Small Business Computer Specifications Addendum

The following pages provide information on 77 additional small business computer systems from 24 different vendors. Listed below, for your convenience in obtaining additional information, are the full names, addresses, and telephone numbers of the 24 additional suppliers whose products are listed in the comparison charts that follow.

AM Jacquard Systems, Executive Branch, 3340 Ocean Park Blvd., Santa Monica, California 90405. Telephone (213) 450-1242.

Applied Systems Corporation, 26401 Harper Avenue, St. Clair Shores, Michigan 48081. Telephone (313) 779-8700.

Canon U.S.A., Inc., One Canon Plaza, Lake Success, New York 11042. Telephone (516) 488-6700.

Computer Automation, Inc., Computer Systems Division, 2181 Dupont Avenue, Irvine, California 92713. Telephone (714) 833-8830.

Durango Systems, Inc., 3003 N. First Street, San Jose, California 95134. Telephone (408) 946-5000.

Evolution Computer Systems Corporation, 17911 Sky Park Circle, Suite E, Irvine, CA 92714. Telephone (714) 979-6663.

General Robotics Corporation, 55-57 North Main Street, Hartford, Wisconsin 53027. Telephone (414) 673-6800.

Infomark, Inc., 9 North Bacton Hill Road, Frayer, Pennsylvania 19355. Telephone (215) 647-8685.

Keydata Corporation, 20 William Street, Wellesley, Massachusetts 02181. Telephone (617) 237-6930.

Lazor Systems, Inc., 1050 E. Duane Avenue, Sunnyvale, California 94086. Telephone (408) 735-1188.

MicroFive Corporation, 17791 Sky Park Circle, Irvine, California 92714. Telephone (714) 957-1517.

Mini-Computer Systems, Inc., 399 Fairview Park Drive, Elmsford, New York 10523. Telephone (914) 592-8812.

Mitsubishi Electronics America, Inc., 2200 West Artesia Boulevard, Compton, California 90220. Telephone (213) 979-6055.

NEC Information Systems, Inc., 5 Militia Drive, Lexington, Massachusetts 02173. Telephone (617) 862-3120.

NorthStar Computers, Inc., 1440 Fourth Street, Berkeley, California 94710. Telephone (415) 524-9202.

Omnidata, 5717 Corsa Avenue, Westlake Village, California 91361. Telephone (213) 991-5810.

Onyx Systems, Inc., 73 East Trimble Road, San Jose, California 95131. Telephone (408) 946-6330.

Pertec Computer Corporation, 12910 Culver Boulevard, Los Angeles, California 90066. Telephone (213) 822-9222.

Prime Computer, Inc., Prime Park, Natick, Massachusetts 01760. Telephone (617) 655-8000.

Programmed Control Corporation, 2 East Broad Street, Hopewell, New Jersey 08525. Telephone (609) 466-2100.

Q1 Corporation, 125 Ricefield Lane, Hauppauge, New York 11787. Telephone (516) 543-7800.

Smoke Signals Broadcasting, 31336 Via Colinas, Westlake Village, California 91361. Telephone (213) 889-9340.

Terak Corporation, 14151 North 76th Street, Scottsdale, Arizona 85260. Telephone (602) 998-4800.

Zilog, Inc., 10460 Bubb Road, Cupertino, California 95014. Telephone (408) 446-4666.□

