National	μA2901							RM4558	
• LM101	LinearTech	LM101					μA3302							TL4558	
	Motorola	LM101					LM2901							TA75458	
	National	μA101					LM3302							TA75558	
	Raytheon	LM101A					LM2901							XR1488	
	SiliconG	SG101					LM3302							MC1488	
	AD	AD111					LM2901							μA1488	
		PM111					MC3302							μA212A	
	Raytheon	LM111					MC3302							μA750	
	SGS-Thomson						LM3302							DS1488	
		LM111					TA75339							MC1488	
		PM119					OP400							MC1488	
LM119	AD	LM119		• LM2902			GL324							MC1488	
	LinearTech	LM119					HA17902							SN75188	
		LT119					LM2902							MC1489	
	National	LM119					MC33174							MC1489	
LM124	AMD	LM124		• LM2902			μA324							μA1489	
	Motorola	LM124					μPC451							DS1489	
	National	LM124					LM2902							MC1489	
	Plessey	ZN518					LM324							SN75189	
	Raytheon	LM124					TA75902							MC1489A	
	TI	LM124					LM2902							DS1489A	
• LM124A	AD	OP400					LM2902							MC1489A	
	Harris	CA0124					LM2903							SN75189A	
	LinearTech	LT1014					LM2903							MC1496	
	National	μA124					LM2902							SL1496	
		LM124A					LM2903							SG1496	
• LM124A	SGS-Thomson						LM2902							AD1508	
		LM124					LM2903							DAC1508	
		SG124					LM2903							DAC188BM	
	Signetics	SG124					LM2904							MC1508	
	SiliconG	CA0139					LM2904							MC1508	
	Harris	μA139					LM2904							EHA2600	
	Motorola	LM139					LM2904							HA2600	
	National	LM139					LM2904							MC1556	
		LM139					LM2904							ML1556	
	Raytheon	LM139					LM2904							SE556	
	Adv Analog	A158					LM2904							SP2600	
	Harris	CA0158A					LM2904							MC1556	
	Motorola	LM158					LM2904							SE556M	
	National	LM158A					LM2904							OP14 (3245, 3248)	
	TI	LM158					LM2904							OP215	
		LT1013					LM2904							OP270	
• LM1870	National	LM1870					LM2904							XR1458	
LM193	Motorola	LM193					LM2904							XR4558	
	National	LM193A					LM2904							MB3607	
	TI	LM193					LM2904							CA1458	
	AD	AD211					LM2904							CA1558	
		PM211					LM2904							HA17458	
	Motorola	LM211					LM2904							MC4558	
	National	LM211					LM2904							SE4558	
	SGS-Thomson						LM2904							μA1458	
		LM211					LM2904							μA4558	
		SG211					LM2904							LM1558	
	TI	LM211					LM2904							RC4558	
	AD	PM219					LM2904							MC4558	
		PM319					LM2904							SGS-Thomson	
	National	LM219					LM2904							LS4558	
		LM319					LM2904							MC4558	
	Samsung	KA219					LM2904							MC1458	
		KA319					LM2904							NE4558	
	SGS-Thomson						LM2904							SA4558	
		LM219					LM2904							SE4558	
	AD	OP400					LM2904							MC1458	
	Motorola	LM224					LM2904							MC1558	
	National	μA224					LM2904							MC4558C	
		LM224					LM2904							RC4558	
	Plessey	ZN448					LM2904								
	Samsung	LM224					LM2904								
		LM224A					LM2904								
	TI	LM224					LM2904								
	AD	PM239					LM2904								
LM239	Harris	CA0239					LM2904								

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALT. SOURCE DIRECTORY

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Signetics (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
NE555N	Motorola	MC1455		NE592	TI	NE592		N82HS641	AMD	AM27S49		N82S181	National	DM77S181	
	National	μA555				NE592-8			ATMEL	AT27HC641				DM77S281	
		LM555				SE592				AT27HC642				DM87S181	
NE555N	Samsung	NE555		NE594	Cherry Semi	CS594C			Cypress	CY7C261				DM87S281	
	SGS-Thomson	NE555			Dionics	DI514B				CY7C263			Raytheon	932451	
		NE555				DI514BR			Fujitsu	CY7C264				29631	
	Signetics	NE555			Exar	XR6118				MBM7144				29631AM	
		SE555			OKI	MSL912				MB7144			Signetics	S82S181	
NE555N	TI	SE555			Signetics	SA594				MB7144E			STC	STC5089	
		SE555M			TI	TL594C			ICT	27CX641			TI	28586-60	
		TA75555				TL594M			Microchip	27HC641		N82S185	AMD	AM27S185	
NE555N	Toshiba	TA7555		NE602	Toshiba	TD62781			National	322565				27S185	
NE556	Mitsubishi	M5E556			Lansdale	ML5445				932665			Fujitsu	MB7128	
	National	LM556			National	DM5445				932665C			Hitachi	HN25085	
	SGS-Thomson	NE556			SGS-Thomson					932667			Lansdale	HL7685	
		NE556				L602			NEC	μPD27HC65			National	DM87S185	
	TI	NE555				S042			Sharp	LH5749			Raytheon	29651	
		NE556				SA602				LH5749J				29651A	
NE5561	Signetics	SE5561		NE604	AD	AD7628			Signetics	27HC641			Signetics	S82S185	
NE5568	Allegro	ULN8168			Dionics	DI604A				27HC642		N82S191	TI	24S81-55	
	Micro	NE558			Maxim	AD7628				82HS641			AMD	AM27S191	
NE558	Samsung	NE558			MicroPwr	MP7628			SiliconSys	SS1203				AM27S191A	
NE5601	Allegro	ULN2001			Motorola	MC12020			TI	TMS278C49				27S191	
	Micro	ULN2001			SGS-Thomson				Waferscale	WS57C49			ATMEL	AT28HC191	
		ULQ2001				L604				WS57C49B				AT28HC191L	
		ULS2001			Siemens	S041P			N82H321	AMD	AM27S43		Cypress	CY7C291	
NE5601	Exar	XR2001		NE8392A	Fujitsu	MLB8392A				AM27S43A				CY7C292	
		XR2001C			National	DP8392				27S43				CY7C292A	
		XR2201		N2901A	National	F2901A			Fujitsu	MB7142			Hitachi	CY7C292AL	
NE5601	Motorola	ULN2001				IDM2901A			ICT	27CX321			Motorola	HN25169	
	SGS-Thomson	ULN2001		N5111	Allegro	ULN2111			Lansdale	HL76321				MCM76101	
		ULN2001			Micro	CA2111A			National	DM77S321			National	MCM76160	
	SiliconG	SG2001	(3643)		Harris	LM2111			Raytheon	R29671D				DM77S191	
	TI	ULN2001			National	LM2113				29671				DM87S191	
		ULN2001A				DS75121			Waferscale	29671A				DM87S291	
NE5602	Allegro	ULN2002		N8T13	National	N8T13				WS57C43B				DM87S291A	
	Micro	ULS2002			TI	SN75121			N82LS135	Fujitsu	MB7118			DM87S291B	
NE5602	Exar	XR2002C			Lansdale	RL8T20				TI	28L22			932510	
		XR2202		N8T20	Lansdale	ML74122	(3514)		N82S09	Signetics	S82S09			932511	
NE5602	Motorola	ULN2002		N8T22		ML8601			N82S123	AMD	AM27LS19			932512	
	SGS-Thomson	ULN2002			National	DM8601				AM27S19			Signetics	932511	
		ULN2002				DM9601				27S19				N82S191A	
	SiliconG	SG2002	(3643)			9601			Fujitsu	MB7112			TI	82S191	
	TI	ULN2002			Signetics	S8T22			Lansdale	HL7603				TBP38L166	
NE5603	Fujitsu	MB7113		N8T23	National	SN74122			National	DM74S288				TMS27C291	
NE5604	National	DM74S387				DS75122				DM8578			Waferscale	TMS27C292	
	Mitsubishi	M54526			TI	DS75123			Signetics	N82US123				WS57C191	
	Motorola	MC1416				SN75123				82S123				WS57C291B	
	Samsung	KA2658		N8T24	Lansdale	SL8T24			N82S126	National	DM54S387		N82S191A	AMD	AM27S191
	Sanyo	LB1234			National	DS75124				Signetics	S82S126			AM27S191A	
	Toshiba	TD62004			TI	SN75124			N82S129A	AMD	AM27S21			AM27S191SA	
		TD62104		N8T25	National	DS3625				27S21				27S191	
NE565	AD	AD565A		N8T26	Lansdale	SL8T26				MB7114			ATMEL	AT28HC191	
		AD565J	(3219)		Motorola	MC6880A				DM74S287				AT28HC191L	
	Harris	HI565A		N8T26A	Motorola	MC8T26				S82S129			Cypress	CY7C291	
	Maxim	AD565A			National	MC8T26A			N82S130	Fujitsu	MB7115			CY7C292	
	MCE	MCE565				μA8T26A				National	DM74S570			CY7C292A	
	MicroNet	MNS565A		N8T34	National	DS8834				Signetics	S82S130		Hitachi	HN25169	
	National	μA565		N8T37	Motorola	MC3437			N82S131	AMD	AM27S13		Motorola	MCM76101	
		LM565				DS8837				Harris	ICL7621			MCM76160	
NE566	Signetics	SE565			National	DS8836				Lansdale	HL7621		National	DM77S191	
	National	LM566		N8T380	National	DS8836				Maxim	ICL7621			DM87S191	
	Signetics	SE566		N8T74	National	9374				MicroPwr	MP7621			DM87S291	
NE567	Exar	XRL567		N8T95	Motorola	MC6885				National	DM74S571			DM87S291A	
		XR2567				MC8T95					DM74S571A			DM87S291B	
		XR567			National	DM8095				Signetics	S82S131			932510	
	MCE	MCE567		N82HS195	AMD	AM27S41			N82S135	AMD	63S281			932511	
	National	LM567				AM27S41A			N82S137	Signetics	S82S137			932512	
	Samsung	LM567				27S41			N82S140	Lansdale	HL7640			932511	
		LM567C				MB7152				National	DM74S475		Signetics	N82S191	
		LM567L				DM77S195					DM77S475			82S191	
	Sharp	IR3N05				DM87S195			N82S141	AMD	AM27S31		TI	TBP38L166	
	Signetics	SE567			Signetics	N82HS195A				Harris	HM6642			TMS27C291	
NE571	AD	ADC910				82HS195				National	DM74S474			TMS27C292	
		AD571			TI	TBP34S162				Signetics	S82S141			WS57C191	
		AD573			AMD	AM27S41A			N82S147	AMD	AM27S29			WS57C291B	
		MCE571				27S41				Fujitsu	MB7124		N82S191B	AMD	AM27S191
	National	μA571				MB7152				National	DM74S472			AM27S191A	
	NEC	μPC571			Fujitsu	DM77S195				Raytheon	29623			AM27S191SA	
NE592	Adv Analog	A733			National	DM87S195				Signetics	N82S147A			27S191	
	Motorola	MC1733				N82HS195					S82S147		N82S191B	ATMEL	AT28HC191
		NE592				82HS195			N82S180	National	DM87S180			AT28HC191L	
		μA733				TBP34S162					DM87S229		N82S191B	Cypress	CY7C291
	National	LM733			TI	AM27S45					AM27S181			CY7C292	
	Signetics	μA733		N82HS199	AMD	AM27S45A			N82S181	AMD	CY7C282M			CY7C292A	
		SE592				AM27S47				Cypress	S25089			CY7C292AL	
		SG1401	(3643)			CY7C245				Gould AMI	HN25089		N82S191B	Hitachi	HN25169
	SiliconG	μA733			Cyress	MB7238				Hitachi	HL7681			MCM76101	
	TI	μA733M			Fujitsu	WS57C45				Lansdale	DM77LS181			MCM76160	
			(Continued)		Waferscale		(Continued)			National		(Continued)			(Continued)

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Signetics (Cont'd)								(Cont'd)				(Cont'd)			
• N82S191B	National	DM77S191 DM87S191 DM87S291 DM87S291A DM87S291B 93Z510 93Z511 93Z512 93Z511 93Z511		• N8281	Lansdale National	ML8281 DM74177 DM8281 74177 SN74177		• PC74HC597	TI Toshiba	SN74HC597 TC74HC597A	(3674)	PLHS16L8	SGS-Thomson	GAL16V8 PLHS18P8 PLUS16L8	
• N82S191B	Signetics	N82S191 N82S191A 82S191		• PCF74HCT393	Signetics	CD74HCT393		• PC74HC7266	Harris Motorola National	CD74HC7266 MC74HC7266 MM74HC7266		PLHS18P8	TI	TIBPAL16H8 TIBPAL16L8 TIBPAL16L8-20	
• N82S191B	TI	TBP38L166 TMS27C291 TMS27C292		• PCF74HC190	Harris Hitachi National	CD74HC190 HD74HC190 MM74HC190			SGS-Thomson	M74HC7266 SN74HC7266 TC74HC7266A	(3674)		AMD	PAL10L8 GA23SV8 PEEL253	(3442)
• N82S191B	Waferscale	WS57C191 WS57C291B			SGS-Thomson	M74HC190		PLC153	AMD Gazelle Gould AMI ICT	PAL10L8 GA23SV8 PEEL253 PEEL153 PEEL253	(3442)		ICT	PEEL253 PEEL253 GAL16V8A GAL18V10	
N82S195	Cypress	CY7C253 CY7C254 S82S195		PCF8581	Siemens	SDA2516 SDA2526			Lattice	GAL16V8A GAL18V10 PAL10L8		PLS153	AMD	PAL10L8 GA23SV8 PEEL253	(3442)
N82S212	Signetics	93479		• PC74HC190	Harris Hitachi National	CD74HC190 HD74HC190 MM74HC190		• PLC16V8	National Signetics	PLHS18P8 PLS153 PALCE16V8 PAL16L8			Gould AMI ICT	PEEL153 PEEL253 GAL16V8A GAL18V10	
N82S23	Signetics	N82US123 S82S23			SGS-Thomson	M74HC190		• PLC16V8	AMD	HPL16L8C-5 5C031 5C032			Lattice	PEEL253 GAL16V8A GAL18V10	
N82S25	TI	TBPSA030			Signetics	74HC190		• PLC16V8	Cypress	CPL16L8 PAL16L8			National Signetics	PLC153 PLHS18P8 PLC153	
• N82S321	AMD	AM27S43 AM27S43A 27S43		• PC74HC4050	Harris Motorola	CD74HC4050 MC74HC4050 MC84HC4050		• PLC16V8	Harris	HPL16L8C-5 5C031 5C032		PLS153A	Gould AMI ICT	PEEL253 PEEL153 PEEL253	(3442)
• N82S321	Fujitsu ICT	MB7142 27CX321			SGS-Thomson	M74HC4050		• PLC16V8	Intel	GAL16V8A GAL18V10 GAL16V8 PAL16L8		PLS155	Signetics	PLHS18P8	
	Lansdale	HL76321		• PC74HC4050	National	MM74HC4050		• PLC16V8	Lattice	GAL16V8A GAL18V10 GAL16V8 PAL16L8		PLS157	AMD	27S29 OP15 PM157	
	National	DM77S321 R29671D 29671 29671A			Signetics	74HC4050			National	16L8A 16P8A 16P8B			AD	PM157A HL7649 LF351	
• N82S321	Signetics	N82H321		• PC74HC4066	Harris Motorola	CD74HC4066 MC74HC4066 MM74HC4066		• PLC16V8	Samsung	CPL16L8 CPL16L8-25 CPL16L8-35 CPL16V8			Lansdale Motorola National	LF351 LF351 LF351 LF351 LF351	
N82S80	Motorola	WS57C43B SN74LS196			SGS-Thomson	M74HC4066		• PLC16V8	SGS-Thomson	GAL16V8 PLHS16L8 PLHS18P8 PLUS16L8			NEC	µPC157 29621 KF351	
	National	DM74LS196 74LS196		• PC74HC4075	National	MM74HC4075			Signetics	PLHS16L8 PLHS18P8 PLUS16L8 TIBPAL16H8		• PLS159	Signetics	PLHS18P8 PLS155	
	Panasonic	DN74LS196			SGS-Thomson	M74HC4066		• PLC20V8	Gould AMI	PEEL20CG10	(3442)		Gould AMI	PEEL20CG10	(3442)
	SGS-Thomson	T74LS196 SN74LS196			Signetics	74HC4066			Harris ICT	CD54AC158 PEEL20CG10			ICT	PEEL20CG10	
N82US123	AMD	AM27LS19 AM27S19 27S19		• PC74HC4094	Harris Mitsubishi Motorola	CD74HC4094 M5M5178 MCM61164		• PLC16V8	TI	GAL20V8 54AC158 CPL20V8		PLS173	AMD	PAL12L16 PAL16L6	
	Fujitsu	MB7112			SGS-Thomson	M74HC4094		• PLC20V8	Samsung	GAL20V8 PAL10L8 PAL16L8 TIBPAL16L8-20				PLUS16L8	
	Lansdale	HL7603			Sharp	LH5167			SGS-Thomson	GAL20V8 PAL10L8 PAL16L8 TIBPAL16L8-20				PLUS16L8	
	National	DM74S288 DM8578 N82S123 82S123		• PC74HC4094	Harris	CD74HC4094		• PLC20V8	Gould AMI	PEEL20CG10	(3442)				
N82147	National	DM74147			Signetics	74HC4075			Harris National	CD54AC158 PEEL20CG10					
N82148	National	SN74147 DM74148 DM8318 SN74148			TI	SN74HC4075		• PLC20V8	Samsung	54AC158 CPL20V8					
• N8230	Lansdale	ML8312 ML9312 RL8230		• PC74HC4094	Harris	CD74HC4094		• PLC20V8	SGS-Thomson	GAL20V8 PAL10L8 PAL16L8 TIBPAL16L8-20					
• N8230	National	9312			Motorola	MCM61164		• PLHS153	AMD	GAL20V8 PAL10L8 PAL16L8 TIBPAL16L8-20					
N8243	Intel	8243			SGS-Thomson	M74HC4094			Gazelle Gould AMI ICT	GA23SV8 PEEL253 PEEL153 PEEL253	(3442)				
	Lansdale	RL8243		• PC74HC4515	SGS-Thomson	M74HC4515		• PLHS153	Lattice	GAL16V8A GAL18V10 PAL10L8 PLC153					
• N8250	National	µPD8243 SL8250			Signetics	74HC4094		• PLHS153	National	PLHS18P8 PLS153 PEEL253	(3442)				
N825147A	AMD	INS8250A AM27S29		• PC74HC4518	Harris	CD74HC4518		• PLHS153*2	Gould AMI ICT	PEEL153 PEEL253 PEEL253					
	Fujitsu	MB7124			LogicDev	IDT71781		• PLHS153*2	Signetics	PLS153A PALCE16V8 PAL16L8					
	National	DM74S472			Motorola	L7C171		PLHS16L8	AMD	PLCE16V8 PAL16L8 PALCE16L8 PAL16L8					
	Raytheon	29623		• PC74HC4543	SGS-Thomson	M74HC4518			Cypress	HPL16L8C HPL16L8C-5 5C031 5C032					
• N8252	Lansdale	N82S147 S82S147 ML8301 ML9301 RL8252 SL8252			Signetics	74HC4518			Harris	GAL16V8A GAL18V10 GAL16V8 PAL16L8					
• N8252	National	DM8301 DM9301 9031 9301			TI	TC74HC4518			Intel	PEEL253 PEEL253 PEEL253					
• N8252	Signetics	S8252			LogicDev	IDT71782			Lattice	GAL16V8A GAL18V10 GAL16V8 PAL16L8					
N8274	Lansdale	RL8274		• PC74HC597	Harris	CD74HC597			National	PLS153A PALCE16V8 PAL16L8 PALCE16L8 PAL16L8					
• N8280	Lansdale	ML8280 RL8280			Motorola	HD74HC597				PLS153A PALCE16V8 PAL16L8 PALCE16L8 PAL16L8					
• N8280	National	DM74176 DM8280 96176			SGS-Thomson	MM74HC597			Samsung	CPL16L8 CPL16L8-25 CPL16L8-35 CPL16V8					
• N8280	Signetics	74176			Signetics	M74HC597				PEEL253 PEEL253 PEEL253					
	TI	SN74176				74HC597				PEEL253 PEEL253 PEEL253					

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Signetics (Cont'd)				PLUS20R6 (Cont'd)				SA604 (Cont'd)				SE115 (Cont'd)			
PLUS16R4	GoldStar Harris Intel	GM231024	(Cont'd)	PLUS20R6D	National Samsung TI	PAL20R6A	(3442)	SA741	SGS-Thomson	L604	(3393)	SE115	Lansdale	SL115	(3513)
		HPL16R4				CPL20R6-25				SO41P		SE116		SL116	
		5C031				TIBPAL20R6A				OP02		SE124		SL124	
		5C032				PAL20R6D				OPA11		SE125		SL125	
		GAL16V8A				82450				CA0741		SE150		SL150	
	Lattice	GAL16V8A		PLUS20R8	AMD National Cypress Gould AMI	PAL20R8			SCC80C32B SCC80C51B	MPOPO2		SE155		SL155	
		GAL18V10				PLDC20G10				SAB80C32		SE156		SL156	
		PAL16R4				PEEL20CG10				MBL80C51		SE157		SL157	
		CPL16R4				PEEL20CG10				P80C51		SE160		SL160	
		CPL16R4-35				GAL20V8A				P80C51BH		SE161		SL161	
PLUS16R4-7 PLUS16R4D	TI	TIBPAL16R4			National	F100166				80C51		SE162		SL162	
		TIBPAL16R4-7				PAL20R8			SCC80C52B SCN2651 SCN2661	M80C51		SE170		SL170	
		PAL16R4D				CPL20R8-35				SC80C51		SE180		SL180	
		GAL16V8A-10L				100166				SAB80C52		SE181		SL181	
						TIBPAL20R8				INS2651		SE300		SL300	
	AMD Cypress	PAL16R6		PLUS20R8D SA1458	AMD	TIBPAL20R8-20				AY2661		SE301		SL301	
		CYPAL16R6				PAL20R8D				MC2661		SE302		SL302	
		GA23SV8				OP14 (3245, 3248)				MC68661		SE304		SL304	
		GA23S8				HA2102				AY2661		SE305		SL305	
		GA23S8				HA5102				COM2661		SE314		SL314	
PLUS16R6	Harris	HPL16RC6			MicroPwr National	MP0P14			SCN2681 SCN68000	XR88C681		SE316		SL316	
		HPL16RC6-5				HA1458HC				MC2681		SE317		SL317	
		HPL16R6				LF412				MC2682		SE320		SL320	
		5C031				LM1458				68000		SE321		SL321	
		5C032				PC251				MC68000		SE322		SL322	
	Lattice	GAL16V8A			NEC Raytheon	RC4207				TS68000		SE328		SL328	
		GAL18V10				RC4227				MC68681		SE331		SL331	
		PAL16R6				MC1458			SCN68681 SCN8031	AMD8031		SE332		SL332	
		CPL16R6				SE5512				P8031AH		SE333		SL333	
		CPL16R6-35				SE5512				SAB8031		SE334		SL334	
PLUS16R6-7 PLUS16R6D	TI	TIBPAL16R6			Signetics	MC1458				SCN8031AH		SE337		SL337	
		TIBPAL16R6-20				NE5512				AMD8031		SE352		SL352	
		TIBPAL16R6-30				SE5512				P8031AH		SE356		SL356	
		TIBPAL16R6-7				LF412				SAB8031		SE357		SL357	
		TIBPAL16R6D				TA75458				SCN8031A		SE358		SL358	
	AMD Lattice	GAL16V8A-10L			TI	TA75558			SCN8032	SCN8031		SE362		SL362	
						OP215				P8032		SE363		SL363	
						OP270				P8032AH		SE370		SL370	
						XR1458				8032		SE374		SL374	
						XR4558				P8032AH		SE375		SL375	
PLUS16R8	AMD Cypress	PAL16R8			Exar	XA4558				SAB8032		SE377		SL377	
		PALC16R8				MB3607				SCN8032AH		SE380		SL380	
		PAL16R8				CA1458			SCN8032AH	Intel		SE381		SL381	
		GA23SV8				CA1558				P8032AH		SE384		SL383	
		GA23S8				HA17458				8032		SE387		SL387	
	Harris	HPL16RC8			Hitachi Motorola	MC4558				SAB8032		SE391		SL391	
		HPL16RC8-5				SE4558				SCN8032		SE415		SL415	
		HPL16R8				SE4558				8048		SE416		SL416	
		5C031			National	LM1558				INS8048		SE417		SL417	
		5C032				LM1558				TMP8048		SE424		SL424	
PLUS16R8-7 PLUS16R8D	Lattice	GAL16V8A			Raytheon	RC4558			SCN8049	Intel		SE425		SL425	
		GAL18V10				RM4558				INS8049		SE440		SL440	
		PAL16R8				MC4558				TMP8049		SE455		SL455	
		CPL16R8				LS4558				P8051		SE4558		AD	
		CPL16R8-35				MC4558				P8051AH		OP215		OP14 (3245, 3248)	
	National Samsung	CPL16R8L-35			SGS-Thomson	MC1458				SAB8051		OP270		XR1458	
		SN74PAL16R8A				MC1558				SCN8051AH		XR4558		MB3607	
		TIBPAL16R8				NE4558				P8051		Fujitsu		CA1458	
		TIBPAL16R8-20				SE4558				SAB8051		Harris		CA1558	
		TICPAL16R8				MC1458				SCN8051A		Hitachi		HA17458	
PLUS16R8-7 PLUS16R8D	TI	TIBPAL16R8-7			TI	MC1558				SCN8051		Motorola		MC4558	
		PAL16R8D				MC4558C				SAB8052		National		SE4558	
		GAL16V8A-10L				RM4558				SCN8052AH		LM1558		LM1558	
						TL4558				SAB8052		Raytheon		RC4558	
		TIBPAL16R8D				TA75458				SCN8052		Samsung		MC4558	
	AMD	PAL20L8A			Cherry Semi Dionics	CS594C			SC2261-1 SC2661-2 SC2661-3 SC80C31	Microchip		SGS-Thomson		LS4558	
		PAL20L8B-2				DI514B				AY2661A				MC4558	
		GAL20V8A				DI514BR				AY2661B				MC1458	
		PAL20L8A				XR6118				AY2661C				MC1558	
		CPL20L8-25				MSL912				P80C31BH				NE4558	
PLUS20L8 PLUS20R4	Lattice	TIBPAL20L8-25			Exar	NE594				80C31				SA4558	
		TIBPAL20L8A				TL594C				M80C31				MC1458	
		PAL20L8-10				TL594M				MBL80C51				MC1558	
		PAL20R4A				TD62781				P80C51BH				MC1458	
		PAL20R4B-2				ML5445				80C51				MC1558	
	National Samsung	GAL20V8A			Lansdale	DM5445			OKI Signetics Siliconix	M80C51				MC4558C	
		PAL20R4A				L602				SD5200				RC4558	
		CPL20R4				S042				S15200				RM4558	
	PLUS20R4D	TI	TIBPAL20R4-25	Siemens Signetics	NE602	SE101 SE102 SE105 SE106 SE110 SE111 SE112 SE113	Lansdale		SL101		SE470	Lansdale	SL470		
TIBPAL20R4A			SN5445		Lansdale			SL102		SE471	Lansdale	SL471			
PAL20R4D			AD7628		Lansdale			SL105		SE480	Lansdale	SL480			
8250B			DI604A		Lansdale			SL106		SE481	Lansdale	SL481			
UM8250B (3690)			AD7628		Lansdale			SL110		SE490	Lansdale	SL490			
AMD Lattice		PAL20R6A	MicroPwr Motorola	MP7628	Lansdale			SL111							
		GAL20V8A		MC12020	Lansdale			SL112							

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Signetics (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
SE5008	AD	AD1508		SE5512	NEC	PC251		SE555	TI	SE555		SG2524C	National	μA2524	
SE5008	Datel	DAC1508			Raytheon	RC4207				SE555M				LM2524	
SE5008	Motorola	DAC1508				RC4227			Toshiba	TA7555			SGS-Thomson	SG2524	
SE5009	National	MC1508			Samsung	MC1458		SE556	Elantec	EHA2600			SiliconG	SG2524 (3642)	
SE5009	Signetics	MC1508			SGS-Thomson	μA1458			Harris	HA2600			TI	SG2524B (3642)	
SE5009	AD	AD1508				MC1458			Motorola	ML1556			Unitrode	UC2524	
SE5009	Datel	DAC1508			Signetics	NE5512			Sipex-HSD	SP2600		SG3524	Cherry Semi	CS3524	
SE5009	Motorola	DAC1508			TI	SA1458			TI	MC1556			Exar	XR3524	
SE5019	National	MC1508		SE5514	Toshiba	TA75458		SE5561	Signetics	NE5561	(3219)		Harris	CA3524	
SE5019	Signetics	MC1508			AD	OP470		SE558	Exar	XR558			National	LM3524	
SE5105	AMD	AM686	(3239)		Harris	HA4600		SE565	AD	AD565A			SGS-Thomson	SG3524	
SE5105	AD	AD9686				HA5104				AD565J				SG3524C	
SE5105	National	LM161			Raytheon	RC4156			Harris	HI565A			Signetics	SG3524 (3642)	
SE5105		LM260				RM4156			Maxim	AD565A			SiliconG	SG3524B (3642)	
SE5105		LM261			Signetics	NE5514			MCE	MCE565			Unitrode	UC3524	
SE5105	Signetics	NE5105		SE5532	TI	TL136			MicroNet	MN565A				UC3524A	
SE5105		NE527			AD	XR4156	(3242)	SE566	National	μA565		SG3524C	Cherry Semi	CS3524	
SE5105		SE527			Exar	OP270			Signetics	LM565			Exar	XR3524	
SE5105	VTC	VA7696			MicroPwr	XR5532		SE567	Signetics	NE566			Harris	CA3524	
SE511	Lansdale	SL511			Signetics	MP5532			Exar	XRL567			National	LM3524	
SE5118	Signetics	NE5118				NE5532				XR2567			SGS-Thomson	SG3524	
SE5119	Datel	DACUP88		SE5532A	TI	NE5532A	(3242)		MCE	XR567			Signetics	SG3524	
SE5119	Signetics	NE5019				NE5532A			National	MCE567			SiliconG	SG3524 (3642)	
SE5119		NE5119			AD	OP270			Samsung	LM567			Unitrode	SG3524B (3642)	
SE526	Lansdale	SL526			Exar	XR5532				LM567C		SG3526	SiliconG	SG3526 (3642)	
SE527	AMD	AM686	(3239)		MicroPwr	XR5532A		SE592	Sharp	IR3N05			Unitrode	UC3526	
SE527	AD	AD9686			Signetics	MP5532			Signetics	NE567				UC3626	
SE527	National	LM161				NE5532			Adv Analog	A733		SG3844	Cherry Semi	CS3844	
SE527		LM260			TI	SE5532			Motorola	MC1733			UMC	UC3844	
SE527	Signetics	LM261				NE5532A			National	μA733		SN54F240	Motorola	MC54F240	
SE527		LM263			Exar	SE5532			Signetics	LM733			National	54F240	
SE527		NE5105		SE5533	Signetics	NE5532A				μA733			Signetics	54F240	
SE527		NE527				NE5533				NE592		SN74LS645-1	TI	SN54F240	
SE527		SE5105			TI	NE5533A			SiliconG	SG1401	(3643)		Motorola	SN74LS645	
SE527		VA7696			Exar	NE5533A			TI	μA733M			SGS-Thomson	T74LS645	
SE530	VTC	VA7696			Signetics	NE5533A				NE592-8				74LS645	
SE530	AD	AD518				NE5533A				SE592		SP380	National	DS8640	
SE530	Elantec	EL2041			TI	NE5533		SE616	Lansdale	SL616		SG3271	Lansdale	SL3271	
SE530	LinearTech	LT1023			AnalogSys	MA332		SE620	Lansdale	SL620		SG3281	Lansdale	SL3281	
SE530	National	LM118			Raytheon	RM5534		SE629	Lansdale	SL629		SG4152	Lansdale	SL4152	
SE530	SGS-Thomson	LM318			Signetics	NE5531		SE631	Lansdale	SL631		SG447	Lansdale	SL447	
SE530		LM318				NE5534		SE659	Lansdale	SL659		SG448	Lansdale	SL448	
SE530	Signetics	NE530			TI	NE5534A		SE670	Lansdale	SL670		SG460	Lansdale	SL460	
SE530		NE538				NE5534A		SE680	Lansdale	SL680		SG480	Lansdale	SL480	
SE530		SE531				NE5534A		SE690	Lansdale	SL690		S7281	National	DM54177	
SE530	TI	LM318				SE5534		SE700	Lansdale	SL700				DM7281	
SE530	AD	AD518		SE5534A		SE5534A		SE701	Lansdale	SL701		SG74H101	Lansdale	SL74H101	
SE530	Elantec	EL2041			AnalogSys	MA332		SE704	Lansdale	SL704		SG74H102	Lansdale	SL74H102	
SE530	LinearTech	LT1023			Raytheon	RM5534		SE716	Lansdale	SL716		SG74H106	Dense-Pac	DP57M464	
SE530	National	LM118			Signetics	NE5531		SE720	Lansdale	SL720			IDT	IDT7M464	
SE530	SGS-Thomson	LM318				NE5534		SE721	Lansdale	SL721			Lansdale	SL74H106	
SE530		LM318				NE5534A		SE727	Lansdale	SL727		SG74H55	Lansdale	SL74H55	
SE530	Signetics	NE530			TI	SE5534		SE730	Lansdale	SL730		SG74H61	Lansdale	SL74H61	
SE530		NE538				SE5534A		SE731	Lansdale	SL731		SG74H62	Lansdale	SL74H62	
SE530		SE531				NE5534		SE732	Lansdale	SL732		SG8T04	Lansdale	SL8T04	
SE530	TI	LM318				NE5534A		SG1524	Exar	XR1524		SG8T05	Lansdale	SL8T05	
SE530	AD	AD518		SE5539	AD	AD5539	(3240)		LinearTech	LT1524		SG8T06	Lansdale	SL8T06	
SE530	Elantec	EL2041				AD839		SG1524	National	μA1524		SG8T10	National	DM54173	
SE530	LinearTech	LT1023			Elantec	AD849	(3240)			LM1524				DM7551	
SE530	National	LM118				EL2038		SG1524	SGS-Thomson	SG1524		SG8T10	TI	SN54173	
SE530	SGS-Thomson	LM318				EL2039				SG1524	(3642)	SG8T13	National	DS55121	
SE530		LM318				MC5539			SiliconG	SG1524B	(3642)		TI	SN55121	
SE530	Signetics	NE530			Motorola	LM6365		SG1524	Unitrode	UC1524		SG8T14	Lansdale	SL8T14	
SE530		NE538			National	NE5539				UC1524A			National	DS55122	
SE530		SE530			Signetics	NE5539		SG2524	Exar	XR2524			TI	SN55122	
SE530		SE531			Exar	XR555			LinearTech	LT2524		SG8T15	Lansdale	SL8T15	
SE530	TI	LM318		SE555		XR555M		SG2524	National	SG2524		SG8T16	Lansdale	SL8T16	
SE530	Datel	DAC108M			GoldStar	GLC555				LM2524		SG8T18	Lansdale	SL8T18	
SE530	AD	OP14	(3245, 3248)		Harris	CA0555		SG2524	SGS-Thomson	SG2524		SG8T20	Lansdale	SL8T20	
SE530		OP270				NE555				SG2524C		SG8T22	Lansdale	ML74122 (3514)	
SE530	Harris	HA2102			Mitsubishi	M5E555			Signetics	SG2524C	(3642)		National	DM8601	
SE530		HA5102				M51841		SG2524	SiliconG	SG2524	(3642)			DM9601	
SE530	MicroPwr	MP0P14			Motorola	M51848			TI	SG2524		SG8T31	Signetics	N8722	
SE530	National	μA1458HC				MC1455			Unitrode	UC2524		SG8T33	Lansdale	SL8T33	
SE530		LF412			Samsung	μA555		SG2524C	Exar	XR2524		SG8T35	Lansdale	SL8T35	
SE530		LM1458			SGS-Thomson	LM555			LinearTech	LT2524		SG8T36	Lansdale	SL8T36	
			(Continued)		Signetics	NE555	(Continued)			SG2524	(Continued)	SG8T80	Lansdale	SL8T80	(Continued)

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Signetics (Cont'd)				S82S5129	AMD	AM27S21 27S21		S8808	Lansdale	SL8808		ULN2004	TI	ULN2004	(Cont'd)
S8T90	Lansdale	SL8T90			Fujitsu	MB7114		S8815	Lansdale	SL8815		ULN2004A		ULN2004A	
S8T95	TI	SN54365A			National	DM74S287		S8816	Lansdale	SL8816		ULN2004A		ULN2004A	
S8T96	Lansdale	SL8T96			Signetics	N82S129A		S8821	Lansdale	SL8821		ULN2004A		ULN2004A	
	National	DM7096		S8202	Lansdale	S82S129		S8822	Lansdale	SL8822		ULN2004A		ULN2004A	
S8T97	TI	SN54366A		S8203	Lansdale	SL8202		S8825	Lansdale	SL8825		ULN2004A		ULN2004A	
	National	DM7097		S82147	Harris	CD4508B		S8827	Lansdale	SL8827		ULN2004A		ULN2004A	
S8T98	National	DM7098			Motorola	MC14508		S8829	Lansdale	SL8829		ULN2004A		ULN2004A	
	TI	SN54367A			SGS-Thomson	CC4508		S8844	Lansdale	SL8844		ULN2004A		ULN2004A	
	TI	SN54368A						S8848	Lansdale	SL8848		ULN2004A		ULN2004A	
S8162	Lansdale	SL8162				HCC/HCF4508		S8855	Lansdale	SL8855		ULN2004A		ULN2004A	
S82S100	Signetics	N82S100				HCC4508		S8870	Lansdale	SL8870		ULN2004A		ULN2004A	
S82S126	National	DM54S387				HCF4508		S8875	Lansdale	SL8875		ULN2004A		ULN2004A	
	Signetics	N82S126		S82147	Signetics	HEF4508		S8880	Lansdale	SL8880		ULN2004A		ULN2004A	
S82S129	AMD	AM27S21			Toshiba	TC4508B		S8881	Lansdale	SL8881		ULN2004A		ULN2004A	
		27S21		S82148	National	DM74148		S8885	Lansdale	SL8885		ULN2004A		ULN2004A	
	Fujitsu	MB7114				DM8318		TBA120	AEG Corp	TBA120		ULN2004A		ULN2004A	
	National	DM74S287		S82148	Signetics	N82148			National	TBA120		ULN2004A		ULN2004A	
	Signetics	N82S129A			TI	SN74148			Siemens	TBA120		ULN2004A		ULN2004A	
S82S130	Fujitsu	MB7115		S8221	Lansdale	SL8221		TBA530	Plessey	TBA530		ULN2004A		ULN2004A	
	National	DM74S570		S8224	Intel	8224		TBA540	AEG Corp	TBA540		ULN2004A		ULN2004A	
	Signetics	N82S130			National	DP8224		TBA560	Plessey	TBA560		ULN2004A		ULN2004A	
S82S131	AMD	AM27S13		S8230	Lansdale	ML8312		TBA750	Plessey	TBA750		ULN2004A		ULN2004A	
	Harris	ICL7621				ML9312		TBA810	National	TBA810		ULN2004A		ULN2004A	
	Lansdale	HL7621				RL8230			SGS-Thomson	TBA810		ULN2004A		ULN2004A	
	Maxim	ICL7621		S8230	National	9312		TBA920	Plessey	TBA920		ULN2004A		ULN2004A	
	MicroPwr	MP7621		S8231	Intel	8231			SGS-Thomson	TBA920		ULN2004A		ULN2004A	
	National	DM74S571			Lansdale	SL8231		TC74HC298A	Hitachi	HD74HC298		ULN2004A		ULN2004A	
		DM74S571A		S8232	Lansdale	SL8232			Motorola	MC74HC298		ULN2004A		ULN2004A	
	Signetics	N82S131		S8233	Lansdale	SL8233			National	MM74HC298		ULN2004A		ULN2004A	
S82S137	Signetics	N82S137		S8234	Lansdale	SL8234			SGS-Thomson	M74HC298		ULN2004A		ULN2004A	
S82S140	Lansdale	HL7640		S8235	Lansdale	SL8235			TI	SN74HC298		ULN2004A		ULN2004A	
	National	DM74S475		S8241	Motorola	SN54LS386			Toshiba	TC74HC298A		ULN2004A		ULN2004A	
		DM77S475			National	DM54LS386						ULN2004A		ULN2004A	
S82S141	AMD	AM27S31		S8242	Lansdale	SL8242						ULN2004A		ULN2004A	
	Harris	HM6642		S8243	Lansdale	SL8243						ULN2004A		ULN2004A	
	National	DM74S474		S8250	Lansdale	SL8250						ULN2004A		ULN2004A	
	Signetics	N82S141			National	INS8250						ULN2004A		ULN2004A	
S82S147	AMD	AM27S29				INS8250A						ULN2004A		ULN2004A	
	Fujitsu	MB7124		S8251	Lansdale	SL8251						ULN2004A		ULN2004A	
	National	DM74S472		S8252	Lansdale	ML8301						ULN2004A		ULN2004A	
	Raytheon	29623				ML9301						ULN2004A		ULN2004A	
	Signetics	N82S147				RL8252						ULN2004A		ULN2004A	
S82S16	National	N82S147A				SL8252						ULN2004A		ULN2004A	
S82S17	National	DM54S200				DM8301						ULN2004A		ULN2004A	
		S82S117			National	DM9301						ULN2004A		ULN2004A	
		S82S17				9031						ULN2004A		ULN2004A	
S82S181	AMD	AM27S181		S8260	Lansdale	SL8260						ULN2004A		ULN2004A	
	Cypress	CY7C282M		S8261	Lansdale	SL8261						ULN2004A		ULN2004A	
	Gould AMI	S25089		S8263	Lansdale	SL8263						ULN2004A		ULN2004A	
	Hitachi	HN25089		S8264	Lansdale	SL8264						ULN2004A		ULN2004A	
	Lansdale	HL7681		S8266	Lansdale	ML8266						ULN2004A		ULN2004A	
	National	DM77LS181				SL8266						ULN2004A		ULN2004A	
		DM77S181				SL8267						ULN2004A		ULN2004A	
		DM77S281		S8267	Lansdale	SL8267						ULN2004A		ULN2004A	
		DM87S181		S8273	Lansdale	SL8273						ULN2004A		ULN2004A	
		DM87S281		S8274	Lansdale	SL8274						ULN2004A		ULN2004A	
		932451		S8275	Lansdale	SL8275						ULN2004A		ULN2004A	
		29631		S8277	Lansdale	SL8277						ULN2004A		ULN2004A	
		29631AM		S8280	Lansdale	ML8280						ULN2004A		ULN2004A	
	Signetics	N82S181				RL8280						ULN2004A		ULN2004A	
	STC	STC5089				DM74176						ULN2004A		ULN2004A	
	TI	28586-60		S8280	National	DM74176						ULN2004A		ULN2004A	
S82S185	AMD	AM27S185				DM8280						ULN2004A		ULN2004A	
		27S185				96176						ULN2004A		ULN2004A	
		MB7128		S8280	Signetics	74176						ULN2004A		ULN2004A	
	Hitachi	HN25085			TI	SN74176						ULN2004A		ULN2004A	
	Lansdale	HL7685		S8281	Lansdale	SL8281						ULN2004A		ULN2004A	
	National	DM87S185		S8284	Lansdale	SL8284						ULN2004A		ULN2004A	
	Raytheon	29651		S8285	Lansdale	SL8285						ULN2004A		ULN2004A	
		29651A		S8290	Lansdale	SL8290						ULN2004A		ULN2004A	
		N82S185		S8291	Lansdale	SL8291						ULN2004A		ULN2004A	
	TI	24S81-55		S8292	Lansdale	SL8292						ULN2004A		ULN2004A	
S82S190	Hitachi	HN25168		S8293	Lansdale	SL8293						ULN2004A		ULN2004A	
	National	DM77S190		S8415	Lansdale	SL8415						ULN2004A		ULN2004A	
		DM87S190		S8416	Lansdale	SL8416						ULN2004A		ULN2004A	
S82S190	Waferscale	WS57C291B		S8417	Lansdale	SL8417						ULN2004A		ULN2004A	
S82S195	Cypress	CY7C253		S8424	Lansdale	SL8424						ULN2004A		ULN2004A	
		CY7C254		S8425	Lansdale	SL8425						ULN2004A		ULN2004A	
	Signetics	N82S195		S8440	Lansdale	SL8440						ULN2004A		ULN2004A	
S82S212	National	93479		S8455	Lansdale	SL8455						ULN2004A		ULN2004A	
	Signetics	N82S212		S8470	Lansdale	SL8470						ULN2004A		ULN2004A	
S82S23	Signetics	N82S23		S8471	Lansdale	SL8270						ULN2004A		ULN2004A	
		N82U123				SL8471						ULN2004A		ULN2004A	
	TI	TBPSA030		S8471	Motorola	SN54LS12						ULN2004A		ULN2004A	
S82S25	Signetics	N82S25			TI	SN54LS12						ULN2004A		ULN2004A	
S82S41	Lansdale	SL8241		S8480	Lansdale	SL8480						ULN2004A		ULN2004A	
	Motorola	SN54LS386		S8481	Lansdale	SL8481						ULN2004A		ULN2004A	
	National	DM54LS386		S8490	Lansdale	SL8490						ULN2004A		ULN2004A	
	TI	SN54LS386		S8806	Lansdale	SL8806						ULN2004A		ULN2004A	
(Continued)				(Continued)				(Continued)				(Continued)			

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Signetics (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
100422B	National	F100422 F100422C NMC5295 μPB100422 100422A VS12G422E	(Cont'd)	• 10415	Motorola	MCM10146 DM10415 GXB10415		2632A	Intel	UM2168 51C69 RO9432 M58333 F3532 NM52132 NCR2332 Panasonic MN2332 Sharp LH2332 Siemens SAB8332 SA88332	(Cont'd)	27HC641	Signetics	N82HS641 27HC642 82HS641 SS1203 TMS278C49 WS57C49 WS57C49B AM27S49 27S49	(Cont'd)
• 100470	NEC	μPB100470A		• 10422	Fujitsu	MBM10422A			NCR	NCR2332		27HC642	AMD	AT27HC641 AT27HC642	
	Vitesse	VS12G422E			Hitachi	HM10422			Panasonic	MN2332			ATMEL	CY7C261 CY7C263 CY7C264	
	Fujitsu	MBM100470A		• 10470	National	DM10470			Sharp	LH2332			Cypress	MBM7144 MB7144 MB7144E	
	Hitachi	HM100470			NEC	μPB10470			Siemens	SAB8332			Fujitsu	27C641 27C642	
	Hyundai	HY53C256			Saratoga	SSM10470			Signetics	2332			ICT	27HC641	
	Motorola	MCM100470		• 10474	Cypress	CY10E47L			TI	D51C69			National	93Z665 93Z665C 93Z667C	
	National	DM100470			Fujitsu	MBM10474A			VLSI Tech	VT2332			NEC	μPD27HC65	
	NEC	μPB100470			Hitachi	HM10474			Microchip	RO9464			Sharp	LH5749 LH5749J	
	Vitellic	V51C257 V53C256			National	DM10474			National	MM52164			Signetics	N82HS641 27HC641 82HS641	
• 100474	Cypress	CY10E474L		• 10474	NEC	F10474 μPB10474 μPB10474A			Signetics	26S64			SiliconSys	SS1203	
	Fujitsu	MBM100474A		• 10474	Saratoga	SSM10474			Krueger	4116-120 (3513) 4116-150 (3513) 4116-200 (3513)			TI	TMS278C49	
	Hitachi	HM100474		• 10474	AMD	AM9128							Waferscale	WS57C49 WS57C49B	
	Motorola	MCM100474		23128	Gould AMI	S23128							AMD	AM2960	
	National	F100474			Microchip	RO9128							IDT	IDT39C60	
• 100474	NEC	μPB100474 μPB100474A			NCR	NCR23128							Lansdale	SL300	
• 100474	Saratoga	SSM100474			UMC	UM23128							Lansdale	SL301	
10100	Motorola	MC10100			VLSI Tech	VT23128							Lansdale	SL302	
10101	Motorola	MC10101				VT23129							Lansdale	SL304	
10102	Motorola	MC10102				VT23129A							Lansdale	SL305	
10103	Motorola	MC10103				VT23130							Lansdale	SL306	
10104	Motorola	MC10104				VT23138							Lansdale	SL314	
10105	Motorola	MC10105			23256	Catalyst							Lansdale	SL315	
10106	Motorola	MC10106			Semi	CAT71C256							Lansdale	SL316	
10107	Motorola	MC10107			Gould AMI	S23256							Lansdale	SL317	
10109	Motorola	MC10109			NCR	NCR23256							Lansdale	SL320	
10110	Motorola	MC10110				NCR23257							Lansdale	SL321	
10111	Motorola	MC10111			OKI	MSM38256							Lansdale	SL322	
10114	Motorola	MC10114			Panasonic	MN23257							Lansdale	SL3271	
10115	Motorola	MC10115				SMM23256							Lansdale	SL328	
10116	Motorola	MC10116			S-MOS	SMM6325							Lansdale	SL3281	
	National	DM10116				SMM6326							Lansdale	SL331	
10117	Motorola	MC10117			Signetics	23256A							Lansdale	SL332	
10118	Motorola	MC10118			Toshiba	TC53257							Lansdale	SL333	
10119	Motorola	MC10119			VLSI Tech	VT23256							Lansdale	SL334	
10121	Motorola	MC10121				VT23257							Lansdale	SL337	
10123	Motorola	MC10123			23256A	Catalyst							Lansdale	SL352	
10124	Motorola	MC10124			Semi	CAT71C256							Lansdale	SL356	
10125	Motorola	MC10125			Gould AMI	S23256							Lansdale	SL357	
10129	Motorola	MC10129			NCR	NCR23256							Lansdale	SL358	
10130	Motorola	MC10130				NCR23257							Lansdale	SL362	
10131	Motorola	MC10131			OKI	MSM38256							Lansdale	SL363	
10132	Motorola	MC10132			Panasonic	MN23256							Lansdale	SL370	
10133	Motorola	MC10133				MN23257							Lansdale	SL375	
10134	Motorola	MC10134				SMM23256							Lansdale	SL377	
10135	Motorola	MC10135			S-MOS	SMM6325							Lansdale	SL380	
10136	Motorola	MC10136				SMM6326							Lansdale	SL381	
10137	Motorola	MC10137			Signetics	23256							Lansdale	SL384	
10141	Motorola	MC10141			Toshiba	TC53257							Lansdale	SL387	
• 10144	Motorola	MCM10144			VLSI Tech	VT23256							Lansdale	SL391	
	National	F10144				VT23257							Cypress	CY7C148	
• 10148	Motorola	MCM10148			2332	Commodore	MPS2332						Harris	HA5114	
10149	Motorola	MCM10149				Fujitsu	P51C69						Intel	HM6514	
	Signetics	10149A (3608)				Hitachi	P51C69						Mitsubishi	5114	
10149A	Motorola	MCM10149				Intel	UM2168						OKI	MSM5114	
	Signetics	10149					51C69						S-MOS	SRM2114C	
10158	Motorola	MC10158				Microchip	RO9432						Sanyo	LC3514	
10159	Motorola	MC10159				Mitsubishi	M58333						TI	54ACT11534	
10160	Motorola	MC10160				National	F3532						Motorola	MC54F00	
10161	Motorola	MC10161					NM52132						National	54F00	
10162	Motorola	MC10162					NCR2332						TI	SN54F00	
10164	Motorola	MC10164					MN2332						TI	MC54F02	
	TI	SN10164					LH2332						TI	54F02	
• 10165	Motorola	MC10165					SA88332						Motorola	MC54F04	
• 10170	Lansdale	ML54H54					2632A						National	54F04	
10171	Motorola	MC10171				Signetics	2632A						TI	SN54F04	
10172	Motorola	MC10172				TI	D51C69						Motorola	MC54F08	
10173	Motorola	MC10173					P51C69						National	54F08	
10174	Motorola	MC10174				VLSI Tech	VT2332								
	TI	SN10174					NCR								
10175	Motorola	MC10175					OKI								
• 10178	Motorola	MC10178					Plessey								
	National	F10178					S-MOS								
10179	Motorola	MC10179					Sharp								
10180	Motorola	MC10180					TI								
10181	Motorola	MC10181					VLSI Tech								
10188	Motorola	MC10188					Weitck								
10189	Motorola	MC10189					Microchip								
10192	Motorola	MC10192					National								
10210	Motorola	MC10210					Signetics								
10211	Motorola	MC10211					Commodore								
10216	Motorola	MC10216					Fujitsu								
	National	F10216					Hitachi								
10231	Motorola	MC10231													

• Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Signetics (Cont'd)				54F51	National	54F51	54HCT40104	Harris	CD54HCT40104	54HC147	Harris	CD54HC147			
54F10	Motorola	MC54F10		54F521	Motorola	MC54F521	54HCT40105	Harris	CD54HCT40105	54HC147	Motorola	MC54HC147			
	National	54F10		54F52	National	54F52	54HCT4016	Harris	54HCT4016	54HC151	Harris	CD54HC151			
54F109	TI	SN54F10		54F534	Motorola	MC54F534	54HCT4020	Harris	CD54HCT4020	54HC151	Motorola	MC54HC151			
	Motorola	MC54F109			National	54F534	54HCT4024	Harris	CD54HCT4024	54HC151	National	MM54HC151			
	National	54F109		54F538	TI	SN54F538	54HCT4040	Harris	CD54HCT4040	54HC151	TI	SN54HC151			
54F11	TI	SN54F11		54F543	National	54F538	54HCT4046	Harris	54HCT4046	54HC153	Harris	CD54HC153			
54F125	TI	SN54F11		54F544	TI	54AC11253	54HCT4051	Harris	CD54HCT4051	54HC153	Motorola	MC54HC153			
54F138	Motorola	MC54F138		54F573	National	54F544	54HCT4052	Harris	CD54HCT4052	54HC153	National	MM54HC153			
	National	54F138		54F574	TI	54F573	54HCT4053	Harris	CD54HCT4053	54HC154	Harris	CD54HC154			
54F139	TI	SN54F138		54F620	National	54F574	54HCT4059	Harris	54HCT4059	54HC160	Motorola	MC54HC160			
54F14	Motorola	MC54F14		54F623	TI	54F620	54HCT4060	Harris	54HCT4060	54HC160	National	MM54HC160			
54F151	National	54F151		54F623	TI	54F623	54HCT4066	Harris	54HCT4066	54HC162	Harris	CD54HC162			
54F157	TI	54F151A		54F64	National	54F64	54HCT4075	Harris	54HCT4075	54HC162	Motorola	MC54HC162			
54F157	Motorola	MC54F157		54F676	TI	SN54F64	54HCT4075	Harris	54HCT4075	54HC163	National	MM54HC162			
	National	54F157		54F74	Motorola	MC54F74	54HCT4075	Harris	54HCT4075	54HC163	Motorola	MC54HC163			
	TI	SN54F157A		54F779	TI	SN54F74	54HCT4075	Harris	54HCT4075	54HC164	National	MM54HC163			
54F157A	National	54F157A		54HCT10	National	54F779	54HCT4075	Harris	54HCT4075	54HC164	Motorola	MC54HC164			
54F158	Motorola	MC54F158		54HCT107	Harris	CD54HCT107	54HCT4075	Harris	54HCT4075	54HC164	National	MM54HC164			
	National	54F158		54HCT109	Harris	CD54HCT109	54HCT4075	Harris	54HCT4075	54HC165	TI	SN54HC165			
54F158A	TI	SN54F158A		54HCT11	Harris	CD54HCT11	54HCT4075	Harris	54HCT4075	54HC165	Motorola	MC54HC165			
54F161A	National	54F158A		54HCT112	Harris	CD54HCT112	54HCT4075	Harris	54HCT4075	54HC165	National	MM54HC165			
54F163A	National	54F163A		54HCT147	National	MM54HCT112	54HCT4075	Harris	54HCT4075	54HC166	TI	SN54HC165			
54F164	National	54F164		54HCT151	Harris	CD54HCT147	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F169	National	54F169		54HCT151	National	MM54HCT151	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
54F174	National	54F174		54HCT153	Harris	CD54HCT151	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F175	National	54F175		54HCT153	National	MM54HCT153	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
54F181	TI	SN54F175		54HCT154	Motorola	MC54HCT153	54HCT4075	Harris	54HCT4075	54HC166	TI	SN54HC166			
54F190	National	54F181		54HCT160	National	MM54HCT154	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F191	National	54F190		54HCT162	Harris	CD54HCT160	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
54F193	National	54F191		54HCT162	Harris	CD54HCT162	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F194	National	54F193		54HCT163	Harris	CD54HCT163	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
54F198	National	54F194		54HCT164	Harris	CD54HCT164	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F20	Motorola	MC54F20		54HCT164	National	MM54HCT164	54HCT4075	Harris	54HCT4075	54HC166	TI	SN54HC166			
	National	54F20		54HCT165	Harris	CD54HCT165	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
54F240	TI	SN54F20		54HCT166	Harris	CD54HCT166	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
	Motorola	MC54F240		54HCT173	Harris	CD54HCT173	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
	National	54F240		54HCT181	Allegro	SS54HCT181	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F241	TI	SN54F240		54HCT181	Micro	54HCT181	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
54F244	Motorola	MC54F241		54HCT182	Allegro	SS54HCT182	54HCT4075	Harris	54HCT4075	54HC166	TI	SN54HC166			
	National	54F241		54HCT191	Micro	SS54HCT182	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F244	TI	SN54F241		54HCT191	Harris	54HCT182	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
54F245	Motorola	MC54F244		54HCT191	National	MM54HCT191	54HCT4075	Harris	54HCT4075	54HC166	TI	SN54HC166			
	National	54F244		54HCT192	Harris	CD54HCT191	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F245	TI	SN54F244		54HCT192	Harris	CD54HCT192	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
54F251	Motorola	MC54F245		54HCT193	National	MM54HCT193	54HCT4075	Harris	54HCT4075	54HC166	TI	SN54HC166			
	National	54F245		54HCT194	Harris	CD54HCT193	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F253	TI	SN54F245		54HCT194	Harris	CD54HCT194	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
54F257	National	54F251		54HCT195	Harris	CD54HCT195	54HCT4075	Harris	54HCT4075	54HC166	TI	SN54HC166			
	TI	SN54F251A		54HCT20	Harris	CD54HCT20	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F258	Motorola	MC54F253		54HCT21	Harris	54HCT21	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
	National	54F253		54HCT221	Harris	CD54HCT221	54HCT4075	Harris	54HCT4075	54HC166	TI	SN54HC166			
54F275A	TI	SN54F253		54HCT238	Harris	CD54HCT238	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F278	Motorola	MC54F257		54HCT241	Marconi	54HCT238	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
	National	54F257		54HCT241	TI	SN54HCT238	54HCT4075	Harris	54HCT4075	54HC166	TI	SN54HC166			
54F280A	TI	SN54F257		54HCT241	Harris	CD54HCT241	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F280	Motorola	MC54F258		54HCT241	Marconi	54HCT241	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
54F280A	National	54F258A		54HCT241	Micrel	MC54HCT241	54HCT4075	Harris	54HCT4075	54HC166	TI	SN54HC166			
54F280A	TI	SN54F258		54HCT241	Motorola	MC54HCT241	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F280A	National	54F258A		54HCT241	National	MM54HCT241	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
54F280A	TI	SN54F258		54HCT242	TI	SN54HCT241	54HCT4075	Harris	54HCT4075	54HC166	TI	SN54HC166			
54F280A	National	54F269		54HCT242	Harris	CD54HCT242	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F280A	TI	SN54F269		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
54F280A	National	54F273		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	TI	SN54HC166			
54F280A	TI	SN54F273		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F280A	National	54F280		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
54F280A	TI	SN54F280B		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	TI	SN54HC166			
54F280A	National	54F280A		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F280A	TI	SN54F280B		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
54F280A	National	54F280A		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	TI	SN54HC166			
54F280A	TI	SN54F280B		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F280A	National	54F280A		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
54F280A	TI	SN54F280B		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	TI	SN54HC166			
54F280A	National	54F280A		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F280A	TI	SN54F280B		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
54F280A	National	54F280A		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	TI	SN54HC166			
54F280A	TI	SN54F280B		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F280A	National	54F280A		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
54F280A	TI	SN54F280B		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	TI	SN54HC166			
54F280A	National	54F280A		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F280A	TI	SN54F280B		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
54F280A	National	54F280A		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	TI	SN54HC166			
54F280A	TI	SN54F280B		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	Motorola	MC54HC166			
54F280A	National	54F280A		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	National	MM54HC166			
54F280A	TI	SN54F280B		54HCT243	Harris	CD54HCT243	54HCT4075	Harris	54HCT4075	54HC166	TI	SN54HC166			
54F280A	National	54F280A		54HCT243	Harris	CD54HCT243	54HCT								

ALT. SOURCE DIRECTORY

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Signetics (Cont'd)															
54LS195A	SGS-Thomson	T54LS195	(Cont'd)	54LS38	Motorola	SN54LS38		54S157	National	DM54S157		54I146	Lansdale	ML54I146	
	TI	SN54LS195A			National	DM54LS38		54S158	TI	SN54S157		54I150	Lansdale	ML54I150	(3514)
54LS196	Motorola	SN54LS196		54LS38	SGS-Thomson	54LS38		54S174	National	DM54S158		54I150	National	54I150	
	National	DM54LS196		54LS386	TI	T54LS38		54S181	TI	SN54S158		54I152	TI	SN54I150	
	SGS-Thomson	T54LS196			Lansdale	SN54LS38		54S189	National	SN54S174		54I152	Lansdale	ML54I152	(3514)
54LS197	TI	SN54LS196			Motorola	SL8241		54S20	National	DM54S181		54I155	National	DM54I155	
	Motorola	SN54LS197			National	SN54LS386		54S22	National	SN54S181		54I156	National	DM54I156	
	National	DM54LS197		54LS393	TI	SN54LS386		54S240	National	DM54S189		54I161	National	DM54I161	
	SGS-Thomson	T54LS197			SGS-Thomson	SN54LS393		54S244	TI	DM54S189A		54I161	Lansdale	ML54I161	(3514)
54LS20	TI	SN54LS197			TI	T54LS393		54S251	National	DM54S20		54I162	National	DM54I161	
	Motorola	SN54LS20		54LS395A	National	SN54LS393		54S253	National	SN54S20		54I162	Lansdale	ML54I162	(3514)
	National	DM54LS20		54LS40	Motorola	DM54LS395A		54S253	National	SN54S22		54I162	National	DM54I162	
	SGS-Thomson	T54LS20			National	SN54LS40		54S253	National	DM54S22		54I162	TI	SN54I162	
54LS21	TI	SN54LS20			Motorola	SN54LS40		54S253	National	DM54S24		54I162	Lansdale	ML54I163	(3514)
	Motorola	SN54LS21			National	DM54LS40		54S253	National	SN54S244		54I162	National	DM54I163	
	National	DM54LS21		54LS40	SGS-Thomson	54LS40		54S253	National	DM54S244		54I162	TI	SN54I163	
54LS21	SGS-Thomson	T54LS21			TI	T54LS40		54S253	National	SN54S251		54I162	TI	SN54I164	
	TI	SN54LS21			Motorola	SN54LS40		54S253	National	SN54S251		54I162	Lansdale	ML54I167	(3514)
	National	DM54LS21		54LS54	TI	SN54LS40		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
54LS22	SGS-Thomson	T54LS22			Motorola	SN54LS54		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	TI	SN54LS22			National	DM54LS54		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	SGS-Thomson	T54LS22			SGS-Thomson	54LS54		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
54LS240	TI	SN54LS22			TI	T54LS54		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
54LS241	National	DM54LS240		54LS74A	Motorola	SN54LS74A		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
54LS244	National	DM54LS241			National	DM54LS74		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
54LS245	Motorola	SN54LS245			SGS-Thomson	DM54LS74A		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	National	DM54LS245			TI	54LS74		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
54LS257A	TI	SN54LS245			TI	T54LS74		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
54LS258A	National	DM54LS257A		54LS75	Motorola	SN54LS74A		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
54LS26	Motorola	SN54LS258A			TI	SN54LS75		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	National	DM54LS26		54LS78	Motorola	SN54LS78		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
54LS26	SGS-Thomson	T54LS26			National	SN54LS78A		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	TI	SN54LS26		54LS83A	Motorola	SN54LS83A		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
54LS27	Motorola	SN54LS27			National	DM54LS83A		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	National	DM54LS27			SGS-Thomson	54LS83A		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
54LS27	SGS-Thomson	T54LS27		54LS85	TI	T54LS83		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	TI	SN54LS27			Motorola	SN54LS83A		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
54LS273	Motorola	SN54LS273			National	DM54LS85		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	National	DM54LS273		54LS86	TI	SN54LS85		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	SGS-Thomson	T54LS273			Motorola	SN54LS86		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
54LS295B	TI	SN54LS273			National	DM54LS86		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
54LS33	Motorola	SN54LS295B		54S00	TI	SN54LS86A		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	National	SN54LS33			National	SN54S00		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	SGS-Thomson	54LS33		54S02	TI	SN54S00		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
54LS365A	TI	T54LS33			National	DM54S02		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	Motorola	SN54LS33		54S04	TI	SN54S02		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	National	SN54LS365A			National	SN54S04		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	SGS-Thomson	54LS365A		54S08	TI	SN54S04		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
54LS367A	TI	T54LS365			National	DM54S08		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	Motorola	SN54LS365A		54S10	TI	SN54S08		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	National	DM54LS367			National	SN54S10		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	SGS-Thomson	54LS367A		54S11	TI	SN54S10		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
54LS373	TI	T54LS367			National	SN54S11		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	Motorola	SN54LS367A		54S12	TI	SN54S11		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	National	DM54LS373			National	SN54S12		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	SGS-Thomson	T54LS373		54S13	TI	SN54S12		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
54LS374	TI	SN54LS373			Lansdale	ML3162	(3514)	54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	Motorola	SN54LS373		54S14	TI	SN54S13		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	National	DM54LS374			Lansdale	SN54S14		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	SGS-Thomson	54LS374		54S15	TI	SN54S14		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
54LS377	TI	T54LS374			National	DM54S15		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	Motorola	SN54LS374		54S18	TI	SN54S15		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	National	DM54LS377			National	SN54S18		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	SGS-Thomson	54LS377		54S140	TI	SN54S18		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	TI	T54LS377			National	DM54S151		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	SGS-Thomson	SN54LS377		54S151	TI	SN54S151		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
	TI	SN54LS377			National	DM54S153		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)
			(Continued)	54S153	TI	SN54S153		54S253	National	SN54S251		54I162	Lansdale	ML54I17	(3514)

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Signetics (Cont'd)															
• 5492	National	DM5492	(Cont'd)	74ACT11819	TI	74ACT11819		74AC11863	TI	74AC11863		74ALS244	National	DM74ALS244	(Cont'd)
• 5493	National	DM5493		74ACT11821	TI	74ACT11821		74AC11874	TI	74AC11874		74ALS244A-1	Signetics	DM74ALS244A-1	
• 5494	Lansdale	ML5494	(3514)	74ACT11823	TI	74ACT11823		74ALS00	Motorola	SN74ALS00		74ALS244A-1	TI	SN74ALS244A-1	
• 616	Lansdale	SL616		74ACT11827	TI	74ACT11827		74ALS02	Motorola	SN74ALS02		74ALS244	Motorola	SN74ALS244	
• 620	Lansdale	SL620		74ACT11828	TI	74ACT11828		74ALS04	National	DM74ALS04		74ALS244A-1	TI	DM74ALS244A-1	
• 629	Lansdale	SL629		74ACT11833	TI	74ACT11833		74ALS08	Motorola	SN74ALS08		74ALS245	Motorola	SN74ALS245	
• 631	Lansdale	SL631		74ACT11834	TI	74ACT11834		74ALS10	National	DM74ALS10		74ALS245A-1	TI	SN74ALS245A-1	
• 659	Lansdale	SL659		74ACT11841	TI	74ACT11841		74ALS109	National	DM74ALS109		74ALS251	Mitsubishi	DM74ALS251	
• 670	Lansdale	SL670		74ACT11843	TI	74ACT11843		74ALS11	National	DM74ALS11		74ALS253	National	DM74ALS253	
• 680	Lansdale	SL680		74ACT11845	TI	74ACT11845		74ALS138	National	DM74ALS138		74ALS257	Mitsubishi	DM74ALS257	
• 68682	Motorola	MC68682		74ACT11853	TI	74ACT11853		74ALS151	Mitsubishi	DM74ALS151		74ALS258	National	DM74ALS258	
• 690	Lansdale	SL690		74ACT11854	TI	74ACT11854		74ALS157	National	DM74ALS157		74ALS27	National	DM74ALS27	
• 700	Lansdale	SL700		74ACT11863	TI	74ACT11863		74ALS158	Mitsubishi	DM74ALS158		74ALS273	Mitsubishi	DM74ALS273	
• 701	Lansdale	SL701		74ACT11874	TI	74ACT11874		74ALS161	Motorola	SN74ALS161		74ALS30	National	DM74ALS30	
• 704	Lansdale	SL704		74ACT11881	TI	74ACT11881		74ALS163	Mitsubishi	DM74ALS163		74ALS32	Motorola	SN74ALS32	
• 716	Lansdale	SL716		74ACT11882	TI	74ACT11882		74ALS174	Mitsubishi	DM74ALS174		74ALS37	Motorola	SN74ALS37	
• 720	Lansdale	SL720		74ACT11883	TI	74ACT11883		74ALS191	Mitsubishi	DM74ALS191		74ALS563	National	DM74ALS563	
• 721	Lansdale	SL721		74ACT11884	TI	74ACT11884		74ALS193	Motorola	SN74ALS193		74ALS564	National	DM74ALS564	
• 727	Lansdale	SL727		74ACT11885	TI	74ACT11885		74ALS20	National	DM74ALS20		74ALS573	Motorola	SN74ALS573	
• 729	Lansdale	SL729		74ACT11886	TI	74ACT11886		74ALS240	Mitsubishi	DM74ALS240		74ALS574	Motorola	SN74ALS574	
• 730	Lansdale	SL730		74ACT11887	TI	74ACT11887		74ALS244	Mitsubishi	DM74ALS244		74ALS620	Mitsubishi	DM74ALS620	
• 731	Lansdale	SL731		74ACT11888	TI	74ACT11888		74ALS244A-1	Motorola	SN74ALS244A-1		74ALS623A-1	Mitsubishi	DM74ALS623A-1	
• 732	Lansdale	SL732		74ACT11889	TI	74ACT11889		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11000	TI	74ACT11000		74ACT11890	TI	74ACT11890		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11002	TI	74ACT11002		74ACT11891	TI	74ACT11891		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11004	TI	74ACT11004		74ACT11892	TI	74ACT11892		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11008	TI	74ACT11008		74ACT11893	TI	74ACT11893		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11010	TI	74ACT11010		74ACT11894	TI	74ACT11894		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11011	TI	74ACT11011		74ACT11895	TI	74ACT11895		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11013	TI	74ACT11013		74ACT11896	TI	74ACT11896		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11014	TI	74ACT11014		74ACT11897	TI	74ACT11897		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11020	TI	74ACT11020		74ACT11898	TI	74ACT11898		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11021	TI	74ACT11021		74ACT11899	TI	74ACT11899		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11027	TI	74ACT11027		74ACT11900	TI	74ACT11900		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11030	TI	74ACT11030		74ACT11901	TI	74ACT11901		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11032	TI	74ACT11032		74ACT11902	TI	74ACT11902		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11034	TI	74ACT11034		74ACT11903	TI	74ACT11903		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11074	TI	74ACT11074		74ACT11904	TI	74ACT11904		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11109	TI	74ACT11109		74ACT11905	TI	74ACT11905		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11112	TI	74ACT11112		74ACT11906	TI	74ACT11906		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11132	TI	74ACT11132		74ACT11907	TI	74ACT11907		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11138	TI	74ACT11138		74ACT11908	TI	74ACT11908		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11139	TI	74ACT11139		74ACT11909	TI	74ACT11909		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11151	TI	74ACT11151		74ACT11910	TI	74ACT11910		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11153	TI	74ACT11153		74ACT11911	TI	74ACT11911		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11157	TI	74ACT11157		74ACT11912	TI	74ACT11912		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11158	TI	74ACT11158		74ACT11913	TI	74ACT11913		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11160	TI	74ACT11160		74ACT11914	TI	74ACT11914		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11161	TI	74ACT11161		74ACT11915	TI	74ACT11915		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11162	TI	74ACT11162		74ACT11916	TI	74ACT11916		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11163	TI	74ACT11163		74ACT11917	TI	74ACT11917		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11169	TI	74ACT11169		74ACT11918	TI	74ACT11918		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11174	TI	74ACT11174		74ACT11919	TI	74ACT11919		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11175	TI	74ACT11175		74ACT11920	TI	74ACT11920		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11190	TI	74ACT11190		74ACT11921	TI	74ACT11921		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11191	TI	74ACT11191		74ACT11922	TI	74ACT11922		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11194	TI	74ACT11194		74ACT11923	TI	74ACT11923		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11238	TI	74ACT11238		74ACT11924	TI	74ACT11924		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11240	TI	74ACT11240		74ACT11925	TI	74ACT11925		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11241	TI	74ACT11241		74ACT11926	TI	74ACT11926		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11244	TI	74ACT11244		74ACT11927	TI	74ACT11927		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11245	TI	74ACT11245		74ACT11928	TI	74ACT11928		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11251	TI	74ACT11251		74ACT11929	TI	74ACT11929		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11253	TI	74ACT11253		74ACT11930	TI	74ACT11930		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11257	TI	74ACT11257		74ACT11931	TI	74ACT11931		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11258	TI	74ACT11258		74ACT11932	TI	74ACT11932		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11269	TI	74ACT11269		74ACT11933	TI	74ACT11933		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11280	TI	74ACT11280		74ACT11934	TI	74ACT11934		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11286	TI	74ACT11286		74ACT11935	TI	74ACT11935		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11353	TI	74ACT11353		74ACT11936	TI	74ACT11936		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11373	TI	74ACT11373		74ACT11937	TI	74ACT11937		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11374	TI	74ACT11374		74ACT11938	TI	74ACT11938		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11378	TI	74ACT11378		74ACT11939	TI	74ACT11939		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11379	TI	74ACT11379		74ACT11940	TI	74ACT11940		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11520	TI	74ACT11520		74ACT11941	TI	74ACT11941		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11521	TI	74ACT11521		74ACT11942	TI	74ACT11942		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11533	TI	74ACT11533		74ACT11943	TI	74ACT11943		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11534	TI	74ACT11534		74ACT11944	TI	74ACT11944		74ALS244A-1	TI	SN74ALS244A-1		74ALS623A-1	Motorola	SN74ALS623A-1	
74ACT11579	TI	74ACT11579		74ACT11945	TI	74ACT11945		74ALS244A-1	TI	SN74ALS244A-1					