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MANUFACTURER AND MODEL	AM Jacquard J-100	AM Jacquard J-500	Applied Systems Corp. ASC/80	Canon BX-3	Canon CX-1
WORD LENGTH, BITS	16	16	8, 16	8	8
CPU					
Model	IMP-16	Bit-slice	Z80, or 8085/8088	MC 6809	MC 6809
Add time, microseconds	8.0	3.96	1.0	—	—
No. of I/O ports on basic sys. and max.	2, 62	3	2, 32	5	5
INTERNAL STORAGE					
Type	MOS	MOS	MOS RAM & ROM	MOS	MOS
Capacity of basic system, bytes	96K	128K	8K/128K	64K	64K
Maximum capacity, bytes	128K	128K	128K	128K	128K
Increment size, bytes	32K	—	4K/16K	32K	32K
Cycle/access time, microseconds	1.5/1.4	.5/.66	.5	.35	.35
MASS STORAGE					
Floppy disk (diskette) drive	Std.; 2 x 256K bytes	Std.; 2 x 512K bytes	Opt.; .2 to 2M bytes	Std.; 640K bytes	Std.; 640K bytes
Maximum diskette storage	2 x 256K bytes	2 x 512K bytes	6M bytes	2.64M bytes	2.64M bytes
Cartridge disk drive	Opt.; 4 x 48M bytes	Opt.; 2 x 24M bytes	Optional	—	—
Pack disk drive	Opt.; 4 x 80M bytes	No	Optional	—	—
Fixed-head disk/drum	No	No	Opt.; 10-100M bytes	—	—
Maximum disk storage	320M bytes	48M bytes	—	—	—
WORKSTATIONS					
Maximum number connectable	14	1	8/16	—	—
Recommended maximum number	Depends on function	1	8	—	—
Keyboard style	Typewriter	Typewriter	ASCII or BCD	Type., num. key.	Type., num. key.
Workstation printer	Line or daisy wheel printer	Line or daisy wheel printer	Optional	—	—
INPUT/OUTPUT DEVICES					
Serial printer	Opt.; (16) 45-55 cps	Opt.; (2) 45-55 cps	Opt.; 30-180 cps	Std.; 80 cps	Optional
Line printer	Opt.;150 cps-300 lpm	Opt.;150 cps-300 lpm	Opt.; to 900 lpm	Optional	Optional
Reel-to-reel tape drive	Opt.; (10) 40 KBS	No	Opt.; to 19.2K bps	—	—
Cassette/cartridge tape drive	No/No	No/No	Optional	—	—
CRT	Std.; 1920 char.	Std.; 2000 char.	Std.; 40 or 80 col.	Opt.; 1920 char.	Std.; 1920 char.
Other	Phototypesetter, OCR reader	Phototypesetter, OCR reader	—	1-line alphanumeric display	—
COMMUNICATIONS					
Maximum no. of lines	19	2	32	3	3
Synchronous	Opt.; to 4800 bps	Opt.; to 9600 bps	Opt.; to 50K bps	—	—
Asynchronous	Opt.; to 9600 bps	Opt.; to 9600 bps	Opt.; to 9600 bps	Opt.; 9600 bps	Opt.; 9600 bps
Protocols supported	See Comments	2780/3780,3270,TTY	ASCII/Bisync	—	—
Network architecture supported	No	No	Optional	—	—
RJE terminals emulated	2780/3780, Univac	2780/3780, Univac	Optional	—	—
IBM 3270 emulation	Yes	Yes	Optional	—	—
SOFTWARE SUPPORT					
COBOL	No	No	Yes (optional)	No	No
RPG	No	No	Yes (optional)	No	No
FORTRAN	No	No	Yes (optional)	No	No
BASIC	Yes	Yes	Yes (optional)	Yes	Yes
Assembler	Yes	Yes	Yes (optional)	Yes	Yes
Other programming languages	Data-Rite, Report-Rite	Data-Rite, Report-Rite	PASCAL (optional)	—	—
Multiprogramming	Yes	Yes	Yes	—	—
Max. no. of jobs run concurrently	10	10	Varies	1	1
Language complemented in firmware	No	No	No	No	No
Op. sys. implemented in firmware	No	No	Partial	Yes	Yes
General accounting packages	Yes	Yes	Optional	Yes	Yes
Industry application areas	Dist., med., law	—	Business & commun.	Comm./bus.	Comm./bus.
Data base management system	Yes	Yes	Optional	—	—
File access methods supported	Seq., random	Seq., random	Optional	—	—
Software separately priced	Yes	Yes	Partial	No	No
Technical help separately priced	No	No	Optional	Yes	Yes
LEASE/MAINTENANCE OPTIONS					
Lease plans available	1-year	1-year	3-, 4-, 5-years	Contact vendor	Contact vendor
Maintenance plans available	Yes	Yes	Optional	Contact vendor	Contact vendor
PRICING & AVAILABILITY					
Purchase price of basic system, $	19,900	11,900	2,900+	5,600	5,000
Monthly rental of basic system, $	968	571	Contact vendor	Contact vendor	Contact vendor
Monthly maint. price of basic system, $	172	95	—	—	—
Monthly maint. bundled with rental, $	Yes	Yes	—	—	—
Purchase price of:					
additional memory module, $	2,100 (32K)	—	150 (8K)	400	400
additional workstations, $	2,900	NA	Contact vendor	—	—
additional printer, $	3,850	3,850	Contact vendor	1,500	1,500
Discounts available	GSA	GSA	Quantity	Dealer/OEM	Dealer/OEM
Date of first U.S. delivery	August 1975	May 1980	1979	April 1981	April 1981
Number installed to date	800	200	NA	NA	NA
COMMENTS	Optional 150 cps printer available; protocols supported include 2780/3780, 3270, TTY; word processing software; phototypesetter int.; electronic mail	See J-100 Comments	Modular computer design for business and remote communications applications		