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
Signetics (Cont'd)				74F169	Motorola	MC74F169		74F30	National	74F30		74F573	National	74F573		
74ALS64	National	DM74ALS564			National	74F169			TI	SN74F30			TI	SN74F573		
	Signetics	74ALS564		74F174	Motorola	MC74F174		74F30244	National	74F30244		74F574	National	74F574		
	TI	SN74ALS564			National	74F174		74F3037	National	74F3037		74F579	National	74F579		
74ALS645A	National	DM74ALS645			TI	SN74F174		74F32	Motorola	MC74F32		74F582	National	74F582		
	TI	SN74ALS645A		74F175	Motorola	MC74F175		74F322	National	74F322		74F583	National	74F583		
74ALS645A-1	National	DM74ALS645A-1			National	74F175		74F323	Motorola	MC74F323		74F588	National	74F588		
	TI	SN74ALS645A-1			TI	SN74F175			National	74F323		74F595	National	74F595		
74ALS646	TI	SN74ALS646		74F181	Motorola	MC74F181			TI	SN74F323			National	74F597		
74ALS646-1	TI	SN74ALS646-1			National	74F181		74F350	Motorola	MC74F350		74F620	Motorola	MC74F620		
74ALS648	TI	74ALS648		74F182	Motorola	MC74F182			National	74F350			National	74F620		
	TI	74ALS648-1			National	74F182			TI	SN74F350			TI	SN74F620		
74ALS651	TI	74ALS651		74F189A	Cypress	CY7C189		74F352	Motorola	MC74F352		74F621	TI	SN74F621		
	TI	74ALS651-1			Motorola	MC74F189			National	74F352		74F622	TI	SN74F622		
74ALS651-1	TI	74ALS651-1			National	74F189		74F353	Motorola	MC74F353		74F623	Motorola	MC74F623		
74ALS652	TI	74ALS652			Signetics	74F198			National	74F353			National	74F623		
	TI	74ALS652-1		74F190	National	74F190			TI	SN74F353			TI	SN74F623		
74ALS73	Motorola	SN74ALS573		74F191	National	74F191		74F365	National	74F365				SN74F623		
	National	DM74ALS573		74F192	National	74F192		74F366	National	74F366		74F64	National	74F64		
	Signetics	74ALS573		74F193	National	74F193		74F368	National	74F368			TI	SN74F64		
	TI	SN74ALS573		74F194	Motorola	MC74F194		74F37	National	74F37		74F640	National	74F640		
74ALS86	National	DM74ALS86			National	74F194		74F373	Motorola	MC74F373		74F646	National	74F646		
74F00	Motorola	MC74F00		74F195	Motorola	MC74F195			National	74F373		74F648	National	74F648		
	National	74F00		74F198	Cypress	CY7C189			TI	SN74F373		74F651	National	74F651		
	TI	SN74F00			Motorola	MC74F189		74F374	Motorola	MC74F374			TI	SN74F651		
74F02	Motorola	MC74F02		74F20	Signetics	74F189A			National	74F374		74F652	National	74F652		
	National	74F02			Motorola	MC74F20		74F377	TI	SN74F374			TI	SN74F652		
	TI	SN74F02		74F219A	AMD	AM27S07			TI	SN74F374		74F657	National	74F657		
74F04	Motorola	MC74F04			Cypress	CY27S07		74F378	National	74F377		74F676	National	74F676		
	National	74F04			National	DM75S07			TI	SN74F377		74F74	Motorola	MC74F74		
74F08	Motorola	MC74F08				CY7C190		74F378	Motorola	MC74F378			National	74F74		
	National	74F08				DM75S07			National	74F378		74F779	National	74F779		
74F10	Motorola	MC74F10		74F240	Motorola	MC74F240		74F379	TI	SN74F378		74F821	National	74F821		
	National	74F10			National	74F240			Motorola	MC74F379		74F823	National	74F823		
74F109	Motorola	MC74F109			TI	SN74F240		74F38	National	SN74F379		74F825	National	74F825		
	National	74F109		74F241	Motorola	MC74F241		74F381	Motorola	MC74F381		74F827	National	74F827		
74F11	Motorola	MC74F11			National	74F241			National	74F381		74F841	National	74F841		
	National	74F11			TI	SN74F241		74F382	TI	SN74F381		74F843	National	74F843		
74F112	Motorola	MC74F112			TI	SN74F241			Motorola	MC74F382		74F845	National	74F845		
	National	74F112		74F242	Motorola	MC74F242			National	74F382		74F86	National	74F86		
74F113	Motorola	ML74F113			TI	SN74F242		74F385	National	74F385		74HCT00	Harris	CD74HCT00		
	National	74F113		74F243	Motorola	MC74F243		74F395	National	74F395			National	MM74HCT00		
74F114	National	74F114			National	74F243		74F398	Motorola	MC74F398		74HCT02	Harris	CD74HCT02		
	TI	SN74F114			TI	SN74F243			National	74F398		74HCT03	Harris	CD74HCT03		
74F125	National	74F125		74F244	Motorola	MC74F244		74F399	Motorola	MC74F399		74HCT04	National	MM72HCT04		
	TI	SN74F125			National	74F244			National	74F399			Harris	CD74HCT04		
74F13	National	74F13			TI	SN74F244		74F40	National	74F40			SGS-Thomson	MM72HCT04		
74F132	National	74F132		74F245	Motorola	MC74F245		74F407	National	74F407				M74HCT04		
74F138	Motorola	MC74F138			National	74F245		74F410	National	74F410			TI	SN74HCT04		
	National	74F138			TI	SN74F245		74F412	National	74F412			Toshiba	TC74HCT04A	(3674)	
	TI	SN74F138		74F251	Motorola	MC74F251		74F432	National	74F432		74HCT08	Harris	CD74HCT08		
74F139	Motorola	MC74F139			National	74F251		74F455	National	74F455			National	MM74HCT08		
74F14	National	74F14			TI	SN74F251		74F456	National	74F456		74HCT10	Harris	CD74HCT10		
74F148	Motorola	MC74F148		74F253	Motorola	MC74F253		74F456	Motorola	MC74F521		74HCT107	Harris	CD74HCT107		
	National	74F148			National	74F253			National	74F521		74HCT109	Harris	CD74HCT109		
74F151	Motorola	MC74F151			TI	SN74F253		74F524	National	74F524			National	MM74HCT109		
	National	74F151		74F256	National	74F256		74F533	Motorola	MC74F533		74HCT11	Harris	CD74HCT11		
	TI	SN74F151			TI	SN74F256			National	74F533		74HCT112	Harris	CD74HCT112		
74F153	Motorola	MC74F153		74F257	Motorola	MC74F257			TI	SN74F533			National	MM74HCT112		
	National	74F153			National	74F257		74F534	Motorola	MC74F534		74HCT123	Harris	CD74HCT123		
	TI	SN74F153			TI	SN74F257			National	74F534		74HCT125	Harris	CD74HCT125		
74F157	Motorola	MC74F157		74F257A	National	74F257A			TI	SN74F534		74HCT126	Harris	CD74HCT126		
	National	74F157		74F258	Motorola	MC74F258			TI	SN74F534		74HCT132	Harris	CD74HCT132		
74F157A	National	74F157A			National	74F258		74F537	National	74F537		74HCT137	Harris	CD74HCT137		
74F158	Motorola	MC74F158			TI	SN74F258		74F538	National	74F538			Marconi	74HCT137		
	National	74F158		74F259	Motorola	MC74F259			National	74F538			Plessey	74HCT137		
	TI	SN74F158			National	74F259		74F540	National	74F540			SGS-Thomson	74HCT137		
74F158A	National	74F158A		74F269	National	74F269			TI	SN74F540			TI	SN74HCT137		
74F160	Motorola	MC74F160			National	74F269		74F543	National	74F543			Toshiba	TC74HCT137A	(3674)	
	National	74F160		74F27	TI	SN74F27			TI	SN74F543		74HCT138	Harris	CD74HCT138		
	TI	SN74F160			National	74F27		74F544	National	74F544			Marconi	74HCT138		
74F161	Motorola	MC74F161		74F273	TI	SN74F273			TI	SN74F544			National	MM74HCT138		
	National	74F161			Motorola	MC74F280			TI	SN74F544			Plessey	74HCT138		
	TI	SN74F161		74F280A	National	74F280		74F545	National	74F545			SGS-Thomson	74HCT138		
74F162	Motorola	MC74F162			TI	SN74F280		74F547	National	74F547			TI	SN74HCT138		
	National	74F162		74F283	Motorola	MC74F283		74F548	National	74F548			Toshiba	TC74HCT138A	(3674)	
	TI	SN74F162			National	74F283		74F552	National	74F552						
74F163	Motorola	MC74F163			TI	SN74F283		74F563	National	74F563		74HCT139	Harris	CD74HCT139		
	National	74F163		74F2952	National	29F52			TI	SN74F563			IDT	IDT74HCT139		
	TI	SN74F163				29F53		74F564	National	74F564			Marconi	74HCT139		
74F164	Motorola	MC74F164		74F2953	National	74F2953		74F568	National	74F568			National	MM74HCT139		
	National	74F164			National	74F298			TI	SN74F568			Plessey	74HCT139		
74F168	Motorola	MC74F168		74F299	National	74F299		74F569	National	74F569		74HCT14	Harris	CD74HCT14		
	National	74F168			TI	SN74F299			TI	SN74F569		74HCT147	Harris	CD74HCT147		
	TI	SN74F168														

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ALT. SOURCE DIRECTORY

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
Signetics (Cont'd)				(Cont'd)												
74HC241	TI	SN74HC241	(Cont'd)	74HC27	TI	SN74HC27	(Cont'd)	74HC367	Harris	CD74HC367		74HC4020	Harris	CD74HC4020		
	Toshiba	TC74HC241A	(3674)	74HC273	Toshiba	TC74HC273A	(3674)		Hitachi	HD74HC367			Hitachi	HD74HC4020		
74HC242	Harris	CD74HC242			Harris	CD74HC273			Motorola	MC74HC367			Motorola	MC74HC4020		
	Hitachi	HD74HC242			Hitachi	HD74HC273			National	MM74HC367			National	MM74HC4020		
	Motorola	MC74HC242			Marconi	74HC273			SGS-Thomson				SGS-Thomson			
	National	MM74HC242			Motorola	MC74HC273		74HC368	TI	M74HC367		74HC4024	TI	M74HC4020		
	SGS-Thomson	M74HC242			National	MM74HC273			Toshiba	TC74HC367A	(3674)		Toshiba	SN74HC4020		
		SN74HC242		74HC279	TI	M74HC273							Harris	TC74HC4024		
74HC243	Toshiba	TC74HC242			Toshiba	TC74HC273A	(3674)						Harris	CD74HC4024		
	Harris	CD74HC243			Harris	CD74HC279							Hitachi	HD74HC4024		
	Hitachi	HD74HC243			SGS-Thomson	M74HC279		74HC373	Harris	CD74HC373			Hitachi	HD74HC4024		
	Motorola	MC74HC243			Toshiba	TC74HC279A	(3674)		Hitachi	HD74HC373			Motorola	MC74HC4024		
	National	MM74HC243							Motorola	MC74HC368			National	MM74HC4024		
	SGS-Thomson	M74HC243		74HC280	Harris	CD74HC280			National	MM74HC368			SGS-Thomson	M74HC4024		
		SN74HC243			Hitachi	HD74HC280			SGS-Thomson	M74HC368		74HC4040	Harris	CD74HC4040		
		TC74HC243			Motorola	MC74HC280				TI	SN74HC368		Hitachi	HD74HC4040		
74HC244	Harris	CD74HC244			National	MM74HC280			Hitachi	HD74HC373			Motorola	MC74HC4040		
	Hitachi	HD74HC244			SGS-Thomson	M74HC280			Motorola	MC74HC373			National	MM74HC4040		
	Motorola	MC74HC244				SN74HC280			National	MM74HC373			SGS-Thomson	M74HC4040		
	National	MM74HC244				TC74HC280A	(3674)		SGS-Thomson	M74HC373			TI	SN74HC4040		
	SGS-Thomson	M74HC244		74HC283	Harris	CD74HC283				TI	SN74HC373		Toshiba	TC74HC4040A	(3674)	
		SN74HC244			National	MM74HC283		74HC374	Harris	CD74HC374						
		TC74HC244A	(3674)		SGS-Thomson	M74HC283			Hitachi	HD74HC374		74HC4046	Harris	CD74HC4046		
74HC245	Harris	CD74HC245			SGS-Thomson	SN74HC283			Motorola	MC74HC374			Motorola	MC74HC4046		
	Hitachi	HD74HC245				TC74HC283A	(3674)		National	MM74HC374			National	MM74HC4046		
	Motorola	MC74HC245		74HC297	Harris	CD74HC297			SGS-Thomson	M74HC374			SGS-Thomson	M74HC4046		
	National	MM74HC245		74HC299	Harris	CD74HC299				TI	SN74HC374			SGS-Thomson	74HC4046	
	SGS-Thomson	M74HC245			Motorola	MC74HC299		74HC377	Harris	CD74HC377			Harris	CD74HC4049		
		SN74HC245			National	MM74HC299			Hitachi	HD74HC377			Motorola	MC74HC4049		
		TC74HC245A	(3674)		SGS-Thomson	M74HC299			Motorola	MC74HC377			National	MM74HC4049		
74HC251	Harris	CD74HC251				SN74HC299			SGS-Thomson	TC74HC377A	(3674)					
	Hitachi	HD74HC251				TC74HC299A	(3674)						Toshiba	TC74HC4049A	(3674)	
	Motorola	MC74HC251		74HC30	TI	SN74HC299				TI	M74HC377		74HC4050	Harris	CD74HC4050	
	National	MM74HC251			Toshiba	TC74HC299A				TI	SN74HC377			Motorola	MC74HC4050	
	SGS-Thomson	M74HC251			Harris	CD74HC30				Toshiba	TC74HC377A	(3674)		National	MM74HC4050	
		SN74HC251			Hitachi	HD74HC30		74HC390	Harris	CD74HC390			SGS-Thomson	M74HC4050		
		TC74HC251A	(3674)		Motorola	MC74HC30			Hitachi	HD74HC390				Toshiba	TC74HC4050A	(3674)
74HC253	Harris	CD74HC253			National	MM74HC30			Motorola	MC74HC390						
	Hitachi	HD74HC253			SGS-Thomson	M74HC30			National	MM74HC390						
	Motorola	MC74HC253				SN74HC30			SGS-Thomson	M74HC390		74HC4051	Harris	CD74HC4051		
	National	MM74HC253				TC74HC30A	(3674)			TI	SN74HC390			Motorola	MC74HC4051	
	SGS-Thomson	M74HC253		74HC32	Harris	CD74HC32				Toshiba	TC74HC390A	(3674)		National	MM74HC4051	
		SN74HC253			Hitachi	HD74HC32								SGS-Thomson	M74HC4051	
		TC74HC253A	(3674)		Motorola	MC74HC32		74HC393	Harris	CD74HC393			Toshiba	TC74HC4051A	(3674)	
74HC257	Harris	CD74HC257			National	MM74HC32			Hitachi	HD74HC393						
	Hitachi	HD74HC257			SGS-Thomson	M74HC32			Motorola	MC74HC393						
	Motorola	MC74HC257				SN74HC32			National	MM74HC393		74HC4052	Harris	CD74HC4052		
	National	MM74HC257				TC74HC32A	(3674)		SGS-Thomson	M74HC393			Motorola	MC74HC4052		
	SGS-Thomson	M74HC257		74HC354	TI	SN74HC32				TI	SN74HC393			National	MM74HC4052	
		SN74HC257			Toshiba	TC74HC32A				Toshiba	TC74HC393A	(3674)		SGS-Thomson	M74HC4052	
		TC74HC257A	(3674)		Harris	CD74HC354								Toshiba	TC74HC4052A	(3674)
74HC258	Harris	CD74HC258			Hitachi	HD74HC354										
	Hitachi	HD74HC258			Motorola	MC74HC354		74HC4002	Harris	CD74HC4002			74HC4053	Harris	CD74HC4053	
	SGS-Thomson	M74HC258			National	MM74HC354			Motorola	MC74HC4002				Motorola	MC74HC4053	
		SN74HC258			SGS-Thomson	M74HC354			National	MM74HC4002				National	MM74HC4053	
		TC74HC258A	(3674)			SN74HC354			SGS-Thomson	TC74HC393A	(3674)			SGS-Thomson	M74HC4053	
74HC259	Harris	CD74HC259				TC74HC354A	(3674)							Toshiba	TC74HC4053A	(3674)
	Hitachi	HD74HC259														
	Motorola	MC74HC259														
	National	MM74HC259														
	SGS-Thomson	TC74HC259A	(3674)	74HC365	Harris	CD74HC365										
74HC266	Harris	CD74HC266			Hitachi	HD74HC365										
	National	MM74HC266			Motorola	MC74HC365										
	SGS-Thomson	M74HC266			National	MM74HC365										
		SN74HC266			SGS-Thomson	M74HC365										
		TC74HC266A				SN74HC365										
74HC27	Harris	CD74HC27				TC74HC365A	(3674)									
	Hitachi	HD74HC27														
	Motorola	MC74HC27														
	National	MM74HC27														
	SGS-Thomson	M74HC27														
			(Continued)													

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The manufacturers report their devices can be used as direct replacements.
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ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Signetics (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
74LS05	Panasonic SGS-Thomson	DN74LS05 T74LS05		74LS136	National	DM74LS136 74LS136		74LS160A	Hitachi Motorola National	HD74LS160A SN74LS160A DM74LS160 74LS160		74LS191	Hitachi Motorola National	HD74LS191 SN74LS191 DM74LS191 74LS191	
74LS08	TI Hitachi Motorola National	SN74LS08 HD74LS08 SN74LS08 DM74LS08 74LS08		74LS138	Panasonic SGS-Thomson	DN74LS138 T74LS138		74LS161A	Panasonic SGS-Thomson	DN74LS160A T74LS160 74LS160		74LS192	Panasonic SGS-Thomson	DN74LS191 T74LS191	
74LS10	TI Hitachi Motorola National	SN74LS08 HD74LS10 SN74LS10 DM74LS10 74LS10		74LS139	TI Hitachi Motorola National	SN74LS138 HD74LS138 SN74LS139 DM74LS139 74LS139		74LS162A	Hitachi Motorola National	HD74LS161A SN74LS161A DM74LS161 74LS161A		74LS193	TI Hitachi Motorola National	SN74LS192 HD74LS192 SN74LS192 DM74LS192 74LS192	
74LS109	Panasonic SGS-Thomson	DN74LS08 T74LS08 SN74LS08 TI Hitachi Motorola National		74LS14	Panasonic SGS-Thomson	DN74LS139 T74LS139 SN74LS139A Hitachi Motorola National		74LS163A	Panasonic SGS-Thomson	DN74LS162A T74LS162 SN74LS162A Hitachi Motorola National		74LS194A	Panasonic SGS-Thomson	DN74LS193 T74LS193 SN74LS193 TI Hitachi Motorola National	
74LS11	Panasonic SGS-Thomson	DN74LS09 T74LS09 SN74LS09A Hitachi Motorola National		74LS151	TI Hitachi Motorola National	SN74LS14 HD74LS14 SN74LS14 DM74LS14 74LS14		74LS164	TI Hitachi Motorola National	SN74LS163A T74LS163 SN74LS163A Hitachi Motorola National		74LS197	Panasonic SGS-Thomson	DN74LS194A T74LS194A SN74LS194A TI Motorola National	
74LS112	TI Hitachi Motorola National	SN74LS11 HD74LS11 SN74LS11 DM74LS11 74LS11		74LS152	Panasonic SGS-Thomson	DN74LS151 T74LS151 SN74LS151 Hitachi Motorola National		74LS164A	Panasonic SGS-Thomson	DN74LS164 T74LS164 SN74LS164 TI Hitachi Motorola National		74LS20	Panasonic SGS-Thomson	DN74LS197 T74LS197 SN74LS197 TI Hitachi Motorola National	
74LS113	Panasonic SGS-Thomson	DN74LS12 T74LS12 SN74LS12 TI Hitachi Motorola National		74LS153	TI Hitachi Motorola National	SN74LS12 HD74LS12 SN74LS12 DM74LS12 74LS12		74LS169A	TI Motorola National	SN74LS164A DM74LS164 SN74LS164 Hitachi Motorola National		74LS21	Panasonic SGS-Thomson	DN74LS20 T74LS20 SN74LS20 TI Hitachi Motorola National	
74LS12	TI Hitachi Motorola National	SN74LS13 HD74LS13 SN74LS13 DM74LS13 74LS13		74LS154	Panasonic SGS-Thomson	DN74LS153 T74LS153 SN74LS153 TI Hitachi Motorola National		74LS170	Panasonic SGS-Thomson	DN74LS169 T74LS169 SN74LS169 TI Motorola National		74LS240	Panasonic SGS-Thomson	DN74LS21 T74LS21 SN74LS21 TI Hitachi Motorola National	
74LS125A	TI Motorola National	SN74LS13A HD74LS12 SN74LS12 DM74LS12 74LS12		74LS155	TI Hitachi Motorola National	SN74LS153 HD74LS153 SN74LS153 DM74LS153 74LS153		74LS170	TI Motorola National	SN74LS164 DM74LS164 SN74LS164 Hitachi Motorola National		74LS241	Panasonic SGS-Thomson	DN74LS22 T74LS22 SN74LS22 TI Hitachi Motorola National	
74LS126A	TI Motorola National	SN74LS13A HD74LS12 SN74LS12 DM74LS12 74LS12		74LS156	Panasonic SGS-Thomson	DN74LS155 T74LS155 SN74LS155 TI Hitachi Motorola National		74LS173	Panasonic SGS-Thomson	DN74LS170 T74LS170 SN74LS170 TI Motorola National		74LS242	TI Motorola National	SN74LS21 HD74LS21 SN74LS21 DM74LS21 74LS21	
74LS13	TI Hitachi Motorola National	SN74LS13A HD74LS12 SN74LS12 DM74LS12 74LS12		74LS157	TI Hitachi Motorola National	SN74LS155 HD74LS155 SN74LS155 DM74LS155 74LS155		74LS174	TI Hitachi Motorola National	SN74LS173 DM74LS173 SN74LS173 Hitachi Motorola National		74LS243	TI Motorola National	SN74LS22 HD74LS22 SN74LS22 DM74LS22 74LS22	
74LS132	Panasonic SGS-Thomson	DN74LS13 T74LS13 SN74LS13 TI Hitachi Motorola National		74LS158	Panasonic SGS-Thomson	DN74LS156 T74LS156 SN74LS156 TI Hitachi Motorola National		74LS175	TI Hitachi Motorola National	SN74LS174 DM74LS174 SN74LS174 Hitachi Motorola National		74LS244	TI Motorola National	SN74LS23 HD74LS23 SN74LS23 DM74LS23 74LS23	
74LS136	TI Hitachi Motorola	SN74LS13 HD74LS13 SN74LS13		74LS160	TI Hitachi Motorola National	SN74LS157 HD74LS157 SN74LS157 DM74LS157 74LS157		74LS181	TI Hitachi Motorola National	SN74LS175 DM74LS175 SN74LS175 Hitachi Motorola National		74LS251	TI Hitachi Motorola National	SN74LS24 HD74LS24 SN74LS24 DM74LS24 74LS24	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Signetics (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
74LS251	Panasonic SGS-Thomson	DN74LS251		74LS283	National	DM74LS283		74LS367A	Hitachi Motorola National	HD74LS367A SN74LS367A DM74LS367A		74LS490	Panasonic SGS-Thomson	DN74LS490	
74LS253	TI Hitachi Motorola National	T74LS251 SN74LS251 HD74LS253 SN74LS253 DM74LS253 DM8214 74LS253		74LS290	Panasonic SGS-Thomson	DN74LS283		74LS368	Panasonic SGS-Thomson	DN74LS367A		74LS51	Hitachi Motorola National	T74LS490 HD74LS51 SN74LS51 DM74LS51 74LS51	
74LS256	Panasonic SGS-Thomson	DN74LS253		74LS293	TI Hitachi Motorola National	T74LS283 SN74LS283 HD74LS290 SN74LS290 DM74LS290 74LS290		74LS368A	Hitachi Motorola National	HD74LS368 SN74LS368A DM74LS368 74LS368A		74LS54	Panasonic SGS-Thomson	DN74LS51	
74LS257	TI Hitachi Motorola National	T74LS253 SN74LS253 SN74LS256 74LS256		74LS295A	Panasonic SGS-Thomson	DN74LS290		74LS37	TI Hitachi Motorola National	SN74LS367A HD74LS368 SN74LS368A DM74LS368 74LS368A		74LS540	TI Motorola National	T74LS51 SN74LS51 HD74LS54 SN74LS54 DM74LS54 74LS54	
74LS257A	SGS-Thomson	T74LS256 SN74LS256 HD74LS257 SN74LS257A DM74LS257 74LS257A		74LS298	TI Hitachi Motorola National	T74LS293 SN74LS293 SN74LS295A 74LS295A		74LS373	TI Hitachi Motorola National	SN74LS368A HD74LS368 SN74LS368A DM74LS368 74LS368A		74LS541	SGS-Thomson	T74LS54 SN74LS54 SN74LS540 74LS540	
74LS258	SGS-Thomson	T74LS257 SN74LS257B TI Hitachi Motorola National		74LS30	TI Hitachi Motorola National	T74LS295A 74LS295B SN74LS295B SN74LS295A 74LS295A		74LS374	Panasonic SGS-Thomson	SN74LS368A HD74LS373 SN74LS373 DM74LS373 74LS373		74LS569	TI Motorola	T74LS541 SN74LS541 SN74LS569 SN74LS640	
74LS259	SGS-Thomson	T74LS257 SN74LS257B TI Hitachi Motorola National		74LS303	TI Hitachi Motorola National	T74LS295A 74LS295B SN74LS295B SN74LS298 74LS298		74LS375	TI Motorola National	SN74LS373 SN74LS373 SN74LS373 DM74LS374 74LS374		74LS640	TI Motorola	SN74LS640 SN74LS641 SN74LS641 SN74LS642 SN74LS642	
74LS260	TI Panasonic SGS-Thomson	T74LS258 SN74LS258B SN74LS259 74LS259		74LS33	TI Motorola National	T74LS298 SN74LS298 HD74LS30 SN74LS30 DM74LS30 74LS30		74LS377	TI Motorola National	SN74LS373 SN74LS373 SN74LS373 DM74LS374 74LS374		74LS645	SGS-Thomson	SN74LS645 SN74LS645-1 SN74LS645-1 SN74LS670 DM74LS670 74LS670	
74LS266	TI Lansdale Motorola National	T74LS258 SN74LS258B SN74LS259 74LS259		74LS333	TI Motorola National	T74LS298 SN74LS298 HD74LS30 SN74LS30 DM74LS30 74LS30		74LS38	TI Hitachi Motorola National	SN74LS373 SN74LS373 SN74LS373 DM74LS374 74LS374		74LS670	SGS-Thomson	SN74LS670 SN74LS670 SN74LS670 SN74LS670 SN74LS670 SN74LS670	
74LS272	TI Hitachi Motorola National	T74LS258 SN74LS258B SN74LS259 74LS259		74LS365	TI Motorola National	T74LS298 SN74LS298 HD74LS30 SN74LS30 DM74LS30 74LS30		74LS393	TI Motorola National	SN74LS373 SN74LS373 SN74LS373 DM74LS374 74LS374		74LS74	TI Hitachi Motorola National	SN74LS670 SN74LS670 SN74LS670 SN74LS670 SN74LS670 SN74LS670	
74LS273	TI Hitachi Motorola National	T74LS258 SN74LS258B SN74LS259 74LS259		74LS365A	TI Motorola National	T74LS298 SN74LS298 HD74LS30 SN74LS30 DM74LS30 74LS30		74LS395	TI Motorola National	SN74LS373 SN74LS373 SN74LS373 DM74LS374 74LS374		74LS75	TI Hitachi Motorola National	SN74LS670 SN74LS670 SN74LS670 SN74LS670 SN74LS670 SN74LS670	
74LS279	TI Hitachi Motorola National	T74LS258 SN74LS258B SN74LS259 74LS259		74LS366A	TI Motorola National	T74LS298 SN74LS298 HD74LS30 SN74LS30 DM74LS30 74LS30		74LS40	TI Hitachi Motorola National	SN74LS373 SN74LS373 SN74LS373 DM74LS374 74LS374		74LS83A	TI Hitachi Motorola National	SN74LS670 SN74LS670 SN74LS670 SN74LS670 SN74LS670 SN74LS670	
74LS283	TI Hitachi Motorola	T74LS258 SN74LS258B SN74LS259 74LS259		74LS367	TI Motorola National	T74LS298 SN74LS298 HD74LS30 SN74LS30 DM74LS30 74LS30		74LS48	TI Motorola National	SN74LS373 SN74LS373 SN74LS373 DM74LS374 74LS374		74LS85	TI Hitachi Motorola	SN74LS670 SN74LS670 SN74LS670 SN74LS670 SN74LS670 SN74LS670	

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Signetics (Cont'd)				74S189	AMD	AM27LS03 AM27S03 SN74S189		74100	Lansdale	ML74100 (3514)		74162	Lansdale	ML74162 (3514)	
74LS85	(Cont'd)			74S189	Cypress	CY27LS03M CY27S03 CY7C189 CY74S189		74107	National	DM74107 SN74107		74163	National	DM74162 SN74162	
74LS86	National	DM74LS85 74LS85		74S189	National	DM74S189 DM7599 DM8599 54F189		74109	National	DM74109 SN74109		74163	Lansdale	ML74163 (3514)	
74LS86	Panasonic	DN74LS85		74S189	National	DM74S189 DM7599 DM8599 54F189		74111	National	DM74111 74111		74163	TI	SN74163	
74LS86	Hitachi	SN74LS86		74S189	National	DM74S189 DM7599 DM8599 54F189		74120	Lansdale	ML74120 (3514)		74165	Lansdale	ML74165 (3514)	
74LS86	Motorola	SN74LS86		74S189	National	DM74S189 DM7599 DM8599 54F189		74121	Lansdale	ML74121 (3514)		74165	National	DM74165 DM8590 74165	
74LS86	National	DM74LS86		74S196	TI	SN74S196		74123	TI	SN74121 ML74123 (3514)		74165	TI	SN74165	
74LS86	Panasonic	DN74LS86		74S197	TI	SN74S197		74123	Lansdale	ML74123 (3514)		74166	National	DM74166	
74LS86	SGS-Thomson	T74LS86		74S20	National	DM74S20		74123	National	DM74123		74167	TI	SN74166	
74LS86	TI	SN74LS86A		74S20	TI	SN74S20		74123	TI	SN74123		74167	Lansdale	ML74167 (3514)	
74LS90	Motorola	SN74LS90		74S251	National	DM74S251 SN74S251		74125	TI	SN74125		7417	Lansdale	ML7417 (3514)	
74LS90	National	DM74LS90		74S280	National	DM74S280		74125	National	DM74125		7417	National	DM7417	
74LS90	Panasonic	DN74LS90		74S280	TI	SN74S280		74125	TI	SN74125		74170	TI	SN74170	
74LS90	SGS-Thomson	T74LS90		74S289	National	DM74S289		74126	National	DM74126		74170	National	DM74170	
74LS90	TI	SN74LS90		74S289	National	DM74S289		74126	TI	DM8094		74170	TI	SN74170	
74LS92	Hitachi	HD74LS92		74S32	National	DM74S32		74128	TI	SN74128		74172	TI	SN74172	
74LS92	Motorola	SN74LS92		74S32	TI	SN74S32		7413	Lansdale	ML7413 (3514)		74172	Lansdale	ML74172 (3514)	
74LS92	National	DM74LS92		74S37	TI	SN74S37		7413	National	SS7413		74174	National	DM74174	
74LS92	Panasonic	DN74LS92		74S37	TI	SN74S37		74132	Lansdale	ML74132 (3514)		74175	TI	SN74175	
74LS92	SGS-Thomson	T74LS92		74S37	TI	SN74S37		74132	National	DM74132		74175	TI	SN74175	
74LS93	Hitachi	HD74LS93		74S37	TI	SN74S37		74132	TI	SN74132		74176	Lansdale	ML8280	
74LS93	Motorola	SN74LS93		74S37	TI	SN74S37		74136	Lansdale	ML74136 (3514)		74176	National	DM74176	
74LS93	National	DM74LS93		74S40	National	DM74S40		74136	National	74136		74176	National	DM74176	
74LS93	Panasonic	DN74LS93		74S40	TI	SN74S40		74136	TI	SN74136		74176	National	DM74176	
74LS93	SGS-Thomson	T74LS93		74S51	National	DM74S51		7414	Lansdale	ML7414 (3514)		74176	TI	SN74176	
74LS93	TI	SN74LS93		74S51	TI	SN74S51		7414	National	DM7414		74177	Lansdale	ML8281	
74LS95B	Hitachi	HD74LS95B		74S74	National	DM74S74		74141	TI	SN74141		74177	National	DM74177	
74LS95B	Motorola	SN74LS95B		74S74	TI	SN74S74		74141	Lansdale	ML7441		74177	TI	SN74177	
74LS95B	National	DM74LS95B		74S85	TI	SN74S85		74141	National	DM74141		74180	Lansdale	ML74180 (3514)	
74LS95B	Panasonic	DN74LS95B		74S86	National	DM74S86		74141	TI	SN74141		74180	National	DM74180	
74LS95B	SGS-Thomson	T74LS95B		74S86	TI	SN74S86		74141	Signetics	7441		74180	TI	SN74180	
74LS95B	TI	SN74LS95B		7400	Lansdale	ML7400 (3514)		74145	National	DM74145		74182	Lansdale	ML74182 (3514)	
74LS96	TI	SN74LS96		7400	National	DM7400		74145	TI	SN74145		74182	Lansdale	ML74182 (3514)	
74S00	National	DM74S00		7400	TI	SN7400		74146	Lansdale	ML74146		74190	National	DM74190	
74S02	TI	SN74S02		7401	Lansdale	ML7401 (3514)		74147	National	DM74147		74191	TI	SN74191	
74S02	National	DM74S02		7401	National	DM7401		74147	Signetics	N82147		74191	Lansdale	ML74191 (3514)	
74S02	TI	SN74S02		7401	Saratoga	SSL7401		74148	TI	SN74148		74191	National	DM74191	
74S03	National	DM74S03		7401	TI	SN7401		74148	National	DM74148		74192	TI	SN74192	
74S03	TI	SN74S03		7402	Lansdale	ML7402 (3514)		74148	Signetics	N82148		74192	Lansdale	ML74192 (3514)	
74S04	National	DM74S04		7402	National	DM7402		74148	TI	SN74148		74192	National	DM74192	
74S04	TI	SN74S04		7402	TI	SN7402		74150	Lansdale	ML74150 (3514)		74192	TI	SN74192	
74S04	National	DM74S04		7402	Toshiba	TA7402P		74150	National	DM74150		74194	Lansdale	ML74194 (3514)	
74S05	National	DM74S05		7403	Lansdale	ML7403 (3514)		74150	TI	SN74150		74194	National	DM74194	
74S05	TI	SN74S05		7403	National	DM7403		74150	TI	SN74150		74194	TI	SN74194	
74S08	National	DM74S08		7403	TI	SN7403		74152	Dense-Pac	DPD4256		74195	Lansdale	ML74195 (3514)	
74S10	National	DM74S10		7404	Saratoga	SSL7403		74153	Hitachi	HB561005A		74195	National	DM74195	
74S10	TI	SN74S10		7404	TI	SN7403		74153	TI	TM4256E05		74196	TI	SN74195	
74S11	National	DM74S11		7404	Lansdale	ML7404 (3514)		74153	Lansdale	ML74153 (3514)		74196	Lansdale	ML74196 (3514)	
74S11	TI	SN74S11		7404	National	DM7404		74153	National	74153		74196	National	DM74196	
74S11	Motorola	SN74S11		7404	TI	SN7404		74153	TI	SN74153		74196	TI	SN74196	
74S11	National	DM74S11		7405	Saratoga	SSL7404		74154	Lansdale	ML74154 (3514)		74197	Lansdale	ML74197 (3514)	
74S11	TI	SN74S11		7405	TI	SN7404		74154	TI	ML8311		74197	TI	SN74197	
74S11	Motorola	SN74S11		7405	Lansdale	ML7405 (3514)		74154	National	ML9311		74197	Lansdale	ML74197 (3514)	
74S11	National	DM74S11		7405	National	DM7405		74154	TI	DM7213		74197	National	DM74197	
74S11	TI	SN74S11		7405	TI	SN7405		74154	National	DM74154		74197	TI	SN74197	
74S11	Motorola	SN74S11		7406	Lansdale	ML7406 (3514)		74154	TI	SN54154		74197	National	DM74197	
74S11	National	DM74S11		7406	National	DM7406		74154	TI	SN54154		74197	TI	SN74197	
74S11	TI	SN74S11		7406	TI	SN7406		74155	Lansdale	ML74155 (3514)		74198	TI	SN74198	
74S11	Motorola	SN74S11		7407	Lansdale	ML7407 (3514)		74155	National	DM74155		74198	National	DM74198	
74S11	National	DM74S11		7407	National	DM7407		74155	TI	SN74155		74199	TI	SN74199	
74S13	National	DM74S13		7407	TI	SN7407		74156	National	DM74156		74199	National	DM74199	
74S13	TI	SN74S13		7408	Lansdale	ML7408 (3514)		74156	TI	SN74156		7420	TI	SN74199	
74S13	National	DM74S13		7408	National	DM7408		74157	National	DM74157		7420	Lansdale	ML7420 (3514)	
74S13	TI	SN74S13		7408	TI	SN7408		74157	TI	SN74157		7420	National	DM7420	
74S13	National	DM74S13		7408	TI	SN7408		7416	National	DM7416		7420	National	DM7420	
74S13	TI	SN74S13		7409	Lansdale	ML7409 (3514)		7416	TI	SN7416		7420	TI	SN7420	
74S13	National	DM74S13		7409	National	DM7409		7416	Lansdale	ML7416 (3514)		7420	TI	SN7420	
74S13	TI	SN74S13		7409	TI	SN7409		7416	National	ML8310		7420	TI	SN7420	
74S13	Motorola	SN74S13		7409	TI	SN7409		7416	TI	DM7416		7420	National	DM7420	
74S13	National	DM74S13		7409	Lansdale	ML7409 (3514)		7416	Lansdale	ML7416 (3514)		7420	TI	SN7420	
74S13	TI	SN74S13		7409	TI	SN7409		7416	National	DM7416		7420	National	DM7420	
74S13	Motorola	SN74S13		7409	Lansdale	ML7409 (3514)		7416	TI	SN7416		7420	TI	SN7420	
74S13	National	DM74S13		7409	TI	SN7409		7416	Lansdale	ML7416 (3514)		7420	TI	SN7420	
74S13	TI	SN74S13		7409	National	DM7409		7416	National	DM7416		7420	TI	SN7420	
74S13	Motorola	SN74S13		7409	Lansdale	ML7409 (3514)		7416	TI	SN7416		7420	TI	SN7420	
74S13	National	DM74S13		7409	TI	SN7409		7416	Lansdale	ML7416 (3514)		7420	TI	SN7420	
74S13	TI	SN74S13		7409	National	DM7409		7416	National	DM7416		7420	TI	SN7420	
74S13	Motorola	SN74S13		7409	Lansdale	ML7409 (3514)		7416	TI	SN7416		7420	TI	SN7420	
74S13	National	DM74S13		7409	TI	SN7409		7416	Lansdale	ML7416 (3514)		7420	TI	SN7420	
74S13	TI	SN74S13		7409	National	DM7409		7416	National	DM7416		7420	TI	SN7420	
74S13	Motorola	SN74S13		7409	Lansdale	ML7409 (3514)		7416	TI	SN7416		7420	TI	SN7420	
74S13	National	DM74S13		7409	TI	SN7409		7416	Lansdale	ML7416 (3514)		7420	TI	SN7420	
74S13	TI	SN74S13		7409	National	DM7409		7416	National	DM7416		7420	TI	SN7420	
74S13	Motorola	SN74S13		7409	Lansdale	ML7409 (3514)		7416	TI	SN7416		7420	TI	SN7420	
74S13	National	DM74S13		7409	TI	SN7409		7416	Lansdale	ML7416 (3514)		7420	TI	SN7420	
74S13	TI	SN74S13		7409	National	DM7409		7416	National	DM7416		7420	TI	SN7420	
74S13	Motorola	SN74S13		7409	Lansdale	ML7409 (3514)		7416	TI	SN7416		7420	TI	SN7420	
74S13	National	DM74S13		7409	TI	SN7409		7416	Lansdale	ML7416 (3514)		7420	TI	SN7420	
74S13	TI	SN74S13		7409	National	DM7409		7416	National	DM7416		7420	TI	SN7420	
74S13	Motorola	SN74S13		7409	Lansdale	ML7409 (3514)		7416	TI	SN7416		7420	TI	SN7420	
74S13	National	DM74S13		7409	TI	SN7409									

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Signetics (Cont'd)				• 7476	TI	SN7476		82HS195		(Cont'd)		• 82S147	Lansdale	HL7649	
		• 7477		• 7477	Lansdale	ML7477 (3514)		Fujitsu		MB7152			Motorola	LF351	
7426	Lansdale	ML7426 (3514)		• 7479	Lansdale	ML7479 (3514)		National		DM77S195			National	LF157A	
		• 7480		• 7480	Lansdale	ML7480 (3514)		Signetics		DM87S195				LF351	
		• 7482		• 7482	Lansdale	ML7482 (3514)				N82HS195		• 82S147	NEC	• PC157	
		• 7483		• 7483	Lansdale	ML7483 (3514)				N82HS195A			Raytheon	29621	
• 7427	TI	SN7427		• 7484	Lansdale	ML7484 (3514)		TI		TBP34S162			KF351	PLS157	
	Lansdale	ML7427 (3514)		• 7485	Lansdale	ML7485 (3514)		AMD		AM27S49			Signetics	LF351	
	National	DM7427			National	DM7485				27S49			TI	LF353	
• 7427		7427				7485		ATMEL		AT27HC641				LF353	
• 7427	TI	SN7427			TI	SN7485				AT27HC642		• 82S16	Lansdale	ML4064	
• 74279	National	74279		7486	Lansdale	ML7486 (3514)		Cypress		CY7C263		• 82S181	AMD	AM27S181	
	TI	SN74279			National	DM7486				CY7C264			Cypress	CY7C282M	
• 7428	TI	SN7428				7486		Fujitsu		MBM7144			Gould AMI	S25089	
• 74290	Lansdale	ML74290 (3514)		• 7488	Lansdale	ML4002				MB7144			Hitachi	HN25089	
• 74293	Lansdale	ML74293 (3514)		• 7492	Lansdale	ML7492				MB7144E			Lansdale	HL7681	
• 74298	Lansdale	ML74298 (3514)		• 7493	Lansdale	ML7493		ICT		27CX641			National	DM77LS181	
	TI	SN74298		• 7494	GoldStar	GL7101		Microchip		27HC641				DM77S181	
• 7430	Lansdale	ML7430 (3514)			Lansdale	ML7494 (3514)		National		322565				DM77S281	
	National	DM7430		• 7496	National	DM7496				932665				DM77S281	
		7430			TI	SN7496				932665C				DM87S181	
• 7430	TI	SN7430			TI	SN74HCT645				932667				DM87S281	
7432	National	DM7432		75HCT645		7524				932667C		• 82S181	Raytheon	29631	
		7432		7524	National	DS75S24				• PD27HC65				29631AM	
	TI	SN7432		• 8T04	Lansdale	SL8T04				LM5749		• 82S181	Signetics	N82S181	
7433	TI	SN7433		• 8T05	Lansdale	SL8T05		NEC		LM5749J				S82S181	
74365A	TI	SN74365		• 8T06	Lansdale	SL8T06		Sharp		N82HS641		• 82S181	STC	STC5089	
		SN74365A		• 8T13	Lansdale	SL8T13				27HC641			TI	28586-60	
		SN74366A		• 8T14	Lansdale	SL8T14		Signetics		27HC642		• 82S191	AMD	AM27S191	
74367A	TI	SN74367A			National	DS55122				SS1203				AM27S191A	
74368A	TI	SN74368A		• 8T15	Lansdale	SL8T15		SiliconSys		TM5278C49				AM27S191SA	
7437	Lansdale	ML7437 (3514)		• 8T16	Lansdale	SL8T16		TI		WS57C49				27S191	
	National	DM7437		• 8T18	Lansdale	SL8T18		Waferscale		WS57C49B				AT28HC191	
		7437		• 8T20	Lansdale	SL8T20				AM27S185				AT28HC191L	
	TI	SN7437		• 8T22	Lansdale	ML74122 (3514)		• 82S	AMD	27S185				CY7C291	
7438	Lansdale	ML7438 (3514)				ML8601		• 82S	Fujitsu	MB7128				CY7C292	
	National	DM7438		• 8T22	National	DM8601			Hitachi	HN25085				CY7C292A	
		7438				DM9601			Lansdale	HL7685				CY7C292AL	
	TI	SN7438		• 8T22	Signetics	9601			National	DM87S185				HN25169	
7439	National	7439		• 8T22		N8T22			Raytheon	29651				MCM76101	
7440	Lansdale	ML7440 (3514)		• 8T22	TI	SN74122		• 82S	Signetics	N82S185				MCM76160	
	National	DM7440		• 8T24	Lansdale	SL8T24				S82S185				DM77S191	
		7440			National	DS75124		• 82S	TI	24S81-55				DM77S191	
7441	Lansdale	DM74141			Signetics	N8T24		82S123	AMD	AM27LS19				DM77S291A	
	National	DM7441		• 8T26	TI	SN75124				AM27S19				DM77S291B	
		93141			Lansdale	SL8T26				27S19				932510	
	Signetics	74141			Motorola	MC6880A				Fujitsu	MB7112			932511	
• 7442	Lansdale	ML7442 (3514)		• 8T26	Signetics	MC8T26				Lansdale	HL7603			932512	
	National	DM7442		• 8T28	Motorola	MC8T28				National	DM74S288			932511	
		DM8842		• 8T31	Lansdale	SL8T31					DM8578			932511	
		7442		• 8T32	Lansdale	SL8T32				Signetics	N82S123			N82S191	
• 7442	TI	SN7442A		• 8T33	Lansdale	SL8T33		• 82S126	Lansdale	HL7610			TI	N82S191A	
• 7443	Lansdale	ML7443 (3514)		• 8T35	Lansdale	SL8T35				N82US123				TBP38L166	
• 7444	Lansdale	ML7444 (3514)		• 8T36	Lansdale	SL8T36		• 82S129	Lansdale	HL7611				TMS27C291	
7445	Lansdale	ML7445		• 8T80	Lansdale	SL8T80				ML7474 (3514)				TMS27C292	
	National	7445		• 8T90	Lansdale	SL8T90		• 82S129	National	DM7474				WS57C191	
		7445		• 8T96	Lansdale	SL8T96				7474		• 82S195	AMD	WS57C291B	
• 7446	Lansdale	ML7446			National	DM7096				7474			ATMEL	AM2864B	
	TI	SN7446A				SN54366A		• 82S129	Signetics	SN7474				AT28C64	
• 7447	Lansdale	ML7447		• 82HS181	AMD	AM27S181			TI	HL7620				AT28HC64	
• 7448	Lansdale	ML7448				AM27S181		• 82S130	Lansdale	AM27S13				AT28PC64	
• 7449	Lansdale	ML7449			Cypress	CY7C282M		• 82S131	AMD	ICL7621		• 82S195	Lansdale	HL76165	
• 7450	Lansdale	ML7450 (3514)			Gould AMI	S25089			Harris	HL7621			Motorola	MCM76165	
	National	DM7450			Hitachi	HN25089			Lansdale	ICL7621			Raytheon	29653	
		7450			Lansdale	HL7681			Maxim	MP7621			Samsung	KM28C65	
• 7450	TI	SN7450			National	DM77LS181			MicroPwr	DM74S571		• 82S23	Signetics	82HS195	
7451	Lansdale	ML7451 (3514)				DM77S181		• 82S131	National	DM74S571A			Lansdale	HL7602	
	National	DM7451				DM77S281				N82S131				ML685	
		7451				DM87S181				S82S131		• 82S321	AMD	AM27S43	
	TI	SN7451				DM87S281				HL7642				AM27S43A	
• 7453	Lansdale	ML7453 (3514)				932451		• 82S136	Lansdale	DM54S572				27S43	
• 7470	Lansdale	ML7470 (3514)		• 82HS181	Raytheon	29631			National	93452		• 82S321	Fujitsu	MB7142	
	National	DM7470				29631AM		• 82S137		AM27S33			ICT	27CX321	
		7470		• 82HS181	Signetics	N82S181			AMD	MB7122			Lansdale	HL76321	
• 7472	Lansdale	ML7472 (3514)				S82S181			Fujitsu	HL7643			National	DM77S321	
• 7473	Lansdale	ML7473 (3514)		• 82HS181	STC	STC5089			Lansdale	DM74S573			Raytheon	R29671D	
	National	DM7473			TI	28586-60		• 82S140	National	HL7640				29671	
		7473		• 82HS185	AMD	AM27S185				DM74S475		• 82S321	Signetics	29671A	
• 7473	TI	SN7473				27S185				DM77S475				N82H321	
7474	Lansdale	HL7611		• 82HS185	Fujitsu	MB7128				DM87S475		• 8200	Waferscale	WS57C43B	
		ML7474 (3514)			Hitachi	HN25085				HL7641			Lansdale	ML8200	
	National	DM7474			Lansdale	HL7685		• 82S141	Lansdale	ML863				SL8200	
		7474			National	DM87S185				ML963		• 8201	Lansdale	SL8201	
	TI	SN7474			Raytheon	29651		• 82S141	Motorola	MC963				RL8263	
• 7475	Lansdale	ML7475 (3514)		• 82HS185	Signetics	29651A			National	DM963		• 8202	Lansdale	ML4002	
	National	DM7475				S82S185				9963		• 8224	Lansdale	ML4064	
		7475		• 82HS185	TI	24S81-55		• 82S147	AMD	27S29		• 8225	Lansdale	ML8312	
• 7475	TI	SN7475				AM27S41A			AD	OP15		• 8230	Lansdale	ML9312	
• 7476	Lansdale	ML7476 (3514)		82HS195	AMD	27S41				PM157				RL8230	
	National	DM7476				27S41				PM157A				9312	
		7476													

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Signetics (Cont'd)				Silicon General				(Cont'd)							
♦ 8233	Lansdale	ML8233		JAN101A	National	JAN101A		♦ SG124A	National	LM124		SG1468	National	µA212A	
		RL8233		JAN55325	SiliconG	SG55325	(3643)		Plessey	ZN518			SiliconG	µA750	
♦ 8234	Lansdale	ML8234		SG040	Gazelle	GA23SV8			Raytheon	LM124		SG1488	Exar	SG2501A	(3642)
		RL8234			Lattice	GAL16V8A			Signetics	LM124			Motorola	SG3501A	(3642)
♦ 8235	Lansdale	ML8235			TI	GAL18V10		♦ SG1253	AD	AD558			National	MC1488	
♦ 8241	Lansdale	ML8241			AD	TL040			Harris	ICL7631				µA1488	
		RL8241		SG101	OP77	OP77		SG137	Plessey	ZN558				µA750	
♦ 8242	Lansdale	ML8242			LinearTech	LM101			LinearTech	LM137				DS1488	
	Motorola	SN74LS266			Motorola	LM101			Motorola	LM137				MC1488	
	National	DM74LS266			National	µA101			National	LM137			Samsung	MC1488	
♦ 8242	Panasonic	DN74LS266			Raytheon	LM101A		SG138	Unitorde	UC137			SGS-Thomson	MC1488	
	SGS-Thomson	T74LS266		SG103-1.8	National	LM103-1.8			LinearTech	LT138				MC1488	
		74LS266		SG103-2.0	National	LM103-2.0		SG140-05	National	LM140-05			Signetics	MC1488	
	Signetics	SN74LS266		SG103-2.2	National	LM103-2.2			Unitorde	UC140-05			TI	MC1488	
♦ 8250	Lansdale	ML8250		SG103-2.4	National	LM103-2.4		SG140-06	National	LM140-06		SG1489	National	SN75188	
♦ 8251	Lansdale	ML8251		SG103-2.7	National	LM103-2.7		SG140-08	National	LM140-08			SGS-Thomson	MC1489	
		RL8251		SG103-3.0	National	LM103-3.0		SG140-12	Motorola	LM140-12				MC1489	
♦ 8252	Lansdale	ML8301		SG103-3.3	National	LM103-3.3			National	LM140-12			TI	MC1489	
		ML9301		SG103-3.6	National	LM103-3.6		SG140-15	Unitorde	UC140-12		SG1489A	Exar	XR1489A	
		RL8252		SG103-3.9	National	LM103-3.9			Motorola	LM140-15		SG1495	Motorola	MC1495	
♦ 8252	National	DM8301		SG103-4.3	National	LM103-4.3			National	LM140-15		SG1496	Motorola	MC1496	
		DM9301		SG103-4.7	National	LM103-4.7			Unitorde	UC140-15			National	LM1496	
		9031		SG103-5.1	National	LM103-5.1		SG140-18	National	LM140-18			Plessey	SL1496	
♦ 8252	Signetics	S8252		SG103-5.6	National	LM103-5.6		SG140-20	National	LM140-20			Signetics	MC1496	
♦ 8260	Lansdale	ML8260		SG104	National	LM104		SG140-24	National	LM140-24			Lambda	LLM150	
♦ 8261	Lansdale	ML8261		SG105	National	µA105			Toshiba	TA79005		SG150	LinearTech	LM150	
		RL8261		SG107	AD	OP02		SG14005	Motorola	MC78M05				LT150	
♦ 8266	Lansdale	ML8266			LinearTech	OP77			National	µA78M05			Motorola	LM150	
		SL8266			National	LM107		SG1401	SiliconG	SG14012			National	LM150	
♦ 8266	Signetics	S8266		SG109	Motorola	LM109			Adv Analog	A733		SG1501A	Exar	XR1568	
♦ 8267	Lansdale	ML8267			National	µA109			Motorola	MC1733			Motorola	MC1568	
♦ 8269	Lansdale	SL8269		SG111	LinearTech	LM109			National	NE592		SG1503	SiliconG	SG1568	(3642)
♦ 8270	Lansdale	ML8270			Motorola	LM111			Signetics	µA733			AD	AD580	
♦ 8271	Lansdale	ML8271			National	µA111				LM733				REF03	(3238)
		RL8271		SG117	LinearTech	LM111				NE592		SG1524	Hitachi	HA17012	
♦ 8277	Lansdale	ML8328			Motorola	LM117			TI	SE592			Maxim	AD580	
♦ 8280	Lansdale	SL8280			National	µA117				µA733M			Exar	XR1524	
♦ 8281	Lansdale	ML8281			TI	TL117				NE592			LinearTech	LT1524	
	National	DM74177		SG117A	Unitorde	UC117				NE592-8			National	SG1524	
		DM8281			LinearTech	LT117A		SG14012	Motorola	MC78M05				µA1524	
♦ 8281	Signetics	74177			Motorola	LM117A			National	µA78M05			SGS-Thomson	LM1524	
♦ 8284	Lansdale	ML8284			National	LM117A				LM78M05		SG1524B	SiliconG	SG1524B	(3642)
♦ 8285	Lansdale	ML8285		SG117AHV	National	LM117AHV			SiliconG	SG14005			Unitorde	UC1524	
		SL8288		SG117HV	National	LM117HV		SG143	TI	µA78M05		SG1524B	Exar	XR1524	
♦ 8288	Lansdale	ML8288		SG1173	Allegro	ULN3751			Motorola	MC1536			LinearTech	LT1524	
		SL8288			Micro	CS365			National	LM143				SG1524	
♦ 8290	Lansdale	ML74196	(3514)		Cherry Semi	CS365			SiliconG	SG1536	(3643)		National	µA1524	
		ML8290			SGS-Thomson	L165		SG1436	Motorola	MC1436			SGS-Thomson	LM1524	
♦ 8290	National	DM74196		SG120-05	Unitorde	UC120-05			National	LM1436				SG1524	
♦ 8290	Signetics	74196		SG120-08	National	LM120-08			SiliconG	SG343			SiliconG	SG1524	(3642)
♦ 8291	Lansdale	ML74197	(3514)	SG120-12	National	LM120-12		♦ SG1458	AD	OP14	(3245, 3248)	SG1525A	Exar	XR1525A	
		RL8291		SG120-15	Unitorde	UC120-12				OP215			LinearTech	LT1525	
♦ 8291	National	DM74197		SG120-18	National	LM120-18		♦ SG1458	Exar	OP270				XR1525A	
		DM8291		SG120-5	National	µA79M05				XR4558			Motorola	SG1525A	
♦ 8291	Signetics	74197			LinearTech	LM123		♦ SG1458	Fujitsu	MB3607			TeledyneS	TSC15C25A	
	TI	SN74197		SG123	Motorola	LM123			Harris	CA1458			TI	LT1525	
♦ 8415	Lansdale	SL8415			National	µA123		♦ SG1458	Hitachi	CA1558		SG1526	Unitorde	UC1525	
♦ 8416	Lansdale	SL8416			Motorola	LM123			Motorola	HA17458			LinearTech	UC1525A	
♦ 8417	Lansdale	SL8417			National	µA138		♦ SG1458		MC4558			Motorola	SG1526	
♦ 8424	Lansdale	SL8424		♦ SG123A	LinearTech	SH123			National	SE4558			Signetics	SG3526	
♦ 8425	Lansdale	SL8425				LM123		♦ SG1458		µA1458			SiliconG	SG3526	
♦ 8440	Lansdale	SL8440				LM123			Raytheon	µA4558				SG1526B	(3642)
♦ 8455	Lansdale	SL8455		♦ SG123A	Motorola	LM123		♦ SG1458	Samsung	LM1558			Unitorde	SG3526	(3642)
♦ 8470	Lansdale	SL8470			National	µA123			SGS-Thomson	RC4558		SG1526B		UC1526	
♦ 8471	Lansdale	SL8471				LM123				RM4558			LinearTech	UC1526A	
		SN54LS12		♦ SG123A	SiliconG	SG123		♦ SG1458		MC4558			Motorola	LT1526	
♦ 8480	Lansdale	SL8480		SG124	AD	OP400			Signetics	MC4558				SG1526	
♦ 8481	Lansdale	SL8481			Harris	CA0124				MC1558			Signetics	SG3526	
♦ 8490	Lansdale	SL8490			LinearTech	LT1014		♦ SG1458	TI	NE4558		SG1527A	SiliconG	SG1526	(3642)
♦ 9300	Lansdale	ML54195	(3514)		National	µA124				SA4558			Unitorde	UC1526	
		ML8300			SGS-Thomson	LM124A				SE4558				UC1526A	
		ML9300				LM124		♦ SG1458		MC1458			LinearTech	LT1527	
♦ 9300	National	9300			Signetics	LM124				MC1558			Motorola	SG1527A	
	TI	SN54195		♦ SG124A	AMD	LM124				MC4558C			SGS-Thomson	SG1527	
9401	Motorola	MC8503			Motorola	LM124		♦ SG1458	Toshiba	TA75458			TeledyneS	TSC15C27A	
9403	National	F9403				LM124				TA75558			TI	TL1527	

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Silicon General (Cont'd)				SG201	Motorola National SGS-Thomson	LM201 μA201 LM201		SG2077	SGS-Thomson	ULN2077		SG2524B	TI Unitrode	SG2524 UC2524 UC2524A	(Cont'd)
SG1527A	Unitrode	UC1527 UC1527A	(Cont'd)					SG209	AD Motorola National	PM108 LM208 μA209 LM209		SG2525A	Exar Harris LinearTech Motorola SGS-Thomson	XR2525A HA2525 LT2525A SG2525A	
SG1536	Motorola National	MC1536 LM143 LM1536		SG2011	Allegro Micro	ULN2011 ULS2011 XR2011C		SG211	AD	AD211 PM211					
SG1543	SiliconG Exar	SG143 XR1543	(3643)	SG2012	Exar Allegro Micro	ULN2012 ULS2012			Motorola National SGS-Thomson	LM211 LM211				SG2525A Sipex-HSD TeledyneS TI	SG2525A SP2525 TSC25C25A SG2525A TL2525
SG1544	Unitrode	UC1544		SG2013	Allegro Micro	ULN2013 ULS2013		SG217	Motorola National SGS-Thomson	LM217 LM217		SG2526	Unitrode LinearTech Motorola	UC2525A LT2526 SG2526	
SG1568	Exar	XR1568							Signetics TI	LM211 LM211			Unitrode	UC2526	
SG1595	Motorola	MC1595		SG2014	Exar Allegro Micro	ULN2014 ULS2014 XR2014C		SG217A	Motorola National SGS-Thomson	LM217 LM217		SG2527A	Exar LinearTech Motorola TeledyneS TI	XR2527A LT2527A SG2527A TSC25C27A SG2527A TL2527	
SG1596	Motorola National	MC1596 μA796 LM1596	(3642)	SG2021	Allegro Micro	ULN2021 ULS2021			SiliconG Unitrode VTC	SG217A UC217 VM217	(3642) (3714)			UC2527 UC2527A UC2540	
SG1626	Harris IXYS	ICL7667 IXLD1426 IXLD426 IXLD4426 ICL7667 TSC426 MIC426 MC33151 MC34151 MMH0026 DS0026 NMH0026		SG2022	Allegro Micro	ULN2022 ULS2022 MB40578 SG2002	(3643)	SG217AHV SG217HV SG220-05	National National National	LM217AHV LM217HV LM120-05 LM220-05 LM220-05		SG2540 SG2543	Unitrode Exar Unitrode	UC2540 XR2543 UC2543	
	Maxim	ICL7667 IXLD1426 IXLD426 IXLD4426 ICL7667 TSC426 MIC426 MC33151 MC34151 MMH0026 DS0026 NMH0026		SG2023	Fujitsu SiliconG Allegro Micro	ULN2023 ULQ2003 ULS2023 XR2003		SG220-08 SG220-12 SG220-15 SG220-18 SG220-20 SG220-5.2 SG223	SiliconG National National National National National National	LM220-08 LM220-12 LM220-15 LM220-18 LM220-20 LM220-5.2 LM223		SG2544 SG2548 SG2626 SG2644	Unitrode LinearTech Motorola TeledyneS TI	UC2544 UC2548 UC2548 SG3626 MAX627 MIC4424 SG1644 SG3644	(3643) (3643)
SG1644	Maxim Micrel SiliconG	MAX627 MIC4424 SG2644 SG3644	(3643) (3643)	SG2024	Exar Allegro Micro	ULN2024 ULS2024 LM204			SGS-Thomson	LM223		SG2801	Allegro Micro Motorola SGS-Thomson	ULN2801 ULN2801 ULN2801	
SG1840	Unitrode	UC1840 UC1841		SG204	National SGS-Thomson	LS204 LM205 M54532 ULN2065 ULN2065	(3206)	SG224A SG237	Plessey Motorola National SiliconG Unitrode	ZN501 LM237 LM237 SG237A UC237	(3642)	SG2802	Allegro Micro	ULN2802 ULN2802	
SG1842	LinearTech Motorola TeledyneS Unitrode	LT1842 UC1842A TSC18C42 UC1842 UC1842A		SG205	National	LM205			SGS-Thomson	LM223		SG2803	Allegro Micro	ULN2803 ULN2803	
SG1843	LinearTech Motorola Unitrode	LT1843 UC1843A UC1843 UC1843A		SG206	Motorola SGS-Thomson	ULN2066 ULN2066		SG237A	Motorola National SiliconG Unitrode National	LM237 LM237 SG237 UC237 μA238 LM238	(3642)	SG2804	SiliconG Allegro Micro	SG2813 ULN2804 ULN2804 ULN2804	(3642)
SG1846	LinearTech SiliconG TeledyneS Unitrode	UC1846 SG1846 TSC38C46 UC1846		SG2067	Motorola SGS-Thomson	ULN2067 ULN2067		SG238	National	μA238 LM238		SG2805	Motorola SGS-Thomson	ULN2805 ULN2805	
SG1847	LinearTech SiliconG TeledyneS Unitrode	UC1847 SG1847 TSC38C47 UC1847						SG240-05	National	LM240-05 LM240-5		SG2811	Allegro Micro	ULN2811 ULN2811	
SG2001	Allegro Micro	ULN2001 ULQ2001 ULS2001 XR2001 XR2001C XR2201 ULN2001		SG2068	Allegro Micro Motorola SGS-Thomson	ULN2068 ULN2068	(3206)	SG240-06 SG240-08 SG240-12 SG240-15 SG240-18 SG240-20 SG240-24 SG250	National National National National National National National National	LM240-06 LM240-08 LM240-12 LM240-15 LM240-18 LM240-20 LM240-24 LM250		SG2812	Allegro Micro	ULN2812 ULN2812	
	Exar	XR2001 XR2001C XR2201 ULN2001		SG2069	Allegro Micro Motorola SGS-Thomson	ULN2069 ULN2069	(3206)	SG2501A	SiliconG	μA212A μA750 SG1468 SG3501A	(3642)	SG2813	Allegro Micro	ULN2813	
	Motorola SGS-Thomson	ULN2001 ULN2001 ULN2001A							Exar LinearTech	XR2524 LT2524		SG2814	Allegro Micro	ULN2814	
SG2002	Allegro Micro	ULN2002 ULS2002 XR2002C XR2202 ULN2002		SG207	AD	OP02 OP77 LM207 LM207		SG2524	Exar LinearTech	XR2524 LT2524		SG2815	Allegro Micro	ULN2815 ULN2815	
	Exar	XR2002C XR2202 ULN2002		SG2070	SGS-Thomson	ULN2070			National	μA2524 LM2524		SG2821	Allegro Micro	ULN2821 ULN2821	
	Motorola SGS-Thomson	ULN2002 ULN2002		SG2071	SGS-Thomson	ULN2071			SGS-Thomson	SG2524 SG2524C SG2524B SG2524 UC2524 UC2524A XR2524 LT2524 SG2524 μA2524 LM2524		SG2822	Allegro Micro	ULN2822 ULN2822	
SG2003	Allegro Micro	ULN2003 ULS2003 XR2003C XR2203 ULN2003		SG2074	Allegro Micro Motorola SGS-Thomson	ULN2074 ULN2074 ULN2074 TD62074	(3206)		Signetics SiliconG TI Unitrode	SG2524 SG2524C SG2524B SG2524 UC2524 UC2524A XR2524 LT2524 SG2524 μA2524 LM2524	(3642)	SG2823	Allegro Micro	ULN2823 ULN2823	
SG2004	Motorola Allegro Micro	ULN2004 ULS2004 XR2204 ULN2004		SG2075	TI Toshiba Allegro Micro Motorola SGS-Thomson	ULN2075 ULN2075 ULN2075 ULN2075	(3206)	SG2524B	Exar LinearTech	XR2524 LT2524		SG2824	Allegro Micro	ULN2824 ULN2824	
	Exar Motorola SGS-Thomson	XR2204 ULN2004 ULN2004							National	μA2524 LM2524		SG2840	SGS-Thomson	UC2840 UC2840	
	TI	ULN2004 ULN2004 ULN2004A		SG2076	SGS-Thomson	ULN2076			SGS-Thomson	SG2524 SG2524C SG2524B SG2524	(3642)	SG2841	Unitrode Allegro Micro Motorola	UDN2841 UDN2841	
(Continued)				(Continued)				(Continued)				(Continued)			

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
Silicon General (Cont'd)				SG320-15	National	LM320-15 LM320T15		SG3501A	National	µA212A µA750 SG1468		SG55236A	SiliconG SiliconSys	SG55236 SS175T982	(3643) (3647)	
SG2842	Cherry Semi Gennum SGS-Thomson	CS2842A LS2842 UC2842		SG320-18	National	LM320-18			SiliconG	SG2501A	(3642)	SG5524	TI	TL5524		
		UC2842		SG320-20	National	LM320-20		SG3503	AD	AD1403		SG55325	SiliconG	JAN55325		
		UC2842		SG320P-12	National	LM320MP12			Motorola	MC1403		SG55327	Motorola	MC75325		
SG2843	TeledyneS Unitrode Cherry Semi SGS-Thomson	TSC28C42 UC2842 CS2843A UC2843		SG323	LinearTech	LM323 LT323			TI	TMS416C74		SG55450	National	µA55450		
		UC2843				LM323		SG3523	Motorola	MC3523		SG55450B	SiliconG	SG55450B	(3643)	
		UC2843			Motorola	LM323		SG3524	TI	MC3523			National	µA55450		
		UC2843			National	µA323			Cherry Semi	CS3524		SG55451	SiliconG	SG55450		
		UC2843				LM323			Exar	XR3524			National	55451		
		UC2843			SGS-Thomson	LM323			Harris	CA3524		SG55451B	SiliconG	SG55451B	(3643)	
		UC2843				LM323			National	LM3524			TI	SNJ55451		
SG2846	TeledyneS Unitrode	TSC28C46 UC2846		SG323A	National	LM323A			SGS-Thomson	SG3524		SG55451B	National	55451		
		UC2846		SG324A	AD	PM139				SG3524			SiliconG	SG55451		
SG301	AD	AD301 OP77			IDT	IDT39C01			Signetics	SG3524C			TI	SNJ55451		
		OP77			Motorola	LM2901				SG3524C				SN55451		
		OP77				MC3302			SiliconG	SG3524B	(3642)	SG55452	National	µA55452		
		OP77			SG324A	National	µA2901		Unitrode	UC3524			TI	SNJ55452		
		OP77				µA3302				UC3524A				SN55452		
		OP77				LM2901		SG3524B	Cherry Semi	CS3524		SG55453	National	LM55453		
		OP77				LM3302			Exar	XR3524				55453		
		OP77				LM2901			Harris	CA3524			TI	SNJ55453		
		OP77				LM3302			National	LM3524				SN55453		
		OP77				LM3302			SGS-Thomson	SG3524		SG55454	SiliconG	SG55454B	(3643)	
		OP77				MC3302				SG3524			TI	SNJ55454		
		OP77				MC3302			Signetics	SG3524C		SG55454B	SiliconG	SG55454		
		OP77				MC3302				SG3524C			TI	SNJ55454		
		OP77				MC3302			SiliconG	SG3524	(3642)			SN55454		
		OP77				MC3302			Unitrode	UC3524		SG55460	TI	SNJ55460		
		OP77				MC3302				UC3524A		SG55461	TI	SNJ55461		
		OP77				MC3302				UC3524A				SN55461		
		OP77				MC3302				UC3524A		SG55462	National	µA55462		
		OP77				MC3302				UC3524A			TI	SNJ55462		
		OP77				MC3302				UC3524A		SG55463	TI	SNJ55463		
		OP77				MC3302				UC3524A				SN55463		
		OP77				MC3302				UC3524A		SG55464	TI	SNJ55464		
		OP77				MC3302				UC3524A				SN55464		
		OP77				MC3302				UC3524A		SG55470	SiliconSys	SS173K221		
		OP77				MC3302				UC3524A		SG55471	National	DS55471		
		OP77				MC3302				UC3524A			TI	SNJ55471		
		OP77				MC3302				UC3524A		SG55472	TI	SNJ55472		
		OP77				MC3302				UC3524A		SG55473	TI	SNJ55473		
		OP77				MC3302				UC3524A		SG55474	TI	SNJ55474		
		OP77				MC3302				UC3524A		SG723	Harris	CA0723		
		OP77				MC3302				UC3524A			Motorola	MC1723		
		OP77				MC3302				UC3524A			National	µA723		
		OP77				MC3302				UC3524A				µA723M		
		OP77				MC3302				UC3524A				LM723		
		OP77				MC3302				UC3524A			NEC	LM723		
		OP77				MC3302				UC3524A			Samsung	LM723		
		OP77				MC3302				UC3524A			SGS-Thomson	µA723		
		OP77				MC3302				UC3524A				µA723M		
		OP77				MC3302				UC3524A				LM723		
		OP77				MC3302				UC3524A			Signetics	µA723		
		OP77				MC3302				UC3524A			TI	µA723		
		OP77				MC3302				UC3524A				µA723M		
		OP77				MC3302				UC3524A				AD741	(3245)	
		OP77				MC3302				UC3524A				OP02		
		OP77				MC3302				UC3524A				OP77		
		OP77				MC3302				UC3524A				MP0P02		
		OP77				MC3302				UC3524A				Motorola	MC1741	
		OP77				MC3302				UC3524A				National	µA741M	
		OP77				MC3302				UC3524A					LM741	
		OP77				MC3302				UC3524A				Raytheon	RM741	
		OP77				MC3302				UC3524A				SGS-Thomson	LM741	
		OP77				MC3302				UC3524A					µA741	
		OP77				MC3302				UC3524A				Signetics	µA741	
		OP77				MC3302				UC3524A				TI	µA741	
		OP77				MC3302				UC3524A					µA741M	
		OP77				MC3302				UC3524A				Exar	XR1488	
		OP77				MC3302				UC3524A				Motorola	MC1488	
		OP77				MC3302				UC3524A				National	µA1488	
		OP77				MC3302				UC3524A					µA212A	
		OP77				MC3302				UC3524A					µA750	
		OP77				MC3302				UC3524A					DS1488	
		OP77				MC3302				UC3524A					MC1488	
		OP77				MC3302				UC3524A					MC1488	
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		OP77				MC3302				UC3524A					MC1488	
		OP77				MC3302				UC3524A					MC1488	
		OP77				MC3302				UC3524A					MC1488	

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Silicon Systems (Cont'd)				DG188	Harris	DG188		DG5043	Harris	DG191		DG5145	Harris	HI5045	
SSI75T204	Signetics	N82S100	(Cont'd)		Maxim	IH5042			Maxim	IH5043			Maxim	IH5145	
SSI75T957	SiliconSys	SSI204		DG189	Siliconix	DG5042		DG5044	Siliconix	DG191		DG526	AD	ADG526A	(3237)
	National	μA7920		DG190	Harris	DG189		DG5045	Maxim	IH5044		DG527	Harris	ADG527A	(3237)
		LM7920				DG190			Harris	DG185		DG528	AD	DG527	
SSI75T980	SiliconG	SG7920	(3642)	DG191	Maxim	IH5151		• DG506A	Maxim	IH5045		DG529	Harris	ADG528A	(3237)
SSI75T981	Telton	M957			Harris	IH5051			Siliconix	DG185			AD	DG528	
	AD	AD636				DG191			Burr-Brown	TL185			Harris	ADG529A	(3237)
	Telton	M980			Maxim	IH5043		• DG507	Harris	HI506A		• D125	Harris	DG529	
SSI75T982	SiliconG	M981		DG200A	Siliconix	DG5043			TeledyneS	TP4552		D469	TeledyneS	CDR125	
		SG55236	(3643)		AD	ADG200		• DG507	AD	AD7507			Micrel	MIC4469	
		SG55236A	(3643)		Harris	DG200		• DG507	Datel	MYD807	(3360)		Siliconix	D469A	
SSI78A093A	GoldStar	GM62093	(3438)	DG201A	Unitrode	PIC7513		• DG507	Harris	MXD807	(3360)	D469A	TeledyneS	TSC4469	
	Harris	CD22M093			AD	ADG201		• DG507	MicroPwr	HI507			Micrel	MIC4469	
	Mitel	MT8812				SW201		• DG507	AD	MP7507		• G118	Siliconix	D469	
	SGS-Thomson	M03494			Fujitsu	MB47201		DG507A	AD	ADG507A	(3237)	• G119	TeledyneS	TSC4469	
		M093			Harris	DG201			Burr-Brown	HI507A		• LD131	Harris	G118	
	SiliconSys	78A093A-CP				DG201A			Harris	MPF8D	(3344)		Harris	G119	
SSI78A093B	Mitel	MT8814			Lin Int Sys	LS201			Maxim	DG507A			Maxim	ICL7106	
SSI78A207	Aptek	AMS3130		DG202	Maxim	DG201A				IH6216		• LM101	TeledyneS	TSC7106	
SSI78P233	AT&T	LC1046				MAX331		• DG508	AD	AD7503			UMC	UM7106	
SSI9203	UMC	UM9203		DG211	MicroPwr	MP201			Burr-Brown	MUX88		• LM101	LinearTech	LM101	
SSI9204	UMC	UM9204			National	LF11201		• DG508	Datel	MX808	(3360)	L144	Motorola	LM101	
SS1203	AMD	AM27S49			TeledyneS	LF13201		• DG508	Harris	MUX808		MP7622	National	μA101	
		27S49				TSC4201		• DG508	Maxim	MAX358			Raytheon	LM101A	
	ATMEL	AT27HC641			AD	SW02		• DG508	Maxim	DG505A		SD5200	SiliconG	SG101	
		AT27HC642		DG212	Maxim	MAX332			Maxim	DG508		SG1626	Maxim	SL144	
	Cypress	CY7C261			Siliconix	TSC4201		• DG508	MicroPwr	HI508			MicroPwr	ICL7622	
		CY7C263		DG211	Harris	DG211		• DG508	Motorola	MAX368			Sipex-HSD	MP7622	
		CY7C264				DG308A		• DG508	National	MP7508DI		SG1846	Siliconix	HS3120	
	Fujitsu	MBM7144			National	LMC13204		• DG508	TeledyneS	MC6108				SG5200	
		MB7144		DG212	AD	TSC4201		• DG508	AD	LF11508		SG1847		SG2626	
	ICT	27CX641			Harris	ADG212		• DG508	Burr-Brown	LF13508			LinearTech	UC1846	
	Microchip	27HC641		DG221	Siliconix	DG309		• DG508	Datel	TP4554			SiliconG	UC1846	(3642)
	National	32Z565				DG309		• DG508	Harris	ADG508A	(3237)	SG1847	TeledyneS	TSC38C46	
		93Z665		DG271	AD	TSC4201			Harris	HI508A			Unitrode	UC1847	
		93Z665C			TeledyneS	TSC441				MPF8S			SiliconG	SG1847	(3642)
		93Z667		DG300A	AD	ADG221				MX808	(3360)	SG2626	TeledyneS	TSC38C47	
		93Z667C			Harris	TSC411				HI508A			Unitrode	UC1847	
	NEC	μPD27HC65		DG301A	Harris	HI201HS	(3236)			DG508A			Siliconix	SG1626	
	Sharp	LH5749		DG302A	Maxim	DG300A				HI508A		SG2847	TeledyneS	TSC171	
		LH5749J			Harris	DG300A				MAX358		SG3626	Siliconix	SG1626	
	Signetics	N82HS641		DG303A	Maxim	DG301A		• DG508A-P2	MicroPwr	MP7508DI		SG3846	LinearTech	UC3846	
		27HC641			Maxim	DG301A		• DG509	Harris	HI508A-2			SiliconG	SG3846	(3642)
		27HC642		DG304A	Harris	DG302A		• DG509	Harris	DG509		SG3847	TeledyneS	TSC38C46	
	TI	TMS278C49			Maxim	DG302A		• DG509	Maxim	HI509			Unitrode	UC3846	
	Waferscale	WS57C49		DG305A	MicroPwr	DG302A		• DG509	MicroPwr	MAX359		• SG4250	LinearTech	UC3847	
73K212-22IP	Harris	CD22212E1			Lin Int Sys	MP302			National	MP7509DI			SiliconG	SG3847	(3642)
73K212-22IH	Harris	CD22212Q		DG306A	Maxim	LS303				LF11509		• SG4250	Unitrode	UC3847	
	IDT	DPSS9264			MicroPwr	DG303A				LF13509			AD	OP22	
	LogicDev	L7C185		DG307A	Harris	MP303		DG509A	AD	ADG509A	(3237)	• SG4250	OP43		
	Motorola	MCM6164			Harris	HI304				MUX24		• SG4250	ICL7611		
	Saratoga	SSM7164		DG309	Maxim	DG304A			Burr-Brown	HI509A			ICL8021		
73K212-28IP	Harris	CD22212E			Maxim	HI305			Fujitsu	MB5208		• SG4250	LM4250		
75T201	Aptek	AMS201			Maxim	DG305A			Harris	DG509A			ICL7611		
78A093A-CP	GoldStar	GM62093	(3438)	DG381A	Harris	HI306				HI509A		• SG4250	MC1776		
	Harris	CD22M093			Maxim	DG306A				IH5208			MC3476		
	Mitel	MT8812			Harris	DG306A				IH6208		• SG4250	μA776		
	SGS-Thomson	M03494			Siliconix	DG307A				DG509A			LF441		
		M093				ADG212				HI509A		• SG4250	TS271		
	SiliconSys	SSI78A093A	(3647)			TSC4201				IH6208		• SG4250	TLC251		
Siliconix						DG181				MAX359		• SG555	TLC271		
• DF320	Mitel	MT4320				HI381		DG5140	Harris	CD22212			TL061		
	Plessey	MV4320			Maxim	IH5048				HI5140		• SG555	XR555		
• DF412	Sierra	SC22104				DG381A				M5140		• SG555	XR555M		
• DG154	National	AM0154		DG384A	Siliconix	DG181				SSI73K272		• SG555	GLC555		
• DG163	National	AM0163				DG184				CS202			CA0555		
• DG164	National	AM0164				HI384A				CD22202		• SG555	NE555		
DG172	Harris	DG118			Maxim	IH5149				HI5141			ME555		
DG180	Harris	DG180				DG384A		DG5141	SiliconSys	SSI75T202	(3647)	• SG555	M51841		
DG181	Harris	DG181				IH5049			Crystal	CS202			M51848		
		HI381		DG387A	Harris	DG187			Harris	CD22202		• SG555	MC1455		
		HI5048				HI387			Maxim	HI5141			μA555		
	Maxim	DG381A				HI5050		DG5142	SiliconSys	HI5142		• SG555	LM555		
		DG381A			Maxim	IH5150			Harris	IH5142			NE555		
	Siliconix	DG381A				DG387A		DG5143	Maxim	HI5043		• SG555	SE555		
DG182	Harris	DG182				IH5050			Harris	IH5143					
DG185	Harris	DG185		DG390A	Maxim	DG390A				CD22223		• SG555			
	Maxim	IH5045			Maxim	IH5040		DG5144	Maxim	HI5044					
	Siliconix	DG5045			Maxim	IH5041			Harris	IH5144					
	TI	TL185		DG5042	Harris	DG188				HI5144					
DG186	Harris	TL186			Maxim	IH5042			Maxim	HI5144					
					Siliconix	DG188									