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MANUFACTURER AND MODEL	Computer Automation SyFA System 50	Computer Automation SyFA System 300	Computer Automation SyFA System 1000	Computer Automation SyFA System 2000	Computer Automation SyFA System 2500
WORD LENGTH, BITS	16	16	16	16	16
CPU					
Model	Naked Mini; LSI 4/10	Naked Mini; LSI 2/60	Naked Mini; LSI 2/60	Naked Mini; LSI 2/120	Naked Mini; LSI 2/120
Add time, microseconds	7.9/4.1	4.1/2.1	4.1/0.8	2.4/0.8	2.4/0.8
No. of I/O ports on basic sys. and max.	1, 2	2, 4	8, 32	8, 48	8, 64
INTERNAL STORAGE					
Type	MOS	MOS	MOS	MOS	MOS
Capacity of basic system, bytes	32K	64K	64K	256K	256K
Maximum capacity, bytes	32K	304K	304K	256K	512K
Increment size, bytes	—	64K	64K	—	256K
Cycle/access time, microseconds	0.7/0.5	0.7/0.5	0.7/0.5	0.5/0.3	0.5/0.3
MASS STORAGE					
Floppy disk (diskette) drive	Standard	—	—	—	—
Maximum diskette storage	Std.; 1M bytes	—	—	—	—
Cartridge disk drive	—	Std.; (1-4) 32MB	Opt.; (1-8) 32MB	Opt.; (1-8) 32MB	Opt.; (1-8) 32MB
Pack disk drive	—	Opt.; (1-4) 80MB	Opt.; (1-8) 80-300MB	Opt.; (1-8) 80-300MB	Opt.; (1-8) 80-300MB
Fixed-head disk/drum	—	—	Opt. (Semicon. "disk")	Opt. (Semicon. "disk")	Opt.; (Semicon. "disk")
Maximum disk storage	1M bytes	224MB (formatted)	1760MB (formatted)	1760MB (formatted)	1760MB (formatted)
WORKSTATIONS					
Maximum number connectable	2	4	32	48	64
Recommended maximum number	Appl. dependent	Appl. dependent	Appl. dependent	Appl. dependent	Appl. dependent
Keyboard style	Type.; num. key.	Type.; num. key.	Type.; num. key.	Type.; num. key.	Type.; num. key.
Workstation printer	Optional	Optional	Optional	Optional	Optional
INPUT/OUTPUT DEVICES					
Serial printer	Opt.; 150 cps	Opt.; 150 cps	Opt.; 150 cps	Opt.; 150 cps	Opt.; 150 cps
Line printer	—	Opt.; 300/600 lpm	Opt.; 300/600 lpm	Opt.; 300/600 lpm	Opt.; 300/600 lpm
Reel-to-reel tape drive	—	—	Opt.; (1) 25 ips	Opt.; (1) 25 ips	Opt.; (1) 25 ips
Cassette/cartridge tape drive	—	—	—	—	—
CRT	Std.; (1) 1920 char.	Std.; (2) 1920 char.	Opt.; (32) 1920 char.	Opt.; (48) 1920 char.	Opt.; (64) 1920 char.
Other	—	—	—	—	—
COMMUNICATIONS					
Maximum no. of lines	1	5	34	50	66
Synchronous	—	Std.; 4800 bps	Opt.; 4800 bps	Opt.; 4800 bps	Opt.; 4800 bps
Asynchronous	Opt.; 1200 bps	Std.; (4) 9600 bps	Std.; (8-32) 9600 bps	Std.; (8-48) 9600 bps	Std.; (8-64) 9600 bps
Protocols supported	—	Bisync	Bisync, SDLC	Bisync, SDLC	Bisync, SDLC
Network architecture supported	—	—	Opt.; SNA	Opt.; SNA	Opt.; SNA
RJE terminals emulated	—	IBM 3780	See Comments	See Comments	See Comments
IBM 3270 emulation	No	No	Optional	Optional	Optional
SOFTWARE SUPPORT					
COBOL	No	No	No	No	No
RPG	No	No	No	No	No
FORTRAN	No	No	No	No	No
BASIC	No	No	No	No	No
Assembler	No	No	No	No	No
Other programming languages	SYBOL	SYBOL	SYBOL	SYBOL	SYBOL
Multiprogramming	Yes	Yes	Yes	Yes	Yes
Max. no. of jobs run concurrently	2	6	53	70	85
Language complemented in firmware	No	No	No	No	No
Op. sys. implemented in firmware	No	No	No	No	No
General accounting packages	No	No	No	No	No
Industry application areas	Insurance, utilities	Insurance, utilities	Insurance, utilities	Insurance, utilities	Insurance, utilities
Data base management system	No	No	No	No	No
File access methods supported	Random, seq.	Random, seq., ISAM	Random, seq. ISAM	Random, seq., ISAM	Random, seq., ISAM
Software separately priced	No	No	No	No	No
Technical help separately priced	—	—	—	—	—
LEASE/MAINTENANCE OPTIONS					
Lease plans available	Purchase only	Purchase only	Purchase only	Purchase only	Purchase only
Maintenance plans available	Contact vendor	Contact vendor	Contact vendor	Contact vendor	Contact vendor
PRICING & AVAILABILITY					
Purchase price of basic system, $	10,000	36,000	102,500	205,000	Contact vendor
Monthly rental of basic system, $	—	—	—	—	
Monthly maint. price of basic system, $	110	311	220	350	Contact vendor
Monthly maint. bundled with rental, $	NA	NA	NA	NA	NA
Purchase price of:					
additional memory module, $	—	6,400	6,400	—	15,000
additional workstations, $	2,750	2,750	2,750	2,750	2,750
additional printer, $	4,000 (150 cps)	4,000-16,000	4,000-16,000	4,000-16,000	4,000-16,000
Discounts available	No	No	No	No	No
Date of first U.S. delivery	1980	1979	1976	1981	NA
Number installed to date	638 (all systems)	638 (all systems)	638 (all systems)	638 (all systems)	638 (all systems)
COMMENTS	Price includes 1 CRT, 1 floppy disk drive, and 32K bytes of memory	Price includes 2 CRTs, a Bisync controller, 32MB-disk drive, and 64K bytes of memory	Price includes 128K bytes of memory, 9-slot chassis, power supply, 8 CRTs, two 32MB disk drives, and a 600-lpm printer; RJE terminals: 3780, HASP Mod. 20, SNA PU-Type 2; LSI 2/120 CPU is optional	Price includes 256K bytes of memory, 16 CRTs, three 80MB-disk drives, a Bisync controller, and a 600-lpm printer; RJE terminals: 3780, HASP Mod. 20, SNA PU-Type 2	See SyFA System 2000 Comments