• Discontinued

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IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Siliconix (Cont'd)				Simtek				Sipex-HSD				HSADC85 (Cont'd)			
SG555	TI	SE555		STK28C256	ATMEL	AT28C256		ADC542	Burr-Brown	ADC82		HSADC85	AD	ADC855	(3346)
SG555	Toshiba	TA7555			Hitachi	HN58C256		ADC581	Sipex-HSD	HSADC82			Burr-Brown	ADC855	
SI1525B	Exar	XR1525A			Microchip	28CP256A			Adv Analog	ADC84				ADC84	
	LinearTech	LT1525				28C256B				ADC85				ADC85	
SI1525B	Motorola	SG1525A	(3642)		NEC	μPD28C256				ADC87				ADC87	
	SiliconG	SG1525A			Samsung	KM28C256				ADCHX12B				ADCHX12B	
	TeledyneS	TSC15C25A			SEEQ	28C256				ADCHZ				ADCHZ	
	TI	TL1525			Xicor	X28C256	(3745)			ADCHZ12BGZ				ADCHZ12BGZ	
	Unitrode	UC1525				X28256	(3745)			MNADC84				MNADC84	
SI1527B	LinearTech	LT1527								MNADC85				MNADC85	
		LT1527A								MNADC87				MNADC87	
SI1527B	Motorola	SG1527A								MN5240	(3547)			MN5240	(3547)
	SGS-Thomson	SG1527								ADC581				ADC581	
		SG1527A	(3642)							ADC581B				ADC581B	
	SiliconG	TSC15C27A								ADC85B				ADC85B	
	TeledyneS	TL1527								HSADC85C				HSADC85C	
	Unitrode	UC1527								TP4189				TP4189	
SI2504	IMI	IM2504								ADC84				ADC84	
SI3002	National	SH3002								ADC85				ADC85	
SI3527B	Exar	XR3527A								ADADC84	(3228)			ADADC84	(3228)
	LinearTech	LT3527								ADADC85	(3228)			ADADC85	(3228)
SI3527B	Motorola	SG3527A								ADADC87				ADADC87	
	SGS-Thomson	SG3527A								ADC855				ADC855	
		SG3527A	(3642)							AD5240				AD5240	
	SiliconG	TSC35C27A								ADC84	(3346)			ADC84	(3346)
	TeledyneS	SG3527								ADC85				ADC85	
	TI	UC3527A								ADC87				ADC87	
SI3535B	Ericsson	RL3525A								ADCHX				ADCHX	
	Exar	XR3525A								ADCHX12B				ADCHX12B	
	LinearTech	LT3525								ADCHZ				ADCHZ	
SI3535B	Motorola	SG3525A								ADCHZ12BGZ				ADCHZ12BGZ	
	SGS-Thomson	SG3525A								MNADC84				MNADC84	
		SG3525A	(3642)							MNADC85				MNADC85	
	SiliconG	TSC35C25A								MNADC87				MNADC87	
	TeledyneS	SG3525								MN5240	(3547)			MN5240	(3547)
	TI	UC3525								ADC581				ADC581	
	Unitrode	UC3525A								ADC581B				ADC581B	
SI5200	Siliconix	SD5200								ADC85B				ADC85B	
SI5554	TI	SN5554								HSADC85				HSADC85	
SI7135	Harris	ICL7135								TP4189				TP4189	
	Maxim	ICL7135								ADDAC80				ADDAC80	
	TeledyneS	TSC7135								DAC80				DAC80	
SI7541A	TI	ICL7135C								DAC800				DAC800	
	Burr-Brown	DAC7541A								ICM7216				ICM7216	
	Datel	DAC7541								ICM7226				ICM7226	
	Harris	AD7541								DAC80	(3549)			DAC80	(3549)
	Maxim	MX7541								DAC1280				DAC1280	
	Signal Proc	HDAC7541								ADDAC87				ADDAC87	
	Sipex-HSD	DAC331								DAC851				DAC851	
SI7652	LinearTech	LTC1052								DAC87				DAC87	
		LTC7652								HIDAC87V				HIDAC87V	
	Maxim	ICL7650								MNADC87				MNADC87	
	National	LMC668								DAC335				DAC335	
	Siliconix	SI7135								SPDAC87				SPDAC87	
	TeledyneS	TSC7652								AD370				AD370	
SI7660	LinearTech	LT7660								AD371				AD371	
	Maxim	ICL7660								MN370	(3549)			MN370	(3549)
		MAX7660								MN371	(3549)			MN371	(3549)
SI7820	National	AD7820								DAC346				DAC346	
	AD	AD7820								DAC356				DAC356	
	Crystal	CS7820								AD370				AD370	
	Maxim	AD7820								AD371				AD371	
		MAX150								MN3349	(3549)			MN3349	(3549)
		μA7820								DAC9349				DAC9349	
	National	KAD0820								AD370				AD370	
	Samsung	TI								AD371				AD371	
	TI	SN55182								MN370	(3549)			MN370	(3549)
		TLC0820								MN371	(3549)			MN371	(3549)
SI9551	Allegro	UCN5851								DAC346				DAC346	
	Micro	SN75551								DAC347				DAC347	
SI9552	TI	SN75551								ADH030				ADH030	
		SN75552								MN3349	(3549)			MN3349	(3549)
SI9553	Allegro	UCN5853								DAC349				DAC349	
	Micro	SN75553								Sipex-HSD				Sipex-HSD	
	TI	UCN5853								AD				AD	
SI9554	Allegro	UCN5854								ADAC85				ADAC85	
	Micro	SN75554								DAC85				DAC85	
	TI	SN75554								DAC850				DAC850	
										DACHZ				DACHZ	
										DACHZ12B				DACHZ12B	
										HIDAC80V				HIDAC80V	
										HIDAC85V				HIDAC85V	
										H56851				H56851	
										DAC85				DAC85	
										DAC85V				DAC85V	
										DAC1285				DAC1285	
										MP9377				MP9377	
										AM452-2M				AM452-2M	
										EHA2522				EHA2522	
										SP2522				SP2522	
										ADC82				ADC82	
										ADC542				ADC542	
										ADC84				ADC84	
										ADC85				ADC85	
										ADC87				ADC87	
										ADADC84	(3228)			ADADC84	(3228)
										ADADC85	(3228)			ADADC85	(3228)
										ADADC87				ADADC87	
										TP4189				TP4189	

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Sipex-HSD (Cont'd)				HS9716	AD	AD346 (3235) AD386 (3235) AD389 (3235)		SP2515	Elantec Harris Signetics AD	EHA2515 HA2515 NE531 AD509		SP2620	Harris	HA2622 HA2625	(Cont'd)
HS5251	MicroNet	MN5251 (3547)			Analogic	SHA2410		SP2520	Burr-Brown Elantec	3507 EHA2520 EL2020		SP2622	Elantec	EHA2622	
HS5252	MicroNet	MN5252 (3547)			Sipex-HSD	HS9714	(3345)					SP2625	Datel	EHA2625	
HS5253	MicroNet	MN5253 (3547)		HS9720	Adv Analog	SH376						SP5330	Harris	SHM30	
HS574	Adv Analog	ADC574 ADC574A AD574 574			AD	HTC0300A (3235)		SP2522	TeledyneS Datel	TP1322 AM452-2M		SP562	AD	AD562	
	Burr-Brown	ADC574A			Analogic	SHA2200			Elantec	EHA2522			Datel	DAC562	
	Datel	ADC574Z			Burr-Brown	SHC804 (3345)		SP2525	Sipex-HSD	HA2522		SP565	Harris	HI562A	
	Harris	HI574			Datel	SHM45 SHM45M SHM4860			Exar	XR2525A		SP674A	AD	AD565	
	Honeywell	HADC574				THA05203 THA05210			LinearTech	LT2525A			Burr-Brown	ADC674A	
	Maxim	MAX574			ILC-DDC				Motorola	SG2525A			Datel	ADC674	
	MCE	MCE574			MicroNet	MN0300A (3548) MN376 (3548)			SGS-Thomson	SG2525A SG2525A TSC25C25A	(3642)		Harris	HAD674Z	
	MicroNet	MN574A (3547)				TP4860			SiliconG	SG2525A		SP9610	Hitachi	HA17824	
	MicroPwr	MP574			TeledyneS	4860			TeledyneS	TL2525			Honeywell	HAD674	
		MP574A				AD5214			Unitrode	UC2525A			AD	AD9610	
HS574A	Sipex-HSD	HS574A		MN5214	AD	MN5214 (3547)		SP2539	AD	OP64					
	TeledyneS	TP574A			MicroNet	TP5214			Harris	HA2539					
	Adv Analog	ADC574			TeledyneS	MV808 (3360)				HA5190					
	AD	AD574		MUX201	Datel	AD7503		SP2540	TeledyneS	TP1342	(3240)				
		574			Maxim	MP7503			AD	EHA5190					
	Burr-Brown	ADC574A			MicroPwr	PIC7503			Elantec	EL2020					
	Datel	ADC574Z			Unitrode	AD2702				EL2040					
	Harris	HI574		R675-3	Sipex-HSD	HS2702				EL2190					
	Honeywell	HADC574			Thaler	VRE102				HA2540					
	Maxim	MAX574			AD	AD2700			Harris	HA5190					
	MCE	MCE574		R675-4	AD	REF01 (3238)				TP1341					
	MicroNet	MN574A (3547)			Maxim	AD2700		SP2541	TeledyneS	EL2020					
	MicroPwr	MP574			Sipex-HSD	HS2700			Elantec	EL2041					
		MP574A			Thaler	VRE100				HA2541					
HS7541	Sipex-HSD	HS574			AD	AD2701			Harris	TDA2541					
	TeledyneS	TP574A			Maxim	AD2701			Plessey	SGS-Thomson					
	AD	AD7521			Sipex-HSD	HS2701		SP2542	AD	TDA2541	(3240, 3243)				
		AD7531			Thaler	VRE101				AD844 (3240, 3243)					
		AD7541			AD	ADDAC87				OP160					
		PM7541			Burr-Brown	DAC851				HFA0005					
	Burr-Brown	DAC7541		SPDAC87		DAC87				OP620	(3332)				
	MicroPwr	MP7541				HIDAC87V				3554AM (3332)					
	National	DAC1220			Harris	MNDAC87				3554BM (3332)					
		DAC1221			MicroNet	DAC335				3554SM (3332)					
HS7545	AD	AD7545			Sipex-HSD	HSDAC87				CLC400	(3332)				
		PM7545				AD3542				CLC400AID					
	Burr-Brown	DAC7545 (3341)		SP111	AD	OPA111				CLC401					
	Harris	AD7545			Burr-Brown	3542				EHA5195					
	Maxim	AD7545				AD547	(3222)			ELA5195					
	MicroPwr	MP7545				OP41				EL2020					
	Signal Proc	HDAC7545				OP43				EL2030					
HS9393	TeledyneS	TP4065		SP1148	AD	AD1148 (3222)				EL2195					
HS9403	Datel	HDA58		SP121	AD	AD547				HA5004					
	MicroNet	MN7150 (3546)				OP41				HA5195					
	Sanyo	LC7150			Burr-Brown	OPA121				HFA0001					
HS9410	MicroNet	MN7145			Harris	CA3140				MAX452					
	National	COP410				CA3160				LM6161					
	SGS-Thomson	ET9410			Motorola	MC34001				TP1321					
HS9411	MicroNet	MN7146				MC34071				VA707					
HS9412	MicroNet	MN7147				LH0052				VA708					
HS9474	MicroNet	MN6227		SP230	Maxim	MAX230				EHA2600					
		MN6228		SP232	Dallas	DS1228				HA2600					
						DS232				MC1556					
HS9516	AD	AD1376 (3229) AD1380 (3226, 3229)			Harris	ICL232				ML1556					
					LinearTech	LT108				SE556					
						LT1081				MC1556					
						MAX232				SE556M					
						TSC232				AM460-2M					
	Analogic	ADC4300				MAX233				EHA2602					
	Burr-Brown	ADC71		SP233	TeledyneS	TSC233				HA2602					
		ADC76			Maxim	MAX234				HA2605					
		AD76			TeledyneS	MAX235				MC1456					
	MicroNet	MN5296 (3547)			Maxim	MAX236				MC1456					
		MN6290			Maxim	MAX237				ULN2172					
	Sipex-HSD	HS9576			Maxim	MAX238				ULN2174					
HS9576	AD	AD1376 (3229) AD1380 (3226, 3229)			Maxim	MAX239				AD507					
						ELANTEC				3508					
						HA2400				AM462-2					
						HA2500				EHA2620					
						HA2500				EHA2625					
						AM450-2M				HA2622					
						EHA2502				CA3100					
						HA2502				HA2620					
						AD540									
						AM450-2									
						EHA2505									
						HA2505									
						OP42									
						EHA2510									
						HA2510									
						EHA2512									
						HA2512									

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• μA2556	National	LF256
• CM4000	Motorola	LM256
• CM4000	National	MC14000
• CM4000	SGS-Thomson	MC14000B
• CM4000	SGS-Thomson	CD4000
• CM4000	SGS-Thomson	CD4000B
• CM4000	SGS-Thomson	HCC4000
• CM4000	SGS-Thomson	HCC4000B
• CM4000	SGS-Thomson	HCF4000
• CM4000	SGS-Thomson	HCF4000B
• CM4000	SGS-Thomson	HEF400
• CM4001	SGS-Thomson	TC4000B
• CM4001	SGS-Thomson	CD4001UB
• CM4001	SGS-Thomson	MC14001UB
• CM4001	SGS-Thomson	CD4001UB
• CM4001	SGS-Thomson	F4001
• CM4001	SGS-Thomson	MM74C02
• CM4001	SGS-Thomson	MSM4001
• CM4002	SGS-Thomson	TC4001UB
• CM4002	SGS-Thomson	CD4002B
• CM4002	SGS-Thomson	MC14002
• CM4002	SGS-Thomson	CD4002
• CM4002	SGS-Thomson	F4002
• CM4002	SGS-Thomson	HCC4002
• CM4002	SGS-Thomson	HCF4002
• CM4002	SGS-Thomson	HEF4002
• CM4002	SGS-Thomson	TC4002B
• CM4002	SGS-Thomson	CD4006B
• CM4002	SGS-Thomson	MC14006
• CM4002	SGS-Thomson	CD4006
• CM4002	SGS-Thomson	F4006
• CM4002	SGS-Thomson	F4006B
• CM4002	SGS-Thomson	HCC4006
• CM4002	SGS-Thomson	HCF4006
• CM4002	SGS-Thomson	HEF4006
• CM4002	SGS-Thomson	TC4006B
• CM4002	SGS-Thomson	CD4007B
• CM4002	SGS-Thomson	MC14007
• CM4002	SGS-Thomson	CD4007
• CM4002	SGS-Thomson	F4007
• CM4002	SGS-Thomson	HCC4007
• CM4002	SGS-Thomson	HCF4007
• CM4002	SGS-Thomson	HEF4007
• CM4002	SGS-Thomson	TC4007UB
• CM4002	SGS-Thomson	CD4008B
• CM4002	SGS-Thomson	MC14008
• CM4002	SGS-Thomson	CD4008
• CM4002	SGS-Thomson	F4008
• CM4002	SGS-Thomson	MM74C83
• CM4002	SGS-Thomson	HCC4008
• CM4002	SGS-Thomson	HCF4008
• CM4002	SGS-Thomson	HEF4008
• CM4002	SGS-Thomson	TC4008B
• CM4002	SGS-Thomson	CD4009UB
• CM4002	SGS-Thomson	MC14009
• CM4002	SGS-Thomson	CD4009
• CM4002	SGS-Thomson	HCC4009
• CM4002	SGS-Thomson	HCF4009
• CM4002	SGS-Thomson	HEF4009
• CM4002	SGS-Thomson	TC4009UB
• CM4002	SGS-Thomson	CD4010B
• CM4002	SGS-Thomson	MC14010
• CM4002	SGS-Thomson	CD4010

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Soliton Devices (Cont'd)				♦ CM4019	Signetics	HEF4019		♦ CM4030	Harris	CD4030B		♦ CM4046	Harris	CD4046B	
				♦ CM4020	Toshiba	TC4019B		♦ CM4030	National	CD4030		♦ CM4046	Motorola	MC14046	
				♦ CM4020	Harris	CD4020B		♦ CM4030	SGS-Thomson	F4030		♦ CM4046	National	CD4046	
				♦ CM4020	Motorola	MC14020		♦ CM4030	SGS-Thomson	HCC4030		♦ CM4046	SGS-Thomson	HCC4046	
				♦ CM4020	National	CD4020		♦ CM4030	Signetics	HEF4030		♦ CM4047	Harris	CD4047B	
				♦ CM4020	SGS-Thomson	F4020		♦ CM4032	Toshiba	TC4030B		♦ CM4047	National	CD4047	
				♦ CM4020	Signetics	HCC4020		♦ CM4032	Harris	CD4032B		♦ CM4047	SGS-Thomson	F4047	
				♦ CM4022	Toshiba	TC4020B		♦ CM4032	SGS-Thomson	MC14032		♦ CM4047	SGS-Thomson	HCC4047	
				♦ CM4022	Harris	CD4022B		♦ CM4032	Toshiba	HCF4032		♦ CM4047	Signetics	HEF4047	
				♦ CM4022	Motorola	MC14022		♦ CM4033	Harris	TC4032B		♦ CM4047	Toshiba	TC4047B	
				♦ CM4022	National	CD4022		♦ CM4033	SGS-Thomson	CD4033B		♦ CM4048	National	CD4048	
				♦ CM4022	SGS-Thomson	F4022		♦ CM4033	SGS-Thomson	HCC4033		♦ CM4048	SGS-Thomson	HCC4048	
				♦ CM4022	Signetics	HCC4022		♦ CM4034	Harris	HCF4033		♦ CM4049	Harris	HCF4048	
				♦ CM4022	Toshiba	HEF4022		♦ CM4034	Motorola	CD4034B		♦ CM4049	Motorola	CD4049UB	
				♦ CM4023	Harris	TC4022B		♦ CM4034	National	MC14034		♦ CM4049	National	MC14049	
				♦ CM4023	Motorola	CD4023B		♦ CM4034	SGS-Thomson	F4034		♦ CM4049	OKI	MSM4049	
				♦ CM4023	National	MC14023		♦ CM4034	SGS-Thomson	HCC4034		♦ CM4049	SGS-Thomson	HCC4049	
				♦ CM4023	SGS-Thomson	CD4023		♦ CM4035	Toshiba	HCF4034		♦ CM4049	Signetics	HCF4049	
				♦ CM4023	SGS-Thomson	MM74C10		♦ CM4035	Harris	TC4034B		♦ CM4049	Toshiba	TC4049B	
				♦ CM4023	Signetics	HCC4023		♦ CM4035	Motorola	CD4035B		♦ CM4050	Harris	CD4050B	
				♦ CM4023	Toshiba	HCF4023		♦ CM4035	National	MC14035		♦ CM4050	Motorola	MC14050	
				♦ CM4024	Harris	HEF4023		♦ CM4035	SGS-Thomson	CD4035B		♦ CM4050	National	CD4050	
				♦ CM4024	Motorola	TC4023B		♦ CM4035	SGS-Thomson	F4035		♦ CM4050	SGS-Thomson	HCC4050	
				♦ CM4024	Motorola	CD4024B		♦ CM4036	Toshiba	HCF4035		♦ CM4050	Signetics	HCF4050	
				♦ CM4024	National	MC14024		♦ CM4036	SGS-Thomson	HEF4035		♦ CM4050	Toshiba	TC4050B	
				♦ CM4024	SGS-Thomson	MC4024		♦ CM4038	Harris	TC4035B		♦ CM4051	Motorola	CD4051B	
				♦ CM4024	SGS-Thomson	CD4024		♦ CM4038	Motorola	TC4036B		♦ CM4051	National	MC14051	
				♦ CM4024	Signetics	F4024		♦ CM4038	SGS-Thomson	CD4038B		♦ CM4051	SGS-Thomson	CD4051	
				♦ CM4024	Signetics	HCC4024		♦ CM4038	SGS-Thomson	MC14038		♦ CM4051	SGS-Thomson	HCC4051	
				♦ CM4024	Toshiba	HCF4024		♦ CM4038	SGS-Thomson	HCC4038		♦ CM4051	Signetics	HCF4051	
				♦ CM4025	Harris	HEF4024		♦ CM4038	Toshiba	HCF4038		♦ CM4051	Toshiba	TC4051B	
				♦ CM4025	Motorola	TC4024B		♦ CM4039	Toshiba	TC4038B		♦ CM4051	Motorola	MC14051	
				♦ CM4025	National	CD4025B		♦ CM4040	Harris	TC4039B		♦ CM4051	National	CD4051	
				♦ CM4025	SGS-Thomson	MC14025		♦ CM4040	Motorola	CD4040B		♦ CM4051	SGS-Thomson	HCC4051	
				♦ CM4025	SGS-Thomson	CD4025		♦ CM4040	National	MC14040		♦ CM4051	Signetics	HCF4051	
				♦ CM4025	SGS-Thomson	F4025		♦ CM4040	SGS-Thomson	CD4040		♦ CM4051	Toshiba	TC4051B	
				♦ CM4025	Signetics	HCC4025		♦ CM4040	SGS-Thomson	F4040		♦ CM4052	Harris	CD4052B	
				♦ CM4025	Toshiba	HCF4025		♦ CM4040	Signetics	HCC4040		♦ CM4052	National	CD4052	
				♦ CM4026	SGS-Thomson	HEF4025		♦ CM4040	Toshiba	HCF4040		♦ CM4052	SGS-Thomson	F4052	
				♦ CM4026	SGS-Thomson	TC4025B		♦ CM4040	Signetics	HEF4040		♦ CM4052	SGS-Thomson	HCC4052	
				♦ CM4027	Harris	HCC/HCF4026		♦ CM4041	Toshiba	TC4040B		♦ CM4052	Signetics	HCF4052	
				♦ CM4027	Motorola	CD4027B		♦ CM4041	Harris	CD4041UB		♦ CM4053	Harris	CD4053B	
				♦ CM4027	Motorola	MC14027		♦ CM4041	National	CD4041		♦ CM4053	Motorola	MC14053	
				♦ CM4027	National	MC14027B		♦ CM4041	SGS-Thomson	F4041		♦ CM4053	National	CD4053	
				♦ CM4027	National	CD4027		♦ CM4041	SGS-Thomson	HCC4041		♦ CM4053	SGS-Thomson	HCC4053	
				♦ CM4027	National	CD4027B		♦ CM4041	Signetics	HCF4041		♦ CM4053	Signetics	HCF4053	
				♦ CM4027	OKI	F4027		♦ CM4042	Harris	HEF4041		♦ CM4053	Toshiba	TC4053B	
				♦ CM4027	SGS-Thomson	MM74C76		♦ CM4042	Motorola	CD4042B		♦ CM4053	Harris	CD4016B	
				♦ CM4027	SGS-Thomson	MSM4027		♦ CM4042	National	MC14042		♦ CM4053	Motorola	MC14016	
				♦ CM4027	SGS-Thomson	HCC4027		♦ CM4042	SGS-Thomson	CD4042		♦ CM4053	National	CD4016	
				♦ CM4027	Signetics	HCC4027B		♦ CM4042	SGS-Thomson	F4042		♦ CM4053	SGS-Thomson	F4066	
				♦ CM4027	Signetics	HCF4027		♦ CM4042	SGS-Thomson	HCC4042		♦ CM4053	Signetics	HCF4066	
				♦ CM4027	Toshiba	HEF4027		♦ CM4042	Signetics	HCF4042		♦ CM4053	Toshiba	TC4053B	
				♦ CM4028	Harris	TC4027B		♦ CM4042	Signetics	HEF4042		♦ CM4053	Harris	CD4016B	
				♦ CM4028	Motorola	CD4028B		♦ CM4042	Toshiba	TC4042B		♦ CM4053	Motorola	MC14016	
				♦ CM4028	National	MC14028		♦ CM4043	Harris	CD4043B		♦ CM4053	National	MC14066	
				♦ CM4028	National	CD4028		♦ CM4043	Motorola	MC14043		♦ CM4053	National	CD4016	
				♦ CM4028	OKI	F4028		♦ CM4043	National	CD4043		♦ CM4053	SGS-Thomson	CD4066	
				♦ CM4028	SGS-Thomson	MM74C42		♦ CM4043	SGS-Thomson	F4043		♦ CM4053	SGS-Thomson	F4066	
				♦ CM4028	SGS-Thomson	MSM4028		♦ CM4043	Signetics	HCC4043		♦ CM4053	SGS-Thomson	HCC4016	
				♦ CM4028	Signetics	HCC4028		♦ CM4043	Toshiba	HCF4043		♦ CM4053	Signetics	HCF4066	
				♦ CM4028	Signetics	HCF4028		♦ CM4044	Harris	TC4043B		♦ CM4053	Signetics	HCF4016	
				♦ CM4029	Toshiba	HEF4028		♦ CM4044	Motorola	CD4044B		♦ CM4053	Signetics	HCF4066	
				♦ CM4029	National	TC4028B		♦ CM4044	National	MC14044		♦ CM4053	Signetics	HEF4016	
				♦ CM4029	Motorola	CD4029B		♦ CM4044	SGS-Thomson	MC4044		♦ CM4053	Signetics	HEF4066	
				♦ CM4029	Motorola	MC14029		♦ CM4044	SGS-Thomson	CD4044		♦ CM4053	Signetics	TC4016B	
				♦ CM4029	National	CD40192		♦ CM4044	SGS-Thomson	F4044		♦ CM4053	Signetics	TC4066B	
				♦ CM4029	National	CD4029		♦ CM4044	Signetics	HCC4044		♦ CM4053	Unitrode	PIC7516	
				♦ CM4029	Signetics	F40192		♦ CM4044	Signetics	HCF4044		♦ CM4053	Harris	CD4068B	
				♦ CM4029	Signetics	F4029		♦ CM4044	Toshiba	HEF4044		♦ CM4053	Motorola	MC14068	
				♦ CM4029	SGS-Thomson	HCC40192		♦ CM4045	Harris	CD4044B		♦ CM4053	National	CD4068	
				♦ CM4029	SGS-Thomson	HCC4029		♦ CM4045	Motorola	MC14521		♦ CM4053	SGS-Thomson	HCC4068	
				♦ CM4029	SGS-Thomson	HCF40192		♦ CM4045	National	F4521		♦ CM4053	Signetics	HCF4068	
				♦ CM4029	Signetics	HCF4029		♦ CM4045	SGS-Thomson	HCC4045		♦ CM4053	Signetics	HEF4068	
				♦ CM4029	Signetics	HEF40192		♦ CM4045	SGS-Thomson	HCF4045		♦ CM4053	Toshiba	TC4068B	
				♦ CM4029	Toshiba	TC40192B		♦ CM4045	Signetics	HEF4521		♦ CM4053	Harris	CD4069UB	
				♦ CM4029	Toshiba	TC4029B		♦ CM4045	Signetics	TC4521B		♦ CM4053	Motorola	MC14069	
								♦ CM4045	Signetics	HEF4521		♦ CM4053	National	CD4069	
								♦ CM4045	Signetics	TC4521B		♦ CM4053	National	F4069	

♦ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALT SOURCE DIRECTORY

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page						
Sony Corporation of America (Cont'd)				CKX581001P		Peps Samsung Sony Toshiba UMC Cypress GoldStar LogicDev MicronTech Vitellic VLSI Tech AD Cypress EDI Harris Hitachi IDT Intel LogicDev Maxim MicronTech Motorola Performance Saratoga Toshiba UMC Vitellic VLSI Tech Allegro Micro Hitachi Mitsubishi National OKI S-MOS SGS-Thomson Sharp Signetics UMC Vitellic Cypress Dense-Pac EDI Fujitsu Hitachi IDT Lattice Motorola NEC SGS-Thomson Toshiba VLSI Tech Catalyst Semi Cypress Dense-Pac GoldStar Hitachi Hyundai Inova IDT LogicDev Mitsubishi Mosaic Mosel		\$128KX8 KM681000L CKX581000P TC551001PL UM621024 CY7C128A GM76C28 L6116 MT5C1608 V61C16 VT20C18 ADG506A CY6116 EDI8802 DG506A HM6516 HM65162 HM6716 HM6719 IDT6116 IDT6116A IDT6116L IDT6116S 81C28 L76116 DG506A MT51C1608 MCM2018A MCM6116 P4C116 SSM6116 TC2018 UM6116-35 V16C16 VT20C19 UDN6116 HM6116 M5M5517 MMC2116 MSM2128 MSM5126 MSM5128 MSM5129 SMC6116 SRM2016C ET2128 MK2817 MK6116 LH5115 LH5116 NE5517 UM6116 V61C16 CY7C198 CY7C199 DPS92256 DPS92256L EDI8833C MB8298 HM62832 IDT71256 SR256K8 MCM6206 μ PD43256A IMS1830 MK48Z30 TC55328 VT62832 CAT71C256 CAT71C256L CY7C197 DPS92256 DPS92256L GM76C256 HM61256 HM62256 HM64456 HY62C256 HY63C256 HY63C256L S32K8 IDT7M856S IDT71024 IDT8M824 IDT8M824L L7C199 M5M51008P MT5C2568 M5M5256	(Cont'd) (3573)	CKX58256		Mosel Motorola National NEC OKI Performance S-MOS Samsung Sharp Toshiba UMC Dense-Pac Exar Fujitsu GoldStar Harris Hitachi Hyundai IDT Krueger MicroLinear Mitsubishi Motorola National OKI S-MOS Samsung Sharp Sony Toshiba UMC Vitellic VLSI Tech Dense-Pac Exar Fujitsu GoldStar Harris Hitachi Hyundai IDT Krueger MicroLinear Mitsubishi		MS62256 MCM60256A NM44251 μ PD43256B MSM51257JS MSM51257LRS MSM51257RJ MSM51257RS P4C1256 SRM20256 SRM20256C SRM2257 KM62256 KM68257 LH52256 LH52259 TC55257 TC55257A UM62256A DPS88H08 XR8464 MB88464 MB81C78A MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264 6264-100 6264-120 6264-150 6264LP-100 6264LP-120 6264LP-150 ML8464 AM99C88 M5M5178 MCM6064 MCM61L64 MCM6164C DP8464 MSM5164 MSM5165 MSM5188 SRM2064 SRM2264 KM6264 KM6264A LH5164 LH5165 CXK5164P CXK5864 CXK5865P TC5563 TC5588 UM6264A V61C62 V62C64 V63C64 VT20C99 DPS88H08 XR8464 MB88464 MB81C78A MB8464A GM76C88L CDM6264 HM6264 MB6264 HY6264 DPS9264 6264-100 6264-120 6264-150 6264LP-100 6264LP-120 6264LP-150 ML8464 AM99C88 M5M5178	(Cont'd) (3573)	CKX5864		Motorola National OKI S-MOS Samsung Sharp Sony Toshiba UMC Vitellic VLSI Tech Dense-Pac Exar Fujitsu GoldStar Harris Hitachi Hyundai IDT Krueger MicroLinear Mitsubishi Motorola National OKI S-MOS Samsung Sharp Sony Toshiba UMC Vitellic VLSI Tech Dense-Pac Exar Fujitsu GoldStar Harris Hitachi Hyundai IDT Krueger MicroLinear Mitsubishi		MCM6064 MCM61L64 MCM6164C DP8464 MSM5164 MSM5165 MSM5188 SRM2064 SRM2264 KM6264 KM6264A LH5164 LH5165 CXK5164P CXK5863P CXK5864 CXK5865P TC5563 TC5588 UM6264A V61C62 V62C64 V63C64 VT20C99 DPS88H08 XR8464 MB88464 MB81C78A MB8464A GM76C88L CDM6264 HM6264 MB6264 HY6264 DPS9264 6264-100 6264-120 6264-150 6264LP-100 6264LP-120 6264LP-150 ML8464 AM99C88 M5M5178	(Cont'd) (3682)
(Continued)				(Continued)				(Continued)				(Continued)									

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Sony Corporation of America (Cont'd)				FDC72C65	NEC	μPD72065 μPD765A μPD765B FDC765A		STC2167	Saratoga SGS-Thomson	SSM6167 IMS1403 MK41H66 MK41H67		STC6264	Krueger	(Cont'd) 6264-120 (3513) 6264-150 (3513) 6264LP-100 (3513) 6264LP-120 (3513) 6264LP-150 (3513)	
CKX5865P	Krueger	6264LP-120 (3513) 6264LP-150 (3513)		FDC7265 FDC765A	NEC	μPD7265 μPD72065 μPD765A μPD765B FDC72C65 Zilog Z765A		STC2167 STC2168	Sharp LogicDev Motorola National	LH5167 L7C164 MCM1423 F1620 F1621 SRM2274 V61C62		STC6264	MicroLinear Mitsubishi	ML8464 AM99C88 M5M5178 MCM6064 MCM61L64 MCM6164C	
	MicroLinear	ML8464		FDC92C36	SMC	FDC9216 WD9216		STC2168	S-MOS	SRM2274 V61C62		STC6264	Motorola	ML8464 AM99C88 M5M5178 MCM6064 MCM61L64 MCM6164C	
	Mitsubishi	AM99C88		FDC9216	SMC	FDC92C36 WD92C32 WD9216		STC4027	Vitellic National	M4027 TC40138		STC6264	National	DP8464 MSM5164 MSM5165 MSM5188	
	Motorola	MCM6064 MCM61L64 MCM6164C		FDC9216	Western	WD92C32 WD9216		STC4116	Toshiba Krueger	4116-120 (3513) 4116-150 (3513) 4116-200 (3513)		STC6264	OKI	MSM5164 MSM5165 MSM5188	
	National	DP8464		FDC9229	SMC	FDC9216 WD9216		STC4116	National	F16K F4116		STC6264	S-MOS	SRM2064 SRM2264	
	OKI	MSM5164 MSM5165 MSM5188		FDC9793	VLSI Tech	V86		STC4116	OKI	MSM3716		STC6264	Samsung	KM6264 KM6264A	
	S-MOS	SRM2064 SRM2264		FDC9797	SMC	FDC1793 FDC1797		STC5089	Siemens Signetics	HYB4116 2690		STC6264	Sharp	KM6264 LH5164 LH5165	
	Samsung	KM6264 KM6264A		HDC7261	NEC	μPD7261A			AMD	AM27S181 CY7C282M		STC6264	Sony	CKX5164P CKX5863P CKX5864 CKX5865 TC5563 TC5565A (3682)	
	Sharp	LH5164 LH5165		HDC7262	NEC	μPD7262			Cypress	S25089		STC6264	Toshiba	TC5563 TC5565A (3682)	
	Sony	CKX5164P CKX5863P CKX5864 CKX5865		HDC9224	Fujitsu	MBM100490			Gould AMI	HN25089		STC6264	UMC	UM6264A V61C62 V62C64 V63C64	
	Toshiba	TC5563 TC5565A (3682)		MPU810	National	NSC810			Hitachi	HL7681		STC6264	Vitellic	VT20C99 VT20C99A	
	UMC	UM6264A V61C62 V62C64 V63C64		90C26	NCR	NCR90C26			Lansdale	DM77LS181 DM77S181 DM77S281 DM87S181 DM87S281		STC6264	VLSI Tech	MT56C0816 P4C163 TC55188 (3682)	
	Vitellic	VT20C99 VT20C99A		90C32	NCR	NCR90C32			National	DM77LS181 DM77S181 DM87S181 DM87S281		STC6264	Exar	XT5620 XRT5681 XRT5600	
CKX5971P	VLSI Tech	VT20C99 VT20C99A							Raytheon	29631 29631AM		STC6264	Harris	CD22301 MA5413 MA5453	
	Fujitsu	MB81C79A M5M5179P							Signetics	N82S181 S82S181 28586-60		STC6264	Marconi	MA5413 MA5453	
	Mitsubishi	ACT2140							TI	UDN6116 UDN6116		STC6264	UMC	UM6264A V61C62 V62C64 V63C64	
	TI	ACT2140							Allegro	UDN6116 UDN6116		STC6264	VLSI Tech	VT20C99 VT20C99A	
	Toshiba	TC55188T TC5589							Micro	UDN6116 UDN6116		STC6264	Exar	XT5620 XRT5681 XRT5600	
	Vitellic	V63C330 CY7C144 CY7C183							Hitachi	HM6116 HM6116		STC6264	Harris	CD22301 MA5413 MA5453	
	Cypress	MT56C0816 P4C163 TC55188 (3682)							Mitsubishi	M5M5517 MMC2116 MSM2128 MSM5126 MSM5128 MSM5129		STC6264	Marconi	MA5413 MA5453	
	MicronTech	MT56C0816 P4C163 TC55188 (3682)							National	MSM2128 MSM5126 MSM5128 MSM5129		STC6264	UMC	UM6264A V61C62 V62C64 V63C64	
	Performance	P4C163 TC55188 (3682)							OKI	MSM2128 MSM5126 MSM5128 MSM5129		STC6264	Vitellic	VT20C99 VT20C99A	
	Toshiba	TC55188 (3682)							S-MOS	SMC6116 SRM2016C		STC6264	Exar	XT5620 XRT5681 XRT5600	
	UMC	UM61168 V63C328							SGS-Thomson	ET2128 MK2817 MK6116 LH5115 LH5116		STC6264	Universal	USC5008 CD74HCT139 IDT74HCT139 74HCT139 MM74HCT139 MV74HCT139 74HCT139	
	VLSI Tech	VT62A168 GL3274							Sharp	NE5517 CXK5816 UM6116 V61C16 AM2167		STC6264	Harris	CD74HCT139 IDT74HCT139 74HCT139 MM74HCT139 MV74HCT139 74HCT139	
	Sony	GL3274 ADC303 SP97508							Signetics	NE5517 CXK5816 UM6116 V61C16 AM2167		STC6264	Marconi	MA5413 MA5453	
	Datel	ADC303 SP97508							Sony	UM6116 V61C16 AM2167		STC6264	National	MA5413 MA5453	
	Plessey	SP97508							UMC	UM6116 V61C16 AM2167		STC6264	UMC	UM6264A V61C62 V62C64 V63C64	
	Signal Proc	HADCT7100							Vitellic	V61C16 AM2167		STC6264	VLSI Tech	VT20C99 VT20C99A	
	Sony	CK20106A μPD70108 μPD70116							AMD	CY7C167A HM65262 HM6267 IDT6167 51C66 51C67 L7C167		STC6264	Exar	XT5620 XRT5681 XRT5600	
	NEC	μPD70108 μPD70116							Cypress	CY7C167A HM65262 HM6267 IDT6167 51C66 51C67 L7C167		STC6264	Harris	CD74HCT139 IDT74HCT139 74HCT139 MM74HCT139 MV74HCT139 74HCT139	
	NEC	μPD70108 μPD70116							Hitachi	HM65262 HM6267 IDT6167 51C66 51C67 L7C167		STC6264	Marconi	MA5413 MA5453	
	NEC	μPD70108 μPD70116							IDT	IDT6167 51C66 51C67 L7C167		STC6264	UMC	UM6264A V61C62 V62C64 V63C64	
	NEC	μPD70108 μPD70116							Intel	51C66 51C67 L7C167		STC6264	VLSI Tech	VT20C99 VT20C99A	
	NEC	μPD70108 μPD70116							LogicDev	L7C167 MT5C1601 M5M21C67		STC6264	Exar	XT5620 XRT5681 XRT5600	
	NEC	μPD70108 μPD70116							MicronTech	MT5C1601 M5M21C67		STC6264	Harris	CD74HCT139 IDT74HCT139 74HCT139 MM74HCT139 MV74HCT139 74HCT139	
	NEC	μPD70108 μPD70116							Mitsubishi	M5M21C67 MCM2167		STC6264	Marconi	MA5413 MA5453	
	NEC	μPD70108 μPD70116							Motorola	MCM2167 μPD4311 SRM2267 SRM2367		STC6264	UMC	UM6264A V61C62 V62C64 V63C64	
	NEC	μPD70108 μPD70116							NEC	μPD4311 SRM2267 SRM2367		STC6264	VLSI Tech	VT20C99 VT20C99A	
	NEC	μPD70108 μPD70116							S-MOS	SRM2267 SRM2367		STC6264	Exar	XT5620 XRT5681 XRT5600	
	NEC	μPD70108 μPD70116							SGS-Thomson	SSM6167 IMS1403 MK41H66 MK41H67		STC6264	Harris	CD74HCT139 IDT74HCT139 74HCT139 MM74HCT139 MV74HCT139 74HCT139	
	NEC	μPD70108 μPD70116							Sharp	LH5167 DPS88H08 XR8464 MB8B464 MB8B1C78A MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264		STC6264	Marconi	MA5413 MA5453	
	NEC	μPD70108 μPD70116							Dense-Pac	DPS88H08 XR8464 MB8B464 MB8B1C78A MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264		STC6264	UMC	UM6264A V61C62 V62C64 V63C64	
	NEC	μPD70108 μPD70116							Exar	XR8464 MB8B464 MB8B1C78A MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264		STC6264	VLSI Tech	VT20C99 VT20C99A	
	NEC	μPD70108 μPD70116							Fujitsu	XR8464 MB8B464 MB8B1C78A MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264		STC6264	Exar	XT5620 XRT5681 XRT5600	
	NEC	μPD70108 μPD70116							GoldStar	XR8464 MB8B464 MB8B1C78A MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264		STC6264	Harris	CD74HCT139 IDT74HCT139 74HCT139 MM74HCT139 MV74HCT139 74HCT139	
	NEC	μPD70108 μPD70116							Harris	XR8464 MB8B464 MB8B1C78A MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264		STC6264	Marconi	MA5413 MA5453	
	NEC	μPD70108 μPD70116							Hitachi	XR8464 MB8B464 MB8B1C78A MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264		STC6264	UMC	UM6264A V61C62 V62C64 V63C64	
	NEC	μPD70108 μPD70116							Hyundai	XR8464 MB8B464 MB8B1C78A MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264		STC6264	VLSI Tech	VT20C99 VT20C99A	
	NEC	μPD70108 μPD70116							IDT	XR8464 MB8B464 MB8B1C78A MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264		STC6264	Exar	XT5620 XRT5681 XRT5600	
	NEC	μPD70108 μPD70116							Krueger	XR8464 MB8B464 MB8B1C78A MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264		STC6264	Harris	CD74HCT139 IDT74HCT139 74HCT139 MM74HCT139 MV74HCT139 74HCT139	
	NEC	μPD70108 μPD70116								6264-100 (3513)		STC6264	Marconi	MA5413 MA5453	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	UMC	UM6264A V61C62 V62C64 V63C64	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	VLSI Tech	VT20C99 VT20C99A	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	Exar	XT5620 XRT5681 XRT5600	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	Harris	CD74HCT139 IDT74HCT139 74HCT139 MM74HCT139 MV74HCT139 74HCT139	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	Marconi	MA5413 MA5453	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	UMC	UM6264A V61C62 V62C64 V63C64	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	VLSI Tech	VT20C99 VT20C99A	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	Exar	XT5620 XRT5681 XRT5600	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	Harris	CD74HCT139 IDT74HCT139 74HCT139 MM74HCT139 MV74HCT139 74HCT139	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	Marconi	MA5413 MA5453	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	UMC	UM6264A V61C62 V62C64 V63C64	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	VLSI Tech	VT20C99 VT20C99A	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	Exar	XT5620 XRT5681 XRT5600	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	Harris	CD74HCT139 IDT74HCT139 74HCT139 MM74HCT139 MV74HCT139 74HCT139	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	Marconi	MA5413 MA5453	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	UMC	UM6264A V61C62 V62C64 V63C64	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	VLSI Tech	VT20C99 VT20C99A	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	Exar	XT5620 XRT5681 XRT5600	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	Harris	CD74HCT139 IDT74HCT139 74HCT139 MM74HCT139 MV74HCT139 74HCT139	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	Marconi	MA5413 MA5453	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	UMC	UM6264A V61C62 V62C64 V63C64	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	VLSI Tech	VT20C99 VT20C99A	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	Exar	XT5620 XRT5681 XRT5600	
	NEC	μPD70108 μPD70116								(Continued)		STC6264	Harris	CD74HCT139 IDT74HCT139 7	

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Teledyne Semiconductor (Cont'd)				TP1359	MicroPwr	MP0033 MP0033C MP2004 LH0033 LH4001 LM6121 LM6321 VA033	(Cont'd) (3713)	TP4554	Harris	DG505A DG508 HI508 MAX358 MAX368 MP7508DI MC6108 LF11508 LF13508	(Cont'd)	TSC14433	Motorola	MC14433	
• TPDAC80	AD	ADDA80 DAC80			National				Maxim			TSC14433A	TeledyneS	TSC14433A	
• TPDAC80	Burr-Brown	DAC80 DAC800										TSC14433	Motorola	MC14433	
• TPDAC80	Harris	ICM7216 ICM7226			VTC				MicroPwr	MP7508DI		TSC15C25A	TeledyneS	TSC14433	
• TPDAC80	MicroNet	DAC80	(3549)	• TP1424	AD	AD506 AD542 OP41 OP43		TP4780	TeledyneS	TSC9400			Exar	XR1525A	
	National	DAC1280						TP4781	National	LM231 LM231A LM331			LinearTech	LT1525	
TP0032	Sipex-HSD	HSDAC80		• TP1424	National	LH0022 LH740A LM0052				KA331			Motorola	SG1525A	
	AD	ADLH0032							Samsung	LM331A			SiliconG	S61525A	(3642)
		HOS050 HOS060 MOS050		• TP1425	AD	AD506 AD542 OP41 OP43		TP4782	TeledyneS	TSC9401			TI	TL1525	
	Elantec	ELH0032						TP4856	TeledyneS	TSC9402			Unitrode	UC1525	
	Harris	HA2542		• TP1425	National	LH0022 LH740A LM0052			AD	AD582 AD583 SMP11			LinearTech	LT1527	
• TP1319-01	National	LH0032											Motorola	SG1527A	
	AD	AD504		• TP1425	National	AM500 PA12	(3325)						SGS-Thomson	SG1527	
TP1321	AD	OP05 AD844 AD846	(3245) (3240, 3243) (3240, 3243)	TP1430	Datel	AM500		TP4860	Adv Analog	SH376			SiliconG	S61527A	(3642)
				TP1447	Apex	PA12	(3325)		AD	HTC0300A	(3235)		TI	TL1527	
	Burr-Brown	OP160 HFA0005		TP1449	Apex	PA09	(3326)		Analogic	SHA2200			Unitrode	UC1527	
		3554AM	(3332)	TP1468	Apex	PA07	(3325)		Burr-Brown	SHC804	(3345)		TeledyneS	TSC18C46	
		3554BM	(3332)		Burr-Brown	PA12	(3325)		Datel	SHM45 SHM45M SHM4860			LinearTech	SG2847	
	Comlinear	CLC400 CLC400AID CLC401		TP1480	Apex	PA83	(3326)		ILC-DDC	THA05203 THA05210			Motorola	UC1842A	
	Elantec	EHA5195 ELA5195		TP3554	Burr-Brown	3554	(3332)		MicroNet	MN0300A	(3548)		SGS-Thomson	UC1842A	
		EL2020 EL2030		TP4065	Sipex-HSD	HS9393				MN376	(3548)			UC1842	
		EL2195		• TP4140	Datel	ADCEK8B			Sipex-HSD	HS9720			Unitrode	UC1844	
	Harris	HA5004		• TP4141	TeledyneS	TSC8700			TeledyneS	4860			Motorola	UC1845A	
		HA5195		• TP4142	Datel	ADCEK10B			Burr-Brown	SHC5320			TeledyneS	TSC28C45	
	Maxim	HFA0001			TeledyneS	TSC8702			Datel	SHM20			Unitrode	UC1845	
	National	MAX452		TP4143	Datel	TSC8750			Harris	HA5320			Dallas	TSC170	
	Sipex-HSD	LM6161		TP4144	TeledyneS	ADCEK12B			AD	AD5214			TSC232	DS1228	
	VTC	SP2542		TP4145	Datel	ADC84			MicroNet	MN5214	(3547)		Harris	IC1232	
TP1322	AD	VA707		TP4146	TeledyneS	TSC8704		• TP565A	Sipex-HSD	MN5214	(3219)		LinearTech	LT108	
	Burr-Brown	VA708		TP4189	Adv Analog	ADC87			AD	AD565A			Maxim	MAX232	
	Elantec	AD509				ADC87			Harris	HI565A			Sipex-HSD	SP232	
		3507				ADADC84			Maxim	AD565A			Maxim	MAX233	
	Sipex-HSD	EHA2520				ADADC85	(3228)		MCE	MCE565			Sipex-HSD	SP233	
• TP1326	Elantec	EL2020				ADADC85	(3228)		MicroNet	MN565A			Exar	XR2525A	
	Harris	SP2520				ADADC87			National	µA565			Harris	HA2525	
	Motorola	EHA2600				AD5240			Signetics	LM565			LinearTech	LT2525A	
		MC1556				ADC85				NE565			Motorola	SG2525A	
• TP1326	Signetics	ML1556				ADADC84			TP574A	SE565			SGS-Thomson	SG2525A	
	Sipex-HSD	SE556				ADADC85	(3228)		Adv Analog	ADC574				SG2525A	
	TI	SP2600				ADADC87			AD	ADC574A			SiliconG	S62525A	(3642)
TP1332	Harris	MC1556				AD5240				AD574			Sipex-HSD	SP2525	
TP1341	AD	HA2645				AD5240				574			TI	SG2525A	
	Elantec	AD840	(3240)			AD5240	(3346)			ADC574A			Unitrode	UC2525A	
		EHA5190				ADC85				ADC574Z			Exar	XR2527A	
		EL2020				ADC87				HI574			LinearTech	LT2527A	
		EL2040				ADCHX				HI574A			Motorola	SG2527A	
		EL2190				ADCHX12B				HADC574			SiliconG	S62527A	(3642)
	Harris	HA2540				ADCHZ				MAX574			TI	SG2527A	
		HA5190				ADCHZ12B				MCE574				LT2527	
	Sipex-HSD	SP2540				ADCHZ12BGZ				MN574A	(3547)		Unitrode	UC2527	
TP1342	AD	OP64				MNADC84				MP574A			UC2527A		
	Harris	HA2539				MNADC87				HS574			TSC28C42	Cherry Semi	CS2842A
		HA5190				MN5240	(3547)			HS574A			Gennum	LS2842	
	Sipex-HSD	SP2539				ADC581				DAC7541A			SGS-Thomson	UC2842	
TP1346	AD	OP43				ADC581B				DAC7541				S62842	(3642)
	Burr-Brown	3527				ADC85B				AD7541			SiliconG	UC2842	
	Harris	ICL8007				HSADC85				MX7541			Unitrode	UC2842	
TP1359	AD	ADLH0033				HSADC85C				HDAC7541			Cherry Semi	CS2843A	
		HOS100								SI7541A			SGS-Thomson	UC2843	
	Burr-Brown	OPA633		• TP4551	AD	AD7507				DAC331				S62843	(3642)
	Elantec	EHOS100				MUX28				LM385-1.2			SiliconG	UC2843	
		ELH0033		• TP4551	Datel	MVD807	(3360)			54AC00			Unitrode	UC2843	
		ELH2004				MXD807	(3360)			REF12			Cherry Semi	CS2844	
		ELH2005		• TP4551	Harris	DG507				LM385-2.5			Motorola	UC2844	
		EL2001				HI507				LM336-2.5			Unitrode	UC2844	
		EL2004		• TP4551	MicroPwr	MP7507				LM385-2.5			Motorola	UC2844	
		EL2005		TP4552	Burr-Brown	HI506A				REF25			TeledyneS	UC1845A	
		EL2031			Harris	HI506A				TI	LM385-2.5		Unitrode	TSC18C45	
		EL2033			Motorola	MC14553				SGS-Thomson			UC1845		
		HA5033		TP4553	National	F4553				SG103-1.8			SiliconG	S62846	(3642)
	Harris	LH0033		TP4554	AD	AD7503				IXYS	IXLD1426		Unitrode	UC2846	
	Maxim	MAX460				MUX88				Micrel	MIC1426		Ericsson	RL3525A	
						MPC8S				IXYS	IXLD1427		Exar	XR3525A	
						MUX808				Micrel	MIC1427		LinearTech	LT3525	
						MX808	(3360)			IXYS	IXLD1428			SG3525	
										Micrel	MIC1428				

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Texas Instruments (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
μA733	Adv Analog Motorola	A733 MC1733	(3643)	μA78L02	TI	μA78L02A	(3643)	μA78L18	Motorola	MC78L18	(3642)	μA7805	SiliconG	\$G7805 \$G7805A	(3642)
	National	μA733 LM733		μA78L02A	National	μA78L02A			National	LM78L18			Unitrode	UC7805	
	Signetics	μA733 LM733		μA78L05	Motorola	MC78L05		μA78L20	Samsung	MC78L18AC		μA7806	Motorola	MC7806	
	SiliconG	μA733 NE592			National	μA78L05			Toshiba	TA78L018			National	μA7806	
	TI	μA733M NE592-8			Samsung	μA78L05A		μA78M05	Motorola	TA78L024			SiliconG	\$G7806 \$G7806A	
		SE592			TI	LM340LA-5			National	TA78L20		μA7808	Motorola	MC7808	
		SE592		μA78L05A	Toshiba	MC78L05AC			SiliconG	MC78M05			National	μA7808	
		SE592			Motorola	μA78L05A		μA78M05M		μA78M05			SiliconG	SG340-8	
		SE592			National	LM78L05		μA78M06	National	LM78M05		μA7809	GoldStar	\$G7808 \$G7808A	
		SE592				LM78L05				SG14005			Hitachi	GL7809	
		SE592				LM78L05A				SG14012			Motorola	HA17809	
μA733M	Adv Analog Motorola	A733 MC1733	(3643)	μA78L06	TI	μA78L06A	(3643)	μA78M08	Toshiba	L78M06	(3642)	μA7810	Toshiba	TA78009	(3642)
	National	μA733 LM733			National	μA78L06A			Motorola	L78M06CV			National	LM7809	
	Signetics	μA733 LM733				μA78L06A			National	TA78M06			SGS-Thomson	LM7810	
	SiliconG	μA733 NE592			TI	μA78L06A				MC78M08				TA78010	
	TI	μA733M NE592-8		μA78L06A	Toshiba	TA78L012				LM78M08		μA7812	Toshiba	MC7812	
		SE592			National	μA78L06A				LM78M08			Motorola	μA7812	
		SE592				LM78L06A				L78M08			National	LM7812	
		SE592			TI	μA78L06				L78M08			SiliconG	\$G7812 \$G7812A	
		SE592				μA78L06				L78M08CV		μA7815	Motorola	MC7815	
		SE592				μA78L06				TA78M08			SiliconG	\$G7815 \$G7815A	
		SE592				μA78L06				TA78M09		μA7818	Unitorde	UC7815	
μA741	AD	AD741 OP02	(3245)	μA78L08	TI	μA78L08	(3245)	μA78M10	National	μA78M10	(3642)		Motorola	MC7818	(3642)
	MicroPwr	MP0P02				μA78L08				LM78M10			National	μA7818	
	Motorola	MC1741				μA78L08				LM78M10		μA7820	AD	AD7820	
	National	μA741M				μA78L08				LM78M12			Crystal	CS7820	
	Raytheon	RM741				μA78L08				LM342-12			Maxim	AD7820	
	Samsung	LM741				μA78L08				LM78M12			National	MAX150	
	SGS-Thomson	μA741				μA78L08				LM78M12			Samsung	μA7820	
		μA741				μA78L08				LM78M12			SiliconG	KAD0820	
		μA741				μA78L08				LM78M12			TI	SN55182	
		μA741				μA78L08				LM78M12		μA7824	Motorola	MC7824	
μA741M	AD	AD741 OP02	(3245)	μA78L09	TI	μA78L09	(3245)	μA78M12M	National	μA78M12M	(3642)		National	μA7824	(3642)
	MicroPwr	MP0P02				μA78L09				LM78M12M			SiliconG	LM7824	
	Motorola	MC1741				μA78L09				LM78M12M				\$G7824A	
	National	μA741M				μA78L09				LM78M12M		μA79M05	Motorola	LM7824	
	Raytheon	RM741				μA78L09				LM78M12M			National	LM7824	
	Samsung	LM741				μA78L09				LM78M12M			SiliconG	\$G7824A	
	SGS-Thomson	μA741				μA78L09				LM78M12M				LM7824	
		μA741				μA78L09				LM78M12M				LM7824	
		μA741				μA78L09				LM78M12M				LM7824	
		μA741				μA78L09				LM78M12M				LM7824	
μA747	AD	OP04	(3642)	μA78L10	TI	μA78L10	(3642)	μA78M15	Motorola	μA78M15	(3642)		National	LM7824	(3642)
	Harris	CA0747				μA78L10				LM78M15			SiliconG	\$G7824A	
	Hitachi	HA17747				μA78L10				LM78M15				LM7824	
	MicroPwr	MP0P04				μA78L10				LM78M15				LM7824	
	Motorola	MC1747				μA78L10				LM78M15				LM7824	
	National	μA747				μA78L10				LM78M15				LM7824	
		LM747				μA78L10				LM78M15				LM7824	
	NEC	μPC1418				μA78L10				LM78M15				LM7824	
	Raytheon	RC747				μA78L10				LM78M15				LM7824	
		RM747				μA78L10				LM78M15				LM7824	
μA747M	AD	OP04	(3642)	μA78L10A	TI	μA78L10A	(3642)	μA78M18	Motorola	μA78M18	(3642)		Motorola	LM7824	(3642)
	Harris	CA0747				μA78L10A				LM78M18				LM7824	
	Hitachi	HA17747				μA78L10A				LM78M18				LM7824	
	MicroPwr	MP0P04				μA78L10A				LM78M18				LM7824	
	Motorola	MC1747				μA78L10A				LM78M18				LM7824	
	National	μA747				μA78L10A				LM78M18				LM7824	
		LM747				μA78L10A				LM78M18				LM7824	
	NEC	μPC1418				μA78L10A				LM78M18				LM7824	
	Raytheon	RC747				μA78L10A				LM78M18				LM7824	
		RM747				μA78L10A				LM78M18				LM7824	
μA748	AD	OP06	(3642)	μA78L11	TI	μA78L11	(3642)	μA78M20	Motorola	μA78M20	(3642)		Motorola	LM7824	(3642)
		OP77				μA78L11				LM78M20				LM7824	
		PM1008				μA78L11				LM78M20				LM7824	
		CA0748				μA78L11				LM78M20				LM7824	
		MC1748				μA78L11				LM78M20				LM7824	
		LM748				μA78L11				LM78M20				LM7824	
		LM748				μA78L11				LM78M20				LM7824	
		SN72748P				μA78L11				LM78M20				LM7824	
		μA78L02A				μA78L11				LM78M20				LM7824	
						μA78L11				LM78M20				LM7824	

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
LF412	Harris	HA2102	(Cont'd)	LM139	National	µA139	(3247)	LM224	Plessey	ZN448	(3642)	LM301	National	LM301	(3642)
	MicroPwr	MPOP14		LM139	Raytheon	LM139			Samsung	LM224			NEC	LM301A	
	National	µA1458HC		LM139A	Signetics	LM139		LM237	Signetics	LM224			Samsung	µPC301	
		LF412			AD	PM139A			Motorola	LM237			SGS-Thomson	KA301	
		LM1458			Harris	CA0139A			National	LM237				LM301	
	NEC	µPC251		LM139A	Motorola	LM139A		LM237	SiliconG	SG237	(3642)		SiliconG	LM301A	
	Raytheon	RC4207				LM3302		LM239	Unitrode	SG237A	(3642)		TI	SG301	
		RC4227			National	LM139A			AD	UC237				µA301	
	Samsung	MC1458			Raytheon	LM139A			Harris	PM239		LM301A	AD	AD301	
	SGS-Thomson				SGS-Thomson				Motorola	CA0239			Harris	OP77	
		µA1458				LM139A			National	LM239				CA0301A	
		MC1458		LM148	Signetics	LM339				µA239			LinearTech	LM301	
		NE5512			AD	OP11			Samsung	LM239				LM301A	
		SA1458				OP400			SGS-Thomson	LM239			Motorola	LM301	
		SE5512				OP470				LM239			National	µA301	
		TA75458			Exar	PM148			Signetics	LM239				LM301A	
		TA75558			Harris	PM248	(3247)		AD	LM239			NEC	µPC301	
LF4126	National	LF4126			LinearTech	XR4741		LM248	SGS-Thomson	PM248	(3247)		Samsung	KA301	
LL081BC	Motorola	MC34001A			MicroPwr	HA4741				LM248			SGS-Thomson	LM301	
LM101	AD	OP77			Motorola	LT1014		LM258	Harris	CA0258				LM301A	
		OP77				MPO11			Motorola	LM258				SG301	
LM101	LinearTech	LM101				LM148			National	LM258A			SiliconG	µA301	
	Motorola	LM101				MC33174			Samsung	LM258A			TI	LM301	
	National	µA101			National	MC4741				LM258				LM305A	
	Raytheon	LM101A			Raytheon	µA148			Signetics	LM258		LM305A	National	SG305A	(3642)
LM101A	SiliconG	SG101			SGS-Thomson	LM148		LM2900	Hitachi	HA17301			SiliconG	LM306	
	LinearTech	LM101A				LM148			Motorola	LM2900		LM306	National	LM306	
	National	LM101A				RC4741			National	MC3301		LM307	AD	OP02	
LM106	National	LM106								LM2900				OP77	
LM107	AD	OP02		LM158	Adv Analog	LM158		LM2901	AD	LM3301			LinearTech	LM307	
		OP77			Harris	A158			PM139	LM3301			National	LM307	
LM107	LinearTech	LM107			Motorola	CA0158A		LM2901	IDT	IDT39C01		LM308	SiliconG	SG307	
	National	LM107			National	LM158A			Motorola	LM2901			AD	AD308	
	SiliconG	SG107	(3643)		Signetics	LM158				MC3302				OP97	
LM108	AD	AD108			TI	LT1013		LM2901	National	µA2901				PM1008	
		AD705		LM185-2.5	LinearTech	LM185-2.5				µA3302				PM1012	
		OP97		LM193	Motorola	LM193				LM2901				PM308	
		PM1008			National	LM193A				LM2901				LM308	
		PM108			Signetics	LM193				LM2901				µA308	
LM108	LinearTech	LM108		LM201	Motorola	LM201			Samsung	LM2901		LM308	Motorola	LM308	
		LT1097			National	µA201				LM3302			National	LM308	
LM108	Motorola	LM108			SGS-Thomson				SGS-Thomson	LM2901		LM311	AD	AD311	
	National	µA108				LM201				MC3302				PM211	
		µA208		LM201A	SiliconG	SG201				LM2901			Harris	CA0311	
		LM108			National	LM201A			Signetics	LM2901			LinearTech	LM311	
LM108	Raytheon	RC4097		LM204	National	LM204				MC3302			Motorola	LM311	
	SiliconSys	SS132R108			SGS-Thomson				TI	LM3302			National	µA311	
LM108A	AD	AD108A				LS204	(3642)		Toshiba	TA75339				LM311	
		PM108A		LM207	SiliconG	SG204			AD	OP400			Samsung	LM311	
		LM108A			AD	OP02		LM2902	GoldStar	GL324			SGS-Thomson	LM311	
	Harris	LM108A				OP77			Hitachi	HA17902				LM311	
	LinearTech	LM108A			National	LM207			Motorola	LM2902			Signetics	LM311	
	Motorola	LM108A			SiliconG	SG207				MC33174			SiliconG	SG311	
	National	µA108A		LM208	AD	AD108				µA324		LM317	Toshiba	TA75393	
		LM108A				AD705				µPC451			Lambda	LM317	
	Raytheon	LM108A				OP97			National	LM2902			LinearTech	LM317	
	SGS-Thomson					PM1008			SGS-Thomson	LM2902			Motorola	µA317	
		LM108A				PM108				LM324			National	LM317	
LM109	Motorola	LM109		LM208	LinearTech	LM108		LM2903	Signetics	TA75902				LM317	
	National	µA109				LT1097			Toshiba	LM2903			NEC	LM317	
		LM109		LM208	Motorola	LM108			National	µA2902			Samsung	LM317	
LM109	SiliconG	SG109	(3642)		National	µA108				LM2902				LM317L	
LM111	LinearTech	LM111				µA208				LM2903			SGS-Thomson	LM317	
	Motorola	LM111				LM108			Samsung	LM2902				SG317	(3642)
	National	µA111		LM208	Raytheon	RC4097				LM2903			SiliconG	UC317	
		LM111			SiliconSys	SS132R108				LM2903		LM318	Unitrode	AD518	
LM111	SiliconG	SG111	(3643)	LM211	AD	AD211			Signetics	LM2903			AD	EL2041	
LM117	LinearTech	LM117				PM211			Harris	CA2904			Elantec	LM318	
	Motorola	LM117				LM211			Motorola	LM2904			LinearTech	LT1023	
	National	µA117				LM211			National	LM2904				LM318	
		LM117			SGS-Thomson				Samsung	LM2904			National	LM318	
LM117	SiliconG	SG117	(3642)			LM211				LM2904			SGS-Thomson	LM318	
	TI	TL117				LM211				TA75358				NE530	
	Unitrode	UC117			Signetics	LM211				LM293			Signetics	NE538	
LM118	LinearTech	LM118		LM217	SiliconG	SG211	(3643)			LM293				SE530	
LM124	AMD	LM124			Motorola	LM217				LM293				SE531	
	Motorola	LM124			National	LM217				LM293				LM320MP12	
	National	LM124			SGS-Thomson	LM217				LM293				SG320P-12	
	Plessey	ZN518				LM217				LM293				LM320-15	
	Raytheon	LM124				SG217	(3642)			LM293				LM320T15	
	Signetics	LM124		LM217	SiliconG	SG217A	(3642)			AD301					
LM137	LinearTech	LM137				UC217		LM301	AD	OP77					
		LT137			Unitrode	VM217	(3714)		Harris	CA0301A					
LM137	Motorola	LM137		LM218	National	LM218				LM301					
	National	LM137			SGS-Thomson				LinearTech	LM301					
	SiliconG	SG137	(3642)			LM218				LM301A					
	Unitrode	UC137				OP400				LM301A					
LM139	Harris	CA0139		LM224	AD	OP400			Motorola	LM301					
	Motorola	LM139			Motorola	LM224			National	µA301					
						µA224				µA301A					
						LM224									

* Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
LM324	Hitachi	HA17324	(Cont'd)	LM358	Samsung	LM358	(Cont'd)	LT1013	Signetics	LM158	(Cont'd)	MC1558	Raytheon	RC4558	(Cont'd)
	Motorola	LM324			Sanyo	LM358A		LT1016	TI	LM158			Samsung	RM4558	
	National	LM224			SGS-Thomson	LA6358		LT1028	LinearTech	LT1016			SGS-Thomson	MC4558	
		LM324				LM358		LT1036	LinearTech	LT1036				LS4558	
	Raytheon	LM324			Signetics	NE532		LT1054	LinearTech	LT1054				MC4558	
	Samsung	LM324			TI	LM348		LT1070	Unitrode	LT1054			Signetics	MC1458	
	SGS-Thomson	LM324			Toshiba	TA75358			Cherry Semi	CS1070				MC1558	
LM324A	National	LM324A		LM385-2.5	Motorola	LM385-2.5		LT1084	LinearTech	LT1070				NE4558	
	Samsung	LM324A			National	LM336-2.5		L293	TI	LT1084				SA4558	
	SGS-Thomson	LM324A				LM385-2.5		L293D	SGS-Thomson	SN754410				SE4558	
		LM324A			Plessey	REF25				L283D			TI	MC1458	
LM3302	AD	PM139		LM3900	TeledyneS	TSC05		L298	TI	TLP298				MC4558C	
	IDT	IDT39C01			Harris	CA3401		MC1445	Unitrode	L298				RC4558	
	Motorola	LM2901			Motorola	MC3401		MC1456	Motorola	MC1445				RM4558	
		MC3302			National	LM3401			Burr-Brown	3506				TL4558	
	National	μA2901				LM3900			Datel	AM460-2				TA75458	
		μA3302			Raytheon	LM3900			Elantec	EHA2605				TA75558	
		LM2901			Motorola	LM393			Harris	HA2605		MC3303	Motorola	MC3303	
		LM3302			NEC	μPC393C			Motorola	MC1456			National	μA3303	
	Samsung	LM2901			Samsung	LM393		MC1458	Sipex-HSD	SP2605			Samsung	MC3303	
		LM3302				LM393A			AD	OP14 (3245, 3248)			SGS-Thomson	MC3303	
	SGS-Thomson	LM2901			Sanyo	LA6393				OP215				MC3303	
		MC3302				LM393			Exar	XR1458		MC3403	Signetics	MC3303	
	Signetics	LM2901			Signetics	LM393				OP270			Motorola	MC3403	
		MC3302			Toshiba	TA75393			Fujitsu	MB3607			SGS-Thomson	MC3403	
		MC3302			AD	OP06			Harris	CA1458		MC3423	Motorola	MC3423	
	Toshiba	TA75339				OP77				CA1558			SiliconG	SG3423 (3642)	
LM337	LinearTech	LM337				PM1008			Hitachi	HA17458		MC3446	Motorola	MC3446A	
		LT337				CA0748			Motorola	MC4558		MC3450	Motorola	MC3450	
	Motorola	LM337			Harris	MC1748				SE4558			National	DS3650	
	National	LM337			Motorola	MC1748			National	μA1458		MC3452	Motorola	MC3452	
	SGS-Thomson	LM337			SGS-Thomson	LM748				μA4558			National	DS3652	
		SG337	(3642)			LM748			Raytheon	LM1558		MC3453	Motorola	MC3453	
		SG337A	(3642)		TI	μA748				RC4558		MC3471	Motorola	MC3471	
	Unitrode	UC337				μA72748P			Samsung	RM4558		MC3481	Motorola	MC3481	
LM339	GoldStar	GL339		LP111	National	LP111			SGS-Thomson	MC4558		MC3486	Motorola	MC3486	
	Harris	CA0339		LP211	National	LP211				LS4558			National	DS3486	
		CA0339A		LP311	National	LP311			Signetics	MC4558		MC3487	Motorola	MC3487	
	Motorola	LM339		LP339	National	LP339				MC1458			National	DS3487	
	National	μA339		LP365	National	LP365				MC1558			TI	SN75ALS194	
		LM339		LTC1011	LinearTech	LT1011				NE4558		MC3503	Signetics	MC3503	
	NEC	μPC137		LTC1052	Harris	ICL421				SA4558		MC3523	Motorola	MC3523	
		μPC177				ICL422			TI	SE4558			SiliconG	SG3523	
	Raytheon	LM339				ICL423				MC1558		MC4558C	AD	OP14 (3245, 3248)	
	Samsung	LM339				ICL423				MC4558C				OP215	
		LM339A				LTC1052				RC4558			Exar	OP270	
	SGS-Thomson	LM339				ICL7652				RM4558				XR1458	
		LM339				AD517				TL4558				XR4558	
	Toshiba	TA75339		LT1001	LinearTech	OP77			Toshiba	TA75458			Fujitsu	MB3607	
LM340-15	Motorola	LM340-15				LT1001		MC1488	Exar	XR1488			Harris	CA1558	
	National	LM340-15				OP07			Motorola	MC1488				HA17458	
	SiliconG	SG340-15				OP07			National	μA1488			Hitachi	MC4558	
	Unitrode	UC340-15				μA714				μA212A			Motorola	SE4558	
LM340-18	National	LM340-18				OP07				μA750				μA1458	
	Samsung	KA340T18				OP07D				DS1488			National	μA4558	
	SiliconG	SG340-18	(3642)	LT1004	AD	AD589				MC1488				LM1558	
LM340-24	AD	AD7824			Harris	ICL8069			Samsung	MC1488			Raytheon	RC4558	
	GoldStar	GL7824			Lin Int Sys	LS5010			SGS-Thomson	MC1488				RM4558	
	Maxim	AD7824			LinearTech	LT1004				MC1488			Samsung	MC4558	
	Samsung	MC7824			Maxim	ICL8069				MC1488			SGS-Thomson	LS4558	
	SGS-Thomson	μA7824			MicroPwr	MP5010			Signetics	MC1488				MC4558	
		L7824			National	LM113				SG1488 (3643)				MC1458	
		TA78024				LM313		MC1489	TI	SN75188			Signetics	MC1558	
LM348	Toshiba	TA78024			Plessey	ZN404			National	MC1489				NE4558	
	AD	OP11	(3247)			ZN423			SGS-Thomson	MC1489				SA4558	
		PM248			TeledyneS	TSC04				MC1489				SE4558	
	Exar	XR4751				TSC05				SG1489 (3643)				MC1458	
	GoldStar	GL348				TSC8069		MC1556	SiliconG	EHA2600				RC4558	
	Harris	LM348				TSC9491				HA2600			TI	MC1558	
	Motorola	LM348				AD517			Motorola	MC1556				RC4558	
	National	μA348				OP08				ML1556				RM4558	
		LM348				PM1008			Signetics	SE556				TL4558	
LM350	Samsung	LM348			LinearTech	LT1008			Sipex-HSD	SP2600				TA75458	
	LinearTech	LM350			MicroPwr	MP0P08		MC1558	TI	SE556M				TA75558	
		LT350			AD	OP12			AD	OP14 (3245, 3248)				MB85230	
	Motorola	LM350				OP97				OP215		MPR68CTE64	Fujitsu	MB85230	
	National	μA350				PM1012				OP270			Hitachi	HB56A18	
		LM350				LT1012			Exar	XR1458				HB56A18B	
LM350	NEC	LM350	(3642)			MP0P12				XR4558			MicronTech	MT8C8024M	
	SiliconG	SG350				LM112				MB3607				MH1M08A	
	Unitrode	UC350				LM212			Fujitsu	CA1458				MH1M08BOJ	
	GoldStar	GL358				LM312			Harris	CA1558				MCM81000	
LM358	Hitachi	CA0358A				LT1012				HA17458				MC421000A8	
	Harris	LM358			Raytheon	OP12			Hitachi	MC4558			Motorola	MSC2313AYS8	
		HA17358			TI	A158			Motorola	SE4558			NEC	OKI	
	Motorola	LM358			Adv Analog	CA0158A				μA1458				1MX8	
		LM358			Harris	LM158			National	μA4558				KMM581000A	
	National	LM358A			Motorola	LM158A				LM1558					(Continued)

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
MPR68CTE64		(Cont'd)		OP07D	LinearTech	LT1001		RC4558	TI	MC1458		SE5534A	Signetics	NE531	
	TI	TM024GADB			Maxim	OP07				MC1558				NE5534	
		TM024GAD8			National	μ A714				MC4558C				NE5534A	
	Toshiba	THM81000			Raytheon	OP07				RM4558				SE5534	
		THM81000A			TI	LT1001				TL4558				SE5534A	
	UTMC	UT67164		OP12	AD	OP12				TA75458				NE5534A	
		UT7164				OP97		RC4559	AD	OP270		SE555	Exar	XR555	
NE5532	AD	OP270				PM1012			Raytheon	RC4559				XR555M	
		SSM2139 (3242)			LinearTech	LT1012		RM4136	AD	OP09				GLC555	
	Exar	XR5532			MicroPwr	MP0P12				PM4136				CA0555	
		XR5532A			National	LM112				XR4136M				NE555	
	MicroPwr	MP5532				LM212		RM4558	AD	OP14 (3245, 3248)				M5E555	
	Signetics	NE5532			Raytheon	LM312				OP215				M51841	
		NE5532A			TI	LT1012				OP270				M51848	
		SE5532		OP227	AD	OP227				XR1458				MC1455	
		SE5532A			LinearTech	OP227				XR4558				μ A555	
NE5532A	TI	NE5532A			MicroPwr	MP0P227				MB3607				LM555	
	AD	OP270		OP27	AD	ADOP27				CA1458				NE555	
		SSM2139 (3242)				AD510				CA1558				SGS-Thomson	
	Exar	XR5532				AD517				HA17458				NE555	
		XR5532A				OP77				MC4558				NE555	
	MicroPwr	MP5532				OPA27				SE4558				SE555	
	Signetics	NE5532			Burr-Brown	OP27				μ A1458				SE555M	
		NE5532A			Lin Int Sys	LT1007				LM1558				TA75555	
		SE5532			LinearTech	OP27				RC4558		SE555M	Exar	XR555	
	TI	NE5532				OP27				RM4558				XR555M	
NE5533	Exar	XR5533			Maxim	OP27				MC4558				GLC555	
	Signetics	NE5533			MicroPwr	MP0P27				SE4558				CA0555	
		NE5533A			Motorola	OP27				μ A4558				NE555	
NE5534	AnalogSys	MA332			Raytheon	OP27				LM1558				M5E555	
	Raytheon	RM5534		OP37		ADOP37				RC4558		SE555M	Exar	XR555	
	Signetics	NE531				OP37				MC4558				GLC555	
		NE5534			Burr-Brown	OPA37				TA75458				CA0555	
		NE5534A			Harris	HA5137				MC1558				NE555	
		SE5534				HA5147				NE4558				M51841	
		SE5534A			Lin Int Sys	OP37				SA4558				M51848	
		SE5534A			LinearTech	LT1037				SE4558				MC1455	
	TI	NE5534A				OP37				MC1458				μ A555	
		SE5534				OP37				MC1558				LM555	
		SE5534A				MP0P37				MC4558C				NE555	
NE5534A	AnalogSys	MA332			Maxim	OP37				RC4558				NE555	
	Raytheon	RM5534			MicroPwr	OP37				TL4558				SE555	
	Signetics	NE531		P51C68	Raytheon	OP37				TA75458				SE555	
		NE5534			Fujitsu	P51C68				TA75558				TA75555	
		NE5534A			Hitachi	P51C68				OP09				TA7555	
		SE5534			Intel	MB2168		RV4136	AD	RV4136				EHA2600	
		SE5534A			Commodore	MPS2332		RV4558	AD	OP14 (3245, 3248)				HA2600	
		SE5534A			Fujitsu	P51C69				OP215		SE556M	Harris	ML1556	
	TI	NE5534			Hitachi	P51C69				OP270			Motorola	ML1556	
		SE5534			Intel	UM2168				XR1458				SP2600	
		SE5534A				51C69				XR4558				MC1556	
NE555	Mitsubishi	M5E556			Microchip	RO9432				MB3607				Adv Analog	
	National	LM556			Mitsubishi	M58333				CA1458		SE592	Motorola	MC1733	
	Samsung	NE556			National	F3532				CA1558				μ A733	
	SGS-Thomson	NE556				NM52132				HA17458				LM733	
		NE556			NCR	NCR2332				MC4558				μ A733	
	Signetics	NE556			Panasonic	MN2332				SE4558				NE592	
	TI	NE556			Sharp	LH2332				μ A1458				NE592	
NE556	GoldStar	GLC556			Siemens	SAB8332				LM1558				SE592	
	NCR	NCR65C00-1				SA88332				RC4558				SG1401	
	Rockwell	R65C10 (3575)			Signetics	2332				RM4558				μ A733M	
	Adv Analog	A733				2632A				MC4558				NE592-8	
NE592	Motorola	MC1733				D51C69				SE4558				XR1524	
		NE592			TI	VT2332				LM1558				LT1524	
		μ A733			VLSI Tech	OP09				NE4558				SG1524	
		LM733			AD	G65SC51				SA4558				UC1524A	
	Signetics	μ A733			CMD Micro	RC4136				SE4558				XR1525A	
		NE592			Raytheon	OP215				MC1558				LT1525A	
		SE592				OP270				MC1558				SG1525A	
	SiliconG	SG1401 (3643)				XR1458				TA75458				SG1525A	
	TI	μ A733M			Exar	XR4558				TA75558				SG1525A	
		NE592-8				MB3607				MA332				SG1525A	
		SE592				CA1458				RM5534				SG1525A	
NE592-8	Adv Analog	A733				CA1558				NE531				SG1525A	
	Motorola	MC1733				HA17458				NE5534				SG1525A	
		NE592				MC4558				NE5534A				SG1525A	
		μ A733				SE4558				SE5534				SG1525A	
		LM733				μ A1458				SE5534A				SG1525A	
	Signetics	μ A733				μ A4558				SE5534A				SG1525A	
		NE592				LM1558				SE5534A				SG1525A	
		SE592				RC4558				SE5534A				SG1525A	
	SiliconG	SG1401 (3643)				RM4558				SE5534A				SG1525A	
	TI	μ A733				MC4558				SE5534A				SG1525A	
		μ A733M				LS4558				SE5534				SG1525A	
		NE592				MC4558				SE5534A				SG1525A	
		SE592				MC1458				NE5534				SG1525A	
OP07	AD	OP77			Signetics	MC1558				NE5534A				SG1525A	
	LinearTech	OP07				NE4558				SE5534A				SG1525A	
	National	μ A714				SA4558				RM5534				SG1525A	
OP07D	AD	AD517				SE4558								SG1525A	
		OP77												SG1525A	

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				SH54HC163	Harris	CD54HC163		SNJ55325	SiliconG	JAN55325		SN158099	Motorola	MC851	
SG1527A	SiliconG	SG1527A	(3642)	Motorola	MM54HC163			SNJ55326	SiliconG	SG55326 (3643)		SN158099	National	9951	
	TeledyneS	TSC15C27A		Intel	M27128			SNJ55450	National	μA55450		SN15831	Lansdale	ML831	
	TI	TL1527		SEEQ	P27128				SiliconG	SG55450		SN15832	Lansdale	ML832	
	Unitrode	UC1527		AMD	27128			SNJ55451	National	55451				ML932	
SG2524	Exar	XR2524		ATMEL	AM27C256				SiliconG	SG55451		SN15832	Motorola	MC932	
	LinearTech	LT2524		Intel	AT27C256					SG55451B (3643)			National	DM932	
		SG2524		Microchip	M27C256				TI	SN55451				932	
	National	μA2524		National	NMC27C256			SNJ55452	National	μA55452		SN15833	Lansdale	ML833	
	SGS-Thomson	LM2524		SEEQ	27256				SiliconG	SG55452		SN15834	Lansdale	ML384	
		SG2524		SGS-Thomson	M27C256B			SNJ55453	TI	SN55452		SN15835	Lansdale	ML840	
	Signetics	SG2524C			27C256				National	LM55453		SN15836	Lansdale	ML836	
	SiliconG	SG2524	(3642)	Signetics	WS27C256				SiliconG	SG55453				ML936	
		SG2524B	(3642)	Waferscale	WS57C256			SNJ55454	TI	SN55453		SN15836	Motorola	MC936	
	Unitrode	UC2524			WS57C256F				SiliconG	SG55454			National	DM936	
		UC2524A		SMJ27C512	AMD	AM27C512				SG55454B (3643)				936	
SG2525A	Exar	XR2525A		ATMEL	AT27C512			SNJ55460	TI	SN55454		SN15837	Lansdale	ML387	
	Harris	HA2525		Intel	MD27C512			SNJ55461	SiliconG	SG55460 (3643)				ML937	
	LinearTech	LT2525A		Microchip	27C512				TI	SN55461		SN15837	Motorola	MC837	
	Motorola	SG2525A		Waferscale	WS27C512L			SNJ55462	National	μA55462				MC937	
	SGS-Thomson	SG2525A		Microchip	DSP320C10				SiliconG	SG55462 (3643)		SN15837	National	DM937	
		SG2525A		Microchip	DSP32010			SNJ55463	TI	SN55462				937	
	SiliconG	SG2525A	(3642)	MicronTech	MT4264				SiliconG	SG55463 (3643)		SN15838	Lansdale	ML385	
	Sipex-HSD	SP2525		SGS-Thomson	MK45H64				TI	SN55463				ML935	
	TeledyneS	TSC25C25A			MB61461			SNJ55464	SiliconG	SG55464 (3643)		SN15838	Motorola	MC835	
	TI	TL2525		Fujitsu	MB81464				TI	SN55464				MC935	
	Unitrode	UC2525A		Hitachi	HM50464			SNJ55470	SiliconG	SG55470 (3643)		SN15838	National	DM935	
	Exar	XR2527A			HM53461				SiliconSys	SSI73K221				9135	
	LinearTech	LT2527A		Hyundai	HY53C464			SNJ55471	National	DS55471				9935	
	Motorola	SG2527A		IDT	DPS9264				SiliconG	SG55471 (3643)		SN15845	Lansdale	ML845	
	SiliconG	SG2527A	(3642)	Krueger	4464-100 (3513)			SNJ55472	SiliconG	SG55472 (3643)				ML945	
	TeledyneS	TSC25C27A			4464-120 (3513)			SNJ55473	SiliconG	SG55473 (3643)		SN15845	Motorola	MC945	
	TI	TL2527			4464-150 (3513)			SNJ55474	SiliconG	SG55474 (3643)				DM945	
	Unitrode	UC2527		MicronTech	MT4067			SN10144	Motorola	MCM10144				945	
		UC2527A		Mitsubishi	MCM41464				National	F10144		SN15846	Lansdale	ML846	
SG3524	Cherry Semi	CS3524			M5M4464P			SN10147	Motorola	MCM10147				9945	
	Exar	XR3524			M5M4C264			SN10148	Motorola	MCM10148		SN15846	Motorola	ML946	
	Harris	CA3524			M5M4464			SN10164	Motorola	MC10164				MC946	
	National	LM3524		Motorola	MCM41464				Signetics	10164		SN15846	National	DM946	
	SGS-Thomson	SG3524		NEC	μPD41264			SN10174	Motorola	MC10174				946	
		SG3524			μPD41464				Signetics	10174				9946	
	Signetics	SG3524		OKI	MSM41464			SN151800	Lansdale	ML1800		SN15848	Lansdale	ML848	
		SG3524C		Samsung	KM41464			SN151801	Lansdale	ML1801				ML948	
SG3524	SiliconG	SG3524	(3642)		KM41464A			SN151802	Lansdale	ML1802		SN15848	Motorola	MC948	
		SG3524B	(3642)	Vitel	V53C464			SN151803	Lansdale	ML1803				DM948	
SG3524	Unitrode	UC3524		Allegro				SN151804	Lansdale	ML1804				948	
		UC3524A		Micro	UDN6116			SN151805	Lansdale	ML1806				9948	
SG3525	Ericsson	RL3525A		Hitachi	HM6116			SN151806	Lansdale	ML1806		SN15849	Lansdale	ML849	
	Exar	XR3525A		Mitsubishi	M5M5517			SN151807	Lansdale	ML1807				ML949	
	LinearTech	LT3525		National	MMC2116			SN151808	Lansdale	ML1808		SN15849	Motorola	MC949	
		SG3525		OKI	MSM2128			SN151809	Lansdale	ML1809				DM949	
	Motorola	SG3525A			MSM5126			SN151810	Lansdale	ML1810				949	
	SGS-Thomson	SG3525A			MSM5128			SN151811	Lansdale	ML1811		SN15850	Lansdale	ML850	
		SG3525A			MSM5129			SN151812	Lansdale	ML1812		SN15851	Lansdale	ML851	
	SiliconG	SG3525A	(3642)	S-MOS	SMC6116			SN151900	Lansdale	ML1900				ML852	
	TeledyneS	TSC35C25A			SRM2016C			SN151901	Lansdale	ML1901				ML951	
	Unitrode	UC3525		SGS-Thomson				SN151902	Lansdale	ML1902		SN15851	Motorola	MC851	
		UC3525A			ET2128			SN151903	Lansdale	ML1903				MC852	
SG3525A	Ericsson	RL3525A			MK2817			SN151904	Lansdale	ML1904				MC951	
	Exar	XR3525A			MK6116			SN151905	Lansdale	ML1905		SN15851	National	9951	
	LinearTech	LT3525		Sharp	LH5115			SN151906	Lansdale	ML1906		SN15857	Lansdale	ML857	
		SG3525			LH5116			SN151907	Lansdale	ML1907				ML957	
SG3525A	Motorola	SG3525A		Signetics	NE5517			SN151908	Lansdale	ML1908		SN15857	Motorola	MC857	
	SGS-Thomson	SG3525A		Sony	CXK5816			SN151909	Lansdale	ML1909				MC957	
		SG3525A		UMC	UM6116			SN151910	Lansdale	ML1910		SN15857	National	DM957	
	SiliconG	SG3525A	(3642)	Vitel	V61C16			SN151911	Lansdale	ML1911				9157	
	TeledyneS	TSC35C25A		IDT	DPS9264			SN151912	Lansdale	ML1912				ML858	
	TI	SG3525		Intel	IDT7164L			SN158093	Lansdale	ML1912				ML958	
	Unitrode	UC3525			M2164A					ML953		SN15858	Lansdale	ML858	
		UC3525A		Krueger	4164-120 (3513)			SN158093	Motorola	MC853				ML958	
	Exar	XR3527A			4164-150 (3513)					MC953		SN15858	Motorola	MC858	
	LinearTech	LT3527			4164-200 (3513)			SN158093	National	DM9093				MC958	
		SG3527			F4164					9093		SN15858	National	DM958	
	Motorola	SG3527A			F64K			SN158094	Lansdale	ML856				9158	
	SGS-Thomson	SG3527A			NMC4164					ML956		SN15861	Lansdale	ML861	
		SG3527A	(3642)	OKI	MSM3764			SN158094	Motorola	MC856		SN15862	Lansdale	ML862	
	SiliconG	SG3527A		Panasonic	MN4164					MC956				ML962	
	TeledyneS	TSC35C27A			MN4864			SN158094	National	DM9094		SN15862	Motorola	MC962	
	Unitrode	UC3527A		Samsung	KM4164A					9094				DM962	
SG3527A	Exar	XR3527A			KM4164B			SN158097	Lansdale	ML855				962	
	LinearTech	LT3527		Siemens	HYB4164					ML955		SN15863	Lansdale	HL7641	
		SG3527		TI	SN55189			SN158097	Motorola	MC855				ML863	
SG3527A	Motorola	SG3527A		SiliconG	SG55234 (3643)					MC955				ML963	
	SGS-Thomson	SG3527A		SiliconG	SG55236 (3643)			SN158097	National	DM9097		SN15863	Motorola	MC963	
		SG3527A	(3642)		SG55236A (3643)					9097				DM963	
	SiliconG	SG3527A		SiliconSys	SSI75T982 (3647)			SN158099	Lansdale	ML851		SN159093	Lansdale	ML853	
	TeledyneS	TSC35C27A		Motorola	MC5524					ML852				ML953	
	TI	SG3527		National	LM5524					ML951					
	Unitrode	UC3527A			MC5524										

Discontinued

The manufacturers report their devices can be used as direct replacements. Performance details often differ, so compare the specifications considering your requirements.

IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				• SN15951	Motorola	MC851 MC852 MC951 9951		• SN39301	National	DM8301 DM9301 9031 9301		SN54ALS245A	Motorola National	SN54ALS245 DM54ALS245	
• SN159093	Motorola	MC853 MC953 DM9093		• SN15951	National	ML857 ML957		• SN39301	Signetics	S8252		SN54ALS251	National	DM54ALS251	
• SN159093	National	9093		• SN15957	Lansdale	MC857 ML957		• SN39308	Lansdale	ML8308 ML9308		SN54ALS253	National	DM54ALS253	
• SN159094	Motorola	SN54LS139		• SN15957	Motorola	MC857 MC957		• SN39308	National	9308		SN54ALS257	National	DM54ALS257	
• SN159094	National	DM54LS139 54LS139		• SN15957	National	DM9567 DM957 9157		• SN39312	Lansdale	SN74116 ML8312 ML9312 RL8230		SN54ALS258	National	DM54ALS258	
• SN159094	SGS-Thomson	T54LS139		• SN15958	Lansdale	ML858 ML958		• SN39312	National	9312		SN54ALS273	Motorola	SN54ALS273	
• SN159097	TI	SN54LS139A		• SN15958	Motorola	MC858 MC958		• SN39318	Lansdale	ML9318		SN54ALS28A	National	DM54ALS28	
• SN159097	Lansdale	ML855 ML955		• SN15958	National	DM958 9158		• SN39318	Motorola	SN54ALS00		SN54ALS29821	AMD	AM29C821 AM29C821A AM29821	
• SN159097	Motorola	MC855 MC955		• SN15958	National	DM958 9158		SN54ALS00A	National	DM54ALS00		TI		SN74AS821 SN74ABCT29821	
• SN159097	National	DM9097 9097		• SN15961	Lansdale	ML961 MC961		SN54ALS01	National	DM54ALS01		SN54ALS29823	AMD	AM29C823A AM29823 AM29823A	
• SN159099	Lansdale	ML952 MC952		• SN15961	Motorola	DM961 9961		SN54ALS02	Motorola	SN54ALS02		TI		SN74AS823 SN74ABCT29823	
• SN15930	National	9099		• SN15962	National	DM961 9961		SN54ALS03B	National	DM54ALS03		SN54ALS29824	AMD	AM29824 SN74AS824 SN74ABCT29824	
• SN15930	Lansdale	ML830 ML930		• SN15962	Lansdale	ML862 ML962		SN54ALS04B	National	DM54ALS04A		TI			
• SN15930	Motorola	MC830 MC930		• SN15962	Motorola	MC962 DM962		SN54ALS05A	National	DM54ALS05					
• SN15930	National	DM930 930		• SN15963	National	DM962 962		SN54ALS08	Motorola	SN54ALS08					
• SN15931	Lansdale	ML931		• SN15963	Lansdale	HL7641 ML863		SN54ALS10A	National	DM54ALS10					
• SN15933	Lansdale	ML933		• SN15963	Lansdale	ML863 ML963		• SN54ALS1000A	National	DM54ALS1000 DM54ALS160		SN54ALS29825	AMD	AM29825 SN74AS825 SN74ABCT29825	
• SN15933	Motorola	MC933 DM933		• SN15963	Motorola	MC963 DM963		• SN54ALS1002A	National	DM54ALS1002 DM54ALS162		TI			
• SN15933	National	9933		• SN24S181	AMD	AM2864B AT28C64		• SN54ALS1005	Allegro Micro	ULN2814 DM54ALS1005		SN54ALS29842	AMD	AM29C843 AM29843 SN74AS843	
• SN15934	Lansdale	ML934 MC934		• SN24S181	ATMEL	AT28HC64 AT28PC64		• SN54ALS1005	National	DM54ALS1005		TI		SN74ABCT29842	
• SN15935	Lansdale	ML841 ML941		• SN24S181	Raytheon	HL76165 MCM76165		• SN54ALS1011A	SiliconG	SG2814 (3642)		SN54ALS29843	TI	SN74ABCT29843	
• SN15935	Motorola	MC941 9941		• SN24S181	Motorola	29633		• SN54ALS1011A	National	DM54ALS1011 DM54AS258		SN54ALS30A	National	DM54ALS30A	
• SN15936	National	ML836 ML936		• SN28S86	Samsung	KM28C65		• SN54ALS1020A	National	DM54ALS1020		SN54ALS32	Motorola	SN54ALS32	
• SN15936	Motorola	MC936 DM936		• SN28S86	Signetics	82HS195		• SN54ALS1020A	National	DM54ALS1020		SN54ALS33A	National	DM54ALS33	
• SN15936	National	936 9936		• SN28S86	AMD	AM27S181 CY7C282M		• SN54ALS11A	National	DM54ALS11		SN54ALS352	National	DM54ALS352	
• SN15937	Lansdale	ML837 ML937		• SN28S86	Cypress	S25089		• SN54ALS1242	National	DM54ALS1242		SN54ALS353	Mitsubishi	M74ALS158 DM54ALS353	
• SN15937	Motorola	MC837 MC937		• SN28S86	Hitachi	HN25089		• SN54ALS1242	National	DM54ALS1242		SN54ALS38A	National	DM54ALS1000 DM74ALS158	
• SN15937	National	DM937 937		• SN28S86	Lansdale	HL7681 DM77LS181		• SN54ALS1243	National	DM54ALS1243		SN54ALS373	Signetics	74ALS158	
• SN15938	Lansdale	ML835 ML935		• SN28S86	Raytheon	DM77S181 DM77S281		• SN54ALS1243	National	DM54ALS1243		• SN54ALS373	Motorola	SN54ALS373	
• SN15938	Motorola	MC835 MC935		• SN28S86	Signetics	DM87S181 DM87S281		• SN54ALS138	National	DM54ALS138		SN54ALS374	Motorola	SN54ALS374	
• SN15938	National	DM935 9135		• SN28S86	STC	932451 29631		• SN54ALS151	National	DM54ALS151		SN54ALS374	National	DM54ALS374	
• SN15939	Lansdale	ML832 ML932		• SN28S86	TI	28586-60 ML8301		• SN54ALS153	National	DM54ALS153		• SN54ALS38A	National	DM54ALS38	
• SN15939	Motorola	MC932 DM932		• SN29301	Lansdale	9301 9301		• SN54ALS160B	Motorola	SN54ALS160 DM54ALS160		• SN54ALS466A	National	DM54ALS466 DM54ALS1008	
• SN15945	Lansdale	ML845 ML945		• SN29301	National	DM8301 DM9301		• SN54ALS161B	Motorola	SN54ALS161 DM54ALS161		• SN54ALS467A	National	DM54ALS467 DM54ALS1032	
• SN15945	Motorola	MC945 DM945		• SN29301	Signetics	9031		• SN54ALS162B	Motorola	SN54ALS162 DM54ALS162		SN54ALS520	National	DM54ALS520	
• SN15946	Lansdale	ML846 ML946		• SN29308	Lansdale	S8252 SL8252		• SN54ALS163B	Motorola	SN54ALS163 DM54ALS163		SN54ALS563A	National	DM54ALS563	
• SN15946	Motorola	MC946 DM946		• SN29308	TI	DM8301 DM9301		• SN54ALS168B	National	DM54ALS168B		SN54ALS564A	National	DM54ALS564	
• SN15948	Lansdale	ML848 ML948		• SN29309	Lansdale	9308 SN74116		• SN54ALS169B	Motorola	SN54ALS169 DM54ALS169		SN54ALS573B	Motorola	SN54ALS573 DM54ALS573	
• SN15948	Motorola	MC948 DM948		• SN29312	National	ML8309 DM8309		• SN54ALS174	National	DM54ALS174		SN54ALS574A	Motorola	SN54ALS574 DM54ALS574	
• SN15949	Lansdale	ML849 ML949		• SN29312	Lansdale	DM9309 9309		• SN54ALS175	National	DM54ALS175		SN54ALS576A	National	SN54ALS576 DM54ALS576	
• SN15949	Motorola	MC949 DM949		• SN29312	National	ML8312 ML9312		• SN54ALS191	National	DM54ALS191		SN54ALS580A	Motorola	SN54ALS580 DM54ALS580	
• SN15950	Motorola	MC950 9950		• SN29312	National	RL8230 9312		• SN54ALS193	National	DM54ALS193		• SN54ALS620A	Motorola	SN54ALS620 DM54ALS620	
• SN15951	Lansdale	ML851 ML852 ML951		• SN29601	Lansdale	ML74122 (3514) ML8601 DM8601		• SN54ALS220A	Motorola	SN54ALS220 DM54ALS220		• SN54ALS623A	Motorola	SN54ALS623 DM54ALS623	
				• SN29601	National	DM9601 9601		• SN54ALS221A	National	DM54ALS221		SN54ALS640A	Motorola	SN54ALS640 DM54ALS640	
				• SN29601	Signetics	N8T22 S8T22		• SN54ALS22B	National	DM54ALS22		SN54ALS645A	National	DM54ALS645 DM54ALS645	
				• SN29601	TI	SN74122 ML8301		• SN54ALS240A	Motorola	SN54ALS240 DM54ALS240		SN54ALS74A	Motorola	SN54ALS74 DM54ALS74	
				• SN39301	Lansdale	ML9301 RL8252 SL8252		• SN54ALS241A	Motorola	SN54ALS241 DM54ALS241		SN54ALS804A	National	DM54ALS804 DM54ALS804	
								• SN54ALS242B	Motorola	SN54ALS242 DM54ALS242		SN54ALS86	National	DM54ALS86	
								• SN54ALS243A	Motorola	SN54ALS243 DM54ALS243					
								• SN54ALS244A	Motorola	SN54ALS244 DM54ALS244					

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	IC Master Device	IC Master Page	Manufacturer Device	Replacement Source	IC Master Device	IC Master Page	Manufacturer Device	Replacement Source	IC Master Device	IC Master Page	Manufacturer Device	Replacement Source	IC Master Device	IC Master Page
Texas Instruments (Cont'd)				SN54F283	Motorola	MC54F283		SN54HCT540	Harris	CD54HCT540		SN54HC163	Harris	CD54HC163	
SN54ALS880B	Motorola	SN54ALS880		SN54F30	National	54F283		SN54HCT541	Marconi	54HCT540		SN54HC163	Motorola	MC54HC163	
SN54AS1008	National	DM54ALS466		SN54F32	Motorola	MC54F32			Motorola	MC54HCT540		SN54HC164	National	MM54HC163	
SN54AS160	National	DM54ALS1008			Motorola	54F32			National	MM54HCT540		SN54HC164	TI	SH54HC163	
SN54AS162	National	DM54ALS1002		SN54F350	Motorola	MC54F350			Harris	CD54HCT541		SN54HC165	Harris	CD54HC164	
SN54AS168	National	DM54ALS1003			Motorola	54F350			Marconi	54HCT541		SN54HC165	Motorola	MC54HC164	
SN54AS230	National	DM54AS230		SN54F352	Motorola	MC54F352			Motorola	MC54HCT541		SN54HC166	National	MM54HC164	
SN54AS243	Allegro	ULN2814			Motorola	54F352			National	MM54HCT541		SN54HC166	Harris	CD54HC165	
	Micro	DM54ALS1005		SN54F353	Motorola	MC54F353			Harris	CD54HCT541		SN54HC166	Motorola	MC54HC165	
	National	DM54AS243			Motorola	54F353			Motorola	CD54HCT541		SN54HC166	National	MM54HC165	
SN54AS243	SiliconG	SG2814	(3642)	SN54F374	Motorola	MC54F374			National	MM54HCT541		SN54HC166	Harris	CD54HC166	
SN54AS258	National	DM54ALS1011			Motorola	54F374			Motorola	CD54HCT541		SN54HC166	Motorola	MC54HC166	
SN54AS264	National	DM54ALS1020		SN54F38	Motorola	MC54F38			National	MM54HCT541		SN54HC166	National	MM54HC166	
SN54AS280	National	DM54AS280		SN54F381	Motorola	MC54F381			Motorola	CD54HCT541		SN54HC166	Motorola	MC54HC166	
SN54AS280	National	DM54ALS168B			Motorola	54F381			National	MM54HCT541		SN54HC166	National	MM54HC166	
SN54AS881A	National	DM54ALS231		SN54F382	Motorola	MC54F382			Motorola	CD54HCT541		SN54HC166	Motorola	MC54HC166	
SN54F00	Motorola	MC54F00			Motorola	54F382			National	MM54HCT541		SN54HC166	National	MM54HC166	
SN54F02	Motorola	MC54F02		SN54F521	Motorola	MC54F521			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
SN54F04	Motorola	MC54F04			Motorola	54F521			National	MM54HCT541		SN54HC166	National	MM54HC166	
SN54F10	Motorola	MC54F10		SN54F533	Motorola	MC54F533			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
SN54F109	Motorola	MC54F109			Motorola	54F533			National	MM54HCT541		SN54HC166	National	MM54HC166	
SN54F11	Motorola	MC54F11		SN54F534	Motorola	MC54F534			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
SN54F112	Motorola	MC54F112			Motorola	54F534			National	MM54HCT541		SN54HC166	National	MM54HC166	
SN54F138	Motorola	MC54F138		SN54F543	Motorola	MC54F543			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
SN54F153	Motorola	MC54F153			Motorola	54F543			National	MM54HCT541		SN54HC166	National	MM54HC166	
SN54F157	Motorola	MC54F157		SN54F544	Motorola	MC54F544			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
SN54F157A	Motorola	MC54F157A			Motorola	54F544			National	MM54HCT541		SN54HC166	National	MM54HC166	
SN54F158A	Motorola	MC54F158		SN54F573	Motorola	MC54F573			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
SN54F175	Motorola	MC54F175			Motorola	54F573			National	MM54HCT541		SN54HC166	National	MM54HC166	
SN54F20	Motorola	MC54F20		SN54F574	Motorola	MC54F574			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
SN54F240	Motorola	MC54F240			Motorola	54F574			National	MM54HCT541		SN54HC166	National	MM54HC166	
SN54F241	Motorola	MC54F241		SN54F620	Motorola	MC54F620			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
SN54F242	Motorola	MC54F242			Motorola	54F620			National	MM54HCT541		SN54HC166	National	MM54HC166	
SN54F243	Motorola	MC54F243		SN54F623	Motorola	MC54F623			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
SN54F244	Motorola	MC54F244			Motorola	54F623			National	MM54HCT541		SN54HC166	National	MM54HC166	
SN54F245	Motorola	MC54F245		SN54F64	Motorola	MC54F64			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
SN54F251A	Motorola	MC54F251			Motorola	54F64			National	MM54HCT541		SN54HC166	National	MM54HC166	
SN54F253	Motorola	MC54F253		SN54F74	Motorola	MC54F74			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
SN54F257	Motorola	MC54F257			Motorola	54F74			National	MM54HCT541		SN54HC166	National	MM54HC166	
SN54F258	Motorola	MC54F258		SN54HCT04	Harris	CD54HCT04			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
SN54F27	Motorola	MC54F27			Motorola	54F74			National	MM54HCT541		SN54HC166	National	MM54HC166	
SN54F280B	Motorola	MC54F280		SN54HCT137	Harris	CD54HCT137			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
	National	54F280			Marconi	54HCT137			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT138	Harris	CD54HCT138			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT138			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT237	Harris	CD54HCT237			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT237			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT238	Harris	CD54HCT238			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT238			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT240	Harris	CD54HCT240			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT240			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT241	Harris	CD54HCT241			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT241			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT244	Harris	CD54HCT244			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT244			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT245	Harris	CD54HCT245			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT245			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT373	Harris	CD54HCT373			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT373			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT374	Harris	CD54HCT374			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT374			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT377	Harris	CD54HCT377			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT377			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT378	Harris	CD54HCT378			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT378			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT379	Harris	CD54HCT379			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT379			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT380	Harris	CD54HCT380			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT380			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT381	Harris	CD54HCT381			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT381			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT382	Harris	CD54HCT382			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT382			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT383	Harris	CD54HCT383			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT383			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT384	Harris	CD54HCT384			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT384			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT385	Harris	CD54HCT385			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT385			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT386	Harris	CD54HCT386			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT386			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT387	Harris	CD54HCT387			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT387			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT388	Harris	CD54HCT388			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT388			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT389	Harris	CD54HCT389			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT389			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT390	Harris	CD54HCT390			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT390			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT391	Harris	CD54HCT391			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT391			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT392	Harris	CD54HCT392			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT392			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT393	Harris	CD54HCT393			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT393			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT394	Harris	CD54HCT394			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT394			National	MM54HCT541		SN54HC166	National	MM54HC166	
				SN54HCT395	Harris	CD54HCT395			Motorola	CD54HCT541		SN54HC166	National	MM54HC166	
					Marconi	54HCT395			National	MM54HCT541		SN54HC166	National	MM54HC166	</

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				SN54HC590A	National	MM54HC590		SN54LS01	Motorola	SN54LS01		SN54LS136	SGS-Thomson		(Cont'd)
SN54HC30	Harris	CD54HC30		SN54HC595	Motorola	MC54HC595		SN54LS02	National	DM54LS01		SN54LS137	Motorola	T54LS136	
SN54HC32	National	MM54HC30		• SN54HC597	Harris	MM54HC595		SN54LS02	Motorola	SN54LS02		SN54LS138	Motorola	SN54LS137	
SN54HC365	National	CD54HC32		• SN54HC597	Motorola	CD54HC597		SN54LS03	SGS-Thomson	SN54LS02		SN54LS138	National	SN54LS138	
SN54HC366	Motorola	MC54HC32		SN54HC640	Signetics	MC54HC597		SN54LS04	Signetics	T54LS02		SN54LS139A	SGS-Thomson	SN54LS138	
SN54HC366	National	MM54HC32		SN54HC640	Harris	MM54HC597		SN54LS05	Motorola	SN54LS03		SN54LS14	Motorola	SN54LS139	
SN54HC366	Motorola	CD54HC365		SN54HC643	Motorola	MC54HC640		SN54LS08	National	DM54LS03		SN54LS151	National	DM54LS139	
SN54HC366	Signetics	MM54HC365		SN54HC643	Harris	CD54HC643		SN54LS09	SGS-Thomson	SN54LS09		SN54LS155A	Motorola	SN54LS151	
SN54HC366	Harris	74HC365		SN54HC645	National	MM54HC643		SN54LS10	Motorola	T54LS03		SN54LS156	Motorola	SN54LS156	
SN54HC367	Motorola	CD54HC366		• SN54HC646	National	MM54HC645		SN54LS11	National	SN54LS04		SN54LS157	National	SN54LS157	
SN54HC367	National	MM54HC366		• SN54HC646	Harris	CD54HC646		SN54LS112A	Motorola	SN54LS04		SN54LS158	Motorola	SN54LS158	
SN54HC368	Motorola	CD54HC367		• SN54HC648	Motorola	MM54HC646		SN54LS114A	SGS-Thomson	T54LS04		SN54LS160A	Motorola	SN54LS160A	
SN54HC368	National	MM54HC367		SN54HC670	Harris	CD54HC648		SN54LS12	Motorola	SL8270		SN54LS161A	National	SN54LS161A	
SN54HC373	Motorola	CD54HC368		SN54HC688	Motorola	MC54HC648		SN54LS122	Motorola	SL8471		SN54LS162A	Motorola	SN54LS162A	
SN54HC373	National	MM54HC368		SN54HC688	Harris	MM54HC648		SN54LS123	National	SN54LS12		SN54LS162A	National	SN54LS162A	
SN54HC374	Motorola	CD54HC373		SN54HC74	Motorola	CD54HC688		SN54LS125A	Motorola	SN54LS123		SN54LS163A	Motorola	SN54LS163A	
SN54HC374	National	MM54HC373		SN54HC75	Harris	MM54HC688		SN54LS126A	SGS-Thomson	SN54LS125		SN54LS164	Motorola	SN54LS164	
SN54HC377	Motorola	CD54HC374		SN54HC85A	Motorola	CD54HC74		SN54LS13	Motorola	SN54LS125A		SN54LS165A	Motorola	SN54LS165	
SN54HC390	Harris	MM54HC374		SN54HC86	National	MC54HC74		SN54LS136	National	SN54LS125		SN54LS166A	Motorola	SN54LS166	
SN54HC393	Motorola	CD54HC377		• SN54H00	Lansdale	MM54HC75		SN54LS136	Motorola	SN54LS136		SN54LS168	Motorola	SN54LS168	
SN54HC4002	National	MM54HC390		• SN54H01	Lansdale	CD54HC85		SN54LS136	National	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC4016	Motorola	CD54HC393		• SN54H04	Lansdale	MM54HC86		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
• SN54HC4020	National	MM54HC4002		• SN54H08	Lansdale	MC54HC86		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
• SN54HC4024	Motorola	CD54HC4016		• SN54H10	Lansdale	ML3100 (3514)		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
• SN54HC404	Motorola	MM54HC4016		• SN54H101	Lansdale	ML54H00		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
• SN54HC4040	National	CD54HC4020		• SN54H103	Lansdale	SL54H00		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
• SN54HC4060	Motorola	MM54HC4024		• SN54H108	Lansdale	ML3104 (3514)		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC4066	National	CD54HC404		• SN54H11	Lansdale	ML54H01		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC4075	Motorola	MM54HC404		• SN54H20	Lansdale	SL54H01		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC4078A	Motorola	CD54HC406		• SN54H21	Lansdale	ML3110 (3514)		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC42	National	MM54HC406		• SN54H22	Lansdale	SL54H20		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC51	Motorola	CD54HC406		• SN54H30	Lansdale	ML3111 (3514)		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC533	National	MM54HC406		• SN54H40	Lansdale	ML3112 (3514)		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC534	Motorola	CD54HC407		• SN54H40	Lansdale	ML3116 (3514)		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC540	National	MM54HC407		• SN54H50	Lansdale	ML54H30		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC541	Motorola	CD54HC407		• SN54H51	Lansdale	SL54H30		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC563	National	MM54HC407		• SN54H52	Lansdale	ML3124 (3514)		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC564	Motorola	CD54HC407		• SN54H53	Lansdale	ML3125 (3514)		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC573	National	MM54HC407		• SN54H54	Lansdale	ML54H40		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H55	Lansdale	SL54H40		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H60	Lansdale	ML3120 (3514)		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H71	Lansdale	ML54H50		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H72	Lansdale	ML3123 (3514)		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H73	Lansdale	ML54H51		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H74	Lansdale	ML3131 (3514)		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H76	Lansdale	ML54H52		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H77	Lansdale	SL54H52		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H78	Lansdale	ML3132 (3514)		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H86	Lansdale	ML54H53		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H87	Lansdale	SL54H53		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H88	Lansdale	ML54H54		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H89	Lansdale	SL54H54		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H90	Lansdale	ML54H55		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H91	Lansdale	ML54H60		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H92	Lansdale	ML54H71		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H93	Lansdale	ML54H72		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H94	Lansdale	ML54H73		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H95	Lansdale	ML3160 (3514)		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H96	Lansdale	ML54H74		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H97	Lansdale	SL54H74		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H98	Lansdale	ML54H76		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H99	Lansdale	ML3121 (3514)		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H100	Lansdale	SL54H76		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H101	Lansdale	ML3121 (3514)		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H102	Lansdale	SL54H76		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H103	Lansdale	ML54H77		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H104	Lansdale	ML54H78		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H105	Lansdale	ML54H79		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H106	Lansdale	SL54H79		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H107	Lansdale	ML54H80		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H108	Lansdale	ML54H81		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H109	Lansdale	SL54H81		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H110	Lansdale	ML54H82		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H111	Lansdale	ML54H83		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H112	Lansdale	SL54H83		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H113	Lansdale	ML54H84		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H114	Lansdale	SL54H84		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H115	Lansdale	ML54H85		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H116	Lansdale	SL54H85		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H117	Lansdale	ML54H86		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H118	Lansdale	SL54H86		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H119	Lansdale	ML54H87		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	National	MM54HC407		• SN54H120	Lansdale	SL54H87		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	
SN54HC574	Motorola	CD54HC407		• SN54H121	Lansdale	ML54H88		SN54LS136	Motorola	SN54LS136		SN54LS168	National	SN54LS168	

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				SN54LS241	Motorola National SGS-Thomson	SN54LS241 54LS241 T54LS241		SN54LS298	SGS-Thomson		(Cont'd)	SN54LS38	SGS-Thomson		(Cont'd)
• SN54LS168	SGS-Thomson	T54LS168		SN54LS242	Motorola	SN54LS242		SN54LS299	Motorola	DM54LS299		SN54LS385	Motorola	T54LS38	
SN54LS169B	Motorola	SN54LS169		SN54LS243	Motorola	SN54LS243		SN54LS30	National	54LS299		SN54LS386	Lansdale	SN54LS385	
	National	DM54LS169		SN54LS244	Motorola	SN54LS244		SN54LS30	Motorola	SN54LS30		SN54LS386	Motorola	SL8241	
	SGS-Thomson	54LS169			National	54LS244		SN54LS30	National	DM54LS30		SN54LS386	Motorola	SN54LS386	
SN54LS170	National	T54LS169		SN54LS245	SGS-Thomson	54LS244		SN54LS30	SGS-Thomson	54LS30		SN54LS390	Motorola	SN54LS390	
	SGS-Thomson	DM54LS170				54LS244		SN54LS32	Motorola	T54LS30		SN54LS393	SGS-Thomson	T54LS390	
	SGS-Thomson	54LS170		SN54LS247	Motorola	SN54LS245		SN54LS32	National	SN54LS32		SN54LS393	Motorola	SN54LS393	
SN54LS173A	Motorola	T54LS170			Signetics	DM54LS245		SN54LS32	SGS-Thomson	DM54LS32		SN54LS395A	Signetics	T54LS393	
	National	SN54LS173A		SN54LS247	Motorola	54LS245		SN54LS322A	National	54LS32		SN54LS395A	Motorola	54LS393	
	National	DM54LS173			National	SN54LS247		SN54LS323	Motorola	T54LS32		SN54LS395A	National	SN54LS395	
	Signetics	54LS173		• SN54LS249	Motorola	DM54LS247		SN54LS323A	National	54LS322		SN54LS395A	SGS-Thomson	54LS395	
SN54LS174	Motorola	SN54LS174			National	SN54LS249		SN54LS323	Motorola	SN74LS323		• SN54LS398	Motorola	T54LS395	
	National	DM54LS174		SN54LS251	Motorola	DM54LS249		SN54LS323	National	54LS323		SN54LS399	SGS-Thomson	SN54LS398	
	SGS-Thomson	54LS174			National	54LS249		SN54LS33	TI	SN74LS323		SN54LS40	Motorola	TS4LS393	
	Signetics	T54LS174		SN54LS251	SGS-Thomson	SN54LS251		SN54LS33	Motorola	SN54LS33		SN54LS40	National	SN54LS40	
SN54LS175	Motorola	54LS174				T54LS251		SN54LS33	National	54LS33		SN54LS40	SGS-Thomson	54LS40	
	National	SN54LS175		SN54LS253	Motorola	SN54LS253		• SN54LS347	National	T54LS33		SN54LS42	Motorola	T54LS40	
	SGS-Thomson	DM54LS175			National	DM54LS253		SN54LS348	Motorola	54LS347		SN54LS42	National	SN54LS42	
	SGS-Thomson	54LS175			SGS-Thomson	DM7214		SN54LS352	Motorola	SN54LS348		SN54LS42	SGS-Thomson	DM54LS42	
SN54LS181	Motorola	T54LS175		SN54LS257B	Motorola	54LS253			National	SN54LS352		SN54LS42	SGS-Thomson	54LS42	
	National	SN54LS181			SGS-Thomson	T54LS253		SN54LS352	SGS-Thomson	DM54LS352		SN54LS47	Motorola	T54LS42	
	SGS-Thomson	54LS181				SN54LS257A		SN54LS353	Motorola	54LS352		SN54LS47	National	SN54LS47	
SN54LS183	Motorola	MC54LS183		SN54LS258B	Motorola	DM54LS257		SN54LS353	National	SN54LS353		SN54LS48	National	DM54LS47	
SN54LS190	Motorola	SN54LS190			SGS-Thomson	54LS257A		SN54LS353	SGS-Thomson	DM54LS353		SN54LS48	National	54LS47	
	SGS-Thomson	T54LS181		SN54LS259B	Motorola	T54LS257		SN54LS365A	Motorola	54LS353		SN54LS49	Motorola	DM54LS48	
SN54LS191	Motorola	SN54LS191			National	SN54LS258A		SN54LS365A	National	T54LS353		SN54LS49	National	54LS48	
	National	DM54LS191		SN54LS26	Motorola	54LS258A		SN54LS366A	Signetics	T54LS354		SN54LS490	Motorola	SN54LS49	
	SGS-Thomson	T54LS191			National	SN54LS259		SN54LS366A	Motorola	SN54LS365A		SN54LS490	National	54LS49	
SN54LS192	Motorola	SN54LS192		SN54LS266	Motorola	T54LS259		SN54LS366A	SGS-Thomson	54LS365		SN54LS51	Motorola	SN54LS490	
	National	DM54LS192			SGS-Thomson	SN54LS26		SN54LS366A	Signetics	T54LS365		SN54LS51	National	SN54LS51	
	SGS-Thomson	54LS192		SN54LS266	Motorola	DM54LS26		SN54LS367A	Motorola	54LS365A		SN54LS51	SGS-Thomson	DM54LS51	
SN54LS193	Motorola	T54LS192			National	54LS26		SN54LS367A	SGS-Thomson	SN54LS366A		SN54LS54	Motorola	54LS51	
	National	SN54LS193		SN54LS27	Motorola	SN54LS266		SN54LS367A	Motorola	DM54LS366		SN54LS54	National	T54LS51	
	SGS-Thomson	DM54LS193			SGS-Thomson	DM54LS266		SN54LS367A	National	54LS366A		SN54LS54	SGS-Thomson	SN54LS54	
	SGS-Thomson	54LS193		SN54LS27	Motorola	54LS266		SN54LS368A	Signetics	DM54LS367		SN54LS54	SGS-Thomson	DM54LS54	
SN54LS194A	Motorola	T54LS193			National	SN54LS27		SN54LS368A	SGS-Thomson	54LS367A		SN54LS54	SGS-Thomson	54LS54	
	National	SN54LS194A		SN54LS273	Motorola	54LS27		SN54LS368A	Motorola	T54LS367		• SN54LS541	Motorola	T54LS54	
	SGS-Thomson	54LS194A			National	SN54LS27		SN54LS368A	National	54LS367A		SN54LS640	Motorola	SN54LS541	
SN54LS195A	Motorola	T54LS194		SN54LS273	Motorola	T54LS27		SN54LS368A	Motorola	SN54LS368A		SN54LS641	Motorola	SN54LS640	
	National	SN54LS195A			National	SN54LS273		SN54LS368A	SGS-Thomson	DM54LS368		SN54LS642	Motorola	SN54LS641	
	SGS-Thomson	DM54LS195A		SN54LS279A	Signetics	DM54LS273		SN54LS37	Motorola	54LS368A		SN54LS644	Motorola	SN54LS642	
	SGS-Thomson	54LS195A			SGS-Thomson	54LS273		SN54LS37	National	T54LS368		SN54LS644	Motorola	SN54LS644	
SN54LS196	Motorola	T54LS195		SN54LS28	Motorola	SN54LS279		SN54LS37	Motorola	SN54LS37		SN54LS645	Motorola	SN54LS645	
	National	54LS195A			National	DM54LS279		SN54LS37	National	DM54LS37		SN54LS668	Motorola	SN54LS668	
	SGS-Thomson	SN54LS196		SN54LS280	Motorola	54LS279		SN54LS373	SGS-Thomson	54LS37		SN54LS669	Motorola	SN54LS669	
SN54LS197	Motorola	T54LS196			SGS-Thomson	SN54LS279		SN54LS373	Motorola	DM54LS37		SN54LS670	Motorola	SN54LS670	
	National	SN54LS197		SN54LS28	Motorola	T54LS279		SN54LS373	National	DM54LS373		SN54LS670	National	DM54LS670	
	SGS-Thomson	DM54LS197			National	54LS28		SN54LS374	Signetics	T54LS373		SN54LS673	Motorola	T54LS670	
SN54LS20	Motorola	T54LS197		SN54LS280	Motorola	SN54LS28		SN54LS374	Motorola	54LS373		SN54LS674	Motorola	SN54LS673	
	National	54LS197			SGS-Thomson	54LS28		SN54LS374	National	SN54LS374		SN54LS682	Motorola	SN54LS674	
	SGS-Thomson	SN54LS20		SN54LS283	Motorola	T54LS28		SN54LS375	Motorola	DM54LS374		• SN54LS683	Motorola	SN54LS682	
	SGS-Thomson	DM54LS20			National	SN54LS280		SN54LS377	Motorola	54LS374		SN54LS684	Motorola	SN54LS683	
	SGS-Thomson	54LS20		SN54LS290	Motorola	SN54LS283		SN54LS377	National	SN54LS374		SN54LS685	Motorola	SN54LS684	
SN54LS21	Motorola	T54LS20			SGS-Thomson	DM54LS283		SN54LS377	Motorola	T54LS374		SN54LS688	Motorola	SN54LS685	
	National	54LS20		SN54LS293	Motorola	54LS283		SN54LS377	National	SN54LS375		SN54LS688	Motorola	SN54LS688	
	SGS-Thomson	SN54LS21			SGS-Thomson	T54LS283		SN54LS378	Signetics	SN54LS377		SN54LS73A	Motorola	SN54LS688	
	SGS-Thomson	DM54LS21		SN54LS293	Motorola	SN54LS290		SN54LS378	Motorola	DM54LS377		SN54LS74A	Motorola	SN54LS73A	
	SGS-Thomson	54LS21			National	DM54LS290		SN54LS378	National	54LS377		SN54LS74A	National	DM54LS73A	
SN54LS22	National	T54LS21		SN54LS293B	Motorola	SN54LS293		SN54LS378	SGS-Thomson	SN54LS377		SN54LS74A	Motorola	DM54LS74A	
	SGS-Thomson	DM54LS22			National	DM54LS293		SN54LS379	Motorola	DM54LS377		SN54LS74A	Motorola	DM54LS74A	
	SGS-Thomson	54LS22			SGS-Thomson	54LS293		SN54LS38	Motorola	SN54LS379		SN54LS74A	Motorola	DM54LS74A	
SN54LS221	Motorola	T54LS22		SN54LS298	Motorola	SN54LS295A		SN54LS38	National	54LS379		SN54LS74A	Motorola	DM54LS74A	
	National	SN54LS221			National	54LS295A		SN54LS38	SGS-Thomson	T54LS379		SN54LS74A	Motorola	DM54LS74A	
SN54LS240	Motorola	DM54LS221			SGS-Thomson	T54LS295		SN54LS38	Motorola	SN54LS38		SN54LS74A	Motorola	DM54LS74A	
	National	SN54LS240				SN54LS298		SN54LS38	National	DM54LS38		SN54LS74A	Motorola	DM54LS74A	
	SGS-Thomson	54LS240				54LS298		SN54LS38	SGS-Thomson	54LS38		SN54LS74A	Motorola	DM54LS74A	
	SGS-Thomson	T54LS240						SN54LS38	SGS-Thomson			SN54LS74A	Motorola	DM54LS74A	

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

IC MASTER

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				• SN54S287	National	DM7474		SN54123	National	DM54123	(Cont'd)	SN54191	Lansdale	ML54191	(3514)
SN54LS83A	(Cont'd)			• SN54S287	Signetics	7474				54123		SN54192	Lansdale	ML54192	(3514)
	SGS-Thomson	T54LS83		• SN54S288	AMD	SN7474		SN54125	Signetics	54123		• SN54193	Lansdale	ML54193	(3514)
SN54LS85	Signetics	54LS83A				AM27S19			National	DM7093		• SN54194	Lansdale	ML54194	(3514)
	Motorola	SN54LS85		• SN54S288	Fujitsu	27S19		SN5413	Lansdale	54125			National	DM54194	
	National	DM54LS85			Lansdale	MB7112		SN54132	Lansdale	ML5413	(3514)	SN54195	Signetics	ML54195	(3514)
SN54LS86A	Signetics	54LS85			National	HL7603		• SN54136	Lansdale	ML54132	(3514)		Lansdale	ML3300	
	Motorola	SN54LS86		• SN54S288	Signetics	DM74S288		SN5414	Lansdale	ML54136	(3514)			ML9300	
	National	DM54LS86				DM8578			National	ML5414	(3514)	SN54196	National	9300	
	SGS-Thomson					N82S123		SN54145	National	DM5414		SN54197	Lansdale	ML54196	(3514)
		T54LS86				N82US123		• SN54146	Lansdale	5414		SN54198	Lansdale	ML54197	(3514)
SN54LS90	Signetics	54LS86		SN54S299	National	82S123		SN54150	National	54145		SN5420	National	SL54198	
	Motorola	SN54LS90		SN54S30	National	DM54S299				ML54146				DM5420	
	National	DM54LS90		• SN54S32	National	DM54S30		SN54151A	Lansdale	DM54150	(3514)	SN5422	Harris	5420	
	SGS-Thomson			• SN54S387	Lansdale	DM54S32			National	54150		• SN542270	Lansdale	CA5422	
SN54LS92	Motorola	T54LS90		SN54S40	National	HL7610		SN54152	Lansdale	ML54151	(3514)	• SN542370	Lansdale	HL7620	
	National	SN54LS92		• SN54S474	Lansdale	DM54S40		SN54153	Lansdale	DM54151			AMD	ML5423	(3514)
	SGS-Thomson					54S40			National	54151A			Harris	AM27S13	
SN54LS93	Motorola	T54LS92		• SN54S474	Motorola	ML863		• SN54152	Lansdale	ML54152	(3514)		Lansdale	ICL7621	
	National	SN54LS93			National	ML963		SN54153	Lansdale	ML54153	(3514)		Maxim	ICL7621	
	SGS-Thomson	DM54LS93		• SN54S475	Lansdale	MC963			National	DM54153			MicroPwr	MP7621	
SN54LS95B	Motorola	T54LS93				DM963		SN54154	Lansdale	54153			National	DM74S571	
	National	SN54LS95B				9963			National	ML54154	(3514)	• SN542370	Signetics	DM74S571A	
	SGS-Thomson	DM54LS95B		• SN54S476	AMD	DM74S475		SN54155	Signetics	DM54154				N82S131	
		54LS95B				DM77S475		SN54157	Lansdale	DM9311		SN5425	Lansdale	S82S131	
• SN54L164	National	T54LS95				DM87S475			National	54154				ML5425	(3514)
		DM54L164		• SN54S477	Fujitsu	AM27S33		SN5416	Lansdale	54154		SN54251	Fujitsu	DM5425	
SN54S00	National	DM76170			Lansdale	MB7122		SN54160	Lansdale	ML9322		SN5426	National	MB7121	
SN54S02	Signetics	DM54S00			National	HL7643			National	DM54157			Lansdale	ML5426	(3514)
	National	54S00		• SN54S477	Lansdale	DM74S573		SN54161	Lansdale	54157		SN5427	National	DM5426	
SN54S03	Signetics	DM54S02			National	HL7642				ML5416	(3514)	SN54279	Lansdale	ML5427	(3514)
SN54S04	National	54S02		SN54S51	National	DM54S51		SN54161	Lansdale	ML54160	(3514)	SN54283	National	54279	
SN54S08	National	DM54S03			Signetics	54S51			National	ML9310		• SN54293	Lansdale	54283	
	Signetics	DM54S04		SN54S64	National	DM54S64		SN541616	Signetics	ML54161	(3514)	• SN54298	Lansdale	ML54290	(3514)
SN54S10	National	DM54S08		SN54S65	National	DM54S65			AMD	DM54161			National	ML54293	(3514)
	Signetics	54S08		SN54S74	National	DM54S74			AD	54161			Lansdale	ML54298	(3514)
SN54S11	National	DM54S10			Signetics	54S74		• SN541616	AD	54161		SN5430	National	54298	
	Signetics	54S10		SN54S85	National	DM54S85			ADSP1016	AM29C516A			Lansdale	ML5430	(3514)
SN54S112	National	DM54S11		SN54S86	Signetics	54S85			Cypress	ADSP1016			National	DM5430	
	Signetics	54S11			National	DM54S86		SN541616	HMU16	CY7C516		SN5432	National	5430	
SN54S113	National	DM54S112		SN5400	Signetics	54S86			LogicDev	LMU16				DM5432	
	Lansdale	54S112			National	ML5400	(3514)	• SN541616	TI	LMU216		SN5433	Signetics	5432	
SN54S114	National	ML3162	(3514)			DM5400			TRWLSI	SN741616		SN54365A	Marconi	MA5433	
SN54S133	National	DM54S113		SN5401	Signetics	5400		• SN541616	MPY016K	MPY016K		SN54366A	Signetics	S8795	
	Lansdale	ML3161	(3514)		Lansdale	ML5401	(3514)		TMC216H	TMC216H			Lansdale	SL8796	
SN54S134	National	DM54S133		SN5402	National	SL5401		SN54162	WTL1016	WTL1016		SN54367A	National	DM7096	
	Signetics	54S133			Lansdale	DM5401			WTL1516	WTL1516			Signetics	DM7097	
SN54S135	National	DM54S134		SN5403	National	SL5402	(3514)	SN54162	WTL2516	WTL2516		SN54368A	National	S8797	
	Signetics	54S134				DM5402			ML54162	ML54162	(3514)		Signetics	DM7098	
SN54S138	National	DM54S135		SN5404	National	5402		SN54163	DM54162	DM54162		SN5437	Lansdale	S8798	
	Signetics	54S135				ML5403	(3514)		National	ML54163	(3514)	SN5438	Lansdale	ML5437	(3514)
SN54S139	National	DM54S138		SN5405	Lansdale	DM5403		SN54164	Signetics	54163			National	DM5438	
	Signetics	54S138			National	ML5404	(3514)	SN54165	Signetics	54164		SN5440	Lansdale	ML5438	(3514)
SN54S140	National	DM54S139		• SN5404	Lansdale	DM5404			National	ML54165	(3514)		National	DM5440	
	Signetics	54S140				DM9016C		• SN54167	Lansdale	54165		• SN5441	Lansdale	5440	
SN54S151	National	DM54S151				5404		SN5417	Lansdale	ML54167	(3514)	SN5442A	Lansdale	ML5441	
	Signetics	54S151		SN5406	Lansdale	9016			National	ML5417	(3514)		National	DM5442	
SN54S153	National	DM54S153				ML5405	(3514)	SN54173	DM54173	DM54173		• SN5443	Lansdale	5442A	
	Signetics	54S153		SN5407	National	DM5406			DM7551	54173		• SN5444	Lansdale	ML5443	(3514)
SN54S157	National	DM54S157			Lansdale	ML5407	(3514)	SN54174	ML54174	ML54174	(3514)	SN5445	Lansdale	ML5444	(3514)
	Signetics	54S157		SN5408	National	DM5407			National	DM54174			National	ML5445	
SN54S158	National	DM54S158				ML3101	(3514)			DM54174			SGS-Thomson	DM5445	
	Signetics	54S158				ML5408	(3514)	SN54175	Signetics	54174				L602	
SN54S163	National	DM54S174		SN5409	Lansdale	DM5408			Lansdale	54174		SN5446A	Siemens	SO42	
	National	54S174				5408		SN54176	National	ML54175	(3514)	SN5447A	Signetics	NE602	
SN54S174	Signetics	DM54S175				SL5409				DM54175				SA602	
	National	DM54S181		SN5410	National	DM5409		SN54177	Signetics	54175			Lansdale	ML5446	
SN54S181	National	54S181				5409			Lansdale	54175		SN5448	Lansdale	ML5447	
SN54S182	Signetics	DM54S182				ML5410	(3514)	SN54179	Signetics	54175		SN5449	National	DM5447A	
	National	DM54S194				DM5410		SN54180	National	ML54176	(3514)		Lansdale	ML5448	
SN54S195	National	DM54S195		• SN54100	Lansdale	5410				ML74176	(3514)	SN5450	Lansdale	ML5449	
SN54S20	National	DM54S20				ML54100	(3514)	• SN54181	Signetics	ML54177	(3514)		Micrel	MM5450	
	Signetics	54S20				SL54100		• SN54182	Lansdale	ML74177	(3514)		National	MM5450	
SN54S22	National	DM54S22		SN54107	Lansdale	ML54107	(3514)			8271			SGS-Thomson	M5450	
SN54S244	National	DM54S244		• SN54120	Lansdale	ML54120	(3514)	• SN54182	National	ML54180	(3514)			SN5451	
	Signetics	54S244		SN54121	National	ML54121	(3514)			DM54180		SN5451	TI	MM5450	
SN54S251	National	DM54S251				DM54121		• SN54182	National	ML54182	(3514)		National	MM5450	
	Signetics	54S251		SN54122	Lansdale	54121				SL54182			SGS-Thomson	M5450	
SN54S257	National	DM54S257				ML54122	(3514)	• SN54184	National	DM54182				SN5450	
SN54S258	National	DM54S258		SN54123	Lansdale	54122		• SN54185A	National	DM54184		SN5453	TI	SN5453	(3514)
SN54S280	National	DM54S280				ML54123	(3514)	• SN54186	Lansdale	DM54185A			Lansdale	SL5453	
SN54S283	National	DM54S283				M54123		SN54190	Lansdale	HL0512				(Continued)	
• SN54S287	Lansdale	HL7611			Mitsubishi					ML54190	(3514)				
		ML7474	(3514)												

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				• SN5525	Motorola National	LM5525		SN74ALS00A	Motorola National	DM74ALS00		SN74ALS160B	Motorola National	SN74ALS160	
SN5454	Lansdale	ML5454	(3514)	• SN5528	Motorola National	LM5528		SN74ALS01	National	DM74ALS01		SN74ALS161B	Motorola National	SN74ALS161	
SN5470	Lansdale	ML5470	(3514)	• SN5532S	Motorola	MC5532S		SN74ALS02	Motorola National	DM74ALS02		SN74ALS162A	Motorola National	SN74ALS162	
SN5472	Lansdale	ML5472	(3514)	• SN5535	Motorola	MC5535		SN74ALS03A	National	DM74ALS03		• SN74ALS1621	National	DM74ALS1621	
SN5473	Mosel Lansdale National	SL5472 SL5472 MS72105 ML5473 DM5473 5473	(3514)	• SN5536S	National	LM5536S		SN74ALS04	Motorola National	DM74ALS04		SN74ALS163	Mitsubishi	M74ALS163	
SN5474	Signetics	5473		• SN55450	National	µA55450		SN74ALS04B	Motorola National	DM74ALS04		SN74ALS163A	Motorola National	SN74ALS163A	
SN5475	Lansdale	ML5474	(3514)		SiliconG	SG55450		SN74ALS04B	Motorola National	DM74ALS04		SN74ALS163B	Motorola National	SN74ALS163B	
SN5476	Lansdale	ML5475	(3514)	SN55451	National	55451		SN74ALS04B	Motorola National	DM74ALS04		SN74ALS163A	Mitsubishi	M74ALS163	
SN5476	Lansdale	ML5476	(3514)	SN55452	TI	SNJ55451		SN74ALS05A	National	DM74ALS05		SN74ALS163B	Motorola National	SN74ALS163	
• SN5477	Lansdale	ML5477	(3514)	SN55453	TI	µA55452		SN74ALS08	Motorola National	DM74ALS08		SN74ALS163A	Motorola National	SN74ALS163	
• SN5479	Lansdale	ML5479	(3514)	SN55454	TI	SNJ55452		SN74ALS09A	Motorola National	DM74ALS09		SN74ALS163B	Motorola National	SN74ALS163	
• SN5480	Lansdale	ML5480	(3514)	SN55455	TI	SNJ55453		SN74ALS10	Motorola National	DM74ALS10		SN74ALS163B	Motorola National	SN74ALS163	
• SN5481	Lansdale	ML4304		SN55456	TI	SNJ55454		SN74ALS10A	Motorola National	DM74ALS10		SN74ALS163B	Motorola National	SN74ALS163	
• SN5482	Lansdale	ML5482	(3514)	SN55460	TI	SG55454		SN74ALS10A	Motorola National	DM74ALS10		SN74ALS163B	Motorola National	SN74ALS163	
• SN5483A	National	5483A		SN55461	TI	SG55454		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN5485	Lansdale	ML5485	(3514)	SN55462	TI	µA55462		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN5485	Lansdale	DM5485		SN55462	TI	SG55462		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN5485	Signetics	5485		SN55463	TI	SG55463		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN5486	Lansdale	ML5486	(3514)	SN55464	TI	SG55464		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN5486	Lansdale	DM5486		SN55466	TI	SG55466		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN5486	SGS-Thomson	5486		SN55467	TI	SG55467		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN5490A	National	DM5490A		SN55468	TI	SG55468		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN5491A	Lansdale	ML5491A	(3514)	SN55469	TI	SG55469		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN5492A	AD	CMP01		SN55470	TI	SG55470		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN5493A	Lansdale	ML5492		• SN55470	TI	SG55470		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
• SN5494	Lansdale	ML5493		SN55554	SiliconSys	SS173K221		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN5495A	National	DM5495		SN72748P	Siliconix	S15554		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN5496	Lansdale	ML5496	(3514)		AD	OP06		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN5497	Lansdale	ML5497	(3514)		Harris	PM1008		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55107A	National	DS55107			Motorola	CA0748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55107B	TI	LM55107A			National	MC1748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55107B	National	DS55107			SGS-Thomson	LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55108A	TI	LM55107A			TI	LS148		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55108B	National	DS55108				µA748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55113	Western	TR1863				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55114	TI	SN75114				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55115	TI	SN75115				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55121	National	DS55121				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55122	Signetics	S8T13				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55123	Lansdale	SL8T14				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
• SN55123	National	DS55122				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55182	Samsung	KA78T05				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55182	AD	AD7820				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55182	Crystal	CS7820				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55182	Maxim	AD7820				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55182	National	MAX150				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55182	Samsung	µA7820				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55182	Siliconix	KAD0820				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55182	TI	SI7820				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55182	TI	µA7820				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55182	TI	TLC0820				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55182	National	DS7830				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55182	Samsung	KA2131				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55182	Sanyo	LA7830				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
SN55182	TI	SNJ55189				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
• SN5522	Motorola	MC5522				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
• SN5522	National	MC5523				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
• SN55234	SiliconG	SG55234	(3643)			LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
• SN55236	SiliconG	SG55236	(3643)			LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
• SN55236	SiliconSys	SS175T982	(3647)			LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
• SN5524	Motorola	MC5524				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
• SN5524	National	LM5524				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	
• SN5524	National	MC5524				LM748		SN74ALS100A	National	DM74ALS100		SN74ALS163B	Motorola National	SN74ALS163	

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The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				SN74ALS563	National	DM74ALS563		SN74ALS874B	Motorola	SN74ALS874		SN74AS645	National	DM74AS645	
SN74ALS241A-1	Signetics	74ALS241	(Cont'd)	SN74ALS564	National	DM74ALS564		SN74ALS876A	National	DM74ALS874		SN74AS646	National	DM74AS646	
SN74ALS242B	TI	SN74ALS241A		SN74ALS573	Motorola	SN74ALS573		SN74ALS880A	Motorola	SN74ALS876		SN74AS648	National	DM74AS648	
SN74ALS243A	Motorola	SN74ALS242		SN74ALS574	Motorola	SN74ALS574		SN74ALS880B	National	SN74ALS876		SN74AS651	National	DM74AS651	
SN74ALS244A	Motorola	SN74ALS243		SN74ALS576	Motorola	SN74ALS576		SN74ALS880B	TI	SN74ALS880B		SN74AS652	National	DM74AS652	
SN74ALS244A-1	Mitsubishi	M74ALS244A-1		SN74ALS580A	Motorola	SN74ALS580		SN74ALS880B	Motorola	SN74ALS880		SN74AS74	National	DM74AS74	
SN74ALS244A-1	Motorola	SN74ALS244		SN74ALS620A	Motorola	SN74ALS620A-1		SN74ALS880B	National	SN74ALS880		SN74AS804B	National	DM74AS804A	
SN74ALS244A-1	Signetics	74ALS244		SN74ALS620A-1	Mitsubishi	M74ALS620A-1		SN74ALS880B	TI	SN74ALS880B		SN74AS808B	National	DM74AS808A	
SN74ALS244A-1	TI	SN74ALS244A-1		SN74ALS620A-1	Motorola	SN74ALS620		SN74ALS880B	TI	SN74ALS880B		SN74AS810	National	DM74AS810	
SN74ALS244A-1	Mitsubishi	M74ALS244A-1		SN74ALS620A-1	Motorola	SN74ALS620		SN74ALS880B	Motorola	SN74ALS880		SN74AS811	National	DM74AS811	
SN74ALS244A-1	Motorola	SN74ALS244		SN74ALS620A-1	TI	SN74ALS620A-1		SN74ALS880B	National	SN74ALS880		SN74AS821	AMD	AM29C821	
SN74ALS244A-1	Signetics	74ALS244		SN74ALS620A-1	Mitsubishi	M74ALS620A-1		SN74ALS880B	TI	SN74ALS880		SN74AS822	TI	AM29C821A	
SN74ALS244A-1	TI	SN74ALS244A		SN74ALS620A-1	Motorola	SN74ALS620		SN74ALS880B	National	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS245A	Mitsubishi	M74ALS245A-1		SN74ALS623A	Motorola	SN74ALS623		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS245A-1	Motorola	SN74ALS245		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	Motorola	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS245A-1	Signetics	74ALS245		SN74ALS623A-1	Mitsubishi	M74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS245A-1	TI	SN74ALS245A-1		SN74ALS623A-1	Motorola	SN74ALS623		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS245A-1	Mitsubishi	M74ALS245A-1		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	Motorola	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS245A-1	Motorola	SN74ALS245		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS245A-1	Signetics	74ALS245		SN74ALS623A-1	Mitsubishi	M74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS245A-1	TI	SN74ALS245A-1		SN74ALS623A-1	Motorola	SN74ALS623		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS251	Mitsubishi	M74ALS251		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	Motorola	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS253	Motorola	DM74ALS251		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS253	Signetics	74ALS251		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS257	Mitsubishi	M74ALS253		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS257	Motorola	DM74ALS253		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS258	Signetics	74ALS253		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS27	Motorola	DM74ALS257		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS273	Signetics	74ALS257		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS273	Motorola	DM74ALS257		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS273	Signetics	74ALS257		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS28A	Motorola	DM74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS30	Signetics	74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS32	Motorola	DM74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS32	Signetics	74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS33A	Motorola	DM74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS352	Signetics	74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS353	Motorola	DM74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS37A	Signetics	74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS373	Motorola	DM74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS373	Signetics	74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS374	Motorola	DM74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS374	Signetics	74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS374	Motorola	DM74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS374	Signetics	74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS38A	Motorola	DM74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS40A	Signetics	74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS465A	Motorola	DM74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS466A	Signetics	74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS467A	Motorola	DM74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS468A	Signetics	74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS518	Motorola	DM74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS519	Signetics	74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS521	Motorola	DM74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS522	Signetics	74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS533	Motorola	DM74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
SN74ALS534	Signetics	74ALS273		SN74ALS623A-1	TI	SN74ALS623A-1		SN74ALS880B	TI	SN74ALS880		SN74AS823	AMD	AM29C823A	
			(Continued)				(Continued)				(Continued)				(Continued)

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				SN74F113	Motorola	ML74F113		SN74F299	National	74F299		SN74HCT04	Harris	CD74HCT04	
SN74BCT29833	AMD	AM29C833			National	74F113			Signetics	74F299			National	MM72HCT04	
		AM29C833A		SN74F114	Signetics	74F113		SN74F30	National	74F30			SGS-Thomson	M74HCT04	
		AM29833			National	74F114			Signetics	74F30				74HCT04	
SN74BCT29834	AMD	AM29C841		SN74F125	Signetics	74F125		SN74F323	Motorola	MC74F323			Signetics	TC74HCT04A	(3674)
		AM29834			National	74F125			National	74F323			Toshiba		
		AM29841		SN74F138	Motorola	MC74F138		SN74F350	Motorola	MC74F350		• SN74HCT125	Harris	CD74HCT125	
		SN74AS841			Signetics	74F138			National	74F350			Signetics	74HCT125	
		SN74BCT29841		SN74F151	Motorola	MC74F151		SN74F352	Motorola	MC74F352		• SN74HCT126	Harris	CD74HCT126	
					National	74F151			National	74F352			Signetics	74HCT126	
SN74BCT29841	AMD	AM29C841			Signetics	74F151			Signetics	74F352		SN74HCT137	Harris	CD74HCT137	
		AM29834		SN74F153	Motorola	MC74F153		SN74F353	Motorola	MC74F353			Marconi	74HCT137	
		AM29841			National	74F153			National	74F353			Plessey	MV74HCT137	
		SN74AS841			Signetics	74F153			Signetics	74F353			SGS-Thomson		
		SN74BCT29834		SN74F157	Motorola	MC74F157		SN74F373	Motorola	MC74F373			Signetics	M74HCT137	
					National	74F157			National	74F373			Toshiba	74HCT137	
SN74BCT29842	TI	SN54ALS29842		SN74F158	Motorola	MC74F158			Signetics	74F373				TC74HCT137A	(3674)
SN74BCT29843	AMD	AM29C843			National	74F158		SN74F374	Motorola	MC74F374		SN74HCT138	Harris	CD74HCT138	
		AM29843		SN74F160	Motorola	MC74F160			National	74F374			Marconi	74HCT138	
		SN54ALS29843			National	74F160			Signetics	74F374			National	MM74HCT138	
		SN74AS843			Signetics	74F160		SN74F377	TI	SN74BCT374			Plessey	MV74HCT138	
SN74BCT29844	TI	SN74AS844		SN74F161	Motorola	MC74F161			National	74F377			SGS-Thomson		
SN74BCT29845	TI	SN74AS845			National	74F161			Signetics	74F377			Signetics	M74HCT138	
SN74BCT29846	TI	SN74AS846		SN74F162	Motorola	MC74F162		SN74F378	Motorola	MC74F378			Toshiba	TC74HCT138A	(3674)
SN74BCT29853	AMD	AM29C853			Signetics	74F162			National	74F378		• SN74HCT189	AMD	AM27LS03	
		AM29C853A		SN74F163	Motorola	MC74F163			Signetics	74F378				AM27S03	
		AM29853			National	74F163		SN74F379	Motorola	MC74F379		• SN74HCT189	Cypress	CY27LS03M	
SN74BCT29861	AMD	AM29C861		SN74F168	Motorola	MC74F168			National	74F379				CY27S03	
					Signetics	74F168			Signetics	74F379				CY7C189	
SN74BCT29863	AMD	AM29C863		SN74F169	Motorola	MC74F169		SN74F381	Motorola	MC74F381		• SN74HCT189	National	CY74S189	
		AM29863			National	74F169			National	74F381				DM74S189	
SN74BCT373	Motorola	MC74F373		SN74F174	Motorola	MC74F174			Signetics	74F382				DM7599	
	Signetics	74F373			National	74F174		SN74F521	Motorola	MC74F521		SN74HCT237	Harris	CD74HCT237	
	TI	SN74F373		SN74F175	Motorola	MC74F175			Signetics	74F521			Plessey	MV74HCT237	
SN74BCT374	Motorola	MC74F374			Signetics	74F175		SN74F533	Motorola	MC74F533		SN74HCT238	Harris	CD74HCT238	
	National	74F374		SN74F20	Motorola	MC74F20			National	74F533			Marconi	74HCT238	
	Signetics	74F374			National	74F20			Signetics	74F533			Plessey	MV74HCT238	
	TI	SN74F374		SN74F21	Motorola	MC74F21		SN74F534	Motorola	MC74F534		SN74HCT240	Harris	CD74HCT240	
SN74BCT533	Motorola	MC74F533			Signetics	74F21			National	74F534			Hitachi	HD74HCT240	
	Signetics	74F533		SN74F240	Motorola	MC74F240		• SN74F537	National	74F537			Marconi	74HCT240	
	TI	SN74F533			National	74F240			Signetics	74F537			Motorola	MC74HCT240	
SN74BCT534	Motorola	MC74F534			Signetics	74F240		• SN74F538	National	74F538			National	MM74HCT240	
	National	74F534		SN74F241	Motorola	MC74F241			Signetics	74F538			Plessey	MV74HCT240	
	Signetics	74F534			National	74F241		• SN74F539	National	74F539			Samsung	74HCT240	
	TI	SN74F534			Signetics	74F241			Signetics	74F539			SGS-Thomson		
SN74BCT543	National	74F543		SN74F242	Motorola	MC74F242		SN74F540	National	74F540			Signetics	M74HCT240	
	Signetics	74F543			Signetics	74F242			Signetics	74F540			Toshiba	74HCT240	
	TI	SN74F543		SN74F243	Motorola	MC74F243		SN74F543	National	74F543		SN74HCT241	Harris	CD74HCT241	
SN74BCT544	National	74F544			National	74F243			Signetics	74F543			Hitachi	HD74HCT241	
	Signetics	74F544		SN74F244	Motorola	MC74F244		SN74F544	National	74F544			Marconi	74HCT241	
	TI	SN74F544			Signetics	74F244			Signetics	74F544			Motorola	MC74HCT241	
SN74BCT620	Motorola	MC74F620			National	74F244		SN74F563	National	74F563			National	MM74HCT241	
	National	74F620		SN74F245	Motorola	MC74F245			Signetics	74F563			Plessey	MV74HCT241	
	Signetics	74F620			Signetics	74F245		SN74F568	National	74F568			Samsung	74HCT241	
	TI	SN74F620			TI	SN74BCT244			Signetics	74F568			SGS-Thomson		
SN74BCT623	Motorola	MC74F623			National	74F245		SN74F569	National	74F569			Signetics	M74HCT241	
	National	74F623		SN74F251	Motorola	MC74F251			Signetics	74F569			Toshiba	74HCT241	
	Signetics	74F623			Signetics	74F251		SN74F573	National	74F573				TC74HCT241A	(3674)
	TI	SN74F623			TI	SN74BCT245			Signetics	74F573		SN74HCT242	Harris	CD74HCT242	
SN74BCT646	National	74F651	(3607)		National	74F251		SN74F620	Motorola	MC74F620			Hitachi	HD74HCT242	
	Signetics	74F651	(3607)	SN74F253	Motorola	MC74F253			National	74F620		SN74HCT243	Harris	CD74HCT243	
SN74BCT651	National	74F652	(3607)		Signetics	74F253			Signetics	74F620			Hitachi	74HCT243	
	Signetics	74F652	(3607)		National	74F253		SN74F621	Signetics	74F621			Signetics	74HCT243	
SN74F00	Motorola	MC74F00		SN74F257	Motorola	MC74F257		SN74F622	Signetics	74F622		SN74HCT244	Harris	CD74HCT244	
	National	74F00			Signetics	74F257			Motorola	MC74F623			Hitachi	HD74HCT244	
SN74F02	Motorola	MC74F02			National	74F257		SN74F623	Motorola	MC74F623			Marconi	74HCT244	
	National	74F02		SN74F258	Motorola	MC74F258			National	74F623			Motorola	MC74HCT244	
	Signetics	74F02			Signetics	74F258			Signetics	74F623			National	MM74HCT244	
SN74F04	Motorola	MC74F04			National	74F258		SN74F64	National	74F64			Plessey	MV74HCT244	
	National	74F04		SN74F27	Motorola	MC74F27			Signetics	74F64			Samsung	74HCT244	
	Signetics	74F04			Signetics	74F27		• SN74F653	Harris	CD74ACT151			SGS-Thomson		
SN74F109	Motorola	MC74F109		SN74F273	National	74F273			Motorola	MC74F653			Signetics	M74HCT244	
	National	74F109			Signetics	74F273			National	74F653			Toshiba	74HCT244	
	Signetics	74F109		SN74F280	Motorola	MC74F280		SN74F74	Motorola	MC74F74		SN74HCT245	Harris	CD74HCT245	
SN74F11	Motorola	MC74F11			National	74F280			National	74F74			Hitachi	HD74HCT245	
	National	74F11		SN74F283	Motorola	MC74F283		SN74F86	Signetics	74F86			Marconi	74HCT245	
	Signetics	74F11			National	74F283			National	74F86			Motorola	MC74HCT245	
SN74F112	Motorola	MC74F112			Signetics	74F283			Signetics	74F86			National	MM74HCT245	
	National	74F112													
	Signetics	74F112													

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
SN74HCT245	Plessey	MV74HCT245 MV74SC245	(3674)	SN74HCT564	Signetics	74HCT564		SN74HC02	Harris	CD74HC02		SN74HC123	Signetics	74HC123	(3674)
	SGS-Thomson	M74HCT245		SN74HCT573	Toshiba	TC74HCT564			Hitachi	HD74HC02			Toshiba	TC74HC123A	
	Signetics	74HCT245			Harris	CD74HCT573			Motorola	MC74HC02					
	Toshiba	TC74HCT245A			Marconi	74HCT573			National	MM74HC02					
SN74HCT273	Harris	CD74HCT273			National	MM74HCT573			SGS-Thomson	M74HC02		SN74HC125	Harris	CD74HC125	
	National	MM74HCT273			Plessey	MV74HCT573			Signetics	74HC02			Hitachi	HD74HC125	
	Signetics	74HCT273			SGS-Thomson				Toshiba	TC74HC02A	(3674)		Motorola	MC74HC125	
	Toshiba	TC74HCT273A		SN74HCT574	Signetics	M74HCT573		SN74HC03	Harris	CD74HC03			National	MM74HC125	
SN74HCT373	Harris	CD74HCT373			Toshiba	TC74HCT573			Motorola	MC74HC03			SGS-Thomson	M74HC125	
	Hitachi	HD74HCT373			Harris	CD74HCT574			National	MM74HC03			Signetics	74HC125	
	Marconi	74HCT373			Marconi	74HCT574			SGS-Thomson	M74HC03			Toshiba	TC74HC125A	(3674)
	Motorola	MC74HCT373			National	MM74HCT574			Signetics	74HC03		SN74HC132	Harris	CD74HC132	
	National	MM74HCT373			Plessey	MV74HCT574			Toshiba	TC74HC03A	(3674)		Hitachi	HD74HC132	
	Plessey	MV74HCT373			SGS-Thomson				Harris	CD74HC04			Motorola	MC74HC132	
	SGS-Thomson	MV74SC373			Signetics	M74HCT574		SN74HC04	Hitachi	HD74HC04			National	MM74HC132	
		M74HCT373			Toshiba	TC74HCT574			National	MM74HC04			SGS-Thomson	M74HC132	
	Signetics	74HCT373		SN74HCT620	SGS-Thomson	M74HCT620			Signetics	M74HC04			Signetics	74HC132	
	Toshiba	TC74HCT373A	(3674)		SN74HCT640	Harris	CD74HCT640		Toshiba	TC74HC04A	(3674)	SN74HC133	Motorola	MC74HC133	
SN74HCT374	Harris	CD74HCT374			Motorola	MC74HCT640			Motorola	MC74HC05			National	MM74HC133	
	Hitachi	HD74HCT374			National	MM74HCT640			Toshiba	TC74HC05A			SGS-Thomson	M74HC133	
	LinearTech	LTC1044			Signetics	M74HCT640		SN74HC08	Harris	CD74HC08			Toshiba	TC74HC133A	(3674)
	Marconi	74HCT374			Toshiba	TC74HCT640A	(3674)		Hitachi	HD74HC08					
	Motorola	MC74HCT374		SN74HCT643	Harris	CD74HCT643			Motorola	MC74HC08		SN74HC137	Harris	CD74HC137	
	National	MM74HCT374			SGS-Thomson				National	MM74HC08			Hitachi	HD74HC137	
	Plessey	MV74HCT374			Signetics	M74HCT643			Signetics	74HC08			Motorola	MC74HC137	
	SGS-Thomson	MV74SC374			Toshiba	TC74HCT643A	(3674)	SN74HC09	Hitachi	HD74HC09			National	MM74HC137	
		M74HCT374			Signetics	75HCT645			Toshiba	TC74HC09A			SGS-Thomson	M74HC137	
	Signetics	74HCT374		SN74HCT645	Signetics	75HCT645		SN74HC10	Harris	CD74HC10			Signetics	74HC137	
	Toshiba	TC74HCT374A	(3674)	SN74HCT646	Harris	CD74HCT646			Hitachi	HD74HC10			Toshiba	TC74HC137A	(3674)
SN74HCT377	Harris	CD74HCT377			SGS-Thomson	M74HCT646			Motorola	MC74HC10		SN74HC138	Harris	CD74HC138	
	Signetics	74HCT377			Signetics	74HCT646			National	MM74HC10			Hitachi	HD74HC138	
SN74HCT533	Harris	CD74HCT533			Toshiba	TC74HCT646A	(3674)		Signetics	M74HC10			Motorola	MC74HC138	
	Hitachi	HD74HCT533							Toshiba	TC74HC10A	(3674)		National	MM74HC138	
	Marconi	74HCT533		SN74HCT648	Harris	CD74HCT648		SN74HC107	Harris	CD74HC107			Signetics	74HC138	
	Motorola	MC74HCT533			SGS-Thomson				Hitachi	HD74HC107			Toshiba	TC74HC138A	(3674)
	National	MM74HCT533			Signetics	M74HCT648			Motorola	MC74HC107		SN74HC139	Harris	CD74HC139	
	Plessey	MV74HCT533			Toshiba	TC74HCT648A	(3674)		National	MM74HC107			Hitachi	HD74HC139	
	Signetics	74HCT533							Signetics	M74HC107			Motorola	MC74HC139	
	Toshiba	TC74HCT533A	(3674)	SN74HCT651	Harris	CD74HCT651			Toshiba	TC74HC107A	(3674)		National	MM74HC139	
SN74HCT534	Harris	CD74HCT534			SGS-Thomson	MC74HCT651		SN74HC109	Harris	CD74HC109			Signetics	M74HC139	
	Hitachi	HD74HCT534			Toshiba	TC74HCT651A	(3674)		Hitachi	HD74HC109			Toshiba	TC74HC139A	(3674)
	Marconi	74HCT534		SN74HCT652	Harris	CD74HCT652			Motorola	MC74HC109		SN74HC14	Harris	CD74HC14	
	Motorola	MC74HCT534			SGS-Thomson	MC74HCT652			National	MM74HC109			Hitachi	HD74HC14	
	National	MM74HCT534			Toshiba	TC74HCT652A	(3674)		Signetics	M74HC109			Motorola	MC74HC14	
	Plessey	MV74HCT534							Toshiba	TC74HC109A	(3674)		National	MM74HC14	
	Signetics	74HCT534		SN74HCT688	Harris	CD74HCT688		SN74HC11	Harris	CD74HC11			SGS-Thomson	M74HC14	
	Toshiba	TC74HCT534A	(3674)		National	MM74HCT688			Hitachi	HD74HC11		SN74HC147	Signetics	74HC147	
SN74HCT540	Harris	CD74HCT540			Signetics	74HCT688			Motorola	MC74HC11			Harris	CD74HC147	
	Marconi	74HCT540			Toshiba	TC74HCT688A	(3674)		National	MM74HC11			Hitachi	HD74HC147	
	Motorola	MC74HCT540		SN74HCT9510	AD	ADSP1010			Signetics	M74HC11			Motorola	MC74HC147	
	National	MM74HCT540				ADSP1010A	(3255)		Toshiba	TC74HC11A	(3674)		National	MM74HC147	
	Plessey	MV74HCT540			Cypress	CY7C510		SN74HC112	Harris	CD74HC112			SGS-Thomson	M74HC147	
	SGS-Thomson	M74HCT540			Harris	HMA510			Hitachi	HD74HC112		SN74HC148	Hitachi	HD74HC148	
	Signetics	74HCT540			Intel	IM29C510			Motorola	MC74HC112			SGS-Thomson	M74HC148	
	Toshiba	TC74HCT540A	(3674)		TRWLSI	TMC2210			National	MM74HC112			Toshiba	TC74HC148A	(3674)
SN74HCT541	Harris	CD74HCT541			Waferscale	WS59510	(3717)		Signetics	M74HC112		SN74HC151	Harris	CD74HC151	
	Marconi	74HCT541				WS59610			Toshiba	TC74HC112A	(3674)		Hitachi	HD74HC151	
	National	MM74HCT541		SN74HCT9510	Weitek	WTL1010			Hitachi	HD74HC113			Motorola	MC74HC151	
	Plessey	MV74HCT541				WTL2010		SN74HC113	Harris	CD74HC113			National	MM74HC151	
	SGS-Thomson	M74HCT541				WTL2245			Motorola	MC74HC113			SGS-Thomson	M74HC151	
	Signetics	74HCT541							National	MM74HC113			Signetics	74HC151	
	Toshiba	TC74HCT541A	(3674)	SN74HCU04	Harris	CD74HCU04			Signetics	M74HC113		SN74HC152	Hitachi	HD74HC152	
SN74HCT563	Harris	CD74HCT563			Motorola	MC74HCU04			Toshiba	TC74HC113A	(3674)	SN74HC153	Harris	CD74HC153	
	Marconi	74HCT563			National	MM74HCU04			Hitachi	HD74HC114			Hitachi	HD74HC153	
	National	MM74HCT563			SGS-Thomson				Motorola	MC74HC114			Motorola	MC74HC153	
	Plessey	MV74HCT563			Signetics	M74HCU04		SN74HC114	Hitachi	HD74HC114			National	MM74HC153	
	SGS-Thomson	M74HCT563			Toshiba	TC74HCU04A	(3674)	SN74HC123	Harris	CD74HC123			SGS-Thomson	M74HC153	
	Signetics	74HCT563							National	MM74HC123					
	Toshiba	TC74HCT563		SN74HC00	Harris	CD74HC00			Signetics	M74HC123					
	Harris	CD74HCT564			Hitachi	HD74HC00			Toshiba	TC74HC00A	(3674)				
	Marconi	74HCT564			Motorola	MC74HC00									
	Motorola	MC74HCT564			National	MM74HC00									
	National	MM74HCT564			SGS-Thomson										
	Plessey	MV74HCT564			Signetics	M74HC00									
	SGS-Thomson	M74HCT564			Toshiba	TC74HC00A	(3674)								
		(Continued)		SN74HC01	Hitachi	HD74HC01									

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)								(Cont'd)				(Cont'd)			
SN74HC153	Signetics Toshiba	74HC153 TC74HC153A	(3674)	SN74HC166	Harris National SGS-Thomson	CD74HC166 MM74HC166 M74HC166		SN74HC194	National SGS-Thomson	MM74HC194 M74HC194		SN74HC243	SGS-Thomson	M74HC243	
SN74HC154	Harris Hitachi Motorola National SGS-Thomson	CD74HC154 HD74HC154 MC74HC154 MM74HC154 M74HC154		SN74HC173	Harris Hitachi Motorola National SGS-Thomson	CD74HC173 HD74HC173 MC74HC173 MM74HC173 M74HC173		SN74HC195	Harris Hitachi Motorola National SGS-Thomson	CD74HC195 HD74HC195 MC74HC195 MM74HC195 M74HC195		SN74HC244	Hitachi Hitachi Motorola National SGS-Thomson	CD74HC244 HD74HC244 MC74HC244 MM74HC244 M74HC244	
SN74HC155	Motorola National SGS-Thomson	MC74HC155 MM74HC155 M74HC155		SN74HC174	Harris Hitachi Motorola National SGS-Thomson	CD74HC174 HD74HC174 MC74HC174 MM74HC174 M74HC174		SN74HC20	Harris Hitachi Motorola National SGS-Thomson	CD74HC20 HD74HC20 MC74HC20 MM74HC20 M74HC20		SN74HC245	Harris Hitachi Motorola National SGS-Thomson	CD74HC245 HD74HC245 MC74HC245 MM74HC245 M74HC245	
SN74HC157	Harris Hitachi Motorola National SGS-Thomson	CD74HC157 HD74HC157 MC74HC157 MM74HC157 M74HC157		SN74HC175	Harris Hitachi Motorola National SGS-Thomson	CD74HC175 HD74HC175 MC74HC175 MM74HC175 M74HC175		SN74HC21	Harris Hitachi Motorola National SGS-Thomson	CD74HC21 HD74HC21 MC74HC21 MM74HC21 M74HC21		SN74HC251	Harris Hitachi Motorola National SGS-Thomson	CD74HC251 HD74HC251 MC74HC251 MM74HC251 M74HC251	
SN74HC158	Harris Hitachi Motorola National SGS-Thomson	CD74HC158 HD74HC158 MC74HC158 MM74HC158 M74HC158		SN74HC181	Harris National SGS-Thomson	CD74HC181 MM74HC181 M74HC181		SN74HC219	AMD Cypress	AM27S07 CY7C190 DM75S07		SN74HC253	Harris Hitachi Motorola National SGS-Thomson	CD74HC253 HD74HC253 MC74HC253 MM74HC253 M74HC253	
SN74HC160	Harris Motorola National SGS-Thomson	CD74HC160 MC74HC160 MM74HC160 M74HC160		SN74HC182	Harris National SGS-Thomson	CD74HC182 MM74HC182 M74HC182		SN74HC221	Hitachi National	HD74HC221 MM74HC221A		SN74HC257	Harris Hitachi Motorola National SGS-Thomson	CD74HC257 HD74HC257 MC74HC257 MM74HC257 M74HC257	
SN74HC161	Harris Hitachi Motorola National SGS-Thomson	CD74HC161 HD74HC161 MC74HC161 MM74HC161 M74HC161		SN74HC189	AMD	AM27LS03 AM27S03 SN74S189		SN74HC237	Harris Motorola National SGS-Thomson	CD74HC237 MC74HC237 MM74HC237 M74HC237		SN74HC258	Harris Hitachi SGS-Thomson	CD74HC258 HD74HC258 M74HC258	
SN74HC162	Harris Hitachi Motorola National SGS-Thomson	CD74HC162 HD74HC162 MC74HC162 MM74HC162 M74HC162		SN74HC190	Harris Hitachi National SGS-Thomson	CD74HC190 HD74HC190 MM74HC190 M74HC190		SN74HC238	Harris Motorola National SGS-Thomson	CD74HC238 MC74HC238 MM74HC238 M74HC238		SN74HC259	Harris Hitachi Motorola National SGS-Thomson	CD74HC259 HD74HC259 MC74HC259 MM74HC259 M74HC259	
SN74HC163	Harris Hitachi Motorola National SGS-Thomson	CD74HC163 HD74HC163 MC74HC163 MM74HC163 M74HC163		SN74HC191	Harris Hitachi National SGS-Thomson	CD74HC191 HD74HC191 MM74HC191 M74HC191		SN74HC240	Harris Hitachi Motorola National SGS-Thomson	CD74HC240 HD74HC240 MC74HC240 MM74HC240 M74HC240		SN74HC266	Harris National SGS-Thomson	CD74HC266 MM74HC266 M74HC266	
SN74HC164	Harris Hitachi Motorola National SGS-Thomson	CD74HC164 HD74HC164 MC74HC164 MM74HC164 M74HC164		SN74HC192	Harris Hitachi National SGS-Thomson	CD74HC192 HD74HC192 MM74HC192 M74HC192		SN74HC241	Harris Hitachi Motorola National SGS-Thomson	CD74HC241 HD74HC241 MC74HC241 MM74HC241 M74HC241		SN74HC273	Harris Hitachi Marconi Motorola National SGS-Thomson	CD74HC273 HD74HC273 74HC273 MC74HC273 MM74HC273 M74HC273	
SN74HC165	Harris Hitachi Motorola National SGS-Thomson	CD74HC165 HD74HC165 MC74HC165 MM74HC165 M74HC165		SN74HC193	Harris Hitachi National SGS-Thomson	CD74HC193 HD74HC193 MM74HC193 M74HC193		SN74HC242	Harris Hitachi Motorola National SGS-Thomson	CD74HC242 HD74HC242 MC74HC242 MM74HC242 M74HC242		SN74HC280	Harris Hitachi Motorola National SGS-Thomson	CD74HC280 HD74HC280 MC74HC280 MM74HC280 M74HC280	

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
SN74HC280	Signetics Toshiba	74HC280 TC74HC280A	(3674)	SN74HC367	SGS-Thomson	M74HC367 74HC367 TC74HC367A	(3674)	SN74HC4024	National SGS-Thomson	MM74HC4024 74HC4024 TC74HC4024A	(3674)	SN74HC4511	Harris Motorola National SGS-Thomson	CD74HC4511 MC74HC4511 MM74HC4511	
SN74HC283	Harris National SGS-Thomson	CD74HC283 MM74HC283 M74HC283 74HC283 TC74HC283A	(3674)	SN74HC368	Harris Hitachi Motorola National SGS-Thomson	CD74HC368 HD74HC368 MC74HC368 MM74HC368 M74HC368 74HC368 TC74HC368A	(3674)	SN74HC4040	Harris Hitachi Motorola National SGS-Thomson	CD74HC4040 HD74HC4040 MC74HC4040 MM74HC4040 M74HC4040 74HC4040 TC74HC4040A	(3674)	SN74HC4514	Harris Hitachi Motorola National SGS-Thomson	CD74HC4514 HD74HC4514 MC74HC4514 MM74HC4514 M74HC4514 74HC4514 TC74HC4514A	(3674)
SN74HC298	Hitachi Motorola National SGS-Thomson	HD74HC298 MC74HC298 MM74HC298 M74HC298 TC74HC298A TC74HC298A	(3674)	SN74HC373	Harris Hitachi Motorola National SGS-Thomson	CD74HC373 HD74HC373 MC74HC373 MM74HC373 M74HC373 74HC373 TC74HC373A	(3674)	SN74HC4049	Harris Motorola National SGS-Thomson	CD74HC4049 MC74HC4049 MM74HC4049 M74HC4049 74HC4049 TC74HC4049A	(3674)	SN74HC4515	Harris National Signetics Toshiba	CD74HC4515 MM74HC4515 74HC4515 TC74HC4515A	(3674)
SN74HC299	Harris Motorola National SGS-Thomson	CD74HC299 MC74HC299 MM74HC299 M74HC299 74HC299 TC74HC299A	(3674)	SN74HC374	Harris Hitachi Motorola National SGS-Thomson	CD74HC374 HD74HC374 MC74HC374 MM74HC374 M74HC374 74HC374 TC74HC374A	(3674)	SN74HC4051	Harris Motorola National SGS-Thomson	CD74HC4051 MC74HC4051 MM74HC4051 M74HC4051 74HC4051 TC74HC4051A	(3674)	SN74HC4538	Harris Motorola National SGS-Thomson	CD74HC4538 MC74HC4538 MM74HC4538 M74HC4538 74HC4538 TC74HC4538A	(3674)
SN74HC30	Harris Hitachi Motorola National SGS-Thomson	CD74HC30 HD74HC30 MC74HC30 MM74HC30 M74HC30 74HC30 TC74HC30A	(3674)	SN74HC375	Hitachi SGS-Thomson	HD74HC375 M74HC375 TC74HC375A	(3674)	SN74HC4052	Harris Motorola National SGS-Thomson	CD74HC4052 MC74HC4052 MM74HC4052 M74HC4052 74HC4052 TC74HC4052A	(3674)	SN74HC490	Hitachi Harris Hitachi Motorola National SGS-Thomson	HD74HC490 CD74HC51 HD74HC51 MC74HC51 MM74HC51 M74HC51 74HC51 TC74HC51A	(3674)
SN74HC32	Harris Hitachi Motorola National SGS-Thomson	CD74HC32 HD74HC32 MC74HC32 MM74HC32 M74HC32 74HC32 TC74HC32A	(3674)	SN74HC377	Harris Hitachi Motorola SGS-Thomson	CD74HC377 HD74HC377 MC74HC377 M74HC377 74HC377 TC74HC377A	(3674)	SN74HC4053	Harris Motorola National SGS-Thomson	CD74HC4053 MC74HC4053 MM74HC4053 M74HC4053 74HC4053 TC74HC4053A	(3674)	SN74HC533	Hitachi Harris Hitachi Motorola National SGS-Thomson	HD74HC533 CD74HC533 MC74HC533 MM74HC533 M74HC533 74HC533 TC74HC533A	(3674)
SN74HC323	Motorola National SGS-Thomson	MC74HC323 MM74HC323 M74HC323 TC74HC323A	(3674)	SN74HC386	SGS-Thomson	M74HC386 TC74HC386A	(3674)	SN74HC4060	Harris Motorola National SGS-Thomson	CD74HC4060 MC74HC4060 MM74HC4060 M74HC4060 74HC4060 TC74HC4060A	(3674)	SN74HC534	Harris Hitachi Motorola National SGS-Thomson	CD74HC534 HD74HC534 MC74HC534 MM74HC534 M74HC534 74HC534 TC74HC534A	(3674)
SN74HC352	Toshiba	TC74HC352A		SN74HC390	Harris Hitachi Motorola National SGS-Thomson	CD74HC390 HD74HC390 MC74HC390 MM74HC390 M74HC390 74HC390 TC74HC390A	(3674)	SN74HC4066	Harris Motorola National SGS-Thomson	CD74HC4066 MC74HC4066 MM74HC4066 M74HC4066 74HC4066 TC74HC4066A	(3674)	SN74HC540	Harris Hitachi Motorola National SGS-Thomson	CD74HC540 HD74HC540 MC74HC540 MM74HC540 M74HC540 74HC540 TC74HC540A	(3674)
SN74HC353	Toshiba	TC74HC353A	(3674)	SN74HC393	Harris Hitachi Motorola National SGS-Thomson	CD74HC393 HD74HC393 MC74HC393 MM74HC393 M74HC393 74HC393 TC74HC393A	(3674)	SN74HC4075	Cypress Harris Motorola National Panasonic SGS-Thomson	CY7C167A CD74HC4075 MC74HC4075 MM74HC4075 MM74HC4075 LH5167 74HC4075 TC74HC4075A	(3674)	SN74HC541	Harris Hitachi Motorola National SGS-Thomson	CD74HC541 HD74HC541 MC74HC541 MM74HC541 M74HC541 74HC541 TC74HC541A	(3674)
SN74HC354	Harris Hitachi Motorola National SGS-Thomson	CD74HC354 HD74HC354 MC74HC354 MM74HC354 M74HC354 74HC354 TC74HC354A	(3674)	SN74HC4002	Harris Motorola National SGS-Thomson	CD74HC4002 MC74HC4002 MM74HC4002 M74HC4002 74HC4002 TC74HC4002A	(3674)	SN74HC4078A	Motorola National SGS-Thomson	MC74HC4078 MM74HC4078 M74HC4078 TC74HC4078A	(3674)	SN74HC563	Harris Hitachi Motorola National SGS-Thomson	CD74HC563 HD74HC563 MC74HC563 MM74HC563 M74HC563 74HC563 TC74HC563A	(3674)
SN74HC356	Harris Hitachi National SGS-Thomson	CD74HC356 HD74HC356 MM74HC356 M74HC356 74HC356 TC74HC356A	(3674)	SN74HC4017	Harris Motorola National SGS-Thomson	CD74HC4017 MC74HC4017 MM74HC4017 M74HC4017 74HC4017 TC74HC4017A	(3674)	SN74HC42	Harris Hitachi Motorola National SGS-Thomson	CD74HC42 HD74HC42 MC74HC42 MM74HC42 M74HC42 74HC42 TC74HC42A	(3674)	SN74HC564	Harris Hitachi Motorola National SGS-Thomson	CD74HC564 HD74HC564 MC74HC564 MM74HC564 M74HC564 74HC564 TC74HC564A	(3674)
SN74HC365	Harris Hitachi Motorola National SGS-Thomson	CD74HC365 HD74HC365 MC74HC365 MM74HC365 M74HC365 74HC365 TC74HC365A	(3674)	SN74HC4020	Harris Hitachi Motorola National SGS-Thomson	CD74HC4020 HD74HC4020 MC74HC4020 MM74HC4020 M74HC4020 74HC4020 TC74HC4020A	(3674)	SN74HC423	Hitachi National Toshiba	HD74HC423 MM74HC423A TC74HC423A	(3674)				
SN74HC367	Harris Hitachi Motorola National	CD74HC367 HD74HC367 MC74HC367 MM74HC367	(Continued)	SN74HC4024	Harris Hitachi Motorola	CD74HC4024 HD74HC4024 MC74HC4024	(Continued)								

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				SN74HC648	Harris	CD74HC648		SN74HC76	Harris	CD74HC76		SN74LS04	National	DM74LS04	(Cont'd)
SN74HC573	Harris	CD74HC573		Motorola	MC74HC648			Hitachi	HD74HC76			74LS04			
	Hitachi	HD74HC573		National	MM74HC648			Motorola	MC74HC76			Panasonic	DM74LS04		
	Motorola	MC74HC573		SGS-Thomson				National	MM74HC76			SGS-Thomson			
	National	MM74HC573			Signetics	M74HC648									
	SGS-Thomson				Toshiba	TC74HC648A	(3674)		SGS-Thomson	M74HC76					
		M74HC573		SN74HC651	Harris	CD74HC651		SN74HC77	Toshiba	TC74HC76A (3674)		SN74LS05	Signetics	T74LS04	
	Signetics	74HC573		SGS-Thomson					Hitachi	HD74HC77			Hitachi	HD74LS05	
	Toshiba	TC74HC573A	(3674)			M74HC651			National	MM74HC77			Motorola	SN74LS05	
SN74HC574	Harris	CD74HC574			Toshiba	TC74HC651A	(3674)						National	DM74LS05	
	Hitachi	HD74HC574		SN74HC652	Harris	CD74HC652		SN74HC78	Toshiba	TC74HC77A (3674)			Panasonic	DN74LS05	
	Motorola	MC74HC574		SGS-Thomson				SN74HC85	Hitachi	HD74HC78			SGS-Thomson		
	National	MM74HC574				M74HC652			Harris	CD74HC85		SN74LS08	Signetics	T74LS05	
	SGS-Thomson				Toshiba	TC74HC652A	(3674)		Motorola	MC74HC85			Hitachi	HD74LS08	
		M74HC574							National	MM74HC85			Motorola	SN74LS08	
	Signetics	74HC574		SN74HC670	Harris	CD74HC670			SGS-Thomson				National	DM74LS08	
	Toshiba	TC74HC574A	(3674)		SGS-Thomson										
SN74HC58	Motorola	MC74HC58				M74HC670		SN74HC86	Signetics	M74HC85			Panasonic	DN74LS08	
SN74HC589	National	MM74HC58			Signetics	74HC670			74HC85				SGS-Thomson		
	Motorola	MC74HC589			Toshiba	TC74HC670A	(3674)		Toshiba	TC74HC85A (3674)					
	National	MM74HC589		SN74HC688	Harris	CD74HC688			Harris	CD74HC86		SN74LS09	Signetics	T74LS08	
SN74HC590	Hitachi	HD74HC590			Motorola	MC74HC688			Hitachi	HD74HC86			Hitachi	HD74LS09	
	National	MM74HC590			National	MM74HC688			Motorola	MC74HC86			Motorola	SN74LS09	
	SGS-Thomson				SGS-Thomson				National	MM74HC86			National	DM74LS09	
		M74HC590				M74HC688									
	Toshiba	TC74HC590A	(3674)		Signetics	74HC688		SN74H00	Signetics	M74HC86			Panasonic	DN74LS09	
SN74HC592	Hitachi	HD74HC592			Toshiba	TC74HC688A	(3674)		Toshiba	TC74HC86A (3674)			SGS-Thomson		
	National	MM74HC592		SN74HC690	SGS-Thomson			SN74H01	Lansdale	ML74H00		SN74LS10	Hitachi	T74LS09	
	Toshiba	TC74HC592 (3674)				M74HC690			Lansdale	ML74H01			Hitachi	HD74LS10	
SN74HC593	Hitachi	HD74HC593			Toshiba	TC74HC690A	(3674)			ML74H01			Motorola	SN74LS10	
	National	MM74HC593		SN74HC691	SGS-Thomson				National	DM74H01			National	DM74LS10	
	Toshiba	TC74HC593A				M74HC691			Lansdale	ML74H01					
SN74HC595	Hitachi	HD74HC595			Toshiba	TC74HC691A	(3674)			ML74H01			Panasonic	DN74LS10	
	LogicDev	L7C164		SN74HC692	SGS-Thomson					DM74H01			SGS-Thomson		
	Motorola	MC74HC595				M74HC692		SN74H10	Lansdale	ML74H10		SN74LS109A	Signetics	T74LS10	
	SGS-Thomson				Toshiba	TC74HC692A	(3674)			ML74H10			Hitachi	HD74LS109	
		M74HC595							Lansdale	ML74H103			Motorola	SN74LS109	
	Toshiba	TC74HC595A	(3674)	SN74HC693	SGS-Thomson				Lansdale	ML74H11			National	DM74LS109	
		V61C62				M74HC693				ML74H20					
	VLSI Tech	CT64K54			Toshiba	TC74HC693A	(3674)			ML74H22			Panasonic	DN74LS109	
	Harris	CD74HC597		SN74HC696	SGS-Thomson					ML74H30			Signetics	T74LS109	
	Hitachi	HD74HC597				M74HC696				ML74H40		SN74LS11	Hitachi	HD74LS11	
	Motorola	MC74HC597			Toshiba	TC74HC696A	(3674)			ML74H40			Motorola	SN74LS11	
	National	MM74HC597								ML74H50			National	DM74LS11	
	SGS-Thomson			SN74HC697	SGS-Thomson					ML74H51					
		M74HC597				M74HC697				ML74H52					
	Signetics	74HC597			Toshiba	TC74HC697A	(3674)			ML3032	(3514)		Panasonic	DN74LS11	
	Toshiba	TC74HC597A	(3674)	SN74HC698	SGS-Thomson					ML74H53			SGS-Thomson		
SN74HC620	Hitachi	HD74HC620				M74HC698				ML74H54					
	National	MM74HC620			Toshiba	TC74HC698A	(3674)			ML74H55		SN74LS112	Signetics	T74LS11	
	SGS-Thomson			SN74HC699	SGS-Thomson					ML74H60			Hitachi	HD74LS112	
		M74HC620				M74HC699				74H60			Motorola	SN74LS112A	
	Toshiba	TC74HC620A	(3674)		Toshiba	TC74HC699A	(3674)			ML74H71			National	DM74LS112	
SN74HC623	Hitachi	HD74HC623								74H71					
	National	MM74HC623		SN74HC726	Harris	CD74HC726				ML74H72		SN74LS112	Panasonic	DN74LS112	
	SGS-Thomson				Motorola	MC74HC726				ML74H73			SGS-Thomson		
		M74HC623			National	MM74HC726				ML3060	(3514)				
	Toshiba	TC74HC623A	(3674)		SGS-Thomson					ML74H74			Signetics	T74LS112	
SN74HC640	Harris	CD74HC640				M74HC726		SN74LS00	Hitachi	ML74H74			TI	SN74LS112A	
	Hitachi	HD74HC640			Toshiba	TC74HC726A	(3674)		Motorola	HD74LS00		SN74LS112A	Hitachi	HD74LS112	
	Motorola	MC74HC640							National	SN74LS00			Motorola	SN74LS112A	
	National	MM74HC640								74LS00			National	DM74LS112	
	SGS-Thomson			SN74HC73	Harris	CD74HC73				DN74LS00					
		M74HC640			Hitachi	HD74HC73							Panasonic	DN74LS112	
	Signetics	74HC640			Motorola	MC74HC73							SGS-Thomson		
	Toshiba	TC74HC640A	(3674)		National	MM74HC73		SN74LS01	Hitachi	HD74LS01		SN74LS113	Signetics	T74LS112	
SN74HC643	Harris	CD74HC643			SGS-Thomson				Motorola	SN74LS01			Hitachi	HD74LS113	
	Hitachi	HD74HC643				M74HC73			National	74LS01			Motorola	SN74LS113A	
	National	MM74HC643				74HC73			Panasonic	DN74LS01			National	DM74LS113	
	SGS-Thomson			SN74HC74	Harris	CD74HC74							Panasonic	DN74LS113	
		M74HC643			Hitachi	HD74HC74							SGS-Thomson		
	Signetics	74HC643			Motorola	MC74HC74		SN74LS02	Hitachi	HD74LS02			Signetics	T74LS113	
	Toshiba	TC74HC643A	(3674)		National	MM74HC74			Motorola	SN74LS02		SN74LS113A	TI	SN74LS113A	
SN74HC645	Harris	CD74HC645			SGS-Thomson				National	DM74LS02			Hitachi	HD74LS113	
	National	MM74HC645				M74HC74				74LS02			Motorola	SN74LS113A	
SN74HC646	Harris	CD74HC646				74HC74				DN74LS02			National	DM74LS113	
	Motorola	MC74HC646				TC74HC74A (3674)							Panasonic	DN74LS113	
	National	MM74HC646											SGS-Thomson		
	SGS-Thomson			SN74HC75	Harris	CD74HC75									
		M74HC646			Hitachi	HD74HC75							Signetics	T74LS114	
	Signetics	74HC646			Motorola	MC74HC75		SN74LS03	Hitachi	HD74LS03		SN74LS114A	Hitachi	HD74LS114	
	Toshiba	TC74HC646A	(3674)		National	MM74HC75			National	DM74LS03			Motorola	SN74LS114A	
					SGS-Thomson					74LS03			National	DM74LS114	
						M74HC75				DN74LS03			Panasonic	DN74LS114	
						74HC75		SN74LS04	Hitachi	HD74LS04			SGS-Thomson		
						TC74HC75A (3674)	(Continued)		Motorola	SN74LS04					

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				SN74LS147	Motorola	SN74LS147		SN74LS162A	Panasonic	DN74LS162A	(Cont'd)	SN74LS191	Panasonic	DN74LS191	(Cont'd)
SN74LS12	National	DM74LS12	(Cont'd)	SN74LS148	Hitachi	HD74LS148			SGS-Thomson	T74LS162			SGS-Thomson	T74LS191	
	Panasonic	DN74LS12			Motorola	SN74LS148		• SN74LS163	Signetics	74LS162A		SN74LS192	Signetics	74LS191	
	SGS-Thomson	T74LS12		SN74LS15	Motorola	SN74LS15		• SN74LS163	Hitachi	HD74LS163			Hitachi	HD74LS192	
SN74LS122	Motorola	SN74LS122			National	DM74LS15			Motorola	HD74LS163A			Motorola	SN74LS192	
	National	DM74LS122			Panasonic	DN74LS15			National	DM74LS163			National	DM74LS192	
SN74LS123	Hitachi	HD74LS123		SN74LS151	Hitachi	T74LS151		• SN74LS163	Panasonic	DN74LS163A			SGS-Thomson	DN74LS192	
	Motorola	SN74LS123			Motorola	HD74LS151			SGS-Thomson	T74LS163		SN74LS193	Signetics	74LS192	
	National	DM74LS123			National	DM74LS151			Signetics	74LS163A			Hitachi	HD74LS193	
• SN74LS125	Panasonic	DN74LS125A			Motorola	SN74LS151		SN74LS163A	TI	SN74LS163A			Motorola	SN74LS193	
	Motorola	SN74LS125A			National	74LS151			Hitachi	HD74LS163			National	DM74LS193	
	National	DM74LS125			Panasonic	DN74LS151			Motorola	HD74LS163A			Panasonic	DN74LS193	
• SN74LS125	Panasonic	DN74LS125A			SGS-Thomson	T74LS151			National	DM74LS163			SGS-Thomson	T74LS193	
	SGS-Thomson	T74LS125		SN74LS152	Hitachi	HD74LS152			Panasonic	DN74LS163A		SN74LS194	Signetics	74LS193	
	Signetics	74LS125A			SGS-Thomson	T74LS152			SGS-Thomson	T74LS163			Hitachi	HD74LS194A	
SN74LS125A	Motorola	SN74LS125A			Signetics	74LS152		SN74LS164	Signetics	74LS163A			Motorola	SN74LS194A	
	National	DM74LS125		SN74LS153	Hitachi	HD74LS153			Hitachi	HD74LS164			National	DM74LS194	
	National	74LS125A			Motorola	SN74LS153			Motorola	SN74LS164A			Panasonic	DN74LS194A	
	Panasonic	DN74LS125A			National	DM74LS153			National	DM74LS164			SGS-Thomson	T74LS194A	
	SGS-Thomson	T74LS125			Panasonic	DN74LS153				74LS164		SN74LS195A	Signetics	74LS194A	
• SN74LS126	Signetics	74LS125A			SGS-Thomson	T74LS153			Panasonic	DN74LS164			GoldStar	GL7924	
	Motorola	SN74LS126A			Signetics	74LS153		SN74LS165A	Signetics	74LS164			Hitachi	HD74LS195A	
	National	DM74LS126		SN74LS155A	Hitachi	HD74LS155			Motorola	SN74LS165			Motorola	MC7924	
• SN74LS126	SGS-Thomson	74LS126			Motorola	SN74LS155			National	74LS165				MC7924	
	Signetics	74LS126A			National	DM74LS155			SGS-Thomson	T74LS165			National	SN74LS195A	
	TI	SN74LS126A			Panasonic	DN74LS155				74LS165			µA7924	DM74LS195	
SN74LS126A	Motorola	SN74LS126A			SGS-Thomson	T74LS155		SN74LS166A	Motorola	SN74LS166				LM7924	
	National	DM74LS126			Signetics	74LS155			National	DM74LS166			Panasonic	74LS195A	
	SGS-Thomson	74LS126		SN74LS156	Hitachi	HD74LS156			SGS-Thomson	T74LS166			Samsung	MC7924C	
	Signetics	74LS126A			Motorola	SN74LS156		SN74LS169	Motorola	SN74LS169				L7924	
SN74LS13	Hitachi	HD74LS13			National	DM74LS156			National	DM74LS169		SN74LS196	TI	74LS195A	
	Motorola	SN74LS13			Panasonic	DN74LS156			SGS-Thomson	74LS169			Toshiba	TA7902A	
	National	DM74LS13			SGS-Thomson	T74LS156				T74LS169			Motorola	SN74LS196	
	Panasonic	DN74LS13			Signetics	74LS156		SN74LS170	Signetics	74LS169A			National	DM74LS196	
	SGS-Thomson	T74LS13		SN74LS157	Hitachi	HD74LS157			Motorola	SN74LS170			Panasonic	DN74LS196	
	Signetics	74LS13			Motorola	SN74LS157			National	DM74LS170			SGS-Thomson	74LS196	
SN74LS132	Hitachi	HD74LS132			National	DM74LS157				74LS170				T74LS196	
	Motorola	SN74LS132			Panasonic	DN74LS157		SN74LS173A	Panasonic	DN74LS170			Signetics	N82S80	
	National	DM74LS132			SGS-Thomson	T74LS157			SGS-Thomson	T74LS170		SN74LS197	Motorola	SN74LS197	
	Panasonic	DN74LS132			Signetics	74LS157			Motorola	SN74LS173A			National	DM74LS197	
	SGS-Thomson	T74LS132		SN74LS158	Hitachi	HD74LS158			National	DM74LS173			Panasonic	74LS197	
	Signetics	74LS132			Motorola	SN74LS158			Panasonic	DN74LS173			SGS-Thomson	T74LS197	
SN74LS136	Hitachi	HD74LS136			National	DM74LS158		SN74LS174	Signetics	74LS173			Signetics	74LS197	
	Motorola	SN74LS136			Panasonic	DN74LS158			Hitachi	HD74LS174		SN74LS20	Hitachi	HD74LS20	
	National	DM74LS136			SGS-Thomson	T74LS158			Motorola	SN74LS174			Motorola	SN74LS20	
	Panasonic	DN74LS136			Signetics	74LS158			National	DM74LS174			National	DM74LS20	
	SGS-Thomson	T74LS136		SN74LS160A	Hitachi	HD74LS160A				74LS174			Panasonic	DN74LS20	
	Signetics	74LS136			Motorola	SN74LS160A			Panasonic	DN74LS174			SGS-Thomson	T74LS20	
SN74LS137	Motorola	SN74LS137			National	DM74LS160		SN74LS175	Signetics	74LS174			Signetics	74LS20	
SN74LS138	Hitachi	HD74LS138			Panasonic	DN74LS160A			Hitachi	HD74LS175		SN74LS21	Hitachi	HD74LS21	
	Motorola	SN74LS138			SGS-Thomson	T74LS160			Motorola	SN74LS175			Motorola	SN74LS21	
	National	DM74LS138			Signetics	74LS160			National	74LS175			National	DM74LS21	
	Panasonic	DN74LS138			Hitachi	HD74LS161A			Panasonic	DN74LS175			Panasonic	DN74LS21	
	SGS-Thomson	T74LS138		SN74LS161A	Motorola	SN74LS161A			SGS-Thomson	T74LS175		• SN74LS22	Signetics	T74LS21	
	Signetics	74LS138			National	DM74LS161		SN74LS181	Signetics	74LS175			Hitachi	HD74LS22	
SN74LS139A	Hitachi	HD74LS139			Panasonic	DN74LS161A			Hitachi	HD74LS181			Motorola	SN74LS22	
	Motorola	SN74LS139			SGS-Thomson	T74LS161			Motorola	SN74LS181			National	DM74LS22	
	National	DM74LS139			Signetics	74LS161A		• SN74LS189	National	DM74LS189			Panasonic	DN74LS22	
	Panasonic	DN74LS139		• SN74LS162	Hitachi	HD74LS162A		• SN74LS189A	National	DM74LS189			SGS-Thomson	T74LS22	
	SGS-Thomson	T74LS139			Motorola	SN74LS162A		SN74LS190	Hitachi	HD74LS190				HD74LS221	
	Signetics	74LS139			National	DM74LS162			Motorola	SN74LS190			National	DM74LS221	
SN74LS14	Hitachi	HD74LS14		• SN74LS162	Panasonic	DN74LS162A			National	DM74LS190				74LS221	
	Motorola	SN74LS14			SGS-Thomson	T74LS162			Motorola	SN74LS190		SN74LS240	Hitachi	HD74LS240	
	National	DM74LS14			Signetics	74LS162A			Panasonic	DN74LS190			Motorola	SN74LS240	
	Panasonic	DN74LS14			TI	SN74LS162A			SGS-Thomson	T74LS190			National	74LS240	
	SGS-Thomson	T74LS14		SN74LS162A	Hitachi	HD74LS162A		SN74LS191	Hitachi	HD74LS191			Panasonic	DN74LS240	
	Signetics	74LS14			Motorola	SN74LS162A			Motorola	SN74LS191		SN74LS241	Signetics	74LS240	
SN74LS145	Motorola	SN74LS145			National	DM74LS162			National	DM74LS191			Hitachi	HD74LS241	
	Panasonic	DN74LS145				74LS162				74LS191			Motorola	SN74LS241	

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
SN74LS241	National	74LS241	SGS-Thomson	SN74LS258B	National	DM74LS258	(Cont'd)	SN74LS298	Hitachi	HD74LS298	Motorola	SN74LS373	SGS-Thomson	T74LS373	(Cont'd)
	Panasonic	DN74LS241			Panasonic	DN74LS258A			Motorola	SN74LS298			Signetics	74LS373	
	SGS-Thomson	T74LS241	Motorola		SGS-Thomson	T74LS258	Motorola		SGS-Thomson	T74LS298	National	SN74LS374	Motorola	SN74LS374	National
	Signetics	74LS241			Signetics	74LS258			Signetics	74LS298			National	DM74LS374	
SN74LS242	Motorola	SN74LS242	National	SN74LS259B	Motorola	SN74LS259	SGS-Thomson	SN74LS299	Motorola	SN74LS299	National		SGS-Thomson	T74LS374	Motorola
	National	74LS242			National	74LS259			SGS-Thomson	74LS299			Signetics	74LS374	
	Signetics	74LS242	Motorola		SGS-Thomson	T74LS259	Hitachi	SN74LS30	Hitachi	HD74LS30	Motorola	SN74LS375	Motorola	SN74LS375	National
	Motorola	SN74LS243			Signetics	74LS259			Motorola	SN74LS30			National	74LS375	
SN74LS243	National	74LS243A	Signetics	SN74LS26	Hitachi	HD74LS26	Motorola		National	SN74LS30	National	SN74LS377	Motorola	SN74LS377	National
	Signetics	74LS243			Motorola	SN74LS26			Panasonic	DN74LS30			SGS-Thomson	74LS377	
SN74LS244	Hitachi	HD74LS244	Motorola		Panasonic	DN74LS26	SGS-Thomson		SGS-Thomson	T74LS30	Signetics		Signetics	T74LS377	Motorola
	Motorola	SN74LS244			SGS-Thomson	T74LS26			Signetics	74LS30		SN74LS378	Motorola	SN74LS378	
	National	74LS244	Panasonic		Signetics	74LS26	SGS-Thomson		Motorola	SN74LS32	National		National	74LS378	SGS-Thomson
	Panasonic	DN74LS244			SGS-Thomson	DN74LS260			SGS-Thomson	DM74LS32			SGS-Thomson	74LS378	
	SGS-Thomson	T74LS244	Signetics	SN74LS260	Panasonic	DN74LS260	SGS-Thomson		Signetics	T74LS32	Motorola		Signetics	74LS378	Motorola
	Signetics	74LS244			SGS-Thomson	T74LS260			Motorola	SN74LS322	National	SN74LS379	Motorola	SN74LS379	
SN74LS245	Motorola	SN74LS245	National		Signetics	T74LS260	Lansdale	SN74LS322	Signetics	T74LS32	TI		SGS-Thomson	74LS379	Hitachi
	National	DM74LS245			Motorola	ML8242			Motorola	SN74LS322			National	74LS379	
	SGS-Thomson	T74LS245	Signetics	SN74LS266	Motorola	SN74LS266	National		National	74LS322	Motorola		SGS-Thomson	74LS379	Hitachi
	Signetics	74LS245			National	DM74LS266			TI	SN74LS322A	National	SN74LS38	Hitachi	HD74LS38	Motorola
SN74LS247	Hitachi	HD74LS247	Motorola		Panasonic	SN74LS266	SGS-Thomson	SN74LS322A	Motorola	SN74LS322			Motorola	SN74LS38	
	Motorola	SN74LS247			SGS-Thomson	DM74LS266		SN74LS323	Motorola	SN74LS323	National		National	DM74LS38	Panasonic
	National	DM74LS247	Hitachi		Signetics	T74LS266	Hitachi		National	54LS323				74LS38	
	Hitachi	HD74LS248			Hitachi	74LS266	Motorola		TI	SN54LS323	Motorola		SGS-Thomson	DN74LS38	Hitachi
SN74LS248	Motorola	SN74LS248	National	SN74LS27	Motorola	HD74LS27	National		Motorola	SN74LS33			Signetics	74LS38	
	National	74LS248			National	DM74LS27	Panasonic	SN74LS33	National	74LS33	SGS-Thomson	SN74LS386A	Hitachi	HD74LS386	Motorola
	SGS-Thomson	T74LS248	Hitachi		Panasonic	DN74LS27			Panasonic	DN74LS33			Motorola	SN74LS386	
SN74LS248	Hitachi	HD74LS249			SGS-Thomson	T74LS27	Signetics		Signetics	74LS33	Motorola		National	DM74LS386	Panasonic
SN74LS249	Motorola	SN74LS249	National		Motorola	74LS27		SN74LS352	Motorola	SN74LS352			Panasonic	DN74LS386	
	National	DM74LS249			National	SN74LS273	SGS-Thomson		National	DM74LS352	SGS-Thomson	SN74LS390	Motorola	SN74LS390	Motorola
	SGS-Thomson	74LS249	Hitachi	SN74LS273	Motorola	74LS273			SGS-Thomson	74LS352			Panasonic	DN74LS390	
SN74LS249	Hitachi	HD74LS251			National	74LS273	Signetics		Motorola	T74LS352	National		SGS-Thomson	74LS390	Motorola
SN74LS251	Motorola	SN74LS251	National		Hitachi	HD74LS279		SN74LS353	Motorola	SN74LS353			National	SN74LS393	
	National	DM74LS251			Motorola	SN74LS279	National		National	DM74LS353	SGS-Thomson		Panasonic	DN74LS393	Signetics
	Panasonic	DN74LS251	SGS-Thomson		National	DM74LS279			SGS-Thomson	74LS353			SGS-Thomson	74LS393	
	SGS-Thomson	T74LS251			Panasonic	DN74LS279	SGS-Thomson		Motorola	T74LS353	National	SN74LS395A	National	DM74LS395	Panasonic
	Signetics	74LS251	Hitachi		SGS-Thomson	T74LS279		SN74LS365A	Motorola	SN74LS365A			Motorola	74LS395	
SN74LS253	Hitachi	HD74LS253			Signetics	74LS279	Motorola		National	DM74LS365	Panasonic		SGS-Thomson	DN74LS395A	Signetics
	Motorola	SN74LS253	National		Motorola	SN74LS28			SGS-Thomson	74LS365A			Signetics	74LS395	
	National	DM74LS253			National	74LS28	SGS-Thomson		Signetics	T74LS365	Motorola	SN74LS398	Motorola	SN74LS398	SGS-Thomson
	Panasonic	DN74LS253	SGS-Thomson		SGS-Thomson	T74LS28			Motorola	SN74LS366A			SGS-Thomson	74LS398	
	SGS-Thomson	T74LS253		SN74LS280	Hitachi	HD74LS280	Motorola	SN74LS366A	Motorola	SN74LS366A	National		Motorola	SN74LS399	Motorola
SN74LS256	Signetics	74LS253	Motorola		Motorola	SN74LS280			National	DM74LS366			SGS-Thomson	74LS399	
	Motorola	SN74LS256			Panasonic	DN74LS280	SGS-Thomson		Panasonic	DN74LS366A	SGS-Thomson	SN74LS40	Hitachi	HD74LS40	Motorola
	National	74LS256	SGS-Thomson		SGS-Thomson	T74LS280			SGS-Thomson	T74LS366			National	SN74LS40	
	SGS-Thomson	T74LS256		SN74LS283	Hitachi	HD74LS283	Motorola		Signetics	T74LS366A	Hitachi		Motorola	DM74LS40	Panasonic
SN74LS257A	Signetics	74LS256	Hitachi		Motorola	SN74LS283			Motorola	SN74LS367A			SGS-Thomson	74LS40	
	Hitachi	HD74LS257			National	DM74LS283	Panasonic	SN74LS367A	Hitachi	HD74LS367A	Motorola		SGS-Thomson	74LS40	Hitachi
	Motorola	SN74LS257A	National		Panasonic	DN74LS283			Motorola	SN74LS367A			Motorola	HD74LS42	
	National	DM74LS257			SGS-Thomson	T74LS283	Signetics		National	DM74LS367	Panasonic	SN74LS42	Hitachi	HD74LS42	Motorola
SN74LS257A	SGS-Thomson	74LS257A	Hitachi		Hitachi	HD74LS290			Panasonic	DN74LS367A			National	SN74LS42	
	Signetics	T74LS257			Motorola	SN74LS290	National	SN74LS368A	Hitachi	HD74LS368	Motorola		Panasonic	DM74LS42	SGS-Thomson
SN74LS257A	TI	SN74LS257B	Hitachi	SN74LS290	Motorola	SN74LS290			Motorola	SN74LS368A			SGS-Thomson	74LS42	
SN74LS257B	Motorola	SN74LS257A			National	DM74LS290	Panasonic		National	DM74LS368	National	SN74LS47	Hitachi	HD74LS47	Motorola
	National	DM74LS257	SGS-Thomson		SGS-Thomson	74LS290			SGS-Thomson	74LS368A			Motorola	SN74LS47	
	SGS-Thomson	74LS257A			Signetics	74LS290	Hitachi		Panasonic	DN74LS368A	SGS-Thomson		National	DM74LS47	SGS-Thomson
	Signetics	T74LS257	Motorola	SN74LS292	Hitachi	HD74LS292			Signetics	T74LS368	Hitachi		SGS-Thomson	74LS47	
SN74LS258A	Hitachi	HD74LS258			Motorola	SN74LS293	National	SN74LS37	Hitachi	HD74LS37		SN74LS48	Motorola	SN74LS48	National
	Motorola	SN74LS258A	National		National	DM74LS293			Motorola	SN74LS37	National		SGS-Thomson	DM74LS48	
	National	DM74LS258			Panasonic	DN74LS293	SGS-Thomson		National	DM74LS37		SN74LS48	SGS-Thomson	74LS48	Signetics
	SGS-Thomson	74LS258A	Panasonic		SGS-Thomson	T74LS293			Panasonic	DN74LS37	Motorola		Signetics	74LS48	
SN74LS258A	SGS-Thomson	DN74LS258A			Signetics	74LS293	Motorola		SGS-Thomson	T74LS37		SN74LS49	Motorola	SN74LS49	National
	Signetics	T74LS258	TI	SN74LS295B	Motorola	SN74LS295A			Signetics	74LS37	Motorola		SGS-Thomson	DM74LS49	
	TI	SN74LS258B			National	74LS295A	SGS-Thomson	SN74LS373	Motorola	SN74LS373			Motorola	SN74LS490	Motorola
SN74LS258B	Hitachi	HD74LS258	Motorola		SGS-Thomson	T74LS295A			National	74LS373	Panasonic		National	74LS490	
	Motorola	SN74LS258A			Signetics	74LS295B	(Continued)		Panasonic	DN74LS373		SN74LS490	Panasonic	DN74LS490	(Continued)

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				SN74LS75	Hitachi Motorola National Panasonic SGS-Thomson	HD74LS75 SN74LS75 DM74LS75 DN74LS75		SN74PAL16R8A	Samsung	(Cont'd)		SN74S428	Intel National	8228 DP8228	
• SN74LS490	SGS-Thomson	T74LS490	(Cont'd)									SN74S51	TI National	INS8228 TIM8228	
SN74LS51	Signetics Hitachi Motorola National	74LS490 HD74LS51 SN74LS51 DM74LS51		SN74LS76A	Signetics Hitachi Motorola	74LS75 HD74LS76 SN74LS76A SN75176		SN74S00	Signetics TI	CPL16R8-35 CPL16R8L-35 PLUS16R8 TIBPAL16R8 TIBPAL16R8-20 TIBPAL16R8-30 TICPAL16R8		SN74S65	Signetics	74S51	
	Panasonic SGS-Thomson	DN74LS51 T74LS51			National Panasonic Signetics	DM74LS76 DN74LS76 74LS76		SN74S02	National	DM74S00 DM74S02 74S02		SN74S74	National	DM74S65 DM74S74	
SN74LS54	Signetics Hitachi Motorola National	74LS51 HD74LS54 SN74LS54 DM74LS54		SN74LS78A	Motorola National Panasonic	SN74LS78A DM74LS78 SN74LS78		SN74S03	Signetics	74S00 74S02 DM74S03		SN74S85	Signetics	74S74	
	Panasonic SGS-Thomson	DN74LS54 T74LS54		SN74LS83A	Hitachi Motorola National	HD74LS83A SN74LS83A DM74LS83A		SN74S04	National	74S04 DM74S04 74S04		SN74S86	National	74S86	
SN74LS540	Signetics Motorola National SGS-Thomson	74LS54 SN74LS540 74LS540			Panasonic SGS-Thomson	74LS83A T74LS83		SN74S05	Signetics	74S05 DM74S05 74S05		SN7400	Signetics	74S86	
SN74LS541	Signetics Motorola SGS-Thomson	T74LS540 74LS540 SN74LS541		SN74LS85	Hitachi Motorola National	HD74LS85 SN74LS85 DM74LS85		SN74S08	National	74S08 DM74S08 74S08		SN7401	Signetics	74S86	
SN74LS55	Signetics Hitachi Motorola National	T74LS541 74LS541 HD74LS55 SN74LS55		SN74LS86A	Hitachi Motorola National	HD74LS86 SN74LS86 DM74LS86		SN74S10	Signetics	74S08 DM74S10 74S10		SN7402	Signetics	74S86	
	Panasonic SGS-Thomson	DN74LS55 T74LS55			Panasonic SGS-Thomson	DM74LS86 T74LS86		SN74S11	National	74S10 DM74S11 74S11		SN7403	Signetics	74S86	
SN74LS590	Samsung TI UMC	KS74AHCT590 TL5006 UM74HCT590		SN74LS90	Signetics Motorola National	T74LS86 74LS86 SN74LS90		SN74S112	Signetics	74S11 DM74S11 74S11		SN7404	Signetics	74S86	
SN74LS607	Motorola	SN74LS607			Panasonic SGS-Thomson	DM74LS90 74LS90		SN74S113	Signetics	74S11 DM74S11 74S11		SN7405	Signetics	74S86	
SN74LS640	Motorola	SN74LS640			Hitachi	DM74LS90		SN74S114	National	74S11 DM74S11 74S11		SN7406	Signetics	74S86	
SN74LS641	Motorola	SN74LS641		SN74LS91	Hitachi	DM74LS91		SN74S13	National	74S11 DM74S11 74S11		SN7407	Signetics	74S86	
SN74LS642	Motorola	SN74LS642		SN74LS92	Hitachi	DM74LS92		SN74S133	Signetics	74S11 DM74S11 74S11		SN7408	Signetics	74S86	
SN74LS644	Motorola	SN74LS644			Motorola	DM74LS92		SN74S134	National	74S11 DM74S11 74S11		SN7409	Signetics	74S86	
SN74LS645	Motorola	SN74LS645			National	DM74LS92		SN74S135	Signetics	74S11 DM74S11 74S11		SN7410	Signetics	74S86	
	SGS-Thomson	T74LS645		SN74LS93	Panasonic SGS-Thomson	DM74LS92		SN74S138	National	74S11 DM74S11 74S11		SN7411	Signetics	74S86	
	Signetics	SN74LS645-1			Hitachi	DM74LS93		SN74S140	Signetics	74S11 DM74S11 74S11		SN7412	Signetics	74S86	
SN74LS645-1	TI	SN74LS645-1			Motorola	DM74LS93		SN74S141	National	74S11 DM74S11 74S11		SN7413	Signetics	74S86	
	Motorola	SN74LS645		SN74LS95B	National	DM74LS93		SN74S142	Signetics	74S11 DM74S11 74S11		SN7414	Signetics	74S86	
	SGS-Thomson	T74LS645			Hitachi	DM74LS95B		SN74S143	National	74S11 DM74S11 74S11		SN7415	Signetics	74S86	
SN74LS669	TI	SN74LS669			Motorola	DM74LS95B		SN74S144	Signetics	74S11 DM74S11 74S11		SN7416	Signetics	74S86	
SN74LS670	Motorola	SN74LS670			National	DM74LS95B		SN74S145	Signetics	74S11 DM74S11 74S11		SN7417	Signetics	74S86	
	National	DM74LS670			Panasonic SGS-Thomson	DM74LS95B		SN74S146	Signetics	74S11 DM74S11 74S11		SN7418	Signetics	74S86	
	SGS-Thomson	T74LS670		SN74LS96	Hitachi	DM74LS96		SN74S147	Signetics	74S11 DM74S11 74S11		SN7419	Signetics	74S86	
SN74LS674	Signetics	74LS670			Motorola	DM74LS96		SN74S148	Signetics	74S11 DM74S11 74S11		SN7420	Signetics	74S86	
SN74LS688	Motorola	SN74LS674		SN74LS97	Hitachi	DM74LS97		SN74S149	Signetics	74S11 DM74S11 74S11		SN7421	Signetics	74S86	
SN74LS73A	AMD	AM25LS2521		SN74LS98	Hitachi	DM74LS98		SN74S150	Signetics	74S11 DM74S11 74S11		SN7422	Signetics	74S86	
	Hitachi	HD74LS73		SN74LS99	Motorola	DM74LS99		SN74S151	Signetics	74S11 DM74S11 74S11		SN7423	Signetics	74S86	
	Motorola	SN74LS73A		SN74L164	National	DM74LS99		SN74S152	Signetics	74S11 DM74S11 74S11		SN7424	Signetics	74S86	
	National	DM74LS73			Hitachi	DM74LS99		SN74S153	Signetics	74S11 DM74S11 74S11		SN7425	Signetics	74S86	
	Panasonic	DN74LS73		SN74L192	National	DM74LS99		SN74S154	Signetics	74S11 DM74S11 74S11		SN7426	Signetics	74S86	
• SN74LS74	Signetics	74LS73		SN74L193	National	DM74LS99		SN74S155	Signetics	74S11 DM74S11 74S11		SN7427	Signetics	74S86	
	Hitachi	DM74LS74A			Hitachi	DM74LS99		SN74S156	Signetics	74S11 DM74S11 74S11		SN7428	Signetics	74S86	
	Motorola	SN74LS74A		SN74PAL16R8A	AMD	DM74LS99		SN74S157	Signetics	74S11 DM74S11 74S11		SN7429	Signetics	74S86	
	National	DM74LS74			Cypress	DM74LS99		SN74S158	Signetics	74S11 DM74S11 74S11		SN7430	Signetics	74S86	
• SN74LS74	Panasonic	DN74LS74A			Gazelle	DM74LS99		SN74S159	Signetics	74S11 DM74S11 74S11		SN7431	Signetics	74S86	
	SGS-Thomson	T74LS74			Hitachi	DM74LS99		SN74S160	Signetics	74S11 DM74S11 74S11		SN7432	Signetics	74S86	
	Signetics	74LS74			Motorola	DM74LS99		SN74S161	Signetics	74S11 DM74S11 74S11		SN7433	Signetics	74S86	
SN74LS74A	TI	SN74LS74A			National	DM74LS99		SN74S162	Signetics	74S11 DM74S11 74S11		SN7434	Signetics	74S86	
	Hitachi	HD74LS74A		SN74LS96	Hitachi	DM74LS96		SN74S163	Signetics	74S11 DM74S11 74S11		SN7435	Signetics	74S86	
	Motorola	SN74LS74A		SN74L164	Motorola	DM74LS96		SN74S164	Signetics	74S11 DM74S11 74S11		SN7436	Signetics	74S86	
	National	DM74LS74			Hitachi	DM74LS96		SN74S165	Signetics	74S11 DM74S11 74S11		SN7437	Signetics	74S86	
	Panasonic	DN74LS74A		SN74L192	National	DM74LS96		SN74S166	Signetics	74S11 DM74S11 74S11		SN7438	Signetics	74S86	
	SGS-Thomson	T74LS74		SN74L193	National	DM74LS96		SN74S167	Signetics	74S11 DM74S11 74S11		SN7439	Signetics	74S86	
	Signetics	74LS74			Hitachi	DM74LS96		SN74S168	Signetics	74S11 DM74S11 74S11		SN7440	Signetics	74S86	
	(Continued)				Motorola	DM74LS96		SN74S169	Signetics	74S11 DM74S11 74S11		SN7441	Signetics	74S86	
					National	DM74LS96		SN74S170	Signetics	74S11 DM74S11 74S11		SN7442	Signetics	74S86	
					Hitachi	DM74LS96		SN74S171	Signetics	74S11 DM74S11 74S11		SN7443	Signetics	74S86	
					Motorola	DM74LS96		SN74S172	Signetics	74S11 DM74S11 74S11		SN7444	Signetics	74S86	
					National	DM74LS96		SN74S173	Signetics	74S11 DM74S11 74S11		SN7445	Signetics	74S86	
					Hitachi	DM74LS96		SN74S174	Signetics	74S11 DM74S11 74S11		SN7446	Signetics	74S86	
					Motorola	DM74LS96		SN74S175	Signetics	74S11 DM74S11 74S11		SN7447	Signetics	74S86	
					National	DM74LS96		SN74S176	Signetics	74S11 DM74S11 74S11		SN7448	Signetics	74S86	
					Hitachi	DM74LS96		SN74S177	Signetics	74S11 DM74S11 74S11		SN7449	Signetics	74S86	
					Motorola	DM74LS96		SN74S178	Signetics	74S11 DM74S11 74S11		SN7450	Signetics	74S86	
					National	DM74LS96		SN74S179	Signetics	74S11 DM74S11 74S11		SN7451	Signetics	74S86	
					Hitachi	DM74LS96		SN74S180	Signetics	74S11 DM74S11 74S11		SN7452	Signetics	74S86	
					Motorola	DM74LS96		SN74S181	Signetics	74S11 DM74S11 74S11		SN7453	Signetics	74S86	
					National	DM74LS96		SN74S182	Signetics	74S11 DM74S11 74S11		SN7454	Signetics	74S86	
					Hitachi	DM74LS96		SN74S183	Signetics	74S11 DM74S11 74S11		SN7455	Signetics	74S86	
					Motorola	DM74LS96		SN74S184	Signetics	74S11 DM74S11 74S11		SN7456	Signetics	74S86	
					National	DM74LS96		SN74S185	Signetics	74S11 DM74S11 74S11		SN7457	Signetics	74S86	
					Hitachi	DM74LS96		SN74S186	Signetics	74S11 DM74S11 74S11		SN7458	Signetics	74S86	
					Motorola	DM74LS96		SN74S187	Signetics	74S11 DM74S11 74S11		SN7459	Signetics	74S86	
					National	DM74LS96		SN74S188	Signetics	74S11 DM74S11 74S11		SN7460	Signetics	74S86	
					Hitachi	DM74LS96		SN74S189	Signetics	74S11 DM74S11 74S11		SN7461	Signetics	74S86	
					Motorola	DM74LS96		SN74S190	Signetics	74S11 DM74S11 74S11		SN7462	Signetics	74S86	
					National	DM74LS96		SN74S191	Signetics	74S11 DM74S11 74S11		SN7463	Signetics	74S86	
					Hitachi	DM74LS96		SN74S192	Signetics	74S11 DM74S11 74S11		SN7464	Signetics	74S86	
					Motorola	DM74LS96		SN74S193	Signetics	74S11 DM74S11 74S11		SN7465	Signetics	74S86	
					National	DM74LS96		SN74S194	Signetics	74S11 DM74S11 74S11		SN7466	Signetics	74S86	
					Hitachi	DM74LS96		SN74S195	Signetics	74S11 DM74S11 74S11		SN7467	Signetics	74S86	
					Motorola	DM74LS96		SN74S196	Signetics	74S11 DM74S11 74S11		SN7468	Signetics	74S86	
					National	DM74LS96		SN74S197	Signetics	74S11 DM74S11 74S11		SN7469	Signetics	74S86	
					Hitachi	DM74LS96		SN74S198	Signetics	74S11 DM74S11 74S11		SN7470	Signetics	74S86	
					Motorola	DM74LS96		SN74S199	Signetics	74S11 DM74S11 74S11		SN7471	Signetics	74S86	
					National	DM74LS96		SN74S200	Signetics	74S11 DM74S11 74S11		SN7472	Signetics	74S86	
					Hitachi	DM74LS96		SN74S201	Signetics	74S11 DM74S11 74S11		SN7473	Signetics	74S86	
					Motorola	DM74LS96		SN74S202	Signetics	74S11 DM74S11 74S11		SN7474	Signetics	74S86	
					National	DM74LS96		SN74S203	Signetics	74S11 DM74S11 74S11		SN7475	Signetics	74S86	
					Hitachi	DM74LS96		SN74S204	Signetics	74S11 DM74S11 74S11		SN7476	Signetics	74S86	
					Motorola	DM74LS96		SN74S205	Signetics	74S11 DM74S11 74S11		SN7477	Signetics	74S86	
					National	DM74LS96		SN74S206	Signetics	74S11 DM74S11 74S11		SN7478	Signetics	74S86	

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				SN74175	Lansdale National	ML74175 DM74175 74175	(3514)	SN74366A	Signetics TI	74365A SN74365 SN74365A		SN7489	National	DM74S289 DM7489 DM8589 MM74S289	
SN74132	Lansdale National	ML74132 DM74132 74132	(3514)	SN74176	Lansdale	ML8280 RL8280		SN74367A	Signetics	74367A		SN7492	Signetics	74S289	
SN74136	Lansdale	ML74136	(3514)		National	DM74176 DM8280 96176		SN74368A	Signetics	74368A		SN7493	Lansdale	ML7492	
SN7414	National	ML7414	(3514)		Signetics	74176		SN7437	Lansdale National	ML7437 DM7437 7437	(3514)	SN7494	Lansdale	ML7493	
SN74141	Signetics	DM7414 7414		SN74177	Lansdale National	ML8281 DM74177 DM8281		SN7438	Signetics	7437		SN7494	GoldStar	GL7101	
SN74141	Lansdale	ML7441			Signetics	74177			Lansdale	ML7438	(3514)	SN7496	National	ML7494	(3514)
SN74141	National	DM74141 DM7441 93141		SN74179	Signetics	DM8271 RL8271			National	DM7438 7438 7438		SN7497	Lansdale	ML7497	(3514)
SN74141	Signetics	74141		SN74180	Lansdale	ML74180	(3514)	SN7440	Signetics	7438		SN75ALS056	National	DS3896	
SN74145	National	DM74145 74145		SN74181	National	DM74180 74180			Lansdale	ML7440	(3514)	SN75ALS057	National	DS3897	
SN74146	Signetics	74145		SN74181	National	ML54181	(3514)	SN7441	National	DM7440 7440		SN75ALS125	Motorola	MC75125	
SN74147	Lansdale	ML74146		SN74182	Lansdale	DM74181		SN7441	Signetics	ML7441		SN75ALS127	National	DS75125	
SN74147	National	DM74147		SN74182	Lansdale	ML74182	(3514)	SN7442	National	DM74141 DM7441		SN75ALS127	Motorola	MC75127	
SN74148	Signetics	N82147		SN74191	National	ML74190	(3514)	SN7442	Signetics	93141		SN75ALS191	National	DS75127	
SN74148	National	DM74148 DM8318		SN74192	Lansdale	ML74191	(3514)	SN7442	Lansdale	74141		SN75ALS191	National	DS75127	
SN74150	Signetics	N82148			National	DM74192		SN7442	National	7441		SN75ALS191	National	DS75127	
SN74150	Lansdale	ML74150	(3514)	SN74193	Signetics	ML74192	(3514)	SN7442A	TI	ML7442	(3514)	SN75ALS194	Motorola	MC3487	
SN74150	National	DM74150		SN74194	Lansdale	DM8560			Lansdale	DM7442		SN75ALS195	National	MC3487	
SN74152	Signetics	74150		SN74194	National	ML74193	(3514)	SN7442	National	DM8842		SN75ALS195	Motorola	MC3486	
SN74153	Lansdale	ML74152	(3514)	SN74195	Lansdale	ML74194	(3514)	SN7442A	TI	7442		SN75C188	National	DS3486	
SN74153	National	ML74153	(3514)	SN74196	Signetics	DM74194		SN7442	Lansdale	DM7442		SN75C188	National	DS3486	
SN74154	AD	AD7415	(3245)	SN74196	National	74194		SN7442	National	DM8842		SN75C189A	National	DS14C88	
SN74154	National	PM741			Signetics	ML74195	(3514)	SN7442	TI	7442		SN75C189A	National	DS14C89	
SN74154	Raytheon	LH741A		SN74197	Lansdale	DM74195		SN7442	Signetics	DM8094		SN75064	Allegro	ULN2064	(3206)
SN74155	Lansdale	RC741			National	ML74196	(3514)	SN7442	TI	74125		SN75064	Micro	M54532	
SN74155	National	ML74155	(3514)	SN74197	Signetics	DM74196		SN7442	National	SN74125		SN75064	Mitsubishi	ULN2064	
SN74156	National	DM74155			Signetics	74196		SN7442	Signetics	DM74126		SN75064	SGS-Thomson	ULN2064	
SN74157	National	DM74156		SN74197	Lansdale	ML74197	(3514)	SN7442	TI	74126		SN75065	TI	ULN2064	
SN74157	Signetics	DM74157			National	DM8290		SN7443	Lansdale	SN74126		SN75065	Toshiba	TA75064	
SN74159	National	74157		SN74198	Signetics	74196		SN7443	Lansdale	ML7443	(3514)	SN75065	Allegro	ULN2064	
SN7416	National	DM74159		SN74199	National	ML8291		SN7444	Lansdale	ML7444	(3514)	SN75065	Micro	ULN2065	(3206)
SN7416	National	DM7416		SN74199	Signetics	RL8291		SN7445	National	DM7445		SN75065	Motorola	ULN2065	
SN74160	Signetics	7416		SN7420	National	DM74197		SN7446	Signetics	7445		SN75066	SGS-Thomson	ULN2065	
SN74160	Lansdale	ML74160	(3514)	SN7420	Signetics	DM8291		SN7446	Lansdale	ML7446		SN75066	TI	ULN2065	
SN74161	National	ML8310		SN7420	National	74197		SN7447	Lansdale	ML7447		SN75066	Motorola	ULN2066	
SN74161	Lansdale	DM74160		SN7420	Signetics	DM74199		SN7448	Lansdale	ML7448		SN75066	SGS-Thomson	ULN2066	
SN74161	National	ML74161	(3514)	SN7420	National	74199		SN7449	Lansdale	ML7449		SN75066	SGS-Thomson	ULN2066	
SN741616	AMD	AM29C516A		SN7420	National	DM7420	(3514)	SN7450	National	ML7450	(3514)	SN75067	TI	ULN2066	
SN741616	AD	ADSP1016		SN7420	Signetics	DM9004C		SN7451	Lansdale	DM7450		SN75067	Motorola	ULN2066	
SN741616	Cypress	CY7C516		SN7420	National	7420		SN7451	National	DM7451		SN75067	SGS-Thomson	ULN2067	
SN741616	Harris	HMU16		SN7421	Signetics	9004		SN7453	Signetics	7451		SN75067	TI	ULN2067	
SN741616	LogicDev	LMU16		SN7421	National	7420		SN7454	Lansdale	ML7453	(3514)	SN75068	Allegro	SG2067	(3642)
SN741616	TRWLSI	LMU216		SN7422	Signetics	DM7423	(3514)	SN7470	National	ML7454	(3514)	SN75068	Micro	ULN2067	
SN741616	Weitek	MPY016K		SN7422	National	DM7423		SN7470	Lansdale	DM7454		SN75068	Motorola	ULN2068	(3206)
SN74162	Lansdale	TMC216H		SN7422	National	DM7425		SN7472	National	DM7470		SN75068	SGS-Thomson	ULN2068	
SN74162	National	WTL1016		SN7425	Signetics	7425		SN7473	Lansdale	ML7472	(3514)	SN75069	TI	ULN2068	
SN74162	Lansdale	WTL1516		SN7425	National	DM74251		SN7473	National	ML7473	(3514)	SN75069	Allegro	ULN2068	
SN74162	National	WTL2516	(3514)	SN7426	Lansdale	DM8121		SN7474	Lansdale	DM7473		SN75069	Micro	ULN2068	
SN74163	Lansdale	ML74162	(3514)	SN7426	National	ML7426	(3514)	SN7474	National	HL7611		SN75070	Motorola	ULN2069	(3206)
SN74163	National	DM74162		SN7427	Signetics	ML7426	(3514)	SN7475	Signetics	ML7474	(3514)	SN75070	SGS-Thomson	ULN2069	
SN74163	Lansdale	ML74163	(3514)	SN7427	National	DM8810		SN7475	Lansdale	DM7474		SN75070	TI	ULN2069	
SN74163	National	DM74163		SN7427	Signetics	7426		SN7476	National	7474		SN75070	Toshiba	TA75070	
SN74165	Lansdale	ML74165	(3514)	SN7427	National	DM7427		SN7476	Signetics	ML7475	(3514)	SN75070	National	DS75107	
SN74165	National	DM74165		SN7427	Signetics	7427		SN7477	Lansdale	DM7475		SN75070	National	DS75107	
SN74166	Signetics	DM8590		SN7427	National	7427		SN7477	National	7475		SN75070	National	DS75107	
SN74166	National	DM74166		SN7428	Signetics	DM8875A		SN7477	Lansdale	ML7476	(3514)	SN75070	National	DS75107	
SN74166	Signetics	74166		SN7428	National	DM8875B		SN7477	Signetics	DM7476		SN75070	National	DS75107	
SN74167	Lansdale	ML74167	(3514)	SN7429	Signetics	ML8275		SN7477	Lansdale	7476		SN75070	National	DS75107	
SN7417	Lansdale	ML7417	(3514)	SN7429	National	DM7429		SN7478	Lansdale	ML7477	(3514)	SN75070	National	DS75107	
SN7417	National	DM7417		SN7429	Signetics	ML7429	(3514)	SN7479	Lansdale	ML7478	(3514)	SN75070	National	DS75107	
SN74170	Signetics	7417		SN7430	National	ML7429	(3514)	SN7480	Lansdale	ML4004		SN75070	National	DS75107	
SN74170	National	DM74170		SN7430	Signetics	DM7430		SN7481	Lansdale	ML7482	(3514)	SN75070	National	DS75107	
SN74172	Signetics	7417		SN7430	National	7430		SN7482	Lansdale	ML7483	(3514)	SN75070	National	DS75107	
SN74173	National	DM74173		SN7432	National	DM7432		SN7483	Lansdale	ML7484	(3514)	SN75070	National	DS75107	
SN74173	Signetics	DM8551		SN7432	Signetics	7432		SN7484	Lansdale	ML7485	(3514)	SN75070	National	DS75107	
SN74174	Lansdale	ML74174	(3514)	SN7433	Signetics	7432		SN7485	National	DM7485		SN75070	National	DS75107	
SN74174	National	DM74174		SN7433	Signetics	7433		SN7486	Signetics	7485		SN75070	National	DS75107	
SN74174	Signetics	74174		SN74365	TI	SN74365A		SN7486	Lansdale	ML7486	(3514)	SN75070	National	DS75107	
				SN74365A	Signetics	SN74366A		SN7486	National	DM7486		SN75070	National	DS75107	
				SN74365A	TI	74365A		SN7488	Signetics	7486		SN75070	National	DS75107	
				SN74365A	Signetics	SN74365		SN7488	Lansdale	ML4002		SN75070	National	DS75107	
				SN74365A	Signetics	SN74366A		SN7488	Signetics	ML4002		SN75070	National	DS75107	

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page		
Texas Instruments (Cont'd)				SN75173	National	μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B	(Cont'd)	SN75188	Signetics SiliconG TI	MC1488 SG1488 MC1488	(Cont'd)	SN75460	Motorola	MC75460			
SN751176B	Motorola	(Cont'd)						SN75189	Motorola	μA1489 DS1489		SN75461	National	μA75461			
	National	SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28							Samsung	MC1489		SN75462	SiliconG	SG75461			
		μA96177 μA96178 DS3695 DS8T28						SN75189A	Motorola	MC1489 μA1489A DS1489A		SN75463	National	μA75462			
	TI	SN75145 SN75172 SN75173 SN75174 SN75175 SN75177B							National	MC1489A DS1489A		SN75464	SiliconG	SG75462			
SN75121	National	DS75121 N8T13						SN7520	Maxim	MX7520		SN75465	Allegro	SG75463			
	Signetics	N8T13							MicroPwr	MP7520			Micro	ULN2025			
SN75123	National	DS75122 DS75123							Motorola	MC7520		SN75471	SiliconG	SG75471			
		N8T23 SL8T24						SN75207B	National	DS75207		SN75472	SiliconG	SG75472			
SN75124	Signetics	DS75124						SN7521	Harris	AD7521		SN75473	SiliconG	SG75473			
	Lansdale	N8T24							Maxim	MX7521		SN75474	SiliconG	SG75474			
SN75125	Motorola	MC75125							MicroPwr	MP7521		SN75475	Mitsubishi	M54524			
	National	DS75125							Motorola	MC7521			National	μA9665			
	TI	SN75ALS125							National	AD7521			Samsung	KA2655			
SN75127	Motorola	MC75127								DAC1020 DAC1021 DAC1022			Sanyo	LB1231			
	National	DS75127						SN7521	Sipex-HSD	DAC1222		SN75477	Toshiba	TD62001			
	TI	SN75ALS127							National	7521			Mitsubishi	TD62101			
SN75128	Motorola	MC75128						SN7521	Signetics	DAC331-12			M54525				
	National	DS75128						SN7524	National	DS75S24			MC1413				
SN75129	Motorola	MC75129							Signetics	7524			μA9667				
	National	DS75129						SN7525	Motorola	MC7525			MC1413				
SN75130	Motorola	MC3485						SN7525	National	LM7525			Samsung	KA2656			
SN75145	Motorola	SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B						SN75326	Unitrode	PIC7524			Sanyo	LB1232			
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B							SiliconG	SG75236 SG75236A SG75326			SGS-Thomson	L202			
	National	SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B								75430		SN75478	Toshiba	TD62002			
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B								SG75430			Mitsubishi	M52523			
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B								SG75431				M54523			
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B								SG75432			Motorola	MC1413			
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B								KM2864AH			National	μA9667			
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B								DQ52B33H				MC1413			
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B								SG75434			Samsung	KA2657			
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B								SG75435				LB1233			
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B								Hitachi	HAI3007			SGS-Thomson	ULN2003		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B								National	DS3658			TI	ULN2003		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B								Harris	CA3252	(3461)		Toshiba	TD62003		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B								National	DS3669				TD62103		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B								SGS-Thomson	L9222		SN75479	Allegro	UDN5714		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B								TI	L293			Micro	MC1374		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B								Adv Analog	A102			Motorola	UDN5714		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B								National	μA75450			TI	TD62479		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									75450			National	DS75494		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B								SiliconG	SG75450				DS75494		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									SG75450B			Allegro	UCN5818		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									75451			Micro	S4535		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									SG75451			Gould AMI	UCN5851		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									SG75451B			Allegro	UCN5852		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									75451			Micro	SI9552		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									SG75451A			Siliconix	UCN5853		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									SG75451B			Micro	SI9553		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									SG75452			Allegro	UCN5854		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									SG75452A			Micro	SI9554		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									SG75452B			Siliconix	SI9555		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									SG75452B			Micro	SI9556		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									SG75453			Allegro	SI9560		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									SG75453A			TI	SN75564		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									SG75453B			Siliconix	SI9560		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									SG75454			TI	SN75563		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									SG75454B			Allegro	UDN2950		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									SG75454B			Micro	UC2950		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									SG75454B			Unitrode	MCE820		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									SG75454B			SGS-Thomson	TBA820		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									SG75454B				μA705		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T28 μA96172 μA96173 μA96174 μA96175 μA96176 μA96177 μA96178 DS3695 DS8T28 SN751176B									SG75454B			National	LM1800		
		SN75172 SN75173 SN75174 SN75175 SN75177 μA8T2															

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
• SN76149	National	µA749 LM1303	(Cont'd)	TA75555	TI	SE555 SE555M TA7555 N82S23 N82US123 S82S23	(Cont'd)	• TBP28S166	Signetics	N82S191 N82S191A 82S191 TBP38L166 TMS27C291 TMS27C292 WS57C191 WS57C291B		• TBP38L165	Raytheon	29683A TBP38A166 TBP38S166	
• SN76149	SGS-Thomson	TBA231 TDA1327		TBPSA030	Signetics	DM74S188 AM27LS19 AM27S19 27S19		• TBP28S166	TI	WS57C291B		• TBP38L165	Waferscale	WS57C191 WS57C291B AM27S191 AM27S191A 27S191	
• SN76227	Motorola	LM3066		• TBP18SA30	Fujitsu	DM74S188		• TBP28S46	Waferscale	AM27S31 HM6642 DM74S474 N82S141 S82S141		TBP38L166	AMD	AT28HC191 AT28HC191L CY7C291 CY7C292 CY7C292A CY7C292AL	
• SN76242	Harris	AY38913		• TBP18S030	AMD	DM74S188		• TBP28S46M	AMD	DM54S474 AM27S181 CY7C282M			ATMEL	HN25169 MCM76101 MCM76160	
• SN76266	National	MC1350		• TBP18S030	Fujitsu	DM74S188		• TBP28S86AM	National	S25089 Hitachi Lansdale National			Cypress		
• SN76489	Motorola	ESM1350		• TBP18S030	Lansdale	DM74S288 DM8578 N82S123 N82US123 82S123		• TBP28S86AM	Cypress	DM77LS181 DM77S181 DM77S281 DM87S181 DM87S281 932451			Hitachi		
• SN76600	SGS-Thomson	LM1820		• TBP18S030	National	DM74S288 DM7578 MB7113 DM74S387		• TBP28S86AM	TI	28586-60 27S29 OP15 PM157 PM157A			Motorola		
• SN76635	National	ULN2111		• TBP18S030M	Fujitsu	DM74S387		• TBP28S86AM	STC	28586-60			National		
• SN76642	Allegro	CA2111A		• TBP24SA10	Fujitsu	DM74S387		• TBP28S86AM	AMD	27S29					
• SN76642	Micro	CA2111A		• TBP24SA10M	National	DM74S387		• TBP28S86AM	AD	PM157					
• SN76642	Harris	LM2111		• TBP24SA10M	Signetics	N82S126 S82S126 HL7642		• TBP28S86AM	Lansdale	LM7649 LF351 LF157A LF351 LF353		• TBP38L22	AMD	63S281 N82S135	
• SN76643	National	LM2113		• TBP24SA41M	Lansdale	DM54S572 93452		• TBP28S86AM	Motorola	LF351		• TBP38R165	AMD	AM27S45 AM27S45A	
• SN76642	Signetics	N5111		• TBP24S410	AMD	AM27S21 27S21		• TBP28S86AM	TI	27S29					
• SN76643	Allegro	ULN2111		• TBP24S410	Fujitsu	MB7114		• TBP28S86AM	NEC	29621 KF351 PLS157 LF351 LF353		• TBP38R165	Cypress	AM27S47 CY7C245 MB7238	
• SN76643	Micro	CA2111A		• TBP24S410M	National	DM74S287 N82S129A S82S129 S82S129		• TBP28S86AM	Raytheon	29621 KF351 PLS157 LF351 LF353		• TBP38R165	Waferscale	WS57C45 WS57C45A	
• SN76643	Harris	LM2113		• TBP24S41M	Motorola	DM74S287 N82S129A S82S129 S82S129		• TBP28S86AM	Signetics	29621 KF351 PLS157 LF351 LF353		• TBP38R165	Fujitsu	MB7111 DM74S188 AM27LS19	
• SN76675	National	SL8T13		• TBP24S81	AMD	AM27S185 27S185		• TBP28S86AM	TI	27S21		• TBP38S030	AMD	AM27S19 27S19	
• SN8T13	Lansdale	SL8T14		• TBP24S81M	Fujitsu	MB7128		• TBP28S86AM	NEC	29621 KF351 PLS157 LF351 LF353		• TBP38S030	Signetics	AM27S191 AM27S291 AM27S291A	
• SN8T14	Lansdale	DS55122		• TBP24S81M	Hitachi	HN25085		• TBP28S86AM	Raytheon	29621 KF351 PLS157 LF351 LF353		• TBP38S030	Fujitsu	MB7112 HL7603 DM74S288 DM8578	
• SN8T24	National	DS55122		• TBP24S81M	Lansdale	DM87S185		• TBP28S86AM	Signetics	29621 KF351 PLS157 LF351 LF353		• TBP38S030	National	N82S123 N82S123A 82S123	
• SN8T24	TI	SN55122		• TBP24S81M	Raytheon	29651A 29651A N82S185 S82S185 24S81-55		• TBP28S86AM	Fujitsu	29621 KF351 PLS157 LF351 LF353		• TBP38S165	AMD	AM27S191 AM27S291 AM27S291A	
• SN8T24	Lansdale	SL8T24		• TBP24S81M	Motorola	DM74S573 MCM7643M DM54S573 DM54S573A		• TBP28S86AM	National	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Cypress	CY7C291 MB7138 MCM76	
• SN8T26	TI	SN55124		• TBP24S81M	Fujitsu	MB7122		• TBP28S86AM	TI	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Fujitsu	DM878291 932511	
• SN8T26	Lansdale	SL8T26		• TBP24S81M	Hitachi	HN25168		• TBP28S86AM	Raytheon	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Raytheon	29683A TBP38A166 TBP38S166	
• SN8T26	Motorola	MC6880A		• TBP24S81M	National	DM77S190		• TBP28S86AM	Signetics	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191 WS57C291B	
• SN8T26	Signetics	MC8726		• TBP24S81M	Motorola	DM87S190		• TBP28S86AM	AMD	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Waferscale	WS57C191 WS57C291B	
• SN8T26	AMD	N8T26		• TBP24S81M	Fujitsu	MB7128		• TBP28S86AM	Fujitsu	29621 KF351 PLS157 LF351 LF353		• TBP38S165	AMD	AM27S191 AM27S291 AM27S291A	
• SN8T26	AMD	AM67CA501		• TBP24S81M	Hitachi	HN25085		• TBP28S86AM	National	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191 WS57C291B	
• SN8T26	AMD	AM7201		• TBP24S81M	Lansdale	DM87S190		• TBP28S86AM	Signetics	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Waferscale	WS57C191 WS57C291B	
• SN8T26	AMD	67CA501		• TBP24S81M	Raytheon	29651A 29651A N82S185 S82S185 24S81-55		• TBP28S86AM	AMD	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191 WS57C291B	
• SN8T26	AMD	DS2009		• TBP24S81M	Fujitsu	MB7128		• TBP28S86AM	TI	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Waferscale	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201		• TBP24S81M	Hitachi	HN25085		• TBP28S86AM	Raytheon	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Lansdale	DM87S190		• TBP28S86AM	Signetics	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Waferscale	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Raytheon	29651A 29651A N82S185 S82S185 24S81-55		• TBP28S86AM	AMD	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Fujitsu	MB7128		• TBP28S86AM	TI	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Waferscale	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Hitachi	HN25085		• TBP28S86AM	Raytheon	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Lansdale	DM87S190		• TBP28S86AM	Signetics	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Waferscale	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Raytheon	29651A 29651A N82S185 S82S185 24S81-55		• TBP28S86AM	AMD	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Fujitsu	MB7128		• TBP28S86AM	TI	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Waferscale	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Hitachi	HN25085		• TBP28S86AM	Raytheon	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Lansdale	DM87S190		• TBP28S86AM	Signetics	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Waferscale	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Raytheon	29651A 29651A N82S185 S82S185 24S81-55		• TBP28S86AM	AMD	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Fujitsu	MB7128		• TBP28S86AM	TI	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Waferscale	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Hitachi	HN25085		• TBP28S86AM	Raytheon	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Lansdale	DM87S190		• TBP28S86AM	Signetics	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Waferscale	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Raytheon	29651A 29651A N82S185 S82S185 24S81-55		• TBP28S86AM	AMD	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Fujitsu	MB7128		• TBP28S86AM	TI	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Waferscale	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Hitachi	HN25085		• TBP28S86AM	Raytheon	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Lansdale	DM87S190		• TBP28S86AM	Signetics	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Waferscale	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Raytheon	29651A 29651A N82S185 S82S185 24S81-55		• TBP28S86AM	AMD	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Fujitsu	MB7128		• TBP28S86AM	TI	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Waferscale	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Hitachi	HN25085		• TBP28S86AM	Raytheon	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Lansdale	DM87S190		• TBP28S86AM	Signetics	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Waferscale	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Raytheon	29651A 29651A N82S185 S82S185 24S81-55		• TBP28S86AM	AMD	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Fujitsu	MB7128		• TBP28S86AM	TI	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Waferscale	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Hitachi	HN25085		• TBP28S86AM	Raytheon	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Lansdale	DM87S190		• TBP28S86AM	Signetics	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Waferscale	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Raytheon	29651A 29651A N82S185 S82S185 24S81-55		• TBP28S86AM	AMD	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Fujitsu	MB7128		• TBP28S86AM	TI	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Waferscale	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Hitachi	HN25085		• TBP28S86AM	Raytheon	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Lansdale	DM87S190		• TBP28S86AM	Signetics	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Waferscale	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Raytheon	29651A 29651A N82S185 S82S185 24S81-55		• TBP28S86AM	AMD	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Fujitsu	MB7128		• TBP28S86AM	TI	29621 KF351 PLS157 LF351 LF353		• TBP38S165	Waferscale	WS57C191 WS57C291B	
• SN8T26	AMD	IDT7201A		• TBP24S81M	Hitachi	HN25085		• TBP28S86AM	Raytheon	29621 KF351 PLS157 LF351 LF353		• TBP38S165	TI	WS57C191	

ALT. SOURCE DIRECTORY

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALT. SOURCE DIRECTORY

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ALT. SOURCE DIRECTORY

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
Texas Instruments (Cont'd)				TL071	AD	OP15		TL136	AD	OP470		TL4558	Signetics	MC1458	(Cont'd)	
TLC556M	AdvLinear	ALD2502			AnalogSys	MA333			Harris	HA4600				MC1558		
		ALD2504			National	μA771			Raytheon	RC4156				NE4558		
	Harris	ICM7556			TI	TL081C				RM4156				SA4558		
		ICM7556M		TL071M	Toshiba	TA75071			Signetics	NE5514			TI	SE4558		
	Maxim	ICM7556		TL072	AD	AD712				SE5514				MC1458		
	Motorola	MC3456				OP249		TL1525	TI	XR4156				MC1558		
	TI	TLC552C				SSM2300	(362)		Exar	XR1525A				MC4558C		
		TLC552M				CA4051			LinearTech	LT1525				RC4558		
		TLC556			Harris	LT1057				LT1525A				RM4558		
		TLC556C			LinearTech	MC34082			Motorola	SG1525A			Toshiba	TA75458		
TL7524	AD	AD7524		TL072M	TI	TL062M			SiliconG	SG1525A	(3642)	TL4810	Allegro	UCN5810		
		PM7524		TL074	AnalogSys	MA374			TeledyneS	TSC15C25A			Micro	SA534		
	Maxim	MX7524			Harris	CA3410			Unitrode	UC1525			Signetics	HEF4534		
	MicroPwr	MP7524			Motorola	MC33074				UC1525A			TI	UCN4810A		
	Motorola	MC7524				MC34004		TL1527	LinearTech	LT1527			TL493CN	Cherry Semi	CS593C	
TL7528	AD	AD7528				MC34004A				LT1527A				Motorola	TL493	
		PM7528				MC34074				SG1527				UC493ACJ		
	Maxim	AD7528			National	μA774			Motorola	SG1527A				UC493ACN		
	MicroPwr	MP7528			TI	TL084BC			SGS-Thomson	SG1527				UC493A		
	Motorola	MC7528		TL074M	TI	TL064M				SG1527A	(3642)	TL494	Unitrode	UC493A		
TLE2021	AD	OP21		• TL081	AD	AD544			SiliconG	TSC15C27A			Fujitsu	MB3759		
TLE2022	AD	OP220				OP16			TeledyneS	UC1527			GoldStar	GL494		
	Fujitsu	MB47358				OP43			Unitrode	UC1527A			National	μA494		
	Harris	CA358A				PM156							Toshiba	TA76494		
		CA5260AX				PM156A							Unitrode	UC494A		
	Motorola	HA5142		• TL081	Burr-Brown	OPA156A	(3329, 3331)		TL170	Allegro	UGN3130U	(3207)	TL494C	Unitrode	UC494AC	
	SGS-Thomson	MC3358				HA5170			National	DN6838			TL494M	Cherry Semi	CS494M	
		TS272			Harris	HA5180			Panasonic	DN6838			Exar	XR494		
	Signetics	NE532		• TL081	LinearTech	LF156			Allegro	UGN3119U	(3207)		Motorola	TL494		
	TI	TLC252				LF156A			Micro	DN6837				KA7500		
		TLC272		• TL081	National	LF156			National	DN6837			TL495C	Unitrode	UC495AC	
TL2024	AD	OP400				LF156A				DN6837			TL495CJ	Cherry Semi	CS595C	
	Exar	XR3403		• TL081	SGS-Thomson	OPA101			Panasonic	DN6839			TL495I	TI	TL595I	
		XR3503				LF156			Siemens	SAS261			TL500	TeledyneS	TSC500	
	Harris	HA5134				MC34001B			TL173C	Allegro	UGN3503		TL5006	Samsung	KS74AHCT590	
	Motorola	LM3403		TL081AC	Motorola	OP15				TI	TL1731			TI	SN74LS590	
		MC33174		TL081C	AnalogSys	MA333			TL173I	Allegro	UGN3503		• TL514	UMC	UM74HCT590	
	National	μA324			National	μA771				TI	TL173C			Motorola	MC1514	
		μA3403			TI	TL071				Harris	DG185		TL5501	National	LM1514	
	Samsung	LM323			Toshiba	TA75071			TL185	Maxim	IH5045			Fujitsu	MB40576	
	Signetics	MC3403			Motorola	MC35001B				Siliconix	DG185			Sony	CX01172P	
		LM224		TL081M	Exar	XR082					DG5045			Toshiba	TD6712	
		LM324		TL082	Fujitsu	MB40547-7			TL2525	Exar	XR2525A			SiliconG	SG5524	(3643)
		MC3403				MB47082				Harris	HA2525			Fujitsu	MB40776	
TL298	TI	L298			SGS-Thomson	LF353				LinearTech	LT2525A			Fujitsu	MB40778	
	Unitrode	L298				TL082				Motorola	SG2525A			TL5632	MB40978	
TL59SM	Unitrode	UC495A				HA17082				SGS-Thomson	SG2525A			TL5812	Allegro	
TL022	Harris	HA5152			TI	MC34002B					SG2525A	(3642)	TL594C	Micro	UCN5812	
	National	LF442		TL082AC	Motorola	MC34002A				SiliconG	SP2525			Cherry Semi	CS594C	
	Samsung	KF442		TL082BC	Motorola	MA336				Sipex-HSD	SP2525			Dionics	DI514B	
	SGS-Thomson	TL062		TL082C	AnalogSys	CA3240				TeledyneS	TSC25C25A			Exar	DI514BR	
		TL062			Harris	ICL8043				TI	UC2525A			OKI	XR6118	
TL040	TI	TA75062			LinearTech	OP215				Unitrode	UC2525A			Signetics	MSL912	
	Gazelle	GA235V8			Motorola	MC34002				Exar	XR2527A			SA594		
	Lattice	GAL16V8A				MC34072				LinearTech	LT2527A			TI	TL594M	
		GAL18V10				μA772				Motorola	SG2527A			Toshiba	TD62781	
TL044	SiliconG	SG040			National	TL072				SiliconG	SG2527A	(3642)	TL594I	Exar	XR1556	
	AD	OP420			SGS-Thomson	TA75072				TeledyneS	TSC25C27A		TL594M	Cherry Semi	CS594C	
		OP421				TA75074				TI	UC2527A			Dionics	DI514B	
	Fujitsu	MB3615				MC35002B				Unitrode	UC2527A			Exar	DI514BR	
	Harris	HA5144		TL082M	Motorola	MC35002B					UC2527A			OKI	XR6118	
		HA5154		TL083	Exar	XR083			TL431	Motorola	TL431			Signetics	MSL912	
	SGS-Thomson	TL064		TL084	Exar	XR084				National	μA431			NE594		
		TL064			National	μAF774			TL431M	Motorola	TL431			SA594		
TL060	Toshiba	TA75060			SGS-Thomson	TL084				National	μA431			TI	TL594C	
TL061	AD	OP20				MC34004B			TL45558	AD	OP270		TL595I	Toshiba	TD62781	
	Harris	HA5141		TL084AC	Motorola	MA374				Toshiba	TA75558		TL7702	TI	TL495I	
		HA5151		TL084BC	AnalogSys	CA3410			TL4558	AD	OP14	(3245, 3248)		SGS-Thomson	TL7702	
	Toshiba	TA75061			Motorola	MC33074					OP215		TL7705	SGS-Thomson	TL7705	
TL061M	TI	TL071M				MC34004					OP270			Motorola	TL780-05C	
TL062	Harris	HA5152				MC34004A				Exar	XR1458			Motorola	TL780-12C	
	National	LF442				MC34074					XR4558			Motorola	TL780-15C	
	Samsung	KF442				μA774				Fujitsu	MB3607			Dense-Pac	DPD42569	
	SGS-Thomson	TL062			National	TL074				Harris	CA1458			MicronTech	MT9259	
		TL022			TI	MC35004					CA1558			Mitsubishi	MH25609A	
	Toshiba	TA75062		TL084M	Motorola	LM111				Hitachi	HA17458				MH25609J	
TL062M	TI	TL072M		• TL111	LinearTech	LM111				Motorola	MC4558			NEC	MC41256A9	
TL064	AD	OP420			Motorola	LM111					SE4558			OKI	MSC2304KS9	
		OP421			National	μA111					μA1458				MSC2304YS9	
	Fujitsu	MB3615				LM111					μA4558			Peps	PEP4256EL9	
	Harris	HA5144		• TL111	SiliconG	SG111	(3643)				LM1558			Samsung	KMM49256	
		HA5154		TL117	LinearTech	LM117				Raytheon	RC4558				KMM59256	
	SGS-Thomson	TL064			Motorola	LM117					RM4558			TI	TMM4256GU9	
		TL044			National	μA117				Samsung	MC4558				TM4256EL9	
TL064M	TI	TL074M			SiliconG	SG117	(3642)			SGS-Thomson	LS4558				TM4256GU9	
			(Continued)		Unitrode	UC117					MC4558			Dense-Pac	DPD42568	
							(Continued)							Hitachi	HB561008B	
															(Continued)	

• Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				TMS27C256 Krueger (Cont'd)				TMS27C64 (Cont'd)				TMS278C49 AMD			
TMM4256FL8 (Cont'd)				27C256-250 (3513)				27C256-300 (3513)				ATMEL			
Mitsubishi		MH25608A													AM27S49
		MH25608J													27S49
OKI		MSC2304KS8													AT27HC641
		MSC2304YS8													AT27HC642
Peps		PEP4256EL8													CY7C261
Samsung		KMM48256													CY7C263
		KMM58256													CY7C264
TI		TM4256FL8													MBM7144
		TM4256GU8													MB7144
TMM4256GU9															MB7144E
Dense-Pac		DPD42569													27CX641
MicronTech		MT9259													27HC641
Mitsubishi		MH25609A													32Z565
		MH25609J													93Z665
NEC		MC41256A9													93Z665C
OKI		MSC2304KS9													93Z667
		MSC2304YS9													93Z667C
Peps		PEP4256EL9													μPD27HC65
Samsung		KMM49256													LH5749
		KMM59256													LH5749J
TI		TMM4256EL9													N82HS641
		TMM4256GU9													27HC641
		KS51000													27HC642
• TMS1000	Samsung	AM9114													82HS641
• TMS2114	AMD	2114A													SS1203
	Intel	2114A													WS57C49
	Krueger	2114-150 (3513)													WS57C49B
		2114-200 (3513)													WD2791
		2114-450 (3513)													WD2793
• TMS2114	Mitsubishi	M5L2114													WD2795
	Motorola	F2114													CAT28F010
	National	NMC2114A													NSC48F010
• TMS2114	OKI	MSM2114													48F010
	Rockwell	R6514													28F256
	Sharp	LH2114													TMS29F258
	Toshiba	TMM2114A													TMS29F259
• TMS2147	UMC	UM6114													TC58257
	AMD	AM2147													28F256
	Cypress	CY2147													TMS29F256
		CY7C147													TC58257
• TMS2147	Fujitsu	MBM2147													TMS29F258
	Intel	M2147H													TC58257
		2147H													28F256
• TMS2147	Krueger	2147-35 (3513)													TMS29F256
		2147-45 (3513)													TC58257
		2147-55 (3513)													TMS29F259
		2147-70 (3513)													TC58257
• TMS2147	National	NM2147													28F256
		NMC2141													TMS29F256
		NMC2147H													TC58257
		NM2147													TMS29F258
• TMS2147	SGS-Thomson	ET2147													TC58257
		NCR2364													NSC48F512
		MSM3864													48F512
		SL2364C													NMC4231Z
		SMM2364													TMS3127
		LH2364A													NMC4231Z
		2364													TMS3101
		VT2364													NMC4233Z
		SC8164													DPD411M
		WD2511													MB81C1000
		HN27C128													TH22568
		27C128-200 (3513)													GM71C1000
		27C128-250 (3513)													HB561003
															HM511000
															HM51101
															HM51102
															HM561003
															HY51C1000
															HY51C1002
															MT4C1024
															MH25608
															MH25609
															MSM4C1000
															MSM41000S
															MSM410000
															MCM511000A
															μPD421000
															MC421000
															MSM41000
															KM41C1000
															KM41256A
															MKB45F56
															HYB511000
															TM4256FC1
															TM5256
															TC511000
															TC511000C
															TC511001C
															MB81C1001
															HM511001
															HY51C1001
															MSM4C1001
															MCM511001A
															μPD421001
															NMB
															MSM41001

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
Texas Instruments (Cont'd)				TMS44100				TMS4764 (Cont'd)				TM024GAD8 (Cont'd)				
(Cont'd)																
TMS4C1025	Samsung	KM41C1001		Fujitsu	Dense-Pac	DPD4MM1		SGS-Thomson	TI	MK37000		Peps	1MX8			
TMS4C1027	Toshiba	TC511001		Hitachi	Fujitsu	MB814100		TI	Hitachi	TMS2364		Samsung	KMM581000A			
	Fujitsu	MB81C1002		MicronTech	Hitachi	HM514100		Mitsubishi	Mitsubishi	HM538122		TI	MPR68CTE64			
	Hitachi	HM511002		Mitsubishi	MicronTech	MT4C1004				M5M482128		Toshiba	TM024GAD8			
	MicronTech	MT4C1026			Mitsubishi	M5M441000				N5N482128			THM81000			
	Mitsubishi	M5M4C1002		Mosaic	Mitsubishi	M5M441000		NEC	NEC	μPD42275		UTMC	THM81000A			
	Motorola	MCM511002A		Motorola	Motorola	MCM514100		Toshiba	Toshiba	TC524128A			UT67164			
	NEC	μPD421002		NEC	NEC	μPD424100				TC528128			UT7164			
	NMB	AAA1M100		OKI	OKI	MSM514100		Fujitsu	Fujitsu	MB82B005		Fujitsu	MB85235			
	OKI	MSM41002		Panasonic	Panasonic	MN41C4000		Hitachi	Hitachi	HM624256		Hitachi	HB56A19			
	Samsung	KM41C1002		Samsung	Samsung	KM41C4000		Intel	Intel	MT5C1005			HB58A19			
	Toshiba	TC511002		Siemens	Siemens	HYB514100		MicronTech	MicronTech	MT5C1005		MicronTech	MT8C9024			
	Vitelc	V51C101		Toshiba	Toshiba	TC514100		Mitsubishi	Mitsubishi	M5M51004			MT8C9024M			
TMS416C64	MicronTech	MT461664		Hitachi	Hitachi	HM514101		NEC	NEC	μPD431004		Mitsubishi	MH1M09			
	Toshiba	TC511665		Mitsubishi	Mitsubishi	M5M44101				KM641001			MH1M09B0J			
TMS416C74	AD	AD1403		NEC	NEC	μPD424101				MB82B006		Motorola	MCM91000			
	Motorola	MC1403		OKI	OKI	MSM5144101				HM624257		NEC	MC421000A9			
	SiliconG	SG3503		Panasonic	Panasonic	MN41C4001				MB841000		OKI	MSC2310Y59			
• TMS4256	Fujitsu	MB81256		Samsung	Samsung	KM41C4001				M5M510008			MSC2317AY59			
	Hitachi	HM50256		Toshiba	Toshiba	TC514101				M5M51008		Peps	PEP1MX9			
• TMS4256	Hyundai	HY51C256		Fujitsu	Fujitsu	MB814400				μPD431000		Samsung	KMM591000A			
		HY53C256		Hitachi	Hitachi	HM514400				μPD431000A		Siemens	HYM910005			
• TMS4256	Mitsubishi	MSM4257		MicronTech	MicronTech	MT4C4001				MC681000		Toshiba	THM91000			
		M5M4256		Mitsubishi	Mitsubishi	M5M44400				CXK581000			THM91000A			
		M5M4257		Mosaic	Mosaic	MDM41000				CXK581001			PEP1MX4			
• TMS4256	Motorola	MT1259		Motorola	Motorola	MCM514400				TC551001			Fujitsu	MB85231		
	NEC	μPD41256		NEC	NEC	μPD424400				CY7C194			Hitachi	HB56B18B		
	OKI	MSM37256		OKI	OKI	MSM514400				ED18465C		MicronTech	MT8C8025M			
		MSM37257A		Panasonic	Panasonic	MN41C41000				MB8184		Mitsubishi	MH1M08B1J			
		MSM41256		Samsung	Samsung	KM44C1000				MB82B84		NEC	MC421000B8			
• TMS4256	Samsung	KM41256		Siemens	Siemens	HYB514400				HM6208			MB85236			
• TMS4256	Vitelc	V51C257		Toshiba	Toshiba	TC514400				HM6708		Fujitsu	MT8C9025M			
		V53C256		Fujitsu	Fujitsu	MB81461				IDT71258		Mitsubishi	MH1M09B1J			
• TMS4256	Western	WCM41256		Hitachi	Hitachi	HM53462				MT5C2564		NEC	MC421000B9			
• TMS4257	Hitachi	HM50257		MicronTech	MicronTech	MT42C4064				M5M5256		Fujitsu	MB85236			
	Mitsubishi	MSM4257		Mitsubishi	Mitsubishi	MB81461				MCM6208		Hitachi	HB56D25636B			
		MSM4257A		Vitelc	Vitelc	V53C261				μPD43254		IBM	6450603			
• TMS4257	National	MSM41257A		Fujitsu	Fujitsu	MB81464				SGS-Thomson		MicronTech	MT8C36256M			
	OKI	MSM41257A		Hitachi	Hitachi	HM50464				IMS1820			MT8C36256MN			
	Samsung	KM41257			HM53461					CXK54256		Mitsubishi	MH25636AJ			
	Toshiba	TMS4257		Hyundai	HY53C464					TC55464		NEC	MC424256A36B			
	Vitelc	V51C257		IDT	DP59264					VT6208		OKI	MCC2320AY59			
		V53C256		Krueger	4464-100 (3513)					PIC7000		Peps	KM25636A			
					4464-120 (3513)					72720		Samsung	KMM536256B			
					4464-150 (3513)					PIC7001		Toshiba	TM362500AS			
TMS44C251	Fujitsu	MB81C4251		• TMS4464	MicronTech	MT4067				PIC7040			PEP4064EC4			
	Hitachi	HM534251		Mitsubishi	Mitsubishi	MCM41464				PIC7041		Peps	MT9068M			
	NEC	HM534253			Mitsubishi	MSM4464P				KS88C22			PEP4064EL9			
		μPD42274		• TMS4464	Motorola	μPD41264				UMC		TI	PEP4164FM9			
	OKI	MSM514251		NEC	NEC	μPD41464				WD9914A			PEP4064EC5			
		MSM514252		• TMS4464	OKI	MSM41464				Fujitsu			MT8068M			
	Samsung	KM42C4256		Samsung	Samsung	KM41464				M5M23C1000			PEP4064EL8			
	Toshiba	TC524256			MT41464A					NMC27C1023			TM4164FM8			
		TC524256A		• TMS4464	Vitelc	V53C464				MSM271000			MT8068M			
TMS44C256	Fujitsu	MB81C4256		TMS4500A	Motorola	TCA4500				MSM271024			MT8068M			
	GoldStar	GM71C4256			National	LM4500				TC571024			PEP4064EL8			
	Hitachi	HM514256			Siemens	TCA4500				WS7C210L			TM4164FL8			
	Hyundai	HY51C4256			VLSI Tech	VL4500A				TC54H1024			MT9068M			
	MicronTech	MT4C4256		• TMS4732	Commodore	MPS2332				PEP1MX9			PEP4064EL9			
		MT4C4256			Fujitsu	P51C69				MB85230			TM4164EL9			
	Mitsubishi	M5M44C256			Hitachi	P51C69				HB56A18B			TM4256EC4			
	Motorola	MCM514256A			Intel	UM2168				MT8C8024M			PEP4256EC4			
	NEC	μPD424256A		• TMS4732						MH1M08A			DPD42569			
	NMB	AAA1M104								MH1M08B0J			MT9259			
	OKI	MSM41005		• TMS4732						MCM81000			MH25609A			
		MSM414256								MC421000A8			MH25609J			
		MSM514256								MSC231148			MC41256A9			
	Samsung	KM44C256		• TMS4732						1MX8			MSC2304KS9			
	Sharp	LH64257								KMM581000A			PEP4256EL9			
	Siemens	HYB514256								MPR68CTE64			KMM49256			
	Toshiba	TC514256		• TMS4732						TM024GAD8			KMM59256			
	Fujitsu	MB81C4258								THM81000			TM4256EL9			
	Hitachi	HM514258								THM81000A			TM4256GU9			
	Hyundai	HY51C4258		• TMS4732						UT67164			PEP4256EC5			
	MicronTech	MT4C4258								UT7164			DPD4256			
	Mitsubishi	M5M44C258		• TMS4732						MB85230			HB561005A			
	Motorola	MCM514258A								HB56A18			DPD411M			
	NEC	μPD424258		• TMS4764						HB56A18B			MB81C1000			
• TMS44C257	OKI	MSM514257								MT8C8024			TH22568			
		MSM514258								MT8C8024M			GM71C1000			
• TMS44C257	Samsung	KM44C258								MH1M08A			HB561003			
	Sharp	LH64258								MH1M08B0J			HM511000			
	Toshiba	TC514258		• TMS4764						MCM81000			HM51101			
TMS44C260	MicronTech	MT4C4259								MC421000A8			HM51102			
										MSC231148			HM561003			
										MSC2313AY58						

• Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Texas Instruments (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
TM4256FC1		(Cont'd)		TM5256	Mitsubishi	M5M4C1000 M5M41000S M5M410000 MCM511000A μPD421000 MC421000 MSM41000 KM41C1000 KM41256A	(3643)	ULN2003	Toshiba	TD62003 TD62103	(3643)	* 24S81	AMD	AM27S185 27S185	
	Hyundai	HY51C1000 HY51C1002			Motorola	NEC		ULN2004	Allegro Micro	ULN2004 ULS2004 XR2204 ULN2004		* 24S81	Fujitsu Hitachi Lansdale National Raytheon	MB7128 HN25085 HL7685 DM87S185 29651 29651A N82S185 S82S185 24S81-55 AM27S185 27S185	
	MicronTech	MT4C1024			OKI	MSM41000			Exar	ULN2004		* 24S81	Signetics	DM87S185 29651 N82S185 S82S185 24S81-55 AM27S185 27S185	
	Mitsubishi	MH25608 MH25609 M5M4C1000 M5M41000S M5M410000			Samsung	KM41C1000 KM41256A			SGS-Thomson	ULN2004	(3643)	* 24S81-55	TI	MB7128 HN25085 HL7685 DM87S185 29651 29651A N82S185 S82S185 DM54S188 DM7577	
	Motorola	μPD421000 MC421000			SGS-Thomson	MKB45F56 HYB511000 TMS4C1024 TM4256FC1		ULN2004A	SiliconG TI	SG2004 ULN2004A	(3643)		AMD	MB7128 HN25085 HL7685 DM87S185 29651 29651A N82S185 S82S185	
	NEC	μPD421000 MC421000			Siemens	HYB511000 TMS4C1024			Allegro Micro	ULN2004 ULS2004 XR2204 ULN2004			Fujitsu	MB7128 HN25085 HL7685 DM87S185 29651 29651A N82S185 S82S185	
	OKI	MSM41000			Toshiba	TC511000 TC511000C TC511001C			Exar	ULN2004			National	DM87S185 29651 29651A N82S185 S82S185	
	Samsung	KM41C1000 KM41256A							Motorola	ULN2004			Raytheon	DM87S185 29651 29651A N82S185 S82S185	
	SGS-Thomson	MKB45F56 HYB511000 TMS4C1024 TM5256		UCN4810A	Allegro Micro	UCN5810 S4534 HEF4534 TL4810			SGS-Thomson	ULN2004	(3643)		Signetics	DM87S185 29651 29651A N82S185 S82S185	
	Siemens	HYB511000			Gould AMI	S4534			SiliconG	SG2004	(3643)				
	TI	TMS4C1024 TM5256		* UDN2841	Allegro Micro	UDN2841 UDN2841		ULN2005	Allegro Micro	ULN2005 XR2205 KA2659		28L22	Fujitsu	MB7118 N82LS135 DM54S188 DM7577	
	Toshiba	TC511000 TC511000C TC511001C		UDN5711	Allegro Micro	UDN5711 UDN5711		ULN2064	Allegro Micro	ULN2064 ULN2064	(3206)	* 28SA030-25	National	DM54S188 DM7577	
TM4256FL8	Dense-Pac	DPD42568 HB561008B MH25608J MH25608J		UDN5712	Allegro Micro	UDN5712 UDN5712			Mitsubishi	M54532		* 28S165-35	AMD	AM27S185 27S185	
	Hitachi	HB561008B			Toshiba	TD62476			Motorola	ULN2064		* 28S165-35	Fujitsu	MB7128 HN25085 HL7685 DM87S185 29651 29651A N82S185 S82S185	
	Mitsubishi	MH25608J		UDN5713	Allegro Micro	UDN5713 UDN5713			SGS-Thomson	ULN2064 ULN2064			National	DM87S185 29651 29651A N82S185 S82S185	
	OKI	MSC2304KS8 MSC2304YS8		UDN5714	Allegro Micro	UDN5714 UDN5714		ULN2065	Allegro Micro	ULN2065 ULN2065	(3206)	* 28S165-35	TI	24S81-55 AM27S191A AM27S191A	
	Peps	PEP4256EL8			Motorola	MC1472 TD62477			TI	SN75064		* 28S166	AMD	AM27S191A AM27S191A	
	Samsung	KMM48256 KMM58256		ULN5713	Toshiba	TD62477			Toshiba	TA75064 TD62064	(3642)				
	TI	TMM4256FL8 TM4256GU8		UDN5714	Allegro Micro	UDN5714 UDN5714		ULN2066	SiliconG TI	ULN2066 ULN2066	(3642)	* 28S166	ATMEL	AT28HC191 AT28HC191L	
TM4256GP8	Peps	PEP4256EL8-LP TM4256GV8		ULN2001	Allegro Micro	ULN2001 ULN2001			Motorola	ULN2066		* 28S166	Cypress	CY7C291 CY7C292 CY7C292A CY7C292AL	
TM4256GU8	Dense-Pac	DPD42568 HB561008B MH25608J			Exar	XR2001 XR2001C XR2201 ULN2001		ULN2067	SiliconG TI	ULN2067 ULN2067	(3642)		Hitachi	HN25169 MCM76101 MCM76160	
	Hitachi	HB561008B			Motorola	MC1374 SN75479 TD62479			TI	SN75066		* 28S166	Motorola	DM77S191 DM87S191 DM87S291A DM87S291B	
	Mitsubishi	MH25608J		ULN2001A	Allegro Micro	ULN2001 ULN2001	(3643)	ULN2068	Motorola	ULN2068	(3206)		National	DM87S191 DM87S291A DM87S291B	
	OKI	MSC2304KS8 MSC2304YS8			SGS-Thomson	ULN2001 ULN2001			SGS-Thomson	ULN2068					
	Peps	PEP4256EL8						ULN2069	SiliconG TI	ULN2069 ULN2069	(3642)	* 28S166	Signetics	93Z510 93Z511 93Z512 93Z511	
	Samsung	KMM48256 KMM58256			Exar	XR2001 XR2001C XR2201 ULN2001			TI	SN75068		* 28S166	TI	N82S191 N82S191A 82S191 TBP38L166 TMS27C291 TMS27C292	
	TI	TMM4256FL8 TM4256GU9		ULN2002	Motorola	ULN2001 ULN2001	(3643)	ULN2074	Motorola	ULN2074	(3206)	* 28S42	AMD	WS57C191 WS57C291B	
TM4256GU9	Dense-Pac	DPD42569 MT9259			SGS-Thomson	ULN2001 ULN2001			SGS-Thomson	ULN2069			AD	OP15 PM157 PM157A	
	MicronTech	MT9259			SiliconG	SG2001 ULN2001A	(3643)	ULN2075	SiliconG TI	SG2067 SN75067	(3642)	* 28S42	Lansdale	HL7649 LF351 LF157A	
	Mitsubishi	MH25609A MH25609J		ULN2001A	Allegro Micro	ULN2001 ULN2001			TI	SN75069			Motorola	LF351 LF157A	
	NEC	MC41256A9							Allegro Micro	ULN2068	(3206)	* 28S42	National	LF351 LF353	
	OKI	MSC2304KS9 MSC2304YS9			Exar	ULN2001 ULN2001		ULN2076	Motorola	ULN2076	(3206)				
	Peps	PEP4256EL9			Motorola	ULN2001 ULN2001			SGS-Thomson	ULN2074					
	Samsung	KMM49256 KMM59256			SGS-Thomson	ULN2001 ULN2001		ULN2077	SiliconG Toshiba	SG2074 TD62074	(3642)	* 28S86	AMD	AM27S181 CY7C282M S25089	
	TI	TMM4256EL9 TM4256GV8		ULN2002	Allegro Micro	ULN2002 ULN2002			TI	ULN2074			Cypress	HN25089 HL7681 DM77LS181	
TM4256GV8	Peps	PEP4256EL8-LP TM4256GV8			SGS-Thomson	ULN2002 ULN2002	(3643)	ULN2078	Allegro Micro	ULN2078	(3206)		Hitachi	DM77S181 DM77S281	
TM4256GV9	TI	TM4256GV8							Micro	ULN2074			National	DM87S181 DM87S281	
TM4256HE4	Dense-Pac	DPD5124 MB85337			Exar	XR2002C XR2202			Motorola	ULN2074					
TM512KBC36	Fujitsu	MB85337			Motorola	ULN2002			SGS-Thomson	ULN2074					
	Hitachi	HB56D51236B			SGS-Thomson	ULN2002				ULN2074					
	IBM	6450604 6450608								ULN2074					
	MicronTech	MT8C36512 MT8C36512DM								ULN2074					
	Mitsubishi	MH51236AJ								ULN2074					
	NEC	MC424512A36B								ULN2074					
	OKI	MSC2321AYS18								ULN2074					
	Peps	MH51236A								ULN2074					
	Samsung	KMM536512B								ULN2074					
	Toshiba	THM36512AS								ULN2074					
		THM36512OAS								ULN2074					
TM5256	Dense-Pac	DPD411M MB81C1000								ULN2074					
	Fujitsu	TH22568 GM71C1000								ULN2074					
	GoldStar	HB561003								ULN2074					
	Hitachi	HM511000 HM51101 HM51102 HM561003								ULN2074					
	Hyundai	HY51C1000 HY51C1002								ULN2074					
	MicronTech	MT4C1024								ULN2074					
	Mitsubishi	MH25608 MH25609								ULN2074					
		(Continued)								ULN2074					

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ALT. SOURCE DIRECTORY

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Toshiba America Electronic Components (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
TA78M24	TI	μA78M24	(Cont'd)	TA79012	National	μA79M12M μA7912 LM79M12	(Cont'd)	TC4001B	SGS-Thomson	HCC4001 HCF4001 HEF4001	(Cont'd)	TC4014B	SGS-Thomson	HCC4014 HCF4014 HEF4014	(Cont'd)
TA78005	GoldStar	GL7805			Samsung	MC79M12C		TC4001UB	Signetics	CD4001UB		TC4015B	Signetics	CD4015B	
	National	LM340-5			SGS-Thomson	MC7912			Harris	MC14001UB			Harris	MC14015B	
	Samsung	MC7805				μA7912			Motorola	CD4001UB			Motorola	MC14015	
	SGS-Thomson					L7912			National	F4001			National	CD4015	
		μA7805			TI	μA79M12M				MM74C02				F4015	
		L7805			Toshiba	TA78024			OKI	MSM4001			OKI	MM74C164	
TA78006	Toshiba	TA79005		TA79015	GoldStar	GL7915		TC4002B	Harris	CD4002B			SGS-Thomson	MSM4015	
	GoldStar	GL7806			Samsung	MC7915			Motorola	MC14002				HCC4015	
	Samsung	MC7806			SGS-Thomson				National	CD4002				HCF4015	
	SGS-Thomson					μA7915				F4002			TC4016B	HEF4015	
		μA7806				L7915			SGS-Thomson	HCC4002				CD4016B	
		L7806			Unitrode	UC320-15				HCF4002				MC14016	
TA78008	GoldStar	GL7808		TA79018	Samsung	MC7918		TC4006B	Signetics	HEF4002				MC14066	
	Motorola	MC08			SGS-Thomson				Harris	CD4006B				CD4016	
	Samsung	MC7808				L7918			Motorola	MC14006				CD4066	
	SGS-Thomson								National	CD4006				F4016	
		μA7808		TA79020	SGS-Thomson	L7920				F4006				F4066	
		L7808								F4006B			SGS-Thomson	HCC4016	
TA78009	GoldStar	GL7809			SiliconG	SG7920A (3642)			SGS-Thomson	HCC4006				HCC4066	
	Hitachi	HA17809		TA79024	TI	μA7920				HCF4006				HCF4016	
	Motorola	MC7809			GoldStar	GL7924				HEF4006				HCF4066	
	National	LM7809			Hitachi	HD74LS195A			Signetics	HEF4006				HEF4016	
		LM7809			Motorola	MC71992A		TC4007UB	Harris	CD4007B			Signetics	HEF4066	
	TI	μA7809				MC7924			Motorola	MC14007				TC4066B	
TA78010	National	μA7810				SN74LS195A			National	CD4007				PIC7516	
		LM7810			National	μA7924				F4007			TC40160B	CD40160B	
	SGS-Thomson					DM74LS195			SGS-Thomson	HCC4007				MC14160	
		L7810				LM7924				HCF4007				MC40160B	
		μA7810				74LS195A				HEF4007				CD40160	
TA78012	GoldStar	GL7812			Panasonic	DN74LS195A		TC4008B	Signetics	HEF4007				CD40160B	
	National	LM340-12			Samsung	MC7924C			Harris	CD4008B				F40160	
	Samsung	MC7812			SGS-Thomson				Motorola	MC14008					
	SGS-Thomson					L7924			National	CD4008			SGS-Thomson	HCC40160	
		μA7812				T74LS195A				F4008				HCC40160B	
		L7812			TI	μA7924				MM74C83				HCF40160	
TA78015	GoldStar	GL7815		TA8027P	Samsung	KA8702			SGS-Thomson	HCC4008				HCF40160B	
	Lambda	LAS1515		TA8119P	Samsung	KA22134				HCF4008				HEF40160	
	Samsung	KA340T15		TA8127	Samsung	KA2292			Signetics	HEF4008			TC40161B	CD40161B	
		MC7815		TA8205AM	Samsung	KA22102			Harris	CD4009UB				MC14016B	
	SGS-Thomson			TCC55417	LogicDev	L7C164		TC4009UB	Motorola	MC14009				MC14161	
		μA7815				L7C165			National	CD4009				CD40161	
TA78018	Samsung	MC7818			Toshiba	TC55417			SGS-Thomson	HCC4009				CD40161B	
	SGS-Thomson				Vitellic	V61C62				HCF4009				F40161	
		μA7818		TC102C	NEC	μPD3573D				HCF4009			Panasonic	MN40161	
		L7818		TC103C	NEC	μPD3574D		TC4010B	Harris	CD4010B			SGS-Thomson	HCC40161	
TA78020	National	μA7910		TC106C	NEC	μPD3571D			Motorola	MC14010				HCC40161B	
		LM7910		TC132C	NEC	μPD3575D			National	CD4010				HCF40161	
	TI	μA7910		TC17G014	IDT	IDT7140			SGS-Thomson	HCC4010				HCF40161B	
TA78024	AD	AD7824		TC17G022	NEC	μPD7220A				HCF4010				HEF40161	
	GoldStar	GL7824		TC2018	AD	ADG506A (3237)			SGS-Thomson	HCC40102			TC40162B	CD40162B	
	Maxim	AD7824			Cypress	CY6116				HCC40102B				MC14162	
	Samsung	MC7824			EDI	ED18802		TC40102B	SGS-Thomson	HCF40102				CD40162	
	SGS-Thomson				Harris	DG506A				HCF40102B				CD40162B	
		μA7824				HM6516				HCF40102B				F40162	
		L7824				HM65162									
TA79L005	TI	LM340-24			Hitachi	HM6716		TC40103B	SGS-Thomson	HCC40103				HCC40162	
TA79L012	Motorola	MC79L05				HM6719				HCC40103B				HCC40162B	
	Motorola	MC79L12			IDT	IDT6116				HCF40103				HCF40162	
	Samsung	MC79L12AC				IDT6116A				HCF40103B				HCF40162B	
TA79L015	Motorola	MC79L15				IDT6116L								HEF40162	
	Samsung	MC79L15AC				IDT6116S		TC40104B	SGS-Thomson	HCC/HCF40104				HEF40162	
TA79L018	Motorola	MC79L18			Intel	81C28				HCC40104B				CD40163B	
	Samsung	MC79L18AC			LogicDev	L76116				HCF40104				MC140163B	
TA79L24	Motorola	MC79L24			Maxim	DG506A				HCF40104B				MC14163	
	Samsung	MC79L24AC			MicronTech	MT51C1608		TC40107B	SGS-Thomson	HCC40107				CD40163B	
TA79005	GoldStar	GL7805			Motorola	MCM2018A				HCF40107				F40163	
	National	LM340-5				MCM6116				F4011					
	Samsung	MC7805			Performance	P4C116		TC4011B	National	MM74C00			SGS-Thomson	HCC40163B	
	SGS-Thomson				Saratoga	SSM6116				MSM4011				HCF40163B	
		μA7805			Sony	CKX5814P				CD4011UB				HEF40163	
		L7805			UMC	UM6116-35 (3688)		TC4011UB	OKI	MSM4011				MC14017	
TA79008	Toshiba	TA78005			Vitellic	V16C16			Harris	CD4011UB			Signetics	CD4017	
	National	μA79M08			VLSI Tech	V20C19			Motorola	MC14011UB				F4017	
	Samsung	MC79M08C				HSC4000			National	CD4011UB					
	SGS-Thomson	MC7908		TC235C	Harris	MC14000				CD4012B					
				TC4000B	Motorola	MC14000B		TC4012B	Harris	MC14012					
						CD4000			Motorola	CD4012					
						CD4000B			National	F4012					
TA79009	GoldStar	L7908				HCC4000			SGS-Thomson	HCC4012				HCC4017	
	National	GL7909				HCC4000B				HCF4012				HCF4017	
		μA7909				HCF4000				HEF4012				HEF4017	
	SGS-Thomson	LM7909				HCF4000B				M4027				CD40174B	
		μPC7909				HEF400		TC4013B	Signetics	CD4014B				MC14174	
		L7909				HEF4001B			National	MC14014				CD40174B	
TA79012	GoldStar	GL7912		TC4001B	Signetics	MC14001			Harris	CD4014				F40174B	
	Motorola	MC79M12				CD4001			Motorola	CD4014				HCC40174	
	National	μA79M12							National	F4014				HCC40174B	

* Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

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Toshiba America Electronic Components (Cont'd)				TC4023B	National	F4023 MM74C10	(Cont'd)	TC4034B	SGS-Thomson	HCC4034 HCF4034	(Cont'd)	TC4054B	Harris SGS-Thomson	CD4054B HCC4054 HCF4054	
TC40174B	SGS-Thomson	HCF40174 HCF40174B HEF40174	(Cont'd)		SGS-Thomson	HCC4023 HCF4023		TC4035B	Harris Motorola National	CD4035B MC14035 CD4035B		TC4055B	Harris SGS-Thomson	CD4055B HCC4055 HCF4055	
TC40175B	Signetics Motorola National	MC14175 MC40175 CD40175 F40175 MM54C175 MM74C175		TC4024B	Signetics Harris Motorola	HEF4023 CD4024B MC14024 MC4024 CD4024 F4024			SGS-Thomson	HCC4035 HCF4035		TC4056B	Harris Lansdale SGS-Thomson	CD4056B ML4056 HCC4056 HCC4056B	
TC40177B	Signetics	HEF40175			SGS-Thomson	HCC4024 HCF4024		TC4038B	Signetics Harris Motorola	HEF4035 CD4038B MC14038				HCF4056B HCF4056B	
TC4018B	Harris Motorola National	CD40117B MC14018 CD4018 F4018		TC4025B	Signetics Harris Motorola National	HEF4024 CD4025B MC14025 CD4025 F4025		TC4040B	SGS-Thomson Harris Motorola National	HCC4038 HCF4038 CD4040B MC14040 CD4040 F4040		TC4063B	Fujitsu Harris Motorola National SGS-Thomson	MB4063 CD4063B MC14443 μA9708 HCC4063 HCF4063	
	SGS-Thomson	HCC4018 HCF4018 HEF4018			SGS-Thomson	HCC4025 HCF4025			SGS-Thomson	HCC4040 HCF4040		TC4066B	Harris Motorola	CD4016B MC14016 MC14066	
TC4019B	Signetics Harris National	CD4019B CD4019 F4019 F4019B MSM4019		♦ TC4027	Signetics Harris Motorola	HEF4025 CD4027B MC14027 MC14027B		TC4042B	Signetics Harris Motorola National	HEF4040 CD4042B MC14042 CD4042 F4042			National	CD4016 CD4066 F4016 F4066	
	OKI SGS-Thomson	HCC4019 HCF4019 HEF4019		♦ TC4027	National	CD4027 CD4027B F4027			SGS-Thomson	HCC4042 HCF4042			SGS-Thomson	HCC4016 HCC4066 HCF4016 HCF4066	
TC40192B	Signetics Harris	CD40192B CD4029B MC14029 HCF4029		♦ TC4027	OKI SGS-Thomson	MM74C76 MSM4027		TC4043B	Signetics Harris Motorola National	HEF4042 CD4043B MC14043 CD4043		TC4068B	Signetics Toshiba Unitrode Harris Motorola National SGS-Thomson	CD4016B HEF4066 TC4016B PIC7516 CD4068B MC14068 F4068	
	Motorola National	CD4029 F40192 F4029		♦ TC4027	Signetics Toshiba Harris Motorola	HEF4027 TC4027B CD4027B MC14027B		TC4044B	Signetics Harris Motorola	HEF4043 CD4044B MC14044 MC4044				HCC4068 HCF4068 HEF4068	
	SGS-Thomson	HCC40192 HCC4029 HCF40192 HCF4029		TC4027B	National	CD4027 CD4027B F4027			National	CD4044 F4044		TC4069UB	Signetics Harris Motorola National	CD4069UB MC14069 CD4069 F4069	
TC40193B	Signetics Toshiba Harris National	HEF40192 TC4029B CD40193B CD40193 MM54C193 MM74C193			OKI SGS-Thomson	MSM4027 HCC4027 HCC4027B HCF4027		TC4047B	SGS-Thomson	HCC4044 HCF4044			OKI SGS-Thomson	MM54C04 MM74C04 MSM4069	
	SGS-Thomson	HCC40193 HCF40193		TC4028B	Signetics Harris Motorola National	HEF4027 CD4028B MC14028 CD4028 F4028			SGS-Thomson	CD4047 F4047		TC4071B	Signetics Harris Motorola National	HCC4069 HCF4069 HEF4069 CD4071B MC14071 MC14071B CD4071 CD4071B F4071	
TC40194B	Signetics Harris Motorola	HEF40193 CD40194B MC140194B MC14194 F40194			OKI SGS-Thomson	MSM4028 HCC4028 HCF4028		TC4049B	Signetics Harris Motorola National	CD4049UB MC14049 CD4049 F4049			OKI SGS-Thomson	MM74C32 MSM4071	
	SGS-Thomson	HCC40194 HCC40194B HCF40194 HCF40194B		TC4029B	Signetics Harris	HEF4028 CD40192B CD4029B			SGS-Thomson	HCC4049 HCF4049			SGS-Thomson	HCC4071 HCC4071B HCF4071 HCF4071B	
TC4020B	Signetics Harris Motorola National	HEF40194 CD4020B MC14020 CD4020 F4020			Motorola National	MC14029 CD40192 CD4029 F40192 F4029		TC4050B	Signetics Harris Motorola National	HEF4049 CD4050B MC14050 CD4050 F4050		TC4072B	Signetics AD Fujitsu Harris Motorola National	HEF4071 DAC08 MB4072 CD4072B MC14072 CD4072 F4072	
	SGS-Thomson	HCC4020 HCF4020			SGS-Thomson	HCC40192 HCC4029 HCF40192 HCF4029			SGS-Thomson	HCC4050 HCF4050				HCC4073 HCF4073	
TC4021B	Signetics Harris Motorola National	HEF4020 CD4021B MC14021 CD4021 F4021			Signetics Toshiba	HEF40192 TC40192B		TC4051B	Signetics Harris Motorola National	HEF4050 CD4051B MC14051 CD4051 F4051		TC4073B	Signetics Harris Motorola National	CD4073B MC14073 CD4073 F4073	
	SGS-Thomson	HCC4021 HCF4021		TC4030B	Signetics Harris National	HEF40192 CD4030B CD4030 F4030			SGS-Thomson	HCC4051 HCF4051				HCC4073 HCF4073	
TC4022B	Signetics Harris Motorola National	HEF4021 CD4022B MC14022 CD4022 F4022			SGS-Thomson	HCC4030 HCF4030		TC4052B	Signetics Harris	HEF4051 HI1828A			SGS-Thomson	HCC4073 HCF4073	
	SGS-Thomson	HCC4022 HCF4022		TC4032B	Signetics Harris Motorola	HEF40192 CD4032B MC14032		TC4053B	Signetics Harris Motorola National	HEF4051 MC14052 CD4053B MC14053 CD4053 F4053		TC4075B	Signetics Harris Motorola National	HEF4073 CD4075B MC14075 CD4075 F4075	
TC4023B	Signetics Harris Motorola National	HEF4022 CD4023B MC14023 CD4023	(Continued)	TC4034B	Signetics Harris Motorola National	HEF4032 CD4034B MC14034 CD4034 F4034	(Continued)		SGS-Thomson	HCC4053 HCF4053					(Continued)

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Toshiba America Electronic Components (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
TC4075B	SGS-Thomson	HCC4075 HCF4075 HEF4075	(Cont'd)	TC4099B	National	CD4099B	(Cont'd)	TC4520B	National	CD4520 F4520	(Cont'd)	TC4584B	Motorola	MC14106 MC14584 MC14584B	(Cont'd)
TC4076B	Signetics Harris Motorola National	CD4076B MC14076 CD4076 F4076 MM54C173 MM74C173		TC4502B	Harris Motorola	HCC4099B HCF4099 HCF4099B CD4502B MC14502 MC14502B		TC4521B	Signetics Harris Motorola National SGS-Thomson	HCC4520 HCF4520 HEF4520 CD4521B MC14521 F4521		TC4585B	SGS-Thomson	HCC40106 HCF40106 HEF40106 CD4585B MC14585 F40085 MM74C85	
TC4077B	SGS-Thomson	HCC4076 HCF4076 HEF4076 CD4077B MC14077 MC14077B CD4077 F4077	(Cont'd)	TC4503B	Signetics Harris Motorola National	HCC4502 HCC4502B HCF4502 HCF4502B MK4502 HEF4502 CD4503B MC14503 CD4503 F40097B		TC4522B	Signetics Motorola National	HCC4045 HCF4045 HEF4521 MC14522B CD4522 CD4522B F4522		TC511000	SGS-Thomson	HCC4585 HCF4585 HEF4585 DPD411M MB81C1000 TH22568	
TC4078B	Signetics Harris Motorola National SGS-Thomson	HCC4077 HCC4077B HCF4077 HCF4077B HEF4077 CD4078B MC14078 F4078		TC4508B	Harris Motorola SGS-Thomson	HCC4503 CD4508B MC14508 HCC/HCF4508 HCC4508 HCF4508 HEF4508 CD4510B MC14510 CD4510 F4510		TC4526B	Motorola National	MC14526 CD4526 F4526 HEF4526 CD4527B MC14527 National CD4527 F4527		TC511000	GoldStar Hitachi	GM71C1000 HB561003 HM511000 HM51101 HM51102 HM561003 HY51C1000 HY51C1002	
TC4081B	Signetics Harris Motorola National	HCC4078 HCF4078 HEF4078 CD4081B MC14081 CD4081 F4081 MM74C08 MSM4081	(Cont'd)	TC4510B	Signetics Harris Motorola National	HCC4510 HCF4510 HEF4510 CD4511B MC14511 CD4511 F4511 μPD4511		TC4528B	Signetics Motorola National	HCC4527 HCF4527 HEF4527 MC14528 CD4528 F4528 MM74C221		TC511000	MicronTech Mitsubishi	MT4C1024 MH25608 MH25609 M5M4C1000 M5M41000S M5M410000 MCM511000A μPD421000 MC421000 MSM41000 KM41C1000 KM41256A	
TC4082B	OKI SGS-Thomson	HCC4081 HCF4081 HEF4081 CD4082B MC14082 National CD4082 F4082		TC4511B	Signetics Harris Motorola National	HCC4511 HCF4511 HEF4511 CD4512B MC14512 CD4512 F4512		TC4530B	Signetics Motorola	HCC4098 HCF4098 HEF4528 MC14530B		TC511000C	Motorola NEC	MCM511000A μPD421000 MC421000 MSM41000 KM41C1000 KM41256A	
TC4085B	Signetics Harris Motorola National	HCC4082 HCF4082 HEF4082	(Cont'd)	TC4512B	Signetics Harris Motorola National	HCC4511 HCF4511 HEF4511 CD4512B MC14512 CD4512 F4512		TC4531B	Signetics Motorola National SGS-Thomson	HCC40101 MCF40101 HEF4531 CD4532B MC14532 National F4532		TC511000C	Siemens TI	MKB45F56 HYB511000 TMS4C1024 TM4256FC1 TM5256 TC511000C TC511001C DPD411M MB81C1000 TH22568	
TC4086B	SGS-Thomson	HCC4085 HCC4085B HCF4085 HCF4085B HEF4085 CD4086B MC14506		TC4514B	SGS-Thomson	HCC4512 HCF4512 HCC4514 HCF4514 HEF4514 CD4515B MC14515 CD4515 F4515		TC4532B	Signetics Harris Motorola National SGS-Thomson	HCC4532 HCF4532 HEF4532 CD14538B MC14538 MC14538B CD4538 CD4538B MSM4538		TC511000C	GoldStar Hitachi	GM71C1000 HB561003 HM511000 HM51101 HM51102 HM561003 HY51C1000 HY51C1002	
TC4093B	Signetics Harris Motorola National	HCC4086 HCC4086B HCF4086 HCF4086B HEF4086B CD4093B MC14093 MC14093B CD4093B F4093B	(Cont'd)	TC4515B	Signetics Harris Motorola National	HCC4515 HCF4515 HEF4515 CD4516B MC14516 CD4516 F4516		TC4538B	Signetics Harris Motorola	HCC4532 HCF4532 HEF4532 CD14538B MC14538 MC14538B CD4538 CD4538B MSM4538		TC511000C	Dense-Pac Fujitsu	DPD411M MB81C1000 TH22568	
TC4094B	SGS-Thomson	HCC4093 HCC4093B HCF4093 HCF4093B HEF4093 CD4094B MC14094 MC14094B CD4094B		TC4516B	Signetics Harris Motorola National	HCC4515 HCF4515 HEF4515 CD4516B MC14516 CD4516 F4516		TC4539B	Signetics Harris Motorola National SGS-Thomson	HCC4538B HCF4538B HEF4538 MC14539 MC14539B F4539 HEF4539 CD4543B MC14543 MC14543B CD4543 F4543		TC511000C	Motorola NEC	MCM511000A μPD421000 MC421000 MSM41000 KM41C1000 KM41256A	
TC4099B	Signetics Harris Motorola	HCC4094 HCC4094B HCF4094 HCF4094B HEF4094 CD4099B MC14099 MC14099B	(Continued)	TC4518B	Signetics Harris Motorola National	HCC4516 HCF4516 HEF4516 CD4518B MC14518 CD4518 F4518	(Continued)	TC4555B	Signetics Harris Motorola National SGS-Thomson	HCC4555 HCF4555 HEF4555 CD4556B MC14556 F4556	(Continued)	TC511001	OKI Samsung	MSM41000 KM41C1000 KM41256A	(Continued)

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Toshiba America Electronic Components (Cont'd)				TC514256	Samsung	KM44C256	(Cont'd)	TC531000P	Sharp	LH531000	(Cont'd)	TC54256	SEEQ	27C256	(Cont'd)
TC511001			(Cont'd)		Sharp	LH64257			UMC	UM23C1024			TI	TMS27C256	
					Siemens	HYB514256		TC5316200	Fujitsu	MB831620				TMS27PC256	
TC511001C	Samsung	KM41C1001		TC514258	Fujitsu	MB81C4258		TC53200P	NEC	μPD23C2001		TC54512	Toshiba	TC5256	
	TI	TMS4C1025			Hitachi	HM514258			Samsung	KM23C2000			VLSI Tech	VT27C256	
	Dense-Pac	DPD411M			Hyundai	HY51C4258			Sharp	LH532100			Waferscale	WS27C256L	
	Fujitsu	MB81C1000			MicronTech	MT4C4258		TC53257	UMC	UM23C2001			Fujitsu	MBM27C512	
		TH22568			Mitsubishi	M5M44C258			Catalyst				Hitachi	HN27C512G	
	GoldStar	GM71C1000			Motorola	MCM514258A			Semi	CAT71C256			IDT	IDT7M856S	
	Hitachi	HB561003			NEC	μPD424258			Gould AMI	S23256				IDT8M824	
		HM511000				μPD42458			NCR	NCR23256			Krueger	27C512-200	(3513)
		HM51101			OKI	MSM514257			OKI	MSM38256				27C512-250	(3513)
		HM51102				MSM514258			Panasonic	MN23256					
	HM561003				KM44C258				MN23257			Mitsubishi	M5M27512		
	Hyundai	HY51C1000		TC514400	Sharp	LH64258			S-MOS	SMM23256			National	NMC27C512	
		HY51C1002			Fujitsu	MB814400				SMM6325			Ricoh	TMS27C512	
	MicronTech	MT4C1024			Hitachi	HM514400			Signetics	23256			SGS-Thomson		
	Mitsubishi	MH25608			MicronTech	MT4C4001		TC53257P		23256A		TC55B88	TI	TMS27C512	
		MH25609			Mitsubishi	M5M44400			VLSI Tech	VT23256			Toshiba	TC57512	
		M5M4C1000			Mosaic	MDM41000			Hitachi	HN623257P		VLSI Tech	VT27C512		
		M5M41000S			Motorola	MCM514400			Mitsubishi	M5M23256		Cypress	CY7B185		
		M5M410000			NEC	μPD424400			NEC	μPD23C256E		Fujitsu	MB82B78		
	Motorola	MCM511000A			OKI	MSM514400			Samsung	KM23256		TC5501	Harris	HA5101	
	NEC	μPD421000			Panasonic	MN41C41000				KM23257			Intel	5101	
		MC421000			Samsung	KM44C1000				LH53257		MicroNet	MN5101	(3547)	
	OKI	MSM41000		TC514402	TI	TMS44400			Sharp	UM23C256		Mitsubishi	M5L5101		
	Samsung	KM41C1000			NEC	μPD424402		TC534000	UMC	UM23C256		Motorola	MCM51101		
		KM41256A			Panasonic	MN41C41002			Fujitsu	MB834200			MCM145101		
	SGS-Thomson	MKB45F56		TC514410	Hitachi	HM514410			Hitachi	HN62404		TC5501	National	MM74C920	
					NEC	μPD424410			Mitsubishi	M5M23C400			Panasonic	MNS101	
	Siemens	HYB511000		TC518128	Fujitsu	MB81C8128			NEC	μPD23C4000		Sharp	LH5101		
	TI	TMS4C1024			Hitachi	HM658128			Sharp	LH534000		TC5504	Cypress	CY7C147	
		TM4256FC1				658128			Toshiba	TC534000P (3678)			Harris	HM6504	
		TM5256								TC534200		Hitachi	HM4315		
	Toshiba	TC511000			Krueger	658128	(3513)		UMC	UM23C4000		Intel	5104		
TC511002		TC511000C		TC51832	NEC	μPD428128		TC534000P	Fujitsu	MB834200		Mitsubishi	M58981		
	Fujitsu	MB81C1002			GoldStar	GM76C256			Hitachi	HN62404		National	NMC6504		
	Hitachi	HM511002			Hitachi	HM65256			Mitsubishi	M5M23C400		OKI	MSM5104		
	MicronTech	MT4C1026				65256			NEC	μPD23C4000		Rockwell	R6504		
	Mitsubishi	M5M4C1002			IDT	IDT7M856S			Sharp	LH534000		Fujitsu	MB841000		
	Motorola	MCM511002A				IDT8M824			Toshiba	TC534000 (3678)		Hitachi	HM628128		
	NEC	μPD421002				65256	(3513)			TC534200		Mitsubishi	M5M510008		
	NMB	AAA1M100		TC524128A		M5M5256			UMC	UM23C4000			M5M51008		
	OKI	MSM41002			Mitsubishi	HM538122		TC534200	Fujitsu	MB834200		NEC	μPD431000		
		MSM41C1002			Hitachi	M5M482128			Hitachi	HN62404			μPD431000A		
	TI	TMS4C1027			Mitsubishi	N5N482128			NEC	μPD23C4000		Samsung	KM681000		
	Vitelc	V51C101				μPD42275			Sharp	LH534000		Sony	CKX581000		
TC511664	MicronTech	MT4C1664		TC524256	Fujitsu	MB81C4251			Toshiba	TC534000P (3678)		TI	TMS62828		
TC511665	MicronTech	MT461664				MB81C4253		TC53512P	UMC	UM23C4000		TC551001PL	Cypress	CYM1421	
	TI	TMS416C64			Hitachi	HM534251			NCR	NCR23C512			Dense-Pac	CYM1421HD	
						HM534253			Samsung	KM23C512			DPS128M8		
	Fujitsu	MB814101				M5M44C2256			Sharp	LH53513			DPS128M8L		
	Dense-Pac	DPD4MM1			NEC	μPD42273			UMC	UM23C512 (3688)			DPS41288LP	(3376)	
	Fujitsu	MB814100				μPD42274			VLSI Tech	VT23512				(3376)	
	Hitachi	HM514100			OKI	MSM514251		TC5364P	Mitsubishi	M5M2364			EDI	DPS41288P	(3376)
	MicronTech	MT4C1004			Samsung	KM42C4256			NEC	μPD23C64E				EDH8M8128	
	Mitsubishi	M5M44100			TI	TMS44C251			Samsung	KM2365				EDH8M8128C	
		M5M441000			Toshiba	TC524256A			Sharp	LH2369				EDH8832	
	Mosaic	MDM14000		TC524256A	Fujitsu	MB81C4251			Toshiba	TC5365P				EDH88128C	
	Motorola	MCM514100				MB81C4253			UMC	UM23C64				EDH88130C	
	NEC	μPD424100			Hitachi	HM534251			Mitsubishi	M5M2364				EDH88130C-100	
	OKI	MSM514100				HM534253			NEC	μPD23C64E				EDH88130C-55	
	Panasonic	MN41C4000			Mitsubishi	M5M44C2256			Samsung	KM2365				EDH88130C-70	
	Samsung	KM41C4000			NEC	μPD42273			Sharp	LH2369				EDH88130C-90	
	Siemens	HYB514100				μPD42274			Toshiba	TC5364P			Harris	HM8832	
	TI	TMS44100			OKI	MSM514251		TC538200	UMC	UM23C64			Hyundai	HY63C256	
TC514101	Hitachi	HM514101				MSM514252		TC54H1024	Fujitsu	TMX27PC210			Inova	S128K8	
	Mitsubishi	M5M44101				KM42C4256		TC541000	SGS-Thomson					S32K8	
	NEC	μPD424101				TMS44C256				IMS2800			IDT	IDT7M856S	
	OKI	MSM5144101		TC524257	Hitachi	HM534252				IMS2801				IDT71024	
	Panasonic	MN41C4001		TC528128	Hitachi	HM538122		TC54256	ATMEL	AT27HC256				IDT8M824	
	Samsung	KM41C4001			Mitsubishi	M5M482128				AT27256			LogicDev	L7C199	
	TI	TMS44101				N5N482128			Catalyst	CAT27HC256			Mitsubishi	M5M51008P	
TC514102	Mitsubishi	M5M44102				μPD42275			Semi	HN27C256			Mosaic	MSM8128S	
	NEC	μPD424102			NEC	TMS48C121			Hitachi	27C256	(3501)		Mosel	MS88128	
	Panasonic	MN41C4002			Toshiba	TC524128A			Intel	27C256-200	(3513)		Peps	S128KX8	(3573)
	Samsung	KM41C4002			Fujitsu	MB831000			Krueger	27C256-250	(3513)		Samsung	KM681000L	
	GoldStar	GM71C4256				MB831124				27C256-300	(3513)		Sony	CKX581000P	
	Hitachi	HM514256			Hitachi	HM62301						TC5513	UMC	UM621024	
	Hyundai	HY51C4256			NCR	NCR23C1000							Cypress	CY7C148	
	MicronTech	MT4C256			Toshiba	TC571000			Microchip	RO9256		TC5513	Harris	HA5114	
		MT4C4256				HN62321E				27C256			Intel	5114	
	Mitsubishi	M5M44C256				HN62321E				M5M27C256			M58981		
		M5M44256				M5M23C100A				OKI	MSM27C256		Mitsubishi	MSM5114	
	Motorola	MCM514256A				KM23C1000				Ricoh	RD27C256		OKI		(Continued)
	NEC	μPD424256					(Continued)				(Continued)				(Continued)
		μPD424256A													
	NMB	AAA1M104													
	OKI	MSM41005													
		MSM414256													
		MSM514256													
			(Continued)												

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALT SOURCE DIRECTORY

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
Toshiba America Electronic Components (Cont'd)				TC5565	Sony	CKX5164P CKX5863P CKX5864 CKX5865 CKX5865P		TC5585A	Motorola	MCM6064 MCM61L64 MCM6164C		TC57H256	Motorola OKI SGS-Thomson	MCM67256 MSM27256	(Cont'd)	
TC5563	Dense-Pac Exar Fujitsu	DPS88H08 XR8464 MB8B464 MB81C78A MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264		TC5565	Toshiba	TC5563 TC5565A TC5588	(3682)	TC5585A	National OKI	DP8464 MSM5164 MSM5165 MSM5188		TC571000	Sharp TI Fujitsu	M27256 LH57256 TMS27C256 MB831000 MB831124 HM62301 NCR23C1000		
	GoldStar Harris Hitachi	MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264		TC5565	UMC Vitellic	UM6264A V61C62 V62C64 V63C64 VT20C99		TC5585A	S-MOS	SRM2064 SRM2264		TC571001	Hitachi NCR AMD ATMEL	HM62301 NCR23C1000 AM27C010 AT27C010 AT27C1024		
	Hyundai IDT Krueger	6264-100 (3513) 6264-120 (3513) 6264-150 (3513) 6264LP-100 (3513) 6264LP-120 (3513) 6264LP-150 (3513)		TC5565	VLSI Tech Dense-Pac Exar Fujitsu	DPS88H08 XR8464 MB8B464 MB81C78A MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264		TC5585A	Sony	CKX5164P CKX5863P CKX5864 CKX5865 CKX5865P			Catalyst Semi Fujitsu Hitachi	CAT27C210 CAT27010 MBM27C1001 HN27C010 HN27C010G HN27C101 HN27C101G HN27C301G		
	MicroLinear Mitsubishi	ML8464 AM99C88 M5M5178			GoldStar Harris Hitachi	MB8B464 MB81C78A MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264		TC5585A	UMC Vitellic	UM6264A V61C62 V62C64 V63C64 VT20C99			Intel Krueger Mitsubishi	27010 27210 27C210 M5M27C101K M5M27C102 M5M27C102K		
	Motorola	MCM6064 MCM61L64 MCM6164C			Hyundai IDT Krueger	6264-100 (3513) 6264-120 (3513) 6264-150 (3513) 6264LP-100 (3513) 6264LP-120 (3513) 6264LP-150 (3513)		TC5585A	VLSI Tech Dense-Pac Exar Fujitsu	DPS88H08 XR8464 MB8B464 MB81C78A MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264		TC571024	National NEC S-MOS Waferscale Fujitsu Mitsubishi National OKI	NMC27C010 μPD27C1001A SMM63100 WS27C010L MBM27C1000 M5M23C1000 NMC27C1023 MSM271000 MSM271024 TMS27C210 TMX27PC010		
	S-MOS	SRM2064 SRM2264			MicroLinear Mitsubishi	ML8464 AM99C88 M5M5178			GoldStar Harris Hitachi	GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264			TI	MSM271000 MSM271024 TMS27C210 TMX27PC010		
	Samsung	KM6264 KM6264A LH5164			Motorola	MCM6064 MCM61L64 MCM6164C			Hyundai IDT Krueger	6264-100 (3513) 6264-120 (3513) 6264-150 (3513) 6264LP-100 (3513) 6264LP-120 (3513) 6264LP-150 (3513)		TC57256	Waferscale ATMEL	WS27C210L AT27HC256 AT27256		
	Sharp	LH5165			National OKI	MSM5164 MSM5165 MSM5188			MicroLinear Mitsubishi	ML8464 AM99C88 M5M5178			Catalyst Semi Hitachi Intel Krueger	CAT27HC256 HN27C256 27C256 (3501) 27C256-200 (3513) 27C256-250 (3513) 27C256-300 (3513)		
	Sony	CKX5164P CKX5863P CKX5864 CKX5865 CKX5865P			S-MOS	SRM2064 SRM2264			Motorola	MCM6064 MCM61L64 MCM6164C						
	Toshiba	TC5565A (3682) TC5588			Samsung	KM6264 KM6264A LH5164 LH5165			National OKI	DP8464 MSM5164 MSM5165 MSM5188						
	UMC Vitellic	UM6264A V61C62 V62C64 V63C64			Sharp	LH5164 LH5165			S-MOS	SRM2064 SRM2264						
TC5564	VLSI Tech IDT	VT20C99 IDT71C65			Sony	CKX5164P CKX5863P CKX5864 CKX5865 CKX5865P			Samsung	KM6264 KM6264A LH5164 LH5165		TC57512	Toshiba VLSI Tech Waferscale Fujitsu Hitachi IDT	TC54256 VT27C256 WS27C256L MBM27C512 HN27C512G IDT7M856S IDT8M824		
TC5565	Mitsubishi NEC	M5M5164 μPD4464			Toshiba	TC5563 TC5588			Sharp	LH5164 LH5165			Krueger	27C512-200 (3513) 27C512-250 (3513)		
TC5565	Dense-Pac Exar Fujitsu	DPS88H08 XR8464 MB8B464 MB81C78A MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264		TC5565AL	VLSI Tech Hitachi IDT	VT20C99 HM6264L DPS9264 IDT8M864L		TC5585A	UMC Vitellic	UM6264A V61C62 V62C64 V63C64			Mitsubishi National Ricoh SGS-Thomson	M5M27512 NMC27C512 TMS27C512		
TC5565	GoldStar Harris Hitachi	MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264			Samsung Dense-Pac Exar Fujitsu	DPS88H08 XR8464 MB8B464 MB81C78A MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264		TC5585A	VLSI Tech Fujitsu Mitsubishi Sony TI Toshiba Vitellic ATMEL Catalyst Rsch Intel	VT20C99 MB81C79A M5M5179P CKX5971P ACT2140 DCS5188T V63C330 AT27HC256		TC58257	TI Toshiba VLSI Tech Intel TI	M27C512 TMS27C512 TMS27PC512 TC54512 VT27C512 28F256 TMS29F256 TMS29F258 TMS29F259 CD74HCT04 MM72HCT04		
TC5565	Hyundai IDT Krueger	6264-100 (3513) 6264-120 (3513) 6264-150 (3513) 6264LP-100 (3513) 6264LP-120 (3513) 6264LP-150 (3513)			GoldStar Harris Hitachi	GM76C88L CDM6264 HM6264 HM6464 MB6264 HY6264 DPS9264		TC5585A	UMC Vitellic	UM6264A V61C62 V62C64 V63C64		TC74HCT04A	Harris National SGS-Thomson	M74HCT04 74HCT04 SN74HCT04		
TC5565	MicroLinear Mitsubishi	ML8464 AM99C88 M5M5178			Hyundai IDT Krueger	6264-100 (3513) 6264-120 (3513) 6264-150 (3513) 6264LP-100 (3513) 6264LP-120 (3513) 6264LP-150 (3513)		TC5585A	VLSI Tech Fujitsu Mitsubishi Sony TI Toshiba Vitellic ATMEL Catalyst Rsch Intel	VT20C99 MB81C79A M5M5179P CKX5971P ACT2140 DCS5188T V63C330 AT27HC256		TC74HCT137A	Harris Marconi	CD74HCT137 74HCT137		
TC5565	Motorola	MCM6064 MCM61L64 MCM6164C			MicroLinear Mitsubishi	ML8464 AM99C88 M5M5178			Krueger	27256 M27256 P27257 27256 27256-200 (3513) 27256-250 (3513) 27256-300 (3513) MSL27256 M5M27256						
TC5565	National OKI	DP8464 MSM5164 MSM5165 MSM5188														
TC5565	S-MOS	SRM2064 SRM2264														
TC5565	Samsung	KM6264 KM6264A LH5164														
TC5565	Sharp	LH5165														

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ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Toshiba America Electronic Components (Cont'd)								(Cont'd)				(Cont'd)			
TC74HCT137A	Plessey	MV74HCT137	(Cont'd)	TC74HCT373A	Harris	CD74HCT373		TC74HCT574	Signetics	74HCT574		TC74HC10A	Motorola	MC74HC10	
	SGS-Thomson				Hitachi	HD74HCT373			TI	SN74HCT574			National	MM74HC10	
		M74HCT137			Marconi	74HCT373		TC74HCT60A	Harris	CD74HCT640			SGS-Thomson		
		74HCT137			Motorola	MC74HCT373			Motorola	MC74HCT640				M74HC10	
		SN74HCT137			National	MM74HCT373			National	MM74HCT640		TC74HC107A	Signetics	74HC10	
TC74HCT138A					Plessey	MV74HCT373			SGS-Thomson				TI	SN74HC10	
										M74HCT640			Harris	CD74HC107	
					SGS-Thomson					74HCT640			Hitachi	HD74HC107	
										SN74HCT640			Motorola	MC74HC107	
													National	MM74HC107	
													SGS-Thomson		
														M74HC107	
														74HC107	
														SN74HC107	
														CD74HC109	
														HD74HC109	
														MC74HC109	
														MM74HC109	
														M74HC109	
														74HC109	
														SN74HC109	
														CD74HC11	
														HD74HC11	
														MC74HC11	
														MM74HC11	
														M74HC11	
														74HC11	
														SN74HC11	
														CD74HC112	
														HD74HC112	
														MC74HC112	
														MM74HC112	
														M74HC112	
														74HC112	
														SN74HC112	
														CD74HC113	
														HD74HC113	
														MC74HC113	
														MM74HC113	
														M74HC113	
														74HC113	
														SN74HC113	
														CD74HC123	
														HD74HC123	
														MM74HC123	
														M74HC123	
														74HC123	
														CD74HC125	
														HD74HC125	
														MC74HC125	
														MM74HC125	
														M74HC125	
														74HC125	
														SN74HC125	
														CD74HC126	
														HD74HC126	
														MC74HC126	
														MM74HC126	
														M74HC126	
														74HC126	
														CD74HC132	
														HD74HC132	
														MC74HC132	
														MM74HC132	
														M74HC132	
														74HC132	
														SN74HC132	
														CD74HC133	
														MC74HC133	
														MM74HC133	
														M74HC133	
														SN74HC133	
														CD74HC137	
														HD74HC137	
														MC74HC137	
														MM74HC137	
														M74HC137	
														74HC137	
														SN74HC137	
														CD74HC138	
														HD74HC138	
														MC74HC138	
														MM74HC138	

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Performance details often differ, so compare the specifications considering your requirements.

WALT. SOURCE DIRECTORY

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Toshiba America Electronic Components (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
TC74HC283A	Signetics TI	74HC283 SN74HC283	(Cont'd)	TC74HC373A	SGS-Thomson	M74HC373 74HC373		TC74HC4040A	National SGS-Thomson	MM74HC4040 74HC4040		TC74HC4351A	National Signetics	MM74HC4351 74HC4351	(Cont'd)
TC74HC298A	Hitachi Motorola National SGS-Thomson	HD74HC298 MC74HC298 MM74HC298		TC74HC374A	Harris Hitachi Motorola National SGS-Thomson	CD74HC374 HD74HC374 MC74HC374 MM74HC374		TC74HC4049A	Signetics TI	74HC4040 SN74HC4040		TC74HC4352A	Harris Motorola	CD74HC4352 MC10H119	
TC74HC299A	Harris Motorola National SGS-Thomson	CD74HC299 MC74HC299 MM74HC299		TC74HC375A	Hitachi SGS-Thomson	HD74HC375 M74HC375		TC74HC4050A	Harris Motorola	CD74HC4049 MC74HC4049		TC74HC4353A	National Signetics	MM74HC4352 74HC4352	
TC74HC300A	Hitachi Motorola National SGS-Thomson	HD74HC300 MC74HC300 MM74HC300		TC74HC377A	Harris Hitachi Motorola SGS-Thomson	CD74HC377 HD74HC377 MC74HC377		TC74HC4051A	Signetics TI	74HC4049 SN74HC4049		TC74HC4354A	Harris Motorola National SGS-Thomson	CD74HC4353 MC74HC4353 MM74HC4353 74HC4353	
TC74HC322A	Hitachi Motorola National SGS-Thomson	HD74HC322 MC74HC322 MM74HC322		TC74HC386A	SGS-Thomson	M74HC386 SN74HC386		TC74HC4052A	Harris Motorola	CD74HC4050 MC74HC4050		TC74HC4355A	Harris Motorola National SGS-Thomson	CD74HC4354 HD74HC4354 MC74HC4354 MM74HC4354	
TC74HC323A	Hitachi Motorola National SGS-Thomson	HD74HC323 MC74HC323 MM74HC323		TC74HC390A	Harris Hitachi Motorola National SGS-Thomson	CD74HC390 HD74HC390 MC74HC390 MM74HC390		TC74HC4053A	Signetics TI	74HC4051 SN74HC4051		TC74HC4356A	Hitachi Motorola National SGS-Thomson	CD74HC4355 MC74HC4355 MM74HC4355	
TC74HC352A	TI	M74HC32 SN74HC32		TC74HC393A	Harris Hitachi Motorola National SGS-Thomson	CD74HC393 HD74HC393 MC74HC393 MM74HC393		TC74HC4060A	Harris Motorola	CD74HC4052 MC74HC4052		TC74HC4357A	Hitachi Motorola National SGS-Thomson	CD74HC4356 HD74HC4356 MC74HC4356 MM74HC4356	
TC74HC353A	TI	M74HC32 SN74HC32		TC74HC4002A	Harris Motorola National SGS-Thomson	CD74HC4002 MC74HC4002 MM74HC4002		TC74HC4066A	Harris Motorola	CD74HC4053 MC74HC4053		TC74HC4358A	Hitachi Motorola National SGS-Thomson	CD74HC4357 HD74HC4357 MC74HC4357 MM74HC4357	
TC74HC354A	Hitachi Motorola National SGS-Thomson	HD74HC354 MC74HC354 MM74HC354		TC74HC4010A	Harris Motorola National SGS-Thomson	CD74HC4010 MC74HC4010 MM74HC4010		TC74HC4075A	Signetics TI	74HC4060 SN74HC4060		TC74HC4359A	Hitachi Motorola National SGS-Thomson	CD74HC4358 HD74HC4358 MC74HC4358 MM74HC4358	
TC74HC356A	Harris Hitachi National SGS-Thomson	CD74HC356 HD74HC356 MM74HC356		TC74HC4012A	Harris Motorola National SGS-Thomson	CD74HC4012 MC74HC4012 MM74HC4012		TC74HC4078A	Harris Motorola	CD74HC4066 MC74HC4066		TC74HC4360A	Hitachi Motorola National SGS-Thomson	CD74HC4359 HD74HC4359 MC74HC4359 MM74HC4359	
TC74HC357A	Hitachi Motorola National SGS-Thomson	HD74HC357 MC74HC357 MM74HC357		TC74HC4013A	Harris Motorola National SGS-Thomson	CD74HC4013 MC74HC4013 MM74HC4013		TC74HC4090A	Signetics TI	74HC4066 SN74HC4066		TC74HC4361A	Hitachi Motorola National SGS-Thomson	CD74HC4360 HD74HC4360 MC74HC4360 MM74HC4360	
TC74HC366A	Harris Hitachi Motorola National SGS-Thomson	CD74HC366 HD74HC366 MC74HC366 MM74HC366		TC74HC4015A	Harris Motorola National SGS-Thomson	CD74HC4015 MC74HC4015 MM74HC4015		TC74HC4099A	Harris Motorola	CD74HC4066 MC74HC4066		TC74HC4362A	Hitachi Motorola National SGS-Thomson	CD74HC4361 HD74HC4361 MC74HC4361 MM74HC4361	
TC74HC367A	Hitachi Motorola National SGS-Thomson	HD74HC367 MC74HC367 MM74HC367		TC74HC4017A	Harris Motorola National SGS-Thomson	CD74HC4017 MC74HC4017 MM74HC4017		TC74HC4100A	Signetics TI	74HC4066 SN74HC4066		TC74HC4363A	Hitachi Motorola National SGS-Thomson	CD74HC4362 HD74HC4362 MC74HC4362 MM74HC4362	
TC74HC368A	Harris Hitachi Motorola National SGS-Thomson	CD74HC368 HD74HC368 MC74HC368 MM74HC368		TC74HC4020A	Harris Motorola National SGS-Thomson	CD74HC4020 MC74HC4020 MM74HC4020		TC74HC4101A	Signetics TI	74HC4066 SN74HC4066		TC74HC4364A	Hitachi Motorola National SGS-Thomson	CD74HC4363 HD74HC4363 MC74HC4363 MM74HC4363	
TC74HC373A	Hitachi Motorola National	HD74HC373 MC74HC373 MM74HC373	(Continued)	TC74HC4022A	Harris Motorola National SGS-Thomson	CD74HC4022 MC74HC4022 MM74HC4022		TC74HC4102A	Signetics TI	74HC4066 SN74HC4066		TC74HC4365A	Hitachi Motorola National SGS-Thomson	CD74HC4364 HD74HC4364 MC74HC4364 MM74HC4364	

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Toshiba America Electronic Components (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
TC74HC541A	Harris	CD74HC541		TC74HC643A	Signetics	74HC643		TC74HC76A	SGS-Thomson	M74HC76		TD3407	Lansdale	ML7407	(3514)
	Hitachi	HD74HC541			TI	SN74HC643			TI	SN74HC76		TD3407	Signetics	7407	
	Motorola	MC74HC541		TC74HC646A	Harris	CD74HC646		TC74HC77A	Hitachi	HD74HC77		TD3408	Lansdale	ML7408	(3514)
	National	MM74HC541			Motorola	MC74HC646			National	MM74HC77			National	DM7408	
	SGS-Thomson				SGS-Thomson				SGS-Thomson					7408	
		M74HC541				74HC646			TI	SN74HC77		TD3408	Signetics	7408	
	Signetics	74HC541			TI	SN74HC646		TC74HC85A	Harris	CD74HC85		TD3409	TI	SN7408	(3514)
	TI	SN74HC541		TC74HC648A	Harris	CD74HC648			Motorola	MC74HC85			Lansdale	ML7409	
TC74HC563A	Harris	CD74HC563			Motorola	MC74HC648			National	MM74HC85			National	DM7409	
	Hitachi	HD74HC563			National	MM74HC648			SGS-Thomson			TD3409	Saratoga	SSL7409	
	Motorola	MC74HC563			SGS-Thomson				Signetics	74HC85		TD3410	TI	SN7409	
	National	MM74HC563				74HC648		TC74HC86A	TI	SN74HC85			Lansdale	ML7410	(3514)
	SGS-Thomson					74HC648			Harris	CD74HC86			National	DM7410	
		M74HC563				74HC648			Hitachi	HD74HC86		TD3410	Signetics	7410	
	Signetics	74HC563		TC74HC651A	Harris	CD74HC651			Motorola	MC74HC86			TI	SN7410	
	TI	SN74HC563			SGS-Thomson				National	MM74HC86		TD34107	National	DM74107	
TC74HC564A	Harris	CD74HC564				M74HC651			SGS-Thomson				TI	SN74107	
	Hitachi	HD74HC564				SN74HC651				M74HC86		TD34121	Lansdale	ML74121	(3514)
	Motorola	MC74HC564		TC74HC652A	Harris	CD74HC652			Signetics	74HC86			National	DM74121	
	National	MM74HC564			SGS-Thomson			TD7400B	TI	SN74HC86	(3514)	TD34121	Signetics	74121	
	SGS-Thomson					M74HC652			Lansdale	ML7400			TI	SN74121	
		M74HC564				M74HC652		TD7400B	National	DM7400		TD3416	National	DM7416	
	Signetics	74HC564		TC74HC670A	Harris	CD74HC670			Signetics	7400		TD3416	Signetics	7416	
	TI	SN74HC564			SGS-Thomson			TD7400B	TI	SN7400		TD3416	TI	SN7416	
TC74HC573A	Harris	CD74HC573				M74HC670		TD7404UB	Lansdale	ML7404	(3514)	TD3417	Signetics	7417	(3514)
	Hitachi	HD74HC573				74HC670			National	DM7404			TI	SN7417	
	Motorola	MC74HC573		TC74HC688A	Harris	CD74HC688		TD7404UB	Saratoga	SSL7404		TD3417	Lansdale	ML7417	
	National	MM74HC573			Motorola	MC74HC688			Signetics	7404			National	DM7417	
	SGS-Thomson				National	MM74HC688		TD7410	TI	SN7404		TD3417	Signetics	7417	
		M74HC573			SGS-Thomson				TI	SN7404			TI	SN7417	
	Signetics	74HC573				M74HC688		TD7410	Lansdale	ML7410	(3514)	TD34192	Lansdale	ML74192	(3514)
	TI	SN74HC573			Signetics	74HC688			National	DM7410			National	DM74192	
TC74HC574A	Harris	CD74HC574			TI	SN74HC688		TD7410	Signetics	7410		TD34192	Signetics	74192	
	Hitachi	HD74HC574		TC74HC690A	SGS-Thomson	M74HC690			TI	SN7410			TI	SN74192	
	Motorola	MC74HC574			SGS-Thomson			TD7420	Lansdale	ML7420	(3514)	TD3420	Lansdale	DM7420	(3514)
	National	MM74HC574		TC74HC691A	SGS-Thomson	M74HC691			National	DM7420			National	DM7420	
	SGS-Thomson					M74HC691		TD7420	Signetics	7420		TD3420	Signetics	7420	
		M74HC574		TC74HC692A	SGS-Thomson	M74HC692			TI	SN7420			TI	SN7420	
	Signetics	74HC574				M74HC692		TC8831F	Samsung	LS5915		TD3426	Lansdale	ML7426	(3514)
	TI	SN74HC574		TC74HC693A	SGS-Thomson	M74HC693		TC9012F	Samsung	KS5410			National	ML7426	
TC74HC590A	Hitachi	HD74HC590				M74HC693		TC9167P	Samsung	KA2230				ML7426	
	National	MM74HC590		TC74HC696A	SGS-Thomson	M74HC696			Sanyo	LC7517		TD3426	Signetics	7426	
	SGS-Thomson					M74HC696		TDA7021P	ROHM	BA4220			TI	SN7426	
		M74HC590		TC74HC697A	SGS-Thomson	M74HC697			Samsung	KA22429		TD3426	Lansdale	ML7430	(3514)
	TI	SN74HC590				M74HC697			Toshiba	TA7303P		TD3430	National	DM7430	
TC74HC592	Hitachi	HD74HC592		TC74HC698A	SGS-Thomson	M74HC698		TD3400	Lansdale	ML7400	(3514)		TI	SN7430	
	National	MM74HC592				M74HC698			National	DM7400		TD3430	Lansdale	ML7437	(3514)
TC74HC593A	Hitachi	HD74HC593		TC74HC699A	SGS-Thomson	M74HC699		TD3401	Signetics	7400		TD3437	National	DM7437	
	National	MM74HC593				M74HC699			TI	SN7400			Signetics	7437	
TC74HC595A	Hitachi	HD74HC595		TC74HC7266A	Harris	CD74HC7266		TD3401	Lansdale	ML7401	(3514)	TD3437	TI	SN7437	
	LogicDev	L7C164			Motorola	MC74HC7266			National	DM7401		TD3438	Lansdale	ML7438	(3514)
	Motorola	MC74HC595			National	MM74HC7266		TD3401	Saratoga	SSL7401			National	DM7438	
	National	MM74HC595			SGS-Thomson				TI	SN7401		TD3438	Signetics	7438	
	SGS-Thomson					M74HC7266		TD3402	Lansdale	ML7402	(3514)		TI	SN7438	
		M74HC595				SN74HC7266			National	DM7402		TD3440	Lansdale	ML7440	(3514)
	TI	SN74HC595		TC74HC7292	SGS-Thomson	M74HC7292			Signetics	7402			National	DM7440	
	Vitelco	V61C62				M74HC7292		TD3401	TI	SN7400		TD3440	Signetics	7440	
	VLSI Tech	CT64KS4		TC74HC7294	National	MM74HC7294			Lansdale	DM7401		TD3441	TI	SN7440	
TC74HC597A	Harris	CD74HC597			SGS-Thomson			TD3401	Saratoga	SSL7401			National	DM7441	
	Hitachi	HD74HC597		TC74HC73A	Harris	CD74HC73			TI	SN7401		TD3441	Signetics	7441	
	Motorola	MC74HC597			Hitachi	HD74HC73		TD3402	Lansdale	ML7402	(3514)	TD3442	Lansdale	ML7442	(3514)
	National	MM74HC597			Motorola	MC74HC73			National	DM7402			National	DM7442	
	SGS-Thomson				National	MM74HC73		TD3402	Signetics	7402		TD3442	TI	SN7442A	
		M74HC597			SGS-Thomson				TI	SN7402		TD3450	Lansdale	ML7450	(3514)
	Signetics	74HC597				M74HC73		TD3403	Lansdale	ML7403	(3514)		National	DM7450	
TC74HC620A	Hitachi	HD74HC620				74HC73			National	DM7403		TD3450	TI	SN7450	
	National	MM74HC620		TC74HC74A	Harris	CD74HC74		TD3403	Saratoga	SSL7403		TD3451	Lansdale	ML7451	(3514)
	SGS-Thomson				Hitachi	HD74HC74			Signetics	7403			National	DM7451	
		M74HC620			Motorola	MC74HC74		TD3404	TI	SN7403				7451	
	TI	SN74HC620			National	MM74HC74			Lansdale	ML7404	(3514)	TD3451	Signetics	SN7451	
TC74HC623A	Hitachi	HD74HC623			SGS-Thomson			TD3404	National	DM7404			TI	SN7451	
	National	MM74HC623				M74HC74			Saratoga	SSL7404				7451	
	SGS-Thomson					74HC74		TD3405	Signetics	7404		TD3451	Signetics	SN7451	
		M74HC623				SN74HC74			TI	SN7404			TI	SN7451	
TC74HC640A	Harris	CD74HC640			TI	SN74HC74		TD3405	Lansdale	ML7405	(3514)			7451	
	Hitachi	HD74HC640		TC74HC75A	Harris	CD74HC75			National	DM7405		TD3450	TI	SN7450	
	Motorola	MC74HC640			Hitachi	HD74HC75		TD3406	Signetics	7406			Lansdale	ML7451	(3514)
	National	MM74HC640			Motorola	MC74HC75			TI	SN7406			National	7451	
	SGS-Thomson				National	MM74HC75		TD3406	Signetics	7406				SN7451	
		M74HC640			SGS-Thomson				TI	SN7406					
	Signetics	74HC640				M74HC75									
	TI	SN74HC640				74HC75									
TC74HC643A	Harris	CD74HC643			Signetics	74HC75									
	Hitachi	HD74HC643		TC74HC76A	TI	SN74HC75									
	National	MM74HC643			Harris	CD74HC76									
	SGS-Thomson				Hitachi	HD74HC76									
		M74HC643			Motorola	MC74HC76									
					National	MM74HC76									

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	
Toshiba America Electronic Components (Cont'd)				TD62103	TI	SN75478 ULN2003	(Cont'd)	THM362500AS	Fujitsu Hitachi IBM MicronTech	MB85336 HB56D25636B 6450603 MT8C36256M MT8C36256MN		THM81000AS	MicronTech	MT8C8026 MT8C902MN MH1M08AOJ MH1M09A TH310008		
• TD3473	Lansdale National	ML7473 DM7473 7473	(3514)	TD62104	Toshiba Mitsubishi Motorola Samsung Sanyo	M54526 MC1416 KA2658 LB1234 Toshiba TD62004							Mitsubishi	NEC	MC42100A8 MC42100C8 MSC2313KS8 MSC2313YS8	
• TD3473	TI	SN7473		TD62105	Toshiba	ULN2801			Mitsubishi NEC	MH25636AJ MC424256A36B			OKI	MSC2313KS8		
• TD3474	Lansdale	HL7611	(3514)		Toshiba	TD62004			OKI	MCC2320AYS9			Peps	1MX8		
• TD3474	National	DM7474 7474		TD62381	Allegro	ULN2801			Peps	MH25636A			Samsung	KMM481000		
• TD3474	Signetics	7474		TD62476	Mitsubishi	M54517 LB1275		THM36512AS	Fujitsu Hitachi IBM	MB85337 HB56D51236B 6450604 6450608		THM81020A	Fujitsu Hitachi MicronTech	MB85260 MB56A18AT MT8C024DMN		
• TD3475	Lansdale	ML7475	(3514)	TD62477	Allegro	UDN5711							Peps	1MX8LP		
• TD3475	National	DM7475 7475			Micro	UDN5711			MicronTech	MT8C36512			Samsung	KMM594000		
• TD3475	TI	SN7475		TD62478	Allegro	UDN5712				MT8C36512DM		THM81020AL	Toshiba	THM81020AL		
• TD3476	Lansdale	ML7476	(3514)		Micro	UDN5712			Mitsubishi	MH51236AJ			Fujitsu	MB85260		
• TD3476	National	DM7476 7476		TD62479	Motorola	MC1472			NEC	MC424512A36B			Hitachi	HB56A18AT		
• TD3476	TI	SN7476			TI	UDN5712			OKI	MSC2321AYS18			MicronTech	MT8C024DMN		
• TD3486	Lansdale	ML7486	(3514)		Allegro	UDN5713			Peps	MH51236A			Peps	1MX8LP		
• TD3486	National	DM7486 7486			Micro	UDN5713			Samsung	KMM536512B			Samsung	KMM594000		
• TD3486	Signetics	7486			TI	UDN5713			TI	TM512KBC36		THM91000	Toshiba	THM81020A		
TD62001	Mitsubishi	SN7486			Allegro	UDN5714		THM365120	Toshiba	THM365120AS			Fujitsu	MB85235		
	Motorola	M54524			Motorola	MC1374			Hitachi	HB56D51236				HB56A19B		
	National	MC1411			TI	SN75479		THM365120AS	Mitsubishi	MH51236H			MicronTech	MT8C9024		
	μA9665	KA2655		TD62501	Sanyo	LB1211			Fujitsu	MB85337				MT8C9024M		
	Samsung	LB1231		TD62502	Sanyo	LB1212			Hitachi	HB56D51236B			Mitsubishi	MH1M09		
	Sanyo	SN75476		TD62503	Sanyo	LB1213			IBM	6450604			Motorola	MH1M09BOJ		
	TI	TD62101		TD62504	Sanyo	LB1214				6450608			NEC	MCM91000		
TD62002	Toshiba	TD62101		TD62505	Sanyo	LB1215			MicronTech	MT8C36512			OKI	MC421000A9		
	Mitsubishi	M54525		TD62506	Sanyo	LB1216				MT8C36512DM			NEC	MSC2310Y59		
	Motorola	MC1412		TD62507	Sanyo	LB1217			Mitsubishi	MH51236AJ				MSC2310Y59		
	National	μA9666		TD62706	Sanyo	LB1294			NEC	MC424512A36B			Peps	PEP1MX9		
		MC1412		TD62781	Cherry Semi	CS594C			OKI	MSC2321AYS18			Samsung	KMM591000A		
	NEC	μPA2002			Dionics	D1514B			Peps	MH51236A			TI	HYM910005		
	Samsung	KA2656				D1514BR			Samsung	KMM536512B			Toshiba	TM024GAD9		
	Sanyo	LB1232			Exar	XR6118			TI	TM512KBC36		THM91000A	Fujitsu	THM91000A		
	SGS-Thomson	L202			OKI	MSL912			Toshiba	THM36512AS			Hitachi	MB85235		
TD62003	Mitsubishi	SN75477			Signetics	NE594			Fujitsu	MB85230				HB56A19B		
		M52523				SA594			Hitachi	HB56A18B			MicronTech	MT8C9024		
		M54523			TI	TL594C				MT8C8024				MT8C9024M		
	Motorola	MC1413		TD62782	Allegro	UDN6128			Mitsubishi	MT8C8024M			Mitsubishi	MH1M09		
	National	μA9667			Micro	XR6128				MH1M08BOJ				MH1M09BOJ		
		MC1413		TD6316	Exar	AD7575			Motorola	MCM81000			Motorola	MCM91000		
	Samsung	KA2657			AD	AD7575			NEC	MC421000A8			NEC	MC421000A9		
	Sanyo	LB1233			Maxim	AD7575			OKI	MSC231148			OKI	MSC2310Y59		
	SGS-Thomson	ULN2003			Siemens	SDA3203				MSC2313AYS8				MSC2317AYS9		
	TI	SN75478		TD6347S	Samsung	KS8701			Peps	1MX8			Peps	PEP1MX9		
		ULN2003		TD6359P	Samsung	KA2185			Samsung	KMM581000A			Samsung	KMM591000A		
TD62004	Toshiba	TD62103		TD6712	Fujitsu	MB40576			TI	MPR68CTE64			Siemens	HYM910005		
	Mitsubishi	M54526			Sony	CXD1172P				TM024GADB			TI	TM024GAD9		
	Motorola	MC1416			TI	TL5501				TM024GADB		THM91000AL	Toshiba	THM91000		
	Samsung	KA2658		THM361020	Fujitsu	MB85346				TM024GADB			MicronTech	MT8C9026		
	Sanyo	LB1234			Hitachi	HB56D136B			Toshiba	THM81000A			Mitsubishi	MH1M090J		
	Toshiba	TD62104			IBM	34F2933			UTMC	UT67164			OKI	MSC2312KS9		
TD62006	Sanyo	LB1274			MicronTech	MT9D136M				UT7164				MSC2312YS9		
TD62064	Allegro	ULN2064	(3206)		Mitsubishi	MH1M36BQJ		THM81000A	Fujitsu Hitachi	MB85230 HB56A18 HB56A18B			Peps	PEP1MX9		
	Micro	M54532			NEC	MC421000A36FH				MT8C8024M			Samsung	KMM491000		
	Mitsubishi	ULN2064			OKI	MSC2350YS12			MicronTech	MT8C8024M				KMM591000		
	Motorola	ULN2064			Peps	MH1MX36				MT8C8024M			Toshiba	THM91000AS		
	SGS-Thomson	ULN2064			Samsung	KMM5361000			Mitsubishi	MH1M08A		THM91000AS	MicronTech	MT8C9026		
		SN75064		THM3610205C	Toshiba	THM3610205C				MH1M08BOJ			Mitsubishi	MH1M090J		
	TI	ULN2064			Fujitsu	MB85346			Motorola	MCM81000			OKI	MSC2312KS9		
		SN75064			Hitachi	HB56D136B			NEC	MC421000A8				MSC2312YS9		
		TA75064			IBM	34F2933			OKI	MSC231148			Peps	PEP1MX9		
TD62084	Allegro	ULN2804			MicronTech	MT9D136M				MSC2313AYS8			Samsung	1MX8		
	Micro	ULS2804			Mitsubishi	MH1M36BQJ			Peps	1MX8				KMM491000		
		ULN2804			NEC	MC421000A36FH			Samsung	KMM581000A				KMM591000		
	Motorola	ULN2804			OKI	MSC2350YS12			TI	MPR68CTE64		THM91020A	Toshiba	THM91000AL		
	SGS-Thomson	ULN2804			Peps	MH1MX36				TM024GADB			Fujitsu	MB85265		
		ULN2804			Samsung	KMM5361000				TM024GADB		THM91020A	Hitachi	HB56A19AT		
TD62101	SiliconG	SG2804	(3642)		Toshiba	THM361020				THM81000			MicronTech	MT8C9024DMN		
	Mitsubishi	M54524		THM362020	Fujitsu	MB85347			UTMC	UT67164			Peps	PEP1MX9LP		
	Motorola	MC1411			Hitachi	HB56D236B				UT7164				4MX9LP		
	National	μA9665			IBM	34F2933		THM81000AL	MicronTech	MT8C8026			Toshiba	THM91020AL		
	Samsung	KA2655			MicronTech	MT9D136M				MT8C902MN			Fujitsu	MB85265		
	Sanyo	LB1231			Mitsubishi	MH1M36BQJ				MH1M08AOJ			Hitachi	HB56A19AT		
	TI	SN75476			NEC	MC421000A36FH				MH1M09A			MicronTech	MT8C9024DMN		
	Toshiba	TD62001			OKI	MSC2350YS12				TH310008			Peps	PEP1MX9LP		
TD62103	Mitsubishi	M52523			Peps	MH2MX36				MC42100A8				4MX9LP		
		M54523			Samsung	KMM5361000				MC42100C8			Toshiba	THM91020A		
	Motorola	MC1413			Toshiba	THM361020				MSC2313KS8			NEC	MC4244100A9		
	National	μA9667			Fujitsu	MB85347				MSC2313YS8			Peps	4MX9		
		MC1413			Hitachi	HB56D236B				1MX8						
	Samsung	KA2657			Peps	MH2MX36				KMM481000			Allegro	UGN3604		
	Sanyo	LB1233		THM362500	Toshiba	THM362020				THM81000AS			Micro	UGN3605K		
	SGS-Thomson	ULN2003			Hitachi	HB56D25636										
		(Continued)			Mitsubishi	MH25636A										
					NEC	MC424256A36BH										
						(Continued)										

• Discontinued

The manufacturers report their devices can be used as direct replacements.
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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Toshiba America Electronic Components (Cont'd)				TMM2016A	SGS-Thomson	ET2128 MK2817 MK6116		TMM2063	Samsung	KM6264 KM6264A LH5164		TMM2068AP	IDT	IDT6168LA IDT6168S 51C68 L7C168 M5M21C68P MCM6168 μPD4314 PS6168	(Cont'd)
THS102		(Cont'd)		TMM2016A	Sharp	LH5115 LH5116		TMM2063	Sharp	LH5165			Intel		
TMB2464	Siemens ATMEL Hyundai Intel Krueger	KSY10 AT27HC64 HY2764 M2764 2764-200 (3513) 2764-250 (3513) 2764-300 (3513) 2764-450 (3513)		TMM2016A	Signetics Sony UMC Vitellic	NE5517 CXK5816 UM6116 V61C16		TMM2063	Sony	CXK5164P CXK5863P CXK5864 CXK5865 CXK5865P TC5563			LogicDev Mitsubishi Motorola NEC Ricoh		
TMB2464	Mitsubishi National OKI SEEQ TI	M5L2764 2764 MSM2764 2764 TMS27PC64 TMS2764		TMM2016B	Allegro Micro Hitachi Mitsubishi National OKI	UDN6116 HM6116 M5M5517 MMC2116 MSM2128 MSM5126 MSM5129		TMM2063	Toshiba	TC5565A (3682) TC5588 UM6264A V61C62 V62C64 V63C64 VT20C99		TMM2069	SGS-Thomson	IMS1423 MK41L68 CXK5416P/K VT2069 AM2168 MB81C68A HM6168HP HM6268L IDT6168A IDT6168L IDT6168LA IDT6168S	
TMM2015	Allegro Micro Hitachi Mitsubishi National OKI	UDN6116 HM6116 M5M5517 MMC2116 MSM2128 MSM5126 MSM5129 SMC6116 SRM2016C		TMM2016B	S-MOS	SMC6116 SRM2016C		TMM2063	UMC Vitellic	UM6264A V61C62 V62C64 V63C64 VT20C99		TMM2069	Sony VLSI Tech AMD Fujitsu Hitachi	VT2069 AM2168 MB81C68A HM6168HP IDT6168A IDT6168L IDT6168LA IDT6168S	
TMM2015	S-MOS	SMC6116 SRM2016C		TMM2016B	SGS-Thomson	ET2128 MK2817 MK6116		TMM2064	GoldStar Harris Hitachi	GM76C88L CDM6264 HM6264 MB6264 MB8464 MB81C78A MB8464A		TMM2069	Intel LogicDev Mitsubishi Motorola NEC Ricoh	51C68 L7C168 M5M21C68P MCM6168 μPD4314 PS6168	
TMM2015	SGS-Thomson	ET2128 MK2817 MK6116		TMM2016B	Sharp	LH5115 LH5116		TMM2064	Hyundai IDT Krueger	HY6264 DPS9264 6264-100 (3513) 6264-120 (3513) 6264-150 (3513) 6264LP-100 (3513) 6264LP-120 (3513) 6264LP-150 (3513)		TMM2069	SGS-Thomson	IMS1423 MK41L68 CXK5416P/K TMM2068AP VT2069 AM2168 MB81C68A HM6168HP HM6268L IDT6168A IDT6168L IDT6168LA IDT6168S	
TMM2015	Sharp	LH5115 LH5116		TMM2018	Cypress GoldStar LogicDev	CY7C128A GM76C28 L6116		TMM2064	MicroLinear Mitsubishi	ML8464 AM99C88 M5M5178 MCM6064 MCM61L64 MCM6164C		TMM2078	Sony Toshiba VLSI Tech	VT2069 AM2168 MB81C68A HM6168HP HM6268L IDT6168A IDT6168L IDT6168LA IDT6168S	
TMM2015	Signetics Sony UMC Vitellic	NE5517 CXK5816 UM6116 V61C16		TMM2018AP	MicronTech Sony Vitellic VLSI Tech	MT5C1608 CXK5814 V61C16 VT20C18		TMM2064	Motorola	DP8464 MSM5164 MSM5165 MSM5188 SRM2064 SRM2264		TMM2078	AMD Fujitsu Hitachi	AM2168 MB81C68A HM6168HP HM6268L IDT6168A IDT6168L IDT6168LA IDT6168S	
TMM2015A	Allegro Micro Hitachi Mitsubishi National OKI	UDN6116 HM6116 M5M5517 MMC2116 MSM2128 MSM5126 MSM5129 MSM5129 SMC6116 SRM2016C		TMM2018AP	Allegro Micro Hitachi Mitsubishi National OKI	UDN6116 HM6116 M5M5517 MMC2116 MSM2128 MSM5126 MSM5129 MSM5129 SMC6116 SRM2016C		TMM2064	National OKI	DP8464 MSM5164 MSM5165 MSM5188 SRM2064 SRM2264		TMM2078	Intel LogicDev Mitsubishi Motorola NEC Ricoh SGS-Thomson	51C68 L7C168 M5M21C68P MCM6168 μPD4314 PS6168 IMS1423 MK41L68 CXK5416P/K TMM2068AP VT2069 AM2168 MB81C68A HM6168HP HM6268L IDT6168A IDT6168L IDT6168LA IDT6168S	
TMM2015A	S-MOS	SMC6116 SRM2016C		TMM2018AP	S-MOS	SMC6116 SRM2016C		TMM2064	S-MOS	SRM2064 SRM2264		TMM2078	LogicDev Mitsubishi Motorola NEC Ricoh SGS-Thomson	51C68 L7C168 M5M21C68P MCM6168 μPD4314 PS6168 IMS1423 MK41L68 CXK5416P/K TMM2068AP VT2069 AM2168 MB81C68A HM6168HP HM6268L IDT6168A IDT6168L IDT6168LA IDT6168S	
TMM2015A	SGS-Thomson	ET2128 MK2817 MK6116		TMM2018AP	SGS-Thomson	ET2128 MK2817 MK6116		TMM2064	Samsung	KM6264 KM6264A LH5164		TMM2078	Sony Toshiba VLSI Tech	VT2069 AM2168 MB81C68A HM6168HP HM6268L IDT6168A IDT6168L IDT6168LA IDT6168S	
TMM2015A	Sharp	LH5115 LH5116		TMM2018AP	Sharp	LH5115 LH5116		TMM2064	Sharp	LH5165		TMM2078	LogicDev Mitsubishi Motorola NEC Ricoh SGS-Thomson	51C68 L7C168 M5M21C68P MCM6168 μPD4314 PS6168 IMS1423 MK41L68 CXK5416P/K TMM2068AP VT2069 AM2168 MB81C68A HM6168HP HM6268L IDT6168A IDT6168L IDT6168LA IDT6168S	
TMM2015A	Signetics Sony UMC Vitellic	NE5517 CXK5816 UM6116 V61C16		TMM2018AP	Signetics Sony UMC Vitellic	NE5517 CXK5816 UM6116 V61C16		TMM2064	Sony	CXK5164P CXK5863P CXK5864 CXK5865 CXK5865P TC5563		TMM2078D	SGS-Thomson	MK4170 CT2078 VT2079	
TMM2016	Allegro Micro Hitachi Mitsubishi National OKI	UDN6116 HM6116 M5M5517 MMC2116 MSM2128 MSM5126 MSM5129 MSM5129 SMC6116 SRM2016C		TMM2018AP	Dense-Pac Exar Fujitsu	DPS88H08 XR8464 MB8B464 MB81C78A MB8464A		TMM2064	Toshiba	TC5565A (3682) TC5588 UM6264A V61C62 V62C64 V63C64 VT20C99		TMM2088	Dense-Pac Exar Fujitsu	DPS88H08 XR8464 MB8B464 MB81C78A MB8464A GM76C88L CDM6264 HM6264 HM6464 MB6264	
TMM2016	S-MOS	SMC6116 SRM2016C		TMM2018AP	GoldStar Harris Hitachi	GM76C88L CDM6264 HM6264 HM6464 MB6264		TMM2064	UMC Vitellic	UM6264A V61C62 V62C64 V63C64 VT20C99		TMM2088	GoldStar Harris Hitachi	GM76C88L CDM6264 HM6264 HM6464 MB6264	
TMM2016	SGS-Thomson	ET2128 MK2817 MK6116		TMM2018AP	Hyundai IDT Krueger	HY6264 DPS9264 6264-100 (3513) 6264-120 (3513) 6264-150 (3513) 6264LP-100 (3513) 6264LP-120 (3513) 6264LP-150 (3513)		TMM2064	VLSI Tech AMD Fujitsu Hitachi	VT20C99 AM2168 MB81C68A HM6168HP HM6268L IDT6168A IDT6168L IDT6168LA IDT6168S		TMM2088	Hyundai IDT Krueger	HY6264 DPS9264 6264-100 (3513) 6264-120 (3513) 6264-150 (3513) 6264LP-100 (3513) 6264LP-120 (3513) 6264LP-150 (3513)	
TMM2016	Sharp	LH5115 LH5116		TMM2018AP	MicroLinear Mitsubishi	ML8464 AM99C88 M5M5178 MCM6064 MCM61L64 MCM6164C		TMM2068	Intel LogicDev Mitsubishi Motorola NEC Ricoh	51C68 L7C168 M5M21C68P MCM6168 μPD4314 PS6168		TMM2088	MicroLinear Mitsubishi	ML8464 AM99C88 M5M5178 MCM6064 MCM61L64 MCM6164C DP8464 MSM5164 MSM5165 MSM5188 SRM2064 SRM2264	
TMM2016	Signetics Sony UMC Vitellic	NE5517 CXK5816 UM6116 V61C16		TMM2018AP	Motorola	MCM6164C DP8464 MSM5164 MSM5165 MSM5188 SRM2064 SRM2264		TMM2068	Sony Toshiba VLSI Tech	CXK5416P/K TMM2068AP VT2069 AM2168 MB81C68A HM6168HP HM6268L IDT6168A IDT6168L IDT6168LA IDT6168S		TMM2088	Motorola	MCM6164C DP8464 MSM5164 MSM5165 MSM5188 SRM2064 SRM2264	
TMM2016A	Allegro Micro Hitachi Mitsubishi National OKI	UDN6116 HM6116 M5M5517 MMC2116 MSM2128 MSM5126 MSM5129 MSM5129 SMC6116 SRM2016C		TMM2018AP	National OKI	DP8464 MSM5164 MSM5165 MSM5188 SRM2064 SRM2264		TMM2068	AMD Fujitsu Hitachi	AM2168 MB81C68A HM6168HP HM6268L IDT6168A IDT6168L IDT6168LA IDT6168S		TMM2088	National OKI	DP8464 MSM5164 MSM5165 MSM5188 SRM2064 SRM2264	
TMM2016A	S-MOS	SMC6116 SRM2016C		TMM2018AP	S-MOS	SMC6116 SRM2016C		TMM2068	IDT	IDT6168A IDT6168L IDT6168LA IDT6168S		TMM2088	S-MOS	SRM2064 SRM2264	

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

THE SOURCE BIDE CONY

The manufacturers report their devices can be used as direct replacements. Performance details often differ, so compare the specifications considering your requirements.

◆ Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
TRW (Cont'd)				UM2148	AMD	AM9150		UM3750	National	NS53200		UM6116	Signetics	NE5517	(Cont'd)
• TMC2010	Weitek	WTL1010			Cypress	CY7C150		UM3751	Supertex	ED15			Sony	CKX5816	
		WTL2010			Hitachi	HM6148		UM3753	Supertex	ED9		UM6116-35	Vitellic	V61C16	
TMC2023	LogicDev	L10C23			Performance	P4C150		UM3754	Supertex	ED11			AD	AD6506A	(3237)
TMC208K	AD	ADSP1080		UM23C1024	Saratoga	SSM2150		UM3755	Supertex	ED5			Cypress	CY6116	
	Ericsson	PBL3535			VLSI Tech	VT20C50		• UM4501	AMD	AM67C4501			EDI	ED18802	
	LogicDev	LMU08			Hitachi	HN62321E				AM7201			Harris	DG506A	
TMC2109	AD	ADSP1009				HN62321E		• UM4501	Dallas	67C4501				HM6516	
	LogicDev	LMA1009			Mitsubishi	M5M23C100			IDT	DS2009			Hitachi	HM65162	
		LMA2009			NEC	μPD23C1010A				IDT7201			IDT	HM6719	
	TRWLSI	TDC1009		UM23C1025	Sharp	LH531000				IDT7201LA				IDT6116	
		TMC2009			Toshiba	TC531000P		• UM4501	MicronTech	MT52C9005				IDT6116A	
TMC2110	AD	ADSP1101	(3255)		Hitachi	HN62321A			Samsung	KM75C01A				IDT6116L	
		ADSP1110		UM23C128	NEC	μPD23C1001E			Saratoga	SSL7201				IDT6116S	
	Harris	ISP9210			Mitsubishi	M5M23128			SGS-Thomson				Intel	81C28	
	LogicDev	LMA1010			Samsung	KM23128				MK4501			LogicDev	L76116	
		LMA2010		UM23C2001	Sharp	LH23128			Sharp	LH5496			Maxim	DG506A	
	VLSI Tech	VL2010			NEC	μPD23C2001		• UM4501	TI	SN74ACT7201			MicronTech	MT51C1608	
TMC216H	AMD	AM29C516A			Samsung	KM23C2000		• UM4502		TACT7201			Motorola	MCM2018A	
	AD	ADSP1016			Sharp	LH532100			Vitellic	V61C01				MCM6116	
	Cypress	CY7C516		UM23C256	Toshiba	TC53200P		• UM4502	AMD	AM67C4502			Performance	P4C116	
	Harris	HMU16			Hitachi	HN623257P				AM7202			Saratoga	SSM6116	
	LogicDev	LMU16			Mitsubishi	M5M23256		• UM4502	Dallas	67C4502			Sony	CKX5814P	
		LMU216			NEC	μPD23C256E			IDT	DS2010			Toshiba	TC2018	
	TI	SN741616			Samsung	KM23256				IDT7202			Vitellic	V16C16	
	TRWLSI	MPY016K		UM23C4000	Sharp	KM23257		• UM4502		IDT7202A			VLSI Tech	VT20C19	
	Weitek	WTL1016			Toshiba	LH53257P				IDT7202LA		UM61166	IDT	IDT71586	
		WTL1516			Fujitsu	MB834200				IDT7202SA			Mosel	MS82C308	
		WTL2516			Hitachi	HN62404		• UM4502	MicronTech	MT52C9010			Vitellic	V63C308	
TMC2208	AD	ADSP1008	(3255)		Mitsubishi	M5M23C400				MS7202A		UM61168	Cypress	CY7C144	
	TRWLSI	TDC1008		UM23C4001	NEC	μPD23C4000		• UM4502	Plessey	MV61901				CY7C183	
	AD	ADSP1010			Sharp	LH534000			Samsung	KM75C02			MicronTech	MT56C0816	
		ADSP1010A	(3255)		Toshiba	TC534000P	(3678)	• UM4502		KM75C02A			Performance	P4C163	
	Cypress	CY7C510				TC534200			Saratoga	SSL7202			Sony	CKX7701	
	Harris	HMA510				TC534200			Sharp	LH5497			Toshiba	TC55188	(3682)
	Intel	IM29C510				TC534200		• UM4502	TI	SN74ACT7202			Vitellic	V63C328	
	Waferscale	WS59510	(3717)			HN62304B		• UM4502		TACT7202			VLSI Tech	VT62A168	
		WS59610				μPD23C4001E		• UM4503	Vitellic	V61C02		UM6128-35	Cypress	CY7C168A	
	Weitek	WTL1010		UM23C512	Samsung	KM23C4000			AMD	AM7203			Hitachi	HM6268	
		WTL2010			Sharp	LH534300			Cypress	CY7C428			IDT	IDT6168	
		WTL2245			NCR	NCR23C512			Dallas	DS2011				IDT6168SA	
TMC28KU	AD	ADSP1080			Samsung	KM23C512			IDT	IDT7203			Mitsubishi	M5M2168	
		ADSP1081		UM23C64	Sharp	LH53513P		• UM4503		IDT7203LA			Motorola	MCM6268	
	LogicDev	LMU08			Toshiba	TC53512P			MicronTech	MT52C9020			NEC	μPD4314C	
		LMU8			VLSI Tech	VT23512			Mosel	MS7203			Performance	P4C168	
TMC3032	Weitek	WTL1032		UM23C64	Mitsubishi	M5M2364			Samsung	KM75C03					
TMC3033	Weitek	WTL1033			NEC	μPD23C64E		• UM4503		KM75C102A			Sony	CKX5416	
					Samsung	KM2365			Saratoga	SSL7203				CKX5416D	
					Sharp	LH2369			SGS-Thomson				Vitellic	V61C68	
					Toshiba	TC5364P				MK4503		UM6164	VLSI Tech	VL20C68	
				UM23128	AMD	AM9128		• UM6104		LH5498				VT20C68	
					Gould AMI	S23128			Sharp	CY7C148			Cypress	CY7C182	
					Microchip	R09128		• UM6104	Cypress	HA5114				CY7C185	
					NCR	NCR23128			Harris	HM6514			EDI	CY7C186	
					Signetics	23128			Intel	5114				ED18808	
					VLSI Tech	VT23128			Mitsubishi	M58981			Fujitsu	MB82B79	
						VT23129A			OKI	MSM5114			Harris	HM65642	
						VT23130			S-MOS	SRM2114C			IDT	DPS9264	
						VT23138			Sanyo	LC3514				IDT7164	
				• UM2333	Commodore	MPS2333		UM6114	Signetics	5114				IDT7164S	
						R09433			AMD	AM9114				MT52C6408	
					Microchip	F3533			Intel	2114A			MicronTech	M5M5179	
					National	23C32			Krueger	2114-150	(3513)		Mitsubishi	MS6264	
				• UM2366	Supertex	R039365				2114-200	(3513)		Mosel	MCM6264	
					Microchip	R09864				2114-450	(3513)		Motorola	MCM6265	
				• UM2366	Mitsubishi	M5M23C64			Mitsubishi	M5L2114				MCM6265	
					National	F3568			Motorola	M5L2114			National	NMC6164	
						F3569			National	F2114				μPD4364	
						F3570				NMC2114A			Performance	P4C164	
						MM52264			OKI	MSM2114			SGS-Thomson		
				• UM2366	OKI	MM52264			Rockwell	R6514				IMS1630	
					Panasonic	MSM3864		UM6116	Sharp	LH2114			Sony	CKX5863	
					SGS-Thomson	MN2364			Toshiba	TMM2114A			Toshiba	TMM2088P	
						MK37000			Allegro	UDN6116			Vitellic	V63C64P	
				• UM3135	TI	TMS2364			Micro	UDN6116			VLSI Tech	VT20C98	
					Samsung	KS6026B			Hitachi	HM6116		• UM6167	AMD	AM2167	
					Sharp	LI3140			Mitsubishi	MSM5517			Cypress	CY7C167A	
				• UM3210	OKI	MSM5008			National	MMC2116			Harris	HM65262	
					Samsung	KS5113			OKI	MSM2128			Hitachi	HM6267	
					OKI	MSM5006				MSM5126			IDT	IDT6167	
				UM3217	OKI	MSM5006				MSM5128			Intel	51C66	
					Samsung	KS5190				MSM5129				51C67	
				UM3219	OKI	MSM5001N			S-MOS	SMC6116		• UM6167	LogicDev	L7C167	
					Samsung	KS5120				SRM2016C			MicronTech	MT5C1601	
					OKI	MSM6002			SGS-Thomson	ET2128			Mitsubishi	M5M21C67	
				UM3230	Samsung	KS5243				MK2817			Motorola	MCM2167	
				UM3252A	OKI	MSM5093				MK6116			NEC	μPD4311	
					Samsung	KS5206			Sharp	LH5115			S-MOS	SRM2267	
				UM3273	OKI	MSM5095				LH5116				SRM2367	

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
United Technologies (Cont'd)				PIC7507	SiliconG	SM625 (3642)		PIC7530	National	AD7530	(Cont'd)	UC1526	LinearTech	LT1526	
UT67164	TI	MPR68CTE64	(Cont'd)	PIC7508	SiliconG	PIC625		PIC7531	Samsung	KA2923			Motorola	SG1526	
		TM024GAD8			Unitrode	PIC7525	(3642)		Sanyo	LA7530N			Signetics	SG3526	
	Toshiba	THM81000		PIC7509	SiliconG	SM626 (3642)			AD	AD8531			SiliconG	SG1526 (3642)	
		THM81000A			Unitrode	PIC626			Harris	AD7531				SG1526B (3642)	
UT7164	UTMC	UT7164				PIC627	(3642)		Maxim	MX7531				SG3526 (3642)	
	Fujitsu	MB85230		PIC7510	AD	AD7510		PIC7532	MicroPwr	MP7531		UC1526A	Unitrode	UC1526A	
	Hitachi	HB56A18				SW7510			National	AD7531			LinearTech	LT1526	
		HB56A18B			MicroPwr	MP7510DI			SiliconG	SM646 (3642)			Motorola	SG1526	
	MicronTech	MT8C8024			TeledyneS	TSC445		PIC7533	Unitrode	PIC646			Signetics	SG3526	
		MT8C8024M		PIC7511	AD	AD7511			AD	PIC7514			SiliconG	SG1526 (3642)	
	Mitsubishi	MH1M08A				AD7590				AD7520				SG1526B (3642)	
		MH1M08BJ				AD7591				AD7530				SG3526 (3642)	
	Motorola	MCM81000				SW7511				AD7533				UC1526	
	NEC	MC421000A8			MicroPwr	MP7511DI			Datel	DA7533		UC1527	Unitrode	LT1527	
	OKI	MSC231148			National	DM7590			Harris	AD7533			LinearTech	LT1527A	
		MSC2313AYS8		PIC7512	TeledyneS	TSC445			Maxim	MX7533				SG1527	
	Peps	1MX8			AD	AD7512			MicroPwr	MP7533			Motorola	SG1527A	
	Samsung	KMM581000A				AD7592		PIC7535	National	AD7533			SGS-Thomson	SG1527	
	TI	MPR68CTE64			MicroPwr	MP7512DI			Motorola	MC7535			SiliconG	SG1527A (3642)	
		TM024GAD8		PIC7513	TeledyneS	TSC444			National	LM7535			TeledyneS	TSC15C27A	
		TM024GAD8			AD	ADG200		SG3526B	SiliconG	UC3526A			TI	TL1527	
	Toshiba	THM81000			Harris	DG200		UC117	LinearTech	LM117		UC1527A	Unitrode	UC1527A	
		THM81000A				HI200			Motorola	LM117			LinearTech	LT1527A	
	UTMC	UT67164		PIC7514	Siliconix	DG200A	(3642)		National	μA117				SG1527	
Unitrode Integrated Circuits					SiliconG	SM646 (3642)				LM117			Motorola	SG1527A	
LM195H	National	LM195H		PIC7515	Unitrode	PIC647	(3642)		SiliconG	SG117 (3642)			SGS-Thomson	SG1527	
LT1054	LinearTech	LT1054		PIC7516	Harris	PIC647		UC120-05	TI	TL117				SG1527	
	TI	LT1054			Motorola	CD4016B		UC120-12	SiliconG	SG120-05 (3642)			SiliconG	SG1527A (3642)	
L295	SGS-Thomson	L295				MC14016			National	LM120-12			TeledyneS	TSC15C27A	
						MC14066		UC120-15	SiliconG	SG120-12 (3642)			TI	TL1527	
L296	SGS-Thomson	L296			National	CD4016			SiliconG	SG120-15 (3642)		UC1543	Unitrode	UC1527	
						CD4066		UC137	LinearTech	LM137			Exar	XR1543	
L298	TI	L298				FA016				LT137		UC1544	SiliconG	SG1543 (3642)	
					SGS-Thomson	FA066			Motorola	LM137		UC1840	SiliconG	SG1544 (3642)	
PBL3770A	Ericsson	PBL3770A				HCC4016			National	LM137			Unitrode	UC1841	
PIC600	SiliconG	SM600 (3642)				HCC4066		UC140-05	SiliconG	SG137 (3642)		UC1841	SiliconG	SG1840 (3642)	
	Unitrode	PIC7519				HCF4016			SiliconG	LM140-05 (3642)		UC1842	Unitrode	UC1840	
PIC601	SiliconG	SM601 (3642)				HCF4066		UC140-12	Motorola	LM140-12			LinearTech	LT1842	
PIC602	SiliconG	SM602 (3642)			Signetics	HEF4016			National	LM140-12			Motorola	UC1842A	
PIC610	SiliconG	SM610 (3642)				HEF4066		UC140-15	SiliconG	SG140-12 (3642)			SiliconG	SG1842 (3642)	
PIC611	SiliconG	SM611 (3642)			Toshiba	TC4016B			Motorola	SG140-15 (3642)		UC1842A	TeledyneS	TSC18C42	
	Unitrode	PIC7505		PIC7517	SiliconG	TC4066B		UC140-15	National	LM140-15			Unitrode	UC1842A	
PIC612	SiliconG	SM612 (3642)			Unitrode	SM656 (3642)		UC150	SiliconG	SG140-15 (3642)			LinearTech	LT1842	
	Unitrode	PIC7506				PIC656			Lambda	LLM150		UC1842A	Motorola	UC1842A	
PIC625	SiliconG	SM625 (3642)		PIC7518	SiliconG	SM657 (3642)			LinearTech	LM150			SiliconG	SG1842 (3642)	
	Unitrode	PIC7507			Unitrode	PIC657		UC1524		LT150			TeledyneS	TSC18C42	
PIC626	SiliconG	SM626 (3642)		PIC7519	SiliconG	SM600 (3642)			Motorola	LM150		UC1843	Unitrode	UC1842	
	Unitrode	PIC7508			Unitrode	PIC600			National	LM150			LinearTech	LT1843	
		PIC7526		PIC7520	Harris	AD7520			SiliconG	SG150 (3642)			Motorola	UC1843A	
PIC627	SiliconG	SM627 (3642)			Maxim	MX7520			Exar	XR1524		UC1843A	Unitrode	UC1843A	
	Unitrode	PIC7509			MicroPwr	MP7520			LinearTech	LT1524			LinearTech	LT1843	
		PIC7527			Motorola	MC7520				SG1524			Motorola	UC1843A	
PIC635	SiliconG	SM635 (3642)			National	AD7520			National	μA1524			SiliconG	SG1843 (3642)	
PIC636	SiliconG	SM636 (3642)				DAC1020				LM1524		UC1844	Unitrode	UC1843	
PIC637	SiliconG	SM637 (3642)				DAC1021			SGS-Thomson	SG1524			Motorola	UC1844A	
PIC645	SiliconG	SM645 (3642)				DAC1022				SG1524			SGS-Thomson	UC1844	
PIC646	SiliconG	SM646 (3642)				7520			SiliconG	SG1524 (3642)				UC1844	
	Unitrode	PIC7514			Samsung	KA2919		UC1524A		SG1524B (3642)			TeledyneS	TSC18C44	
		PIC7532		PIC7522	Sanyo	LA7520N			Unitrode	UC1524A		UC1844A	Unitrode	UC1844A	
PIC647	SiliconG	SM647 (3642)			AD	AD7522			Exar	XR1524			Motorola	UC1844A	
	Unitrode	PIC7515		PIC7523	MicroPwr	MP7522			LinearTech	LT1524			SGS-Thomson	UC1844	
PIC655	SiliconG	SM655 (3642)			AD	AD7523				SG1524				UC1844	
PIC656	SiliconG	SM656 (3642)			Datel	DA7523			National	μA1524		UC1845	TeledyneS	TSC18C44	
	Unitrode	PIC7517			Harris	AD7523				LM1524			Unitrode	UC1844	
PIC657	SiliconG	SM657 (3642)			Maxim	MX7523			SGS-Thomson	SG1524			Motorola	UC1845A	
	Unitrode	PIC7518			MicroPwr	MP7523				SG1524			TeledyneS	TSC18C45	
PIC7501	AD	AD7501			Motorola	MC7523			SiliconG	SG1524 (3642)				TSC28C45	
		MUX08		PIC7524	National	LM7523				SG1524B (3642)		UC1845A	Unitrode	UC1845A	
	Maxim	AD7501			Motorola	MC7525			Unitrode	UC1524			Motorola	UC1845A	
	MicroPwr	MP7501			National	LM7525		UC1525	Exar	XR1525A			TeledyneS	TSC18C45	
PIC7502	AD	AD7502				7525			LinearTech	LT1525				TSC28C45	
	MicroPwr	MP7502		PIC7525	SiliconG	SM625 (3642)				LT1525A		UC1846	Unitrode	UC1845	
	Toshiba	TA7502			Unitrode	PIC625			Motorola	SG1525A			LinearTech	UC1846	
PIC7503	Datel	MV808 (3360)				PIC7507			SiliconG	SG1525A (3642)			SiliconG	SG1846 (3642)	
	Maxim	AD7503		PIC7526	SiliconG	SM626 (3642)			TeledyneS	TSC15C25A			Siliconix	SG1846	
	MicroPwr	MP7503			Unitrode	PIC626			TI	TL1525		UC1847	TeledyneS	TSC38C46	
PIC7504	Sipex-HSD	MUX201				PIC7508			Unitrode	UC1525A			LinearTech	UC1847	
	Fujitsu	MB3609		PIC7527	SiliconG	SM627 (3642)			Exar	XR1525A			SiliconG	SG1847 (3642)	
	NEC	μPC151			Unitrode	PIC627		UC1525A		LT1525			Siliconix	SG1847	
	Toshiba	TA7504		PIC7529	Motorola	PIC7509			LinearTech	LT1525		UC217	TeledyneS	TSC38C47	
PIC7505	SiliconG	SM611 (3642)				MC7529			Motorola	SG1525A			Motorola	LM217	
	Unitrode	PIC611				LM7529			SiliconG	SG1525A (3642)			National	LM217	
PIC7506	SiliconG	SM612 (3642)		PIC7530	Harris	AD7530			TeledyneS	TSC15C25A			SGS-Thomson	LM217	
	Unitrode	PIC612			Maxim	MX7530			TI	TL1525			SiliconG	SG217 (3642)	
					MicroPwr	MP7530			Unitrode	UC1525				SG217A (3642)	

* Discontinued

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Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Unitorde Integrated Circuits (Cont'd)				UC2847	Intel	82C57		UC3525A	Motorola	SG3525A	(Cont'd)	UC7905	National	LM7905	(Cont'd)
				UC2950	OKI	MSM82C57			SGS-Thomson					MC7905	
UC217			(Cont'd)											SG7905	(3642)
UC237	VTC	VM217	(3714)											SG7905A	(3642)
	Motorola	LM237		UC317	Allegro	UDN2950						UC7915	TI	μA7905	
	National	LM237			Micro	SN75605							Motorola	MC7915	
	SiliconG	SG237	(3642)		TI	LLM317							National	μA7915	
UC250					LinearTech	LM317		UC3526	Signetics	SG3526	(3642)			LM7915	
	Motorola	LM250			Motorola	LM317								SG7915	(3642)
	National	LM250			National	μA317		UC3527A	SiliconG	SG3526				SG7915A	(3642)
	SiliconG	SG250	(3642)			LM317			Unitrode	UC3626				μA7915	
UC2524	Exar	XR2524			NEC	LM317			Exar	XR3527A					
	LinearTech	LT2524			Samsung	LM317			LinearTech	LT3527					
		SG2524				LM317L				SG3527					
	National	μA2524			SGS-Thomson				Motorola	SG3527A					
		LM2524				LM317			SGS-Thomson						
	SGS-Thomson	SG2524			SiliconG	SG317	(3642)			SG3527A					
	Signetics	SG2524C			TI	LM317				SG3527A	(3642)				
	SiliconG	SG2524	(3642)	UC320-05	National	LM320-05	(3642)			SiliconG	SG3527A				
		SG2524B	(3642)		SiliconG	SG320-05	(3642)			TeledyneS	TSC35C27A				
	TI	SG2524		UC320-12	National	LM320-12		UC3543	TI	SG3527					
	Unitrode	UC2524A			SiliconG	SG320-12	(3642)		Exar	XR3543					
	Exar	XR2524		UC320-15	GoldStar	GL7915		UC3544	SiliconG	SG3543	(3642)				
	LinearTech	LT2524			Samsung	MC7915		UC3626	Signetics	SG3526					
		SG2524			SGS-Thomson				SiliconG	SG3526	(3642)				
	National	μA2524				μA7915			SiliconG	SG3526					
		LM2524				LT7915			Unitrode	UC3526					
	SGS-Thomson	SG2524			Toshiba	TA79015		UC3717	Ericsson	PBL3717					
	Signetics	SG2524C		UC337	LinearTech	LM337			SGS-Thomson	PBL3717					
	SiliconG	SG2524	(3642)			LT337			Cherry Semi	CS3770					
		SG2524B	(3642)		Motorola	LM337		UC3770	Fujitsu	MB3769A					
	TI	SG2524			National	LM337		UC384	SGS-Thomson						
	Unitrode	UC2524			SGS-Thomson			UC3840		UC3840					
	Exar	XR2525A				LM337				UC3842					
	Harris	HA2525			SiliconG	SG337	(3642)			Motorola	UC3842				
	LinearTech	LT2525A				SG337A	(3642)			SGS-Thomson					
	Motorola	SG2525A			TI	LM337				UC3842					
	SGS-Thomson	SG2525A		UC340-05	Motorola	LM340-05				SiliconG	SG3842	(3642)			
		SG2525A			National	LM340-5				TeledyneS	TSC38C42				
	SiliconG	SG2525A	(3642)		SiliconG	SG340-05	(3642)			Cherry Semi	CS3842A				
	Sipex-HSD	SP2525			Motorola	LM340-12		UC3842A		Motorola	UC3842A				
	TeledyneS	TSC25C25A			Samsung	KA340T12				TeledyneS	TSC28C42				
	TI	SG2525A			SiliconG	SG340-12	(3642)			Cherry Semi	CS3843A				
		LT2525			Unitrode	UC7812				Motorola	UC3843A				
	LinearTech	LT2526			Motorola	LM340-15		UC3843A		SGS-Thomson					
	Motorola	SG2526			National	LM340-15				SiliconG	SG3843	(3642)			
	SiliconG	SG2526	(3642)		SiliconG	SG340-15				TeledyneS	TSC38C44				
	Exar	XR2527A			TI	LM340-15				Motorola	UC3844A				
	LinearTech	LT2527A			LinearTech	LM350				Cherry Semi	CS3845				
	Motorola	SG2527A				LT350				TeledyneS	TSC38C45				
	SiliconG	SG2527A	(3642)		Motorola	LM350				Motorola	UC3845A				
	TeledyneS	TSC25C27A			National	μA350				LinearTech	UC3846				
	TI	SG2527A				LM350				SiliconG	SG3846	(3642)			
		LT2527			NEC	LM350				Siliconix	SG3846				
	Unitrode	UC2527A			SiliconG	SG350	(3642)			TeledyneS	TSC38C46				
	Exar	XR2527A			Cherry Semi	CS3524				LinearTech	UC3847				
	LinearTech	LT2527A			Exar	XR3524				SiliconG	SG3847	(3642)			
	Motorola	SG2527A			Harris	CA3524				Siliconix	SG3847				
	SiliconG	SG2527A	(3642)		National	LM3524				Cherry Semi	CS593C				
	TeledyneS	TSC25C27A			SGS-Thomson					Motorola	TL493				
	TI	SG2527A				SG3524				TI	TL493CN				
		LT2527			Signetics	SG3524				UMC	UC493ACJ				
	Unitrode	UC2527				SG3524C					UC493ACN				
	SiliconG	SG2540	(3642)		SiliconG	SG3524	(3642)								
	Exar	XR2543				SG3524B	(3642)								
	SiliconG	SG2543	(3642)		Unitrode	UC3524A									
	SiliconG	SG2544	(3642)		Cherry Semi	CS3524									
	SiliconG	SG2548	(3642)		Exar	XR3524									
	SGS-Thomson	UC2840			Harris	CA3524									
		UC2840			National	LM3524									
		SG2840			SGS-Thomson										
	SiliconG	SG2840	(3642)			SG3524									
	Cherry Semi	CS2842A			Signetics	SG3524									
	Gennum	LS2842				SG3524C									
	SGS-Thomson	UC2842			SiliconG	SG3524	(3642)								
		SG2842				SG3524B	(3642)								
	SiliconG	SG2842	(3642)		Unitrode	UC3524									
	TeledyneS	TSC28C42			Ericsson	RL3525A									
	Motorola	UC2842A			Exar	XR3525A									
	Cherry Semi	CS2843A			LinearTech	LT3525									
	SGS-Thomson	UC2843				SG3525									
		SG2843			Motorola	SG3525A									
	SiliconG	SG2843	(3642)		SGS-Thomson										
	TeledyneS	TSC28C43				SG3525A									
	Motorola	UC2843A			SiliconG	SG3525A	(3642)								
	Cherry Semi	CS2844			TeledyneS	TSC35C25A									
	Motorola	UC2844			TI	SG3525									
	TeledyneS	TSC28C44			Unitrode	UC3525A									
	Motorola	UC2844A			Ericsson	RL3525A									
	SiliconG	SG2846	(3642)		Exar	XR3525A									
		UC2846			LinearTech	LT3525									
	TeledyneS	TSC28C46				SG3525									
(Continued)				(Continued)											

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Universal Semiconductor											
• UM2332	Commodore	MPS2332		UC3844	Cherry Semi	CS3770		UC3844A	Fujitsu	P51C69	
	Fujitsu	P51C69		UC384	SGS-Thomson	MB3769A		UC3845	Hitachi	P51C69	
	Intel	UM2168							Intel	UM2168	
		51C69									
• UM2332	Microchip	R09432		UC3842	Motorola	UC3842		UC3842A	VLSI Tech	VT2332	
	Mitsubishi	M58333			SGS-Thomson				Commodore	MPS2333	
	National	F3532			UC3842	UC3842		UC3842A	Microchip	R09433	
		NM52132			SiliconG	SG3842	(3642)		National	F3533	
• UM2332	NCR	NCR2332			TeledyneS	TSC38C42			Supertex	23C32	
	Panasonic	MN2332			Cherry Semi	CS3842A			Commodore	MPS2333	
	Sharp	LH2332			Motorola	UC3842A			Microchip	R09433	
	Siemens	SAB8332			TeledyneS	TSC28C42			National	F3533	
		SAB8332			Cherry Semi	CS3843A			Supertex	23C32	
• UM2332	Signetics	2332			Motorola	UC3843A			Krueger	2532-350	(3513)
		2632A			SGS-Thomson					2532-450	(3513)
• UM2332	TI	D51C69			SiliconG	SG3843	(3642)			MM2532	
		P51C69			TeledyneS	TSC38C44				NMC2532	
• UM2332	VLSI Tech	VT2332			Motorola	UC3844A				TDA2530	
• UM2333	Commodore	MPS2333			Cherry Semi	CS3845				TDA2532	
	Microchip	R09433			TeledyneS	TSC38C45				TDA2530	
	National	F3533			Motorola	UC3845A				MT2732	
	Supertex	23C32			LinearTech	UC3846				2732	
• UM2333-30	Commodore	MPS2333			SiliconG	SG3846	(3642)			2732A	
	Microchip	R09433			Siliconix	SG3846				2732-250	(3513)
	National	F3533			TeledyneS	TSC38C46				2732-300	(3513)
	Supertex	23C32			LinearTech	UC3847				2732-350	(3513)
• UM2532	Krueger	2532-350	(3513)		SiliconG	SG3847	(3642)			2732A-350	(3513)
		2532-450	(3513)		Siliconix	SG3847				2732A-450	(3513)
• UM2532	National	MM2532			Cherry Semi	CS593C					
		NMC2532			Motorola	TL493					
		TDA2530			TI	TL493CN					
• UM2532	Plessey	TDA2530			UMC	UC493ACJ					
• UM2732	Intel	MT2732				UC493ACN					
		2732									
• UM2732	Krueger	2732-250	(3513)								
		2732-300	(3513)								
		2732-350	(3513)								
	</										

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Universal Semiconductor (Cont'd)				• US74HCT165	Harris	CD74HCT165		• US74HCT245		(Cont'd)		• US74HCT4051	Harris	CD74HCT4051	
• US74HCT02	Harris	CD74HCT02		• US74HCT166	Signetics	74HCT166		• US74HCT245A	TI	SN74HCT245	(367A)	• US74HCT4052	Harris	CD74HCT4052	
• US74HCT04	Signetics	74HCT02		• US74HCT173	Signetics	CD74HCT166		• US74HCT251	Toshiba	TC74HCT245A		• US74HCT4053	Signetics	74HCT4051	
	Harris	CD74HCT04		• US74HCT174	Signetics	74HCT173		• US74HCT253	Harris	CD74HCT251		• US74HCT4060	Harris	CD74HCT4052	
	National	MM72HCT04		• US74HCT175	Signetics	CD74HCT174		• US74HCT257	Signetics	MM74HCT251		• US74HCT423	Signetics	CD74HCT4053	
	SGS-Thomson	74HCT04		• US74HCT190	Signetics	74HCT174		• US74HCT259	National	CD74HCT253		• US74HCT4511	Harris	74HCT4053	
		M74HCT04		• US74HCT191	Toshiba	TC74HCT174A		• US74HCT27	Signetics	74HCT253		• US74HCT4514	Harris	CD74HCT4060	
		SN74HCT04		• US74HCT191	Signetics	74HCT175		• US74HCT273	Harris	CD74HCT257		• US74HCT4538	Signetics	74HCT4060	
		TC74HCT04A	(367A)	• US74HCT195	Signetics	74HCT190		• US74HCT299	National	MM74HCT257		• US74HCT533	Harris	CD74HCT42	
• US74HCT08	Harris	CD74HCT08		• US74HCT20	Signetics	74HCT190		• US74HCT30	Toshiba	74HCT257		• US74HCT538	Signetics	CD74HCT423	
• US74HCT10	National	MM74HCT08		• US74HCT221	Signetics	74HCT191		• US74HCT32	Signetics	TC74HCT257A	(367A)	• US74HCT540	Harris	74HCT423	
• US74HCT109	Signetics	74HCT08		• US74HCT237	Signetics	74HCT191		• US74HCT365	Harris	74HCT259		• US74HCT541	Signetics	CD74HCT4511	
• US74HCT11	Harris	CD74HCT10		• US74HCT240	Signetics	74HCT192		• US74HCT366	Harris	CD74HCT27		• US74HCT543	Harris	CD74HCT4514	
• US74HCT112	Signetics	74HCT10		• US74HCT241	Signetics	74HCT192		• US74HCT367	Signetics	74HCT27		• US74HCT544	Signetics	74HCT4511	
• US74HCT123	Harris	CD74HCT109		• US74HCT242	Signetics	74HCT193		• US74HCT373	Harris	CD74HCT273		• US74HCT545	Harris	CD74HCT4514	
• US74HCT125	National	MM74HCT109		• US74HCT243	Signetics	74HCT193		• US74HCT374	National	MM74HCT273		• US74HCT546	Harris	CD74HCT4538	
• US74HCT126	Signetics	74HCT109		• US74HCT244	Signetics	74HCT194		• US74HCT377	TI	74HCT273		• US74HCT547	Harris	CD74HCT4538	
• US74HCT132	Harris	CD74HCT11		• US74HCT245	Signetics	74HCT194		• US74HCT378	Toshiba	SN74HCT273		• US74HCT548	Harris	74HCT4538	
• US74HCT137	Signetics	74HCT11		• US74HCT246	Signetics	74HCT195		• US74HCT379	Signetics	TC74HCT273A		• US74HCT549	Harris	CD74HCT4538	
	Harris	CD74HCT112		• US74HCT247	Signetics	74HCT195		• US74HCT380	National	CD74HCT299		• US74HCT550	Harris	74HCT4538	
	Marconi	74HCT112		• US74HCT248	Signetics	74HCT195		• US74HCT381	Signetics	MM74HCT299		• US74HCT551	Harris	CD74HCT4543	
	Plessey	MM74HCT112		• US74HCT249	Signetics	74HCT195		• US74HCT382	Signetics	74HCT299		• US74HCT552	Harris	74HCT4543	
	SGS-Thomson	74HCT112		• US74HCT250	Signetics	74HCT195		• US74HCT383	Signetics	CD74HCT30		• US74HCT553	Harris	CD74HCT4543	
		M74HCT137		• US74HCT251	Signetics	74HCT195		• US74HCT384	Signetics	74HCT30		• US74HCT554	Harris	CD74HCT4543	
		74HCT137		• US74HCT252	Signetics	74HCT195		• US74HCT385	Signetics	CD74HCT32		• US74HCT555	Harris	CD74HCT4543	
		SN74HCT137		• US74HCT253	Signetics	74HCT195		• US74HCT386	Signetics	74HCT32		• US74HCT556	Harris	CD74HCT4543	
		TC74HCT137A	(367A)	• US74HCT254	Signetics	74HCT195		• US74HCT387	Signetics	CD74HCT354		• US74HCT557	Harris	CD74HCT4543	
• US74HCT138	Harris	CD74HCT138		• US74HCT255	Signetics	74HCT195		• US74HCT388	Signetics	74HCT354		• US74HCT558	Harris	CD74HCT4543	
• US74HCT139	Marconi	74HCT138		• US74HCT256	Signetics	74HCT195		• US74HCT389	Signetics	CD74HCT356		• US74HCT559	Harris	CD74HCT4543	
• US74HCT140	National	MM74HCT138		• US74HCT257	Signetics	74HCT195		• US74HCT390	Signetics	74HCT356		• US74HCT560	Harris	CD74HCT4543	
• US74HCT141	Plessey	MV74HCT138		• US74HCT258	Signetics	74HCT195		• US74HCT391	Signetics	74HCT356		• US74HCT561	Harris	CD74HCT4543	
• US74HCT142	SGS-Thomson	74HCT138		• US74HCT259	Signetics	74HCT195		• US74HCT392	Signetics	74HCT356		• US74HCT562	Harris	CD74HCT4543	
• US74HCT143	Signetics	M74HCT138		• US74HCT260	Signetics	74HCT195		• US74HCT393	Signetics	74HCT356		• US74HCT563	Harris	CD74HCT4543	
• US74HCT144	TI	74HCT138		• US74HCT261	Signetics	74HCT195		• US74HCT394	Signetics	74HCT356		• US74HCT564	Harris	CD74HCT4543	
• US74HCT145	Toshiba	SN74HCT138		• US74HCT262	Signetics	74HCT195		• US74HCT395	Signetics	74HCT356		• US74HCT565	Harris	CD74HCT4543	
• US74HCT146	Signetics	TC74HCT138A	(367A)	• US74HCT263	Signetics	74HCT195		• US74HCT396	Signetics	74HCT356		• US74HCT566	Harris	CD74HCT4543	
• US74HCT147	Harris	CD74HCT139		• US74HCT264	Signetics	74HCT195		• US74HCT397	Signetics	74HCT356		• US74HCT567	Harris	CD74HCT4543	
• US74HCT148	Marconi	74HCT139		• US74HCT265	Signetics	74HCT195		• US74HCT398	Signetics	74HCT356		• US74HCT568	Harris	CD74HCT4543	
• US74HCT149	National	IDT74HCT139		• US74HCT266	Signetics	74HCT195		• US74HCT399	Signetics	74HCT356		• US74HCT569	Harris	CD74HCT4543	
• US74HCT150	Signetics	74HCT139		• US74HCT267	Signetics	74HCT195		• US74HCT400	Signetics	74HCT356		• US74HCT570	Harris	CD74HCT4543	
• US74HCT151	Harris	MM74HCT139		• US74HCT268	Signetics	74HCT195		• US74HCT401	Signetics	74HCT356		• US74HCT571	Harris	CD74HCT4543	
• US74HCT152	Signetics	MV74HCT139		• US74HCT269	Signetics	74HCT195		• US74HCT402	Signetics	74HCT356		• US74HCT572	Harris	CD74HCT4543	
• US74HCT153	Harris	74HCT139		• US74HCT270	Signetics	74HCT195		• US74HCT403	Signetics	74HCT356		• US74HCT573	Harris	CD74HCT4543	
• US74HCT154	National	74HCT139		• US74HCT271	Signetics	74HCT195		• US74HCT404	Signetics	74HCT356		• US74HCT574	Harris	CD74HCT4543	
• US74HCT155	Signetics	74HCT139		• US74HCT272	Signetics	74HCT195		• US74HCT405	Signetics	74HCT356		• US74HCT575	Harris	CD74HCT4543	
• US74HCT156	Harris	74HCT139		• US74HCT273	Signetics	74HCT195		• US74HCT406	Signetics	74HCT356		• US74HCT576	Harris	CD74HCT4543	
• US74HCT157	Marconi	74HCT139		• US74HCT274	Signetics	74HCT195		• US74HCT407	Signetics	74HCT356		• US74HCT577	Harris	CD74HCT4543	
• US74HCT158	National	74HCT139		• US74HCT275	Signetics	74HCT195		• US74HCT408	Signetics	74HCT356		• US74HCT578	Harris	CD74HCT4543	
• US74HCT159	Signetics	74HCT139		• US74HCT276	Signetics	74HCT195		• US74HCT409	Signetics	74HCT356		• US74HCT579	Harris	CD74HCT4543	
• US74HCT160	Harris	74HCT139		• US74HCT277	Signetics	74HCT195		• US74HCT410	Signetics	74HCT356		• US74HCT580	Harris	CD74HCT4543	
• US74HCT161	Marconi	74HCT139		• US74HCT278	Signetics	74HCT195		• US74HCT411	Signetics	74HCT356		• US74HCT581	Harris	CD74HCT4543	
• US74HCT162	National	74HCT139		• US74HCT279	Signetics	74HCT195		• US74HCT412	Signetics	74HCT356		• US74HCT582	Harris	CD74HCT4543	
• US74HCT163	Signetics	74HCT139		• US74HCT280	Signetics	74HCT195		• US74HCT413	Signetics	74HCT356		• US74HCT583	Harris	CD74HCT4543	
• US74HCT164	Harris	74HCT139		• US74HCT281	Signetics	74HCT195		• US74HCT414	Signetics	74HCT356		• US74HCT584	Harris	CD74HCT4543	
• US74HCT165	Marconi	74HCT139		• US74HCT282	Signetics	74HCT195		• US74HCT415	Signetics	74HCT356		• US74HCT585	Harris	CD74HCT4543	
• US74HCT166	National	74HCT139		• US74HCT283	Signetics	74HCT195		• US74HCT416	Signetics	74HCT356		• US74HCT586	Harris	CD74HCT4543	
• US74HCT167	Signetics	74HCT139		• US74HCT284	Signetics	74HCT195		• US74HCT417	Signetics	74HCT356		• US74HCT587	Harris	CD74HCT4543	
• US74HCT168	Harris	74HCT139		• US74HCT285	Signetics	74HCT195		• US74HCT418	Signetics	74HCT356		• US74HCT588	Harris	CD74HCT4543	
• US74HCT169	Marconi	74HCT139		• US74HCT286	Signetics	74HCT195		• US74HCT419	Signetics	74HCT356		• US74HCT589	Harris	CD74HCT4543	
• US74HCT170	National	74HCT139		• US74HCT287	Signetics	74HCT195		• US74HCT420	Signetics	74HCT356		• US74HCT590	Harris	CD74HCT4543	
• US74HCT171	Signetics	74HCT139		• US74HCT288	Signetics	74HCT195		• US74HCT421	Signetics	74HCT356		• US74HCT591	Harris	CD74HCT4543	
• US74HCT172	Harris	74HCT139		• US74HCT289	Signetics	74HCT195		• US74HCT422	Signetics	74HCT356		• US74HCT592	Harris	CD74HCT4543	
• US74HCT173	Marconi	74HCT139		• US74HCT290	Signetics	74HCT195		• US74HCT423	Signetics	74HCT356		• US74HCT593	Harris	CD74HCT4543	
• US74HCT174	National	74HCT139		• US74HCT291	Signetics	74HCT195		• US74HCT424	Signetics	74HCT356		• US74HCT594	Harris	CD74HCT4543	
• US74HCT175	Signetics	74HCT139		• US74HCT292	Signetics	74HCT195		• US74HCT425	Signetics	74HCT356		• US74HCT595	Harris	CD74HCT4543	
• US74HCT176	Harris	74HCT139		• US74HCT293	Signetics	74HCT195		• US74HCT426	Signetics	74HCT356		• US74HCT596	Harris	CD74HCT4543	
• US74HCT177	Marconi	74HCT139		• US74HCT294	Signetics	74HCT195		• US74HCT427	Signetics	74HCT356		• US74HCT597	Harris	CD74HCT4543	
• US74HCT178	National	74HCT139		• US74HCT295	Signetics	74HCT195		• US74HCT428	Signetics	74HCT356		• US74HCT598	Harris	CD74HCT4543	
• US74HCT179	Signetics	74HCT139		• US74HCT296	Signetics	74HCT195		• US74HCT429	Signetics	74HCT356		• US74HCT599	Harris	CD74HCT4543	
• US74HCT180	Harris	74HCT139		• US74HCT297	Signetics	74HCT195		• US74HCT430	Signetics	74HCT356		• US74HCT600	Harris	CD74HCT4543	
• US74HCT181	Marconi	74HCT139		• US74HCT298	Signetics	74HCT195		• US74HCT431	Signetics	74HCT356		• US74HCT601	Harris	CD74HCT4543	
• US74HCT182	National	74HCT139		• US74HCT299	Signetics	74HCT195		• US74HCT432	Signetics	74HCT356		• US74HCT602	Harris	CD74HCT4543	
• US74HCT183	Signetics	74HCT139		• US74HCT300	Signetics	74HCT195		• US74HCT433	Signetics	74HCT356		• US74HCT603	Harris	CD74HCT4543	
• US74HCT184	Harris	74HCT139		• US74HCT301	Signetics	74HCT195		• US74HCT434	Signetics	74HCT356		• US74HCT604	Harris	CD74HCT4543	
• US74HCT185	Marconi	74HCT139		• US74HCT302	Signetics	74HCT195		• US74HCT435	Signetics	74HCT356		• US74HCT605	Harris	CD74HCT4543	
• US74HCT186	National	74HCT139		• US74HCT303	Signetics	74HCT195		• US74HCT436	Signetics	74HCT356		• US74HCT606	Harris	CD74HCT4543	
• US74HCT187	Signetics	74HCT139		• US74HCT304	Signetics	74HCT195		• US74HCT437	Signetics	74HCT356		• US74HCT607	Harris	CD74HCT4543	
• US74HCT188	Harris	74HCT139		• US74HCT305	Signetics	74HCT195		• US74HCT438	Signetics	74HCT356		• US74HCT608	Harris	CD74HCT4543	
• US74HCT189	Marconi	74HCT139		• US74HCT306	Signetics	74HCT195		• US74HCT439	Signetics	74HCT356		• US74HCT609	Harris	CD74HCT4543	
• US74HCT190	National	74HCT139		• US74HCT307	Signetics	74HCT1									

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Universal Semiconductor (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
• US74HCT573	Signetics TI	74HCT573 SN74HCT573	(Cont'd)	• US74HC08	Signetics TI	74HC08 SN74HC08	(Cont'd)	• US74HC132	SGS-Thomson	M74HC132 74HC132	(Cont'd)	• US74HC158	Harris Hitachi Motorola National SGS-Thomson	CD74HC158 HD74HC158 MC74HC158 MM74HC158	
• US74HCT574	Harris Marconi National Plessey SGS-Thomson	CD74HCT574 74HCT574 MM74HCT574 MV74HCT574		• US74HC10	Harris Hitachi Motorola National SGS-Thomson	CD74HC10 HD74HC10 MC74HC10 MM74HC10		• US74HC133	Motorola National SGS-Thomson	MC74HC133 MM74HC133	(3674)	• US74HC160	Harris Motorola National SGS-Thomson	CD74HC160 MC74HC160 MM74HC160	(3674)
• US74HCT640	Signetics TI Toshiba	M74HCT574 74HCT574 SN74HCT574 TC74HCT574		• US74HC107	Harris Hitachi Motorola National SGS-Thomson	CD74HC107 HD74HC107 MC74HC107 MM74HC107		• US74HC137	Harris Hitachi Motorola National SGS-Thomson	CD74HC137 HD74HC137 MC74HC137 MM74HC137	(3674)	• US74HC161	Harris Hitachi Motorola National SGS-Thomson	CD74HC161 HD74HC161 MC74HC161 MM74HC161	(3674)
• US74HCT643	Harris SGS-Thomson	CD74HCT643		• US74HC109	Harris Hitachi Motorola National SGS-Thomson	CD74HC109 HD74HC109 MC74HC109 MM74HC109		• US74HC138	Harris Hitachi Motorola National SGS-Thomson	CD74HC138 HD74HC138 MC74HC138 MM74HC138	(3674)	• US74HC162	Harris Hitachi Motorola National SGS-Thomson	CD74HC162 HD74HC162 MC74HC162 MM74HC162	(3674)
• US74HCT646	Harris SGS-Thomson	CD74HCT646		• US74HC11	Harris Hitachi Motorola National SGS-Thomson	CD74HC11 HD74HC11 MC74HC11 MM74HC11		• US74HC139	Harris Hitachi Motorola National SGS-Thomson	CD74HC139 HD74HC139 MC74HC139 MM74HC139	(3674)	• US74HC163	Harris Hitachi Motorola National SGS-Thomson	CD74HC163 HD74HC163 MC74HC163 MM74HC163	(3674)
• US74HCT648	Harris SGS-Thomson	CD74HCT648		• US74HC112	Harris Hitachi Motorola National SGS-Thomson	CD74HC112 HD74HC112 MC74HC112 MM74HC112		• US74HC14	Harris Hitachi Motorola National SGS-Thomson	CD74HC14 HD74HC14 MC74HC14 MM74HC14	(3674)	• US74HC164	Harris Hitachi Motorola National SGS-Thomson	CD74HC164 HD74HC164 MC74HC164 MM74HC164	(3674)
• US74HCT688	Harris National Signetics Toshiba	CD74HCT688 MM74HCT688 74HCT688 TC74HCT688A	(3674)	• US74HC113	Harris Hitachi Motorola National SGS-Thomson	CD74HC113 HD74HC113 MC74HC113 MM74HC113		• US74HC147	Harris Hitachi Motorola National SGS-Thomson	CD74HC147 HD74HC147 MC74HC147 MM74HC147	(3674)	• US74HC165	Harris Hitachi Motorola National SGS-Thomson	CD74HC165 HD74HC165 MC74HC165 MM74HC165	(3674)
• US74HCT74	Harris National Signetics	CD74HCT74 MM74HCT74 74HCT74		• US74HC123	Harris Hitachi Motorola National SGS-Thomson	CD74HC123 HD74HC123 MC74HC123 MM74HC123		• US74HC153	Harris Hitachi Motorola National SGS-Thomson	CD74HC153 HD74HC153 MC74HC153 MM74HC153	(3674)	• US74HC166	Harris National SGS-Thomson	CD74HC166 MM74HC166	(3674)
• US74HCT75	Harris Signetics	CD74HCT75 74HCT75		• US74HC125	Harris Hitachi Motorola National SGS-Thomson	CD74HC125 HD74HC125 MC74HC125 MM74HC125		• US74HC154	Harris Hitachi Motorola National SGS-Thomson	CD74HC154 HD74HC154 MC74HC154 MM74HC154	(3674)	• US74HC173	Harris Hitachi Motorola National SGS-Thomson	CD74HC173 HD74HC173 MC74HC173 MM74HC173	(3674)
• US74HCT76	Signetics	74HCT76		• US74HC126	Harris Hitachi Motorola National SGS-Thomson	CD74HC126 HD74HC126 MC74HC126 MM74HC126		• US74HC157	Harris Hitachi Motorola National SGS-Thomson	CD74HC157 HD74HC157 MC74HC157 MM74HC157	(3674)	• US74HC174	Harris Hitachi Motorola National SGS-Thomson	CD74HC174 HD74HC174 MC74HC174 MM74HC174	(3674)
• US74HCT85	Harris Signetics	CD74HCT85 74HCT85		• US74HC132	Harris Hitachi Motorola National	CD74HC132 HD74HC132 MC74HC132 MM74HC132	(Continued)								(Continued)
• US74HCT86	Harris Signetics	CD74HCT86 74HCT86													
• US74HC00	Harris Hitachi Motorola National SGS-Thomson	CD74HC00 HD74HC00 MC74HC00 MM74HC00													
• US74HC02	Signetics TI Toshiba	M74HC00 74HC00 SN74HC00 TC74HC00A	(3674)												
• US74HC03	Harris Motorola National SGS-Thomson	CD74HC03 MC74HC03 MM74HC03													
• US74HC08	Signetics TI Toshiba	M74HC03 74HC03 SN74HC03 TC74HC03A	(3674)												

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

ALTERNATE SOURCE DIRECTORY

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page		
Universal Semiconductor (Cont'd)				• US74HC221	SGS-Thomson	M74HC221 74HC221 TC74HC221A	(3674)	• US74HC259	(Cont'd)			• US74HC365	(Cont'd)				
• US74HC174	(Cont'd)			• US74HC237	Harris	CD74HC237		• US74HC266	Harris	CD74HC266		• US74HC366	Harris	CD74HC366			
	TI	SN74HC174			Motorola	MC74HC237			National	MM74HC266			Hitachi	HD74HC366			
	Toshiba	TC74HC174A	(3674)		SGS-Thomson	M74HC237			SGS-Thomson	M74HC266			Motorola	MC74HC366			
• US74HC175	Harris	CD74HC175			Signetics	74HC237			Signetics	74HC266			SGS-Thomson	MM74HC366			
	Hitachi	HD74HC175			TI	SN74HC237			TI	SN74HC266			Signetics	74HC366			
	Motorola	MC74HC175			Toshiba	TC74HC237A	(3674)		Toshiba	TC74HC266A			TI	SN74HC366			
	National	MM74HC175							Harris	CD74HC273			Toshiba	TC74HC366A	(3674)		
	SGS-Thomson	M74HC175		• US74HC242	Harris	CD74HC242		• US74HC273	Hitachi	HD74HC273		• US74HC367	Harris	CD74HC367			
	Signetics	74HC175			Hitachi	HD74HC242			Marconi	74HC273			Hitachi	HD74HC367			
	TI	SN74HC175			Motorola	MC74HC242			Motorola	MC74HC273			Motorola	MC74HC367			
	Toshiba	TC74HC175A	(3674)		National	MM74HC242			National	MM74HC273			National	MM74HC367			
• US74HC190	Harris	CD74HC190			SGS-Thomson	M74HC242			SGS-Thomson	M74HC273			SGS-Thomson	M74HC367			
	Hitachi	HD74HC190			Signetics	74HC242			Signetics	74HC273			Signetics	74HC367			
	National	MM74HC190			TI	SN74HC242			TI	SN74HC273			TI	SN74HC367			
	SGS-Thomson	M74HC190		• US74HC243	Toshiba	TC74HC242			Toshiba	TC74HC273A	(3674)		Toshiba	TC74HC367A	(3674)		
	Signetics	74HC190			Harris	CD74HC243			• US74HC283	Harris	CD74HC283		• US74HC368	Harris	CD74HC368		
	TI	SN74HC190			Hitachi	HD74HC243				National	MM74HC283			Hitachi	HD74HC368		
	Toshiba	TC74HC190A	(3674)		Motorola	MC74HC243				SGS-Thomson	M74HC283			Motorola	MC74HC368		
• US74HC191	Harris	CD74HC191			National	MM74HC243				Signetics	74HC283			National	MM74HC368		
	Hitachi	HD74HC191			SGS-Thomson	M74HC243				TI	SN74HC283			SGS-Thomson	M74HC368		
	National	MM74HC191			Signetics	74HC243				Toshiba	TC74HC283A	(3674)		Signetics	74HC368		
	SGS-Thomson	M74HC191		• US74HC244	TI	SN74HC243			• US74HC298	Hitachi	HD74HC298			TI	SN74HC368		
	Signetics	74HC191			Toshiba	TC74HC243				Motorola	MC74HC298			Toshiba	TC74HC368A	(3674)	
	TI	SN74HC191			Harris	CD74HC244				National	MM74HC298						
	Toshiba	TC74HC191A	(3674)		Hitachi	HD74HC244				SGS-Thomson	M74HC298		• US74HC373	Harris	CD74HC373		
• US74HC192	Harris	CD74HC192			Motorola	MC74HC244				Signetics	TC74HC298A			Hitachi	HD74HC373		
	Hitachi	HD74HC192			SGS-Thomson	M74HC244				TI	SN74HC298			Motorola	MC74HC373		
	National	MM74HC192			Signetics	74HC244				Toshiba	TC74HC298A	(3674)		National	MM74HC373		
	SGS-Thomson	M74HC192		• US74HC245	TI	SN74HC244			• US74HC299	Harris	CD74HC299			SGS-Thomson	M74HC373		
	Signetics	74HC192			Toshiba	TC74HC244A	(3674)			Motorola	MC74HC299			Signetics	74HC373		
	TI	SN74HC192								National	MM74HC299			TI	SN74HC373		
	Toshiba	TC74HC192A	(3674)		Harris	CD74HC245				SGS-Thomson	M74HC299		• US74HC374	Harris	CD74HC374		
• US74HC193	Harris	CD74HC193			Hitachi	HD74HC245				Signetics	74HC299			Hitachi	HD74HC374		
	Hitachi	HD74HC193			Motorola	MC74HC245				TI	SN74HC299			Motorola	MC74HC374		
	National	MM74HC193			National	MM74HC245				Toshiba	TC74HC299A	(3674)		National	MM74HC374		
	SGS-Thomson	M74HC193		• US74HC251	SGS-Thomson	M74HC245								SGS-Thomson	M74HC374		
	Signetics	74HC193			Signetics	74HC245			• US74HC30	Harris	CD74HC30			Signetics	74HC374		
	TI	SN74HC193			TI	SN74HC245				Hitachi	HD74HC30			TI	SN74HC374		
	Toshiba	TC74HC193A	(3674)		Toshiba	TC74HC245A	(3674)			Motorola	MC74HC30			Toshiba	TC74HC374A	(3674)	
• US74HC194	Harris	CD74HC194			Harris	CD74HC251			• US74HC30	Harris	CD74HC30						
	Hitachi	HD74HC194			Hitachi	HD74HC251				Hitachi	HD74HC30			• US74HC375	Hitachi	HD74HC375	
	Motorola	MC74HC194			Motorola	MC74HC251				Motorola	MC74HC30			SGS-Thomson	M74HC375		
	National	MM74HC194			National	MM74HC251				National	MM74HC30			TI	SN74HC375		
	SGS-Thomson	M74HC194			SGS-Thomson	M74HC251				SGS-Thomson	M74HC30			Toshiba	TC74HC375A	(3674)	
	Signetics	74HC194		• US74HC253	Signetics	74HC251				Signetics	74HC30						
	TI	SN74HC194			TI	SN74HC251			• US74HC32	Harris	CD74HC32			• US74HC377	Harris	CD74HC377	
	Toshiba	TC74HC194A	(3674)		Toshiba	TC74HC251A	(3674)			Hitachi	HD74HC32			Hitachi	HD74HC377		
• US74HC195	Harris	CD74HC195								Motorola	MC74HC32			Motorola	MC74HC377		
	Hitachi	HD74HC195			Harris	CD74HC253				National	MM74HC32			SGS-Thomson	M74HC377		
	Motorola	MC74HC195			Hitachi	HD74HC253				SGS-Thomson	M74HC32			Signetics	74HC377		
	National	MM74HC195			Motorola	MC74HC253				Signetics	74HC32			TI	SN74HC377		
	SGS-Thomson	M74HC195			National	MM74HC253				TI	SN74HC32			Toshiba	TC74HC377A	(3674)	
	Signetics	74HC195		• US74HC257	SGS-Thomson	M74HC253				Toshiba	TC74HC32A	(3674)		• US74HC390	Harris	CD74HC390	
	TI	SN74HC195			Signetics	74HC253			• US74HC354	Harris	CD74HC354			Hitachi	HD74HC390		
	Toshiba	TC74HC195A	(3674)		TI	SN74HC253				Hitachi	HD74HC354			Motorola	MC74HC390		
• US74HC20	Harris	CD74HC20			Toshiba	TC74HC253A	(3674)			National	MM74HC354			National	MM74HC390		
	Hitachi	HD74HC20			Harris	CD74HC257				SGS-Thomson	M74HC354			SGS-Thomson	M74HC390		
	Motorola	MC74HC20			Hitachi	HD74HC257				Signetics	74HC354			Signetics	74HC390		
	National	MM74HC20			Motorola	MC74HC257				TI	SN74HC354			TI	SN74HC390		
	SGS-Thomson	M74HC20		• US74HC258	SGS-Thomson	M74HC257				Toshiba	TC74HC354A	(3674)		Toshiba	TC74HC390A	(3674)	
	Signetics	74HC20			Signetics	74HC257			• US74HC356	Harris	CD74HC356			• US74HC393	Harris	CD74HC393	
	TI	SN74HC20			TI	SN74HC257				Hitachi	HD74HC356			Hitachi	HD74HC393		
	Toshiba	TC74HC20A	(3674)		Toshiba	TC74HC257A	(3674)			National	MM74HC356			Motorola	MC74HC393		
• US74HC21	Harris	CD74HC21								SGS-Thomson	M74HC356			National	MM74HC393		
	Hitachi	HD74HC21			Harris	CD74HC258				Signetics	74HC356			SGS-Thomson	M74HC393		
	Motorola	MC74HC21			Hitachi	HD74HC258				TI	SN74HC356			Signetics	74HC393		
	SGS-Thomson	M74HC21			SGS-Thomson	M74HC258				Toshiba	TC74HC356A	(3674)		TI	SN74HC393		
	Signetics	74HC21		• US74HC259	Signetics	74HC258								Toshiba	TC74HC393A	(3674)	
	TI	SN74HC21			TI	SN74HC258			• US74HC365	Harris	CD74HC365			• US74HC4002	Harris	CD74HC4002	
	Toshiba	TC74HC21A	(3674)		Toshiba	TC74HC258A	(3674)			Hitachi	HD74HC365			Motorola	MC74HC4002		
• US74HC221	Harris	CD74HC221								Motorola	MC74HC365			National	MM74HC4002		
	Hitachi	HD74HC221			Harris	CD74HC259				National	MM74HC365			SGS-Thomson	M74HC4002		
	National	MM74HC221A	(Continued)		Hitachi	HD74HC259				SGS-Thomson	M74HC365				(Continued)		
					Motorola	MC74HC259				Signetics	74HC365						
					National	MM74HC259					(Continued)						

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Universal Semiconductor (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
• US74HC4002	Signetics TI Toshiba	74HC4002 SN74HC4002 TC74HC4002A	(3674)	• US74HC4060	Signetics TI Toshiba	74HC4060 SN74HC4060 TC74HC4060A	(3674)	• US74HC534	National SGS-Thomson	MM74HC534	(Cont'd)	• US74HC595	Vitelco VLSI Tech	V61C62 CT64KS4	(Cont'd)
• US74HC4016	Harris Motorola	CD74HC4016 MC74HC4016		• US74HC4066	Harris Motorola National SGS-Thomson	CD74HC4066 MC74HC4066 MM74HC4066		• US74HC534	Signetics TI Toshiba	M74HC534 74HC534 SN74HC534 TC74HC534A	(3674)	• US74HC597	Harris Hitachi Motorola National SGS-Thomson	CD74HC597 HD74HC597 MC74HC597 MM74HC597	
• US74HC4017	Harris Motorola National SGS-Thomson	CD74HC4017 MC74HC4017 MM74HC4017		• US74HC4075	Cypress Harris Motorola National Panasonic SGS-Thomson	CY7C167A CD74HC4075 MC74HC4075 MM74HC4075 MN74HC4075		• US74HC540	Harris Hitachi Motorola National SGS-Thomson	CD74HC540 HD74HC540 MC74HC540 MM74HC540		• US74HC640	Harris Hitachi Motorola National SGS-Thomson	CD74HC640 HD74HC640 MC74HC640 MM74HC640	
• US74HC4020	Signetics TI Toshiba Harris Hitachi Motorola National SGS-Thomson	M74HC4017 74HC4017 SN74HC4017 TC74HC4017 CD74HC4020 HD74HC4020 MC74HC4020 MM74HC4020		• US74HC4078	Motorola National SGS-Thomson	MC74HC4078 MM74HC4078		• US74HC541	Harris Hitachi Motorola National SGS-Thomson	CD74HC541 HD74HC541 MC74HC541 MM74HC541		• US74HC643	Harris Hitachi National SGS-Thomson	CD74HC643 HD74HC643 MM74HC643	
• US74HC4024	Signetics TI Toshiba Harris Hitachi Motorola National SGS-Thomson	M74HC4020 74HC4020 SN74HC4020 TC74HC4020 CD74HC4024 HD74HC4024 MC74HC4024 MM74HC4024		• US74HC4078	Motorola National SGS-Thomson	MC74HC4078 MM74HC4078		• US74HC563	Harris Hitachi Motorola National SGS-Thomson	CD74HC563 HD74HC563 MC74HC563 MM74HC563		• US74HC646	Harris Hitachi National SGS-Thomson	CD74HC646 HD74HC646 MC74HC646 MM74HC646	
• US74HC4040	Signetics TI Toshiba	M74HC4024 74HC4024 SN74HC4024 TC74HC4024A	(3674)	• US74HC42	Harris Hitachi Motorola National SGS-Thomson	CD74HC42 HD74HC42 MC74HC42 MM74HC42		• US74HC564	Signetics TI Toshiba	M74HC563 74HC563 SN74HC563 TC74HC563A	(3674)	• US74HC648	Harris Hitachi National SGS-Thomson	CD74HC648 HD74HC648 MC74HC648 MM74HC648	
• US74HC4049	Harris Hitachi Motorola National SGS-Thomson	CD74HC4040 HD74HC4040 MC74HC4040 MM74HC4040		• US74HC423	Hitachi National Toshiba	HD74HC423 MM74HC423A TC74HC423A	(3674)	• US74HC564	Harris Hitachi Motorola National SGS-Thomson	CD74HC564 HD74HC564 MC74HC564 MM74HC564		• US74HC73	Harris Hitachi Motorola National SGS-Thomson	CD74HC73 HD74HC73 MC74HC73 MM74HC73	
• US74HC4050	Signetics TI Toshiba	M74HC4040 74HC4040 SN74HC4040 TC74HC4040A	(3674)	• US74HC4514	Harris Hitachi Motorola National SGS-Thomson	CD74HC4514 HD74HC4514 MC74HC4514 MM74HC4514		• US74HC573	Harris Hitachi Motorola National SGS-Thomson	CD74HC573 HD74HC573 MC74HC573 MM74HC573		• US74HC74	Harris Hitachi Motorola National SGS-Thomson	CD74HC74 HD74HC74 MC74HC74 MM74HC74	
• US74HC4050	Signetics TI Toshiba	M74HC4049 74HC4049 SN74HC4049 TC74HC4049A	(3674)	• US74HC4538	Harris Motorola National SGS-Thomson	CD74HC4538 MC74HC4538 MM74HC4538		• US74HC574	Harris Hitachi Motorola National SGS-Thomson	CD74HC574 HD74HC574 MC74HC574 MM74HC574		• US74HC75	Harris Hitachi Motorola National SGS-Thomson	CD74HC75 HD74HC75 MC74HC75 MM74HC75	
• US74HC4051	Harris Motorola National SGS-Thomson	CD74HC4050 MC74HC4050 MM74HC4050		• US74HC4543	Harris IDT LogicDev National SGS-Thomson	CD74HC4543 IDT71782 L7C172 MM74HC4543		• US74HC58	Motorola National	MC74HC573 74HC573 SN74HC573 TC74HC573A	(3674)	• US74HC76	Signetics TI Toshiba Harris Hitachi Motorola National SGS-Thomson	M74HC73 74HC73 SN74HC73 TC74HC73A CD74HC74 HD74HC74 MC74HC74 MM74HC74	
• US74HC4052	Signetics TI Toshiba	M74HC4050 74HC4050 SN74HC4050 TC74HC4050A	(3674)	• US74HC4543	Harris IDT LogicDev National SGS-Thomson	CD74HC4543 IDT71782 L7C172 MM74HC4543		• US74HC58	Motorola National	MC74HC574 HD74HC574 MC74HC574 MM74HC574		• US74HC77	Signetics TI Toshiba Harris Hitachi Motorola National SGS-Thomson	M74HC74 74HC74 SN74HC74 TC74HC74A CD74HC75 HD74HC75 MC74HC75 MM74HC75	
• US74HC4053	Harris Motorola National SGS-Thomson	CD74HC4051 MC74HC4051 MM74HC4051		• US74HC4543	Harris IDT LogicDev National SGS-Thomson	CD74HC4543 IDT71782 L7C172 MM74HC4543		• US74HC59	Motorola National	MC74HC574 HD74HC574 MC74HC574 MM74HC574		• US74HC78	Signetics TI Toshiba Harris Hitachi Motorola National SGS-Thomson	M74HC75 74HC75 SN74HC75 TC74HC75A CD74HC76 HD74HC76 MC74HC76 MM74HC76	
• US74HC4054	Signetics TI Toshiba	M74HC4051 74HC4051 SN74HC4051 TC74HC4051A	(3674)	• US74HC4543	Harris IDT LogicDev National SGS-Thomson	CD74HC4543 IDT71782 L7C172 MM74HC4543		• US74HC59	Motorola National	MC74HC574 HD74HC574 MC74HC574 MM74HC574		• US74HC79	Signetics TI Toshiba Harris Hitachi Motorola National SGS-Thomson	M74HC76 74HC76 SN74HC76 TC74HC76A CD74HC77 HD74HC77 MC74HC77 MM74HC77	
• US74HC4055	Harris Motorola National SGS-Thomson	CD74HC4052 MC74HC4052 MM74HC4052		• US74HC4543	Harris IDT LogicDev National SGS-Thomson	CD74HC4543 IDT71782 L7C172 MM74HC4543		• US74HC59	Motorola National	MC74HC574 HD74HC574 MC74HC574 MM74HC574		• US74HC80	Signetics TI Toshiba Harris Hitachi Motorola National SGS-Thomson	M74HC77 74HC77 SN74HC77 TC74HC77A CD74HC78 HD74HC78 MC74HC78 MM74HC78	
• US74HC4056	Signetics TI Toshiba	M74HC4052 74HC4052 SN74HC4052 TC74HC4052A	(3674)	• US74HC4543	Harris IDT LogicDev National SGS-Thomson	CD74HC4543 IDT71782 L7C172 MM74HC4543		• US74HC59	Motorola National	MC74HC574 HD74HC574 MC74HC574 MM74HC574		• US74HC81	Signetics TI Toshiba Harris Hitachi Motorola National SGS-Thomson	M74HC78 74HC78 SN74HC78 TC74HC78A CD74HC79 HD74HC79 MC74HC79 MM74HC79	
• US74HC4057	Harris Motorola National SGS-Thomson	CD74HC4053 MC74HC4053 MM74HC4053		• US74HC4543	Harris IDT LogicDev National SGS-Thomson	CD74HC4543 IDT71782 L7C172 MM74HC4543		• US74HC59	Motorola National	MC74HC574 HD74HC574 MC74HC574 MM74HC574		• US74HC82	Signetics TI Toshiba Harris Hitachi Motorola National SGS-Thomson	M74HC79 74HC79 SN74HC79 TC74HC79A CD74HC80 HD74HC80 MC74HC80 MM74HC80	
• US74HC4058	Signetics TI Toshiba	M74HC4053 74HC4053 SN74HC4053 TC74HC4053A	(3674)	• US74HC4543	Harris IDT LogicDev National SGS-Thomson	CD74HC4543 IDT71782 L7C172 MM74HC4543		• US74HC59	Motorola National	MC74HC574 HD74HC574 MC74HC574 MM74HC574		• US74HC83	Signetics TI Toshiba Harris Hitachi Motorola National SGS-Thomson	M74HC80 74HC80 SN74HC80 TC74HC80A CD74HC81 HD74HC81 MC74HC81 MM74HC81	
• US74HC4059	Harris Motorola National SGS-Thomson	CD74HC4054 MC74HC4054 MM74HC4054		• US74HC4543	Harris IDT LogicDev National SGS-Thomson	CD74HC4543 IDT71782 L7C172 MM74HC4543		• US74HC59	Motorola National	MC74HC574 HD74HC574 MC74HC574 MM74HC574		• US74HC84	Signetics TI Toshiba Harris Hitachi Motorola National SGS-Thomson	M74HC81 74HC81 SN74HC81 TC74HC81A CD74HC82 HD74HC82 MC74HC82 MM74HC82	
• US74HC4060	Harris Motorola National SGS-Thomson	CD74HC4060 MC74HC4060 MM74HC4060		• US74HC4543	Harris IDT LogicDev National SGS-Thomson	CD74HC4543 IDT71782 L7C172 MM74HC4543		• US74HC59	Motorola National	MC74HC574 HD74HC574 MC74HC574 MM74HC574		• US74HC85	Signetics TI Toshiba Harris Hitachi Motorola National SGS-Thomson	M74HC82 74HC82 SN74HC82 TC74HC82A CD74HC83 HD74HC83 MC74HC83 MM74HC83	

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

U.S. AIR FORCE AIRCRAFT

◆ Discontinued The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
Vitellic (Cont'd)				Vitesse Semiconductor				VLSI Technology				VL82C50			
V63C64	Krueger	(Cont'd)		VS12G422E	Fujitsu	MBM100422A		CT2078	Motorola	MCM6271		VL82C50	National	INS82C50A	(Cont'd)
		6264LP-100	(3513)		Hitachi	HM100422		CT64KS4	SGS-Thomson	MTK4170				NS16C450	
		6264LP-120	(3513)		National	DM100422				VT2079			Newbridge	CA82C50A	(3569)
		6264LP-150	(3513)			F100422C				100181			Samsung	KS82C50	
MicroLinear	ML8464					F100422C				V61C62			SiliconSys	SSI73M450	(3647)
Mitsubishi	AM99C88					NMC5295				V61C62			UMC	UM8250A	(3690)
Motorola	M5M5178					100422A				V61C62			VLSI Tech	VL16C450	(3702)
	MCM6064					100422B				V61C62				WD82C50A	
	MCM61164					AM93422AC				V61C62				WD82C50A	
	MCM6164C					AM93422AC				V61C62				WD82C50A	
National	DP8464					CY93422AC				V61C62				WD82C50A	
OKI	MSM5164					CY93422C				V61C62				WD82C50A	
	MSM5165					93422C				V61C62				WD82C50A	
	MSM5188					P4C422				V61C62				WD82C50A	
S-MOS	SRM2064					P4C422-10C				V61C62				WD82C50A	
	SRM2264					P4C422-8C				V61C62				WD82C50A	
Samsung	KM6264					AM93422AM				V61C62				WD82C50A	
	KM6264A					AM93422M				V61C62				WD82C50A	
Sharp	LH5164					CY93422M				V61C62				WD82C50A	
	LH5165					ICL8212				V61C62				WD82C50A	
Sony	CXK5164P					MAX8212				V61C62				WD82C50A	
	CXK5863P					93422M				V61C62				WD82C50A	
	CXK5864					93422M				V61C62				WD82C50A	
	CXK5865					P4C422-15				V61C62				WD82C50A	
	CXK5865P									V61C62				WD82C50A	
Toshiba	TC5563									V61C62				WD82C50A	
	TC5565A	(3682)								V61C62				WD82C50A	
UMC	UM6264A									V61C62				WD82C50A	
Vitellic	V61C62									V61C62				WD82C50A	
	V62C64									V61C62				WD82C50A	
VLSI Tech	VT20C99									V61C62				WD82C50A	
Cypress	CY7C182									V61C62				WD82C50A	
	CY7C185									V61C62				WD82C50A	
	CY7C186									V61C62				WD82C50A	
EDI	ED18808									V61C62				WD82C50A	
Fujitsu	MB82B79									V61C62				WD82C50A	
Harris	HM65642									V61C62				WD82C50A	
IDT	DPS9264									V61C62				WD82C50A	
	IDT7164									V61C62				WD82C50A	
	IDT7164S									V61C62				WD82C50A	
MicronTech	MT5C6408									V61C62				WD82C50A	
Mitsubishi	M5M5179									V61C62				WD82C50A	
Mosel	MS6264									V61C62				WD82C50A	
Motorola	MCM6264									V61C62				WD82C50A	
	MCM6265									V61C62				WD82C50A	
National	NMC6164									V61C62				WD82C50A	
NEC	μPD4364									V61C62				WD82C50A	
Performance	P4C164									V61C62				WD82C50A	
SGS-Thomson	IMS1630									V61C62				WD82C50A	
	CXK55863									V61C62				WD82C50A	
Sony	TMM2088P									V61C62				WD82C50A	
Toshiba	UM6164									V61C62				WD82C50A	
UMC	VT20C98									V61C62				WD82C50A	
VLSI Tech	DPS88H08									V61C62				WD82C50A	
Dense-Pac	XR8464									V61C62				WD82C50A	
Exar	MB88464									V61C62				WD82C50A	
Fujitsu	MB81C78A									V61C62				WD82C50A	
	MB8464A									V61C62				WD82C50A	
	GM76C88L									V61C62				WD82C50A	
	CDM6264									V61C62				WD82C50A	
	HM6264									V61C62				WD82C50A	
	HM6464									V61C62				WD82C50A	
	MB6264									V61C62				WD82C50A	
	HY6264									V61C62				WD82C50A	
	DPS9264									V61C62				WD82C50A	
	6264-100	(3513)								V61C62				WD82C50A	
	6264-120	(3513)								V61C62				WD82C50A	
	6264-150	(3513)								V61C62				WD82C50A	
	6264LP-100	(3513)								V61C62				WD82C50A	
	6264LP-120	(3513)								V61C62				WD82C50A	
	6264LP-150	(3513)								V61C62				WD82C50A	
MicroLinear	ML8464									V61C62				WD82C50A	
Mitsubishi	AM99C88									V61C62				WD82C50A	
	M5M5178									V61C62				WD82C50A	
Motorola	MCM6064									V61C62				WD82C50A	
	MCM61164									V61C62				WD82C50A	
	MCM6164C									V61C62				WD82C50A	
National	DP8464									V61C62				WD82C50A	
OKI	MSM5164									V61C62				WD82C50A	
	MSM5165									V61C62				WD82C50A	
	MSM5188									V61C62				WD82C50A	
S-MOS	SRM2064									V61C62				WD82C50A	
	SRM2264									V61C62				WD82C50A	
(Continued)				(Continued)				(Continued)				(Continued)			

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Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
VLSI Technology (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
VT16H4				VT20C79	MicronTech	MT5C1605		VT2069	Motorola	MCM6168		VT23256	Signetics	23256	
	Performance	P4C1981			SGS-Thomson				NEC	μPD4314				23256A	
	Saratoga	SSM7161		VT20C98	Cypress	CY7C182			Ricoh	PS6168		VT23257	Toshiba	TC53257	
VT20C18	Cypress	CY7C128A				CY7C185			SGS-Thomson				VLSI Tech	VT23257	
	GoldStar	GM76C28			EDI	ED1808				IMS1423		VT23257	Catalyst		
	LogicDev	L6116			Fujitsu	MB82B79			Sony	CKX5416P/K			Semi	CAT71C256	
	MicronTech	MT5C1608			Harris	HM65642		VT2079	Toshiba	TMM2068AP			Gould AMI	S23256	
	Sony	CKX5814			IDT	DPS9264			Motorola	MCM6271			NCR	NCR23256	
	Vitellic	V61C16				IDT71164			SGS-Thomson					NCR23257	
VT20C19	AD	ADG506A (3237)				IDT7164S				MK4170			OKI	MSM38256	
	Cypress	CY6116			MicronTech	MT5C6408		VT2130	VLSI Tech	CT2078			Panasonic	MN23256	
	EDI	ED1802			Mitsubishi	M5M5179			IDT	IDT7130				MN23257	
	Harris	DG506A			Mosel	MS6264		• VT23C1024	Mosel	MS6130			S-MOS	SMM23256	
		HM6516			Motorola	MCM6264			Fujitsu	MB831000				SMM6325	
		HM65162				MCM6265		• VT23C1024		MB831124			Signetics	SMM6326	
	Hitachi	HM6716			National	NMC6164			Hitachi	HM62301				23256A	
		HM6719			NEC	μPD4364			NCR	NCR23C1000			Toshiba	TC53257	
	IDT	IDT6116			Performance	P4C164		VT23128	Toshiba	TC571000		VT2332	VLSI Tech	VT23256	
		IDT6116A			SGS-Thomson				AMD	AM9128			Commodore	MP52332	
		IDT6116L				IMS1630			Gould AMI	S23128			Fujitsu	P51C69	
		IDT6116S			Sony	CKX55863			Microchip	RO9128			Hitachi	P51C69	
	Intel	81C28			Toshiba	TMM2088P			NCR	NCR23128			Intel	UM2168	
	LogicDev	L76116			UMC	UM6164			Signetics	23128				51C69	
	Maxim	DG506A			Vitellic	V63C64P			UMC	UM23128			Microchip	RO9432	
	MicronTech	MT51C1608		VT20C99	Dense-Pac	DPS88H08		VT23129	VLSI Tech	VT23129			Mitsubishi	M58333	
	Motorola	MCM2018A			Exar	XR8464				VT23129A			National	F5332	
		MCM6116			Fujitsu	MB88464				VT23130				NM52132	
		Performance				MB81C78A				VT23138			NCR	NCR2332	
	Saratoga	SSM6116				MB8464A		VT23129	AMD	AM9128			Panasonic	MN2332	
	Sony	CKX5814P				GM76C88L			Gould AMI	S23128			Sharp	LH2332	
	Toshiba	TC2018			GoldStar	GM76C88L			Microchip	RO9128			Siemens	SAB8332	
	UMC	UM6116-35 (3688)			Harris	CDM6264			NCR	NCR23128				SAB8332	
	Vitellic	V16C16			Hitachi	HM6264			Signetics	23128			Signetics	2332	
VT20C50	AMD	AM9150				HM6464			UMC	UM23128				2632A	
	Cypress	CY7C150				MB6264			VLSI Tech	VT23128			TI	D51C69	
	Hitachi	HM6148			Hyundai	HY6264				VT23129A		VT23512	NCR	NCR23C512	
	Performance	P4C150			IDT	DPS9264				VT23130			Samsung	KM23C512	
	Saratoga	SSM2150			Krueger	6264-100 (3513)		VT23129A	AMD	AM9128				LH53513	
	UMC	UM2148				6264-120 (3513)			Gould AMI	S23128			Sharp	TC53512P	
VT20C68	Cypress	CY7C168A				6264-150 (3513)			Microchip	RO9128			Toshiba	UM23C512 (3688)	
	Hitachi	HM6268				6264LP-100 (3513)			NCR	NCR23128		VT2364	NCR	NCR2364	
	IDT	IDT6168				6264LP-120 (3513)			Signetics	23128			OKI	MSM3864	
		IDT6168SA				6264LP-150 (3513)			UMC	UM23128			Plessey	SL2364C	
	Mitsubishi	M5M2168							VLSI Tech	VT23128			S-MOS	SMM2364	
	Motorola	MCM6268			MicroLinear	ML8464				VT23129			Sharp	LH2364A	
	NEC	μPD4314C			Mitsubishi	AM99C88		VT23130	AMD	AM9128			Signetics	2364	
	Performance	P4C168				AM55178			Gould AMI	S23128		VT2365	TI	MS2364	
	SGS-Thomson					MCM6064			Microchip	RO9128			Weitek	SC8164	
		MK41H68			Motorola	MCM61L64			NCR	NCR23128		VT2366	NCR	NCR2365	
	Sony	CKX5416				MCM6164C			Signetics	23128			S-MOS	SMM2365	
		CKX5416D			National	DP8464			UMC	UM23128		• VT27C1024	Krueger	NMC2564	
	UMC	UM6128-35			OKI	MSM5164			VLSI Tech	VT23128			National	AM27C1024	
	Vitellic	V61C68				MSM5165				VT23129			ATMEL	AT27C1024	
	VLSI Tech	VL20C68				MSM5188				VT23129A				AT27HC1024	
VT20C69	Cypress	CY7C168A			S-MOS	SRM2064				VT23129A		• VT27C1024	Catalyst	CAT27C210	
	Hitachi	HM6268				SRM2264				VT23138			Semi	DPV27C1024A	
	IDT	IDT6168			Samsung	KM6264		• VT23131	AMD	AM9128			Dense-Pac	MBM27C1024	
		IDT6168SA				KM6264A			Gould AMI	S23128			Fujitsu	HN27C1024	
	Mitsubishi	M5M2168				LH5165			Microchip	RO9128			Hitachi	HN27C1024G	
	Motorola	MCM6268				LH5165			NCR	NCR23128		• VT27C1024	Krueger	27C210	
	NEC	μPD4314C			Sony	CKX5164P			Signetics	23128			Microchip	μPD27C1024	
	Performance	P4C168				CKX5863P			UMC	UM23128			National	NMC27C1024	
	SGS-Thomson					CKX5864			VLSI Tech	VT23128		• VT27C1024	NEC	μPD27C1024A	
		MK41H68				CKX5865				VT23129A			OKI	MSM27C1024	
	Sony	CKX5416				CKX5865P				VT23130			SGS-Thomson		
		CKX5416D				TC5563				VT23138				M27C1024	
	UMC	UM6128-35				TC5588		VT23138	AMD	AM9128				27C1024	
	Vitellic	V61C68				UM6264A			Gould AMI	S23128		• VT27C1024	Signetics	27C210	
	VLSI Tech	VL20C68				V61C62			Microchip	RO9128		VT27C128	Hitachi	HN27C128	
• VT20C71	Cypress	CY7C171A				V62C64			NCR	NCR23128			Krueger	27C128-200 (3513)	
	IDT	IDT71681				V63C64			Signetics	23128				27C128-250 (3513)	
	LogicDev	LC171			VT2068	M5M21C68			UMC	UM23128					
	MicronTech	MT5C1606			Motorola	MCM1423			VLSI Tech	VT23128			TI	TMS27C128	
	Performance	P4C1681				MCM61L64				VT23129				TMS27PC128	
VT20C72	Saratoga	SSM6171			NEC	μPD4134				VT23130			ATMEL	AT27HC256	
	Cypress	CY7C172A			S-MOS	SRM2268				VT23130A				AT27256	
	IDT	IDT71682			VLSI Tech	CT64K54		VT23256	Catalyst	CAT71C256			Semi	CAT27HC256	
	LogicDev	LC172			AMD	AM2168			Gould AMI	S23256			Hitachi	HN27C256	
	MicronTech	MT5C1607			Fujitsu	MB81C68A			NCR	NCR23256			Intel	27C256 (3501)	
VT20C78	Performance	P4C1682			Hitachi	HM6168HP				NCR23257			Krueger	27C256-200 (3513)	
	Saratoga	SSM6172				HM6268L				MSM38256				27C256-250 (3513)	
	LogicDev	L7C170			IDT	IDT6168A			OKI	MN23256				27C256-300 (3513)	
	Performance	P4C170				IDT6168L			Panasonic	MN23257					
	Saratoga	SSM6170				IDT6168LA			S-MOS	SMM23256					
	SGS-Thomson					IDT6168S				SMM6325					
		MK41H78			Intel	51C68				SMM6326					
VT20C79	Cypress	CY7C170A			LogicDev	L7C168									
	IDT	IDT61970			Mitsubishi	M5M21C68P									

• Discontinued

The manufacturers report their devices can be used as direct replacements.
Performance details often differ, so compare the specifications considering your requirements.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
VLSI Technology (Cont'd)				(Cont'd)				(Cont'd)				(Cont'd)			
VT27C256	Microchip	RO9256 27C256	(Cont'd)	VT6288	IDT	DPS9264 IDT7188	(Cont'd)	VA003	Harris Maxim	HA5033 LH0033 MAX460 MAX460 MP0033 MP0033C MP2004 LH0033 LH4001 LM6121 LM6321 TP1359	(3713)	VA708	Maxim National Sipex-HSD TeledyneS VTC	MAX452 LM6161 SP2542 TP1321 VA707 AM686 AD790 AD9686 LM161 LM260 LM261 LM263 NE5105 NE527 SE5105 SE527	(3239)
VT27C512	Mitsubishi OKI Ricoh SEEQ TI	M5M27C256 MSM27C256 RD27C256 27C256 TMS27C256		VT64KD1	Mitsubishi Motorola NEC Performance Saratoga SGS-Thomson	M5M5188 MCM6188 MCM6288 μPD4362 P4C188 SSM7188 IMS1620 TC55416 HM6287		VA003	MicroPwr	MP0033C HOS100 OPA633 EHOS100 ELH0033 ELH2004 ELH2005 EL2001 EL2004 EL2005 EL2031 EL2033		VA7696	AMD AD	AM686 AD790 AD9686 LM161 LM260 LM261 LM263 NE5105 NE527 SE5105 SE527	(3239)
VT27C64	Toshiba	TC54256 TC57256		VT64KS4	AMD Cypress Fujitsu Gould AMI	PL20L8 PLDC20G10 MB81C88 PEEL20C610	(3442)	VA003	National	LH4001 LM6121 LM6321 TP1359		VC9687	AMD AD	AD9687 BT687 HCMP9687 HCMP96870 SP9687 CS101A CD4066B LM4250 SS132H101A	(3239, 3260)
VT28H64	Waferscale	WS27C512		VT65KS4	Hitachi ICT Lattice LogicDev Mitsubishi National	HM7688HP PEEL20C610 GAL20V8A L7C164 F100165 PAL20L8 μPD4362C MSM5188A CPL20L8 CPL20L8-35 LH5262 CXK5464AP TIBPAL20L8 TIBPAL20L8-20		VA706	MicroPwr	MP0033 MP0033C MP2004 LH0033 LH4001 LM6121 LM6321 TP1359		VM101	Brooktree Honeywell Plessey Cherry Semi Harris National SiliconSys	AD9687 BT687 HCMP9687 HCMP96870 SP9687 CS101A CD4066B LM4250 SS132H101A	(3646)
VT62A168	Fujitsu Hitachi IDT Krueger	MBM27C512 HN27C512G IDT7M856S IDT8M824 27C512-200 27C512-250 27C512-250	(3513)	VT7132	Cypress	CY7B166 CY7C166 MB82B75 HM6789P IDT LogicDev		VA707	National	LH0033 LH4001 LM6121 LM6321 OP160 HFA0005 OPA620 3554AM 3554BM 3554SM	(3241, 3243)	VM116	Solitron Cherry Semi SiliconSys	UC4250 CS116 SS132H116 ELH0002 XR117 HA5002 ML117 CS201A	(3645)
VT62808	Toshiba	TC54512		VT7142	Fujitsu Hitachi IDT	MB82B75 HM6789P IDT		VA708	AD	AD841 AD842 OP44 EL2041 HA2522 HA5160 HA5162 μA715 CA705 AD844	(3241, 3243)	VM201	Harris National SiliconSys	CS101A CD4066B LM4250 SS132H101A	(3645)
VT62832	Microchip	27C64		VT7150	Motorola	MCM6290		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	National	NMC27C64		VT7152	National	54LS152		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Ricoh	TMS27C512		VT7154	NEC	μPD4363		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	SGS-Thomson	M27C512		VT7154	Performance	P4C190		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	TI	TMS27C512		VT7154	S-MOS	SRM2275		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Toshiba	TC54512		VT7154	Saratoga	SSM7166		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Waferscale	WS27C64L		VT7154	SGS-Thomson	IMS1624 T54LS152 CXK5465P TC55417 V61C62 CY7C132 IDT7132 V61C35 CY7C142 IDT7142 SN74ACT2150A SSL2152 74ACT2152 SSL2154 74ACT2154 FDC9229		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	ATMEL	AT27C64		VT7154	Sony	TC55417		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Ricoh	RD27C64		VT7154	Toshiba	TC55417		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Cypress	CY7C144		VT7154	Vitellic	V61C62		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	MicronTech	MT56C0816		VT7154	Cypress	CY7C132		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Performance	P4C163		VT7154	IDT	IDT7132		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Sony	CXK7701		VT7154	Vitellic	V61C35		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Toshiba	TC55188	(3682)	VT7154	Cypress	CY7C142		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	UMC	UM61168		VT7154	IDT	IDT7132		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Vitellic	V63C328		VT7154	Vitellic	V61C35		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Cypress	CY7C194		VT7154	Cypress	CY7C142		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	EDI	ED18465C		VT7154	IDT	IDT7132		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Fujitsu	MB8184		VT7154	Vitellic	V61C35		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Hitachi	MB82B84		VT7154	Cypress	CY7C142		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Hitachi	HM6208		VT7154	IDT	IDT7132		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Hitachi	HM6708		VT7154	Vitellic	V61C35		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	IDT	IDT71258		VT7154	Cypress	CY7C142		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	MicronTech	MT5C2564		VT7154	IDT	IDT7132		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Mitsubishi	M5M5258		VT7154	Vitellic	V61C35		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Motorola	MCM6208		VT7154	Cypress	CY7C142		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	NEC	μPD43254		VT7154	IDT	IDT7132		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	SGS-Thomson	IMS1820		VT7154	Vitellic	V61C35		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Sony	CXK54256		VT7154	Cypress	CY7C142		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	TI	TMS6708		VT7154	IDT	IDT7132		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Toshiba	TC55464		VT7154	Vitellic	V61C35		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Cypress	CY7C198 CY7C199		VT7154	Cypress	CY7C142		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Dense-Pac	DPS92256 DPS92256L		VT7154	IDT	IDT7132		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	EDI	ED18833C		VT7154	Vitellic	V61C35		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Fujitsu	MB8298		VT7154	Cypress	CY7C142		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Hitachi	HM62832		VT7154	IDT	IDT7132		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	IDT	IDT71256		VT7154	Vitellic	V61C35		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Lattice	SR256K8		VT7154	Cypress	CY7C142		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	Motorola	MCM6206		VT7154	IDT	IDT7132		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	NEC	μPD43256A		VT7154	Vitellic	V61C35		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)
VT6288	SGS-Thomson	IMS1830 MK48Z30 CXK58255 TC55328 CY7B164 MB81C74 MB82B74 HM6288 HM6788		VT7154	Cypress	CY7C142		VA708	AD	AD846	(3240, 3243)	VM217	SGS-Thomson	LM217	(3642)

• Discontinued

Bold face device numbers indicate manufacturers data is provided in the IC Master on the Pages noted.

Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page	Manufacturer Device	Replacement Source	Device	IC Master Page
VTC (Cont'd)				WS27C210L (Cont'd)				WS57C256F (Cont'd)				WS57C49B (Cont'd)			
V54FCT862A	IDT	IDT54FCT862A		OKI	MSM271000			Microchip	27256			Fujitsu	MBM7144		
V54FCT863A	IDT	IDT54FCT863A		TI	MSM271024			National	NMC27C256				MB7144E		
V54FCT864A	IDT	IDT54FCT828A			TMS27C210			SEEQ	27256			ICT	27CX641		
	VTC	V54FCT828A	(3712)		TMX27PC010			SGS-Thomson				Microchip	27HC641		
V74FCT240	IDT	IDT74FCT240		Toshiba	TC571024				M27C256B			National	322565		
	Performance	P74PCT240		AMD	AM27C256			Signetics	27C256				932665		
V74FCT244	IDT	IDT74FCT244		ATMEL	AT27C256			TI	SMJ27C256				932665C		
	Performance	P74PCT244		Intel	M27C256			Waferscale	WS27C256				932667		
V74FCT245	IDT	IDT74FCT245		Microchip	27256				WS57C256				932667C		
	Performance	P74PCT244		National	NMC27C256				WS57C256				μPD27HC65		
V74FCT273	IDT	IDT74FCT273		SEEQ	27256				MB3603			NEC	LH5749		
	Performance	P74PCT273		SGS-Thomson					μA741			Sharp	LH5749J		
V74FCT373	IDT	IDT74FCT373			M27C256B				AM27S191				N82HS641		
	Performance	P74PCT373		Signetics	27C256				AM27S191A			Signetics	27HC641		
V74FCT374	IDT	IDT74FCT374		TI	SMJ27C256				AM27S191SA				27HC642		
	Performance	P74PCT374		Waferscale	WS57C256				27S191				82HS641		
V74FCT521	IDT	IDT74FCT521		ATMEL	AT27HC256				AT28HC191				SS1203		
	Performance	P74PCT521			AT27256				AT28HC191L			SiliconSys	TMS278C49		
V74FCT533	IDT	IDT74FCT533							CY7C291			TI	WS57C49		
	Performance	P74PCT533		Catalyst	CAT27HC256				CY7C292			Waferscale	CY7C251		
V74FCT534	IDT	IDT74FCT534		Semi	HN27C256				CY7C292A			Cypress	WS57C128F		
	Performance	P74PCT534		Hitachi	27C256	(3501)			CY7C292AL			Waferscale	WS57C51B		
V74FCT573	IDT	IDT74FCT573		Intel	27C256-200	(3513)			HN25169				CY7C251		
V74FCT574	IDT	IDT74FCT574		Krueger	27C256-250	(3513)			MCM76101			WS57C51B	WS57C128F		
V74FCT640	IDT	IDT74FCT640			27C256-300	(3513)			MCM76160				WS57C51		
	Performance	P74PCT640			27C256-300	(3513)			DM77S191			WS57C64F	ATMEL	AT27C641	
V74FCT645	IDT	IDT74FCT645							DM87S191				Cypress	AT27HC64	
	Performance	P74PCT645							DM87S291				Fujitsu	CY7C266	
V74FCT821A	IDT	IDT74FCT821A		Microchip	RO9256				DM87S291A					MBM27C64	
V74FCT822A	IDT	IDT74FCT822A			27C256				DM87S291B				Microchip	NM27C64	
V74FCT823A	IDT	IDT74FCT823A			27C256				932510				National	KA2153	
V74FCT824A	IDT	IDT74FCT824A		Mitsubishi	M5M27C256				932511				Sharp	LH5762J	
V74FCT825A	IDT	IDT74FCT825A		OKI	MSM27C256				932512				LH5763		
V74FCT826A	IDT	IDT74FCT826A		Ricoh	RD27C256				932511				LH5764J		
V74FCT827A	IDT	IDT74FCT827A		SEEQ	27C256				N82S191				TMS27C49		
V74FCT828A	IDT	IDT74FCT828A		TI	TMS27C256				N82S191A				TA7644BP		
V74FCT841A	IDT	IDT74FCT841A			TMS27PC256				82S191				WS57C49B		
V74FCT842A	IDT	IDT74FCT842A		Toshiba	TC54256				TBP38L166				CY2901C		
V74FCT843A	IDT	IDT74FCT843A			TC57256				TMS27C291				SGS-Thomson	TDA1220	
V74FCT844A	IDT	IDT74FCT844A		VLSI Tech	VT27C256				TMS27C292					KA2272	
V74FCT845A	IDT	IDT74FCT845A		AMD	AM27C512				WS57C191				Samsung	LA2110	
V74FCT846A	IDT	IDT74FCT846A		ATMEL	AT27C512				AM27S43				Sanyo	AM2910A	
V74FCT861A	IDT	IDT74FCT861A		Intel	MD27C512				AM27S43A				AMD	CY7C910	
V74FCT862A	IDT	IDT74FCT862A		Microchip	27C512				27S43				Cypress	IDT39C10	
V74FCT863A	IDT	IDT74FCT863A		TI	SMJ27C512				MB7142				Waferscale	WS5910B	(3717)
V74FCT864A	IDT	IDT74FCT864A			AT27HC64				27CX321				AD	ADSP1010	
				Intel	M27C64				HL76321				AD	ADSP1010A	(3255)
				Krueger	27C64-200	(3513)			DM77S321				Cypress	CY7C510	
					27C64-250	(3513)			R29671D				HMA510	IM29C510	
					27C64-300	(3513)			29671				IM29C510	WTL1010	
									29671A				WTL2010	WTL2245	
									N82H321				WTL2245	ISP9520	
									AM27S45				ISP9521	IDT29FCT520A	
									AM27S45A				IDT	L29C520	
									AM27S47				IDT	IDT29FCT521A	
									CY7C245				LogicDev	L29C521	
									MB7238				AD	ADSP1010	
									MB7238				AD	ADSP1010A	(3255)
									AM27S49				Cypress	CY7C510	
									27S49				HMA510	IM29C510	
									AT27HC641				IM29C510	TMC2210	
									AT27HC642				WTL1010	WS59610	
									CY7C261				WTL2010	WTL2245	
									CY7C263				WTL2245	ISP9520	
									CY7C264				ISP9521	IDT29FCT520A	
									CY7C264				IDT	L29C520	
									MBM7144				LogicDev	IDT29FCT521A	
									MB7144E				AD	ADSP1010	
									MB7144E				AD	ADSP1010A	(3255)
									27CX641				Cypress	CY7C510	
									27HC641				HMA510	IM29C510	
									322565				IM29C510	TMC2210	
									932665C				WTL1010	WS59610	
									932667				WTL2010	WTL2245	
									932667C				WTL2245	ISP9520	
									μPD27HC65				ISP9521	IDT29FCT520A	
									LH5749				IDT	L29C520	
									LH5749J				LogicDev	IDT29FCT521A	
									N82HS641				AD	ADSP1010	
									27HC641				AD	ADSP1010A	(3255)
									82HS641				Cypress	CY7C510	
									SS1203				HMA510	IM29C510	
									TMS278C49				IM29C510	TMC2210	
									WS57C49B				WTL1010	WS59610	
									AM27S49				WTL2010	WTL2245	
									27S49				WTL2245	ISP9520	
									AT27HC641				ISP9521	IDT29FCT520A	
									AT27HC642				IDT	L29C520	
									CY7C263				LogicDev	IDT29FCT521A	
									CY7C264				AD	ADSP1010	
									CY7C264				AD	ADSP1010A	(3255)
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									MB7144E				HMA510	IM29C510	
									27CX641				IM29C510	TMC2210	
									27HC641				WTL1010	WS59610	
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									AT27HC641				LogicDev	IDT29FCT521A	
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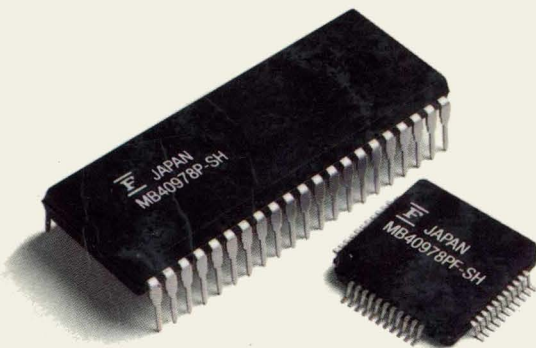
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