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MANUFACTURER AND MODEL	Durango F-85	Evolution Computer Systems 210	Evolution Computer Systems 240	Evolution Computer Systems 260	Evolution Computer Systems 280
WORD LENGTH, BITS	8-bit byte	8	16-bit instruc., 8-bit data	16-bit instruc., 8-bit data	16-bit instruc., 8-bit data
CPU					
Model	Intel 8085	Zilog Z-80	EVOLUTION Series II .4 (8 bits)	EVOLUTION Series II .4 (8 bits)	EVOLUTION Series II .4 (8 bits)
Add time, microseconds	1.33	1			
No. of I/O ports on basic sys. and max.	0/5	4	4, 16	4, 64	4, 64
INTERNAL STORAGE					
Type	MOS	MOS RAM	MOS	MOS	BULK MOS
Capacity of basic system, bytes	64K	64K	64K	128K	256K
Maximum capacity, bytes	131K	64K	256K	572K	1,024K
Increment size, bytes	65K	—	64K	128K	256K
Cycle/access time, microseconds	.50/.25	500 ns.	400 ns.	400 ns.	400 ns.
MASS STORAGE					
Floppy disk (diskette) drive	Std.; 946K bytes	Std.; (2) 2.4M bytes	—	—	—
Maximum diskette storage	4 units; 3.78M bytes	4.8M bytes	—	—	—
Cartridge disk drive	No	—	—	—	—
Pack disk drive	Opt.; 12-24M bytes	—	—	Std.; (8) 50MB	Std.; (8) 200MB
Fixed-head disk/drum	No	—	Std.; 33 or 66MB	—	—
Maximum disk storage	—	4.8M bytes	132M bytes	400M bytes	1,600M bytes
WORKSTATIONS					
Maximum number connectable	5	4	32	64	64
Recommended maximum number	5	2	16	32	32
Keyboard style	Type.; num. key.	Typewriter	Typewriter	Typewriter	Typewriter
Workstation printer	Opt.; 1	Yes	Yes	Yes	Yes
INPUT/OUTPUT DEVICES					
Serial printer	Std.; 165 cps	Optional	Optional	Optional	Optional
Line printer	No	Optional	Optional	Optional	Optional
Reel-to-reel tape drive	No	No	No	Standard	Standard
Cassette/cartridge tape drive	No	No	Standard	Optional	Optional
CRT	Std.; 1920 char.	Std.; 240 x 80 char.	Std.; 24 x 80 char.	Std.; 24 x 80 char.	Std.; 24 x 80 char.
Other	—	—	—	—	—
COMMUNICATIONS					
Maximum no. of lines	5	4	32	64	64
Synchronous	Up to 9600 bps	Opt.; 9600 bps	Opt.; 9600 bps	Opt.; 9600 bps	Opt.; 9600 bps
Asynchronous	Up to 9600 bps	Std.; 9600 bps	Std.; 9600 bps	Opt.; 9600 bps	Std.; 9600 bps
Protocols supported	Async, bisync	Async	Async/Bisync	Async, Bisync	Async/Bisync
Network architecture supported	—	No	No	No	No
RJE terminals emulated	IBM 2780/3780	—	2780/3780	2780/3780	2780/3780
IBM 3270 emulation	Yes	No	No	No	Yes
SOFTWARE SUPPORT					
COBOL	Yes	Yes*	No	No	No
RPG	Yes	No	No	No	No
FORTRAN	Yes	Yes*	No	No	No
BASIC	Yes	Yes	Yes	Yes	Yes
Assembler	No	Yes	Yes	Yes	Yes
Other programming languages	PASCAL	PASCAL, FOURTH*	Query, Proc., TCL	Query, Proc., TCL	Query, Proc., TCL
Multiprogramming	Yes, 5 partitions	Yes	Yes	Yes	Yes
Max. no. of jobs run concurrently	5	2	32	64	64
Language complemented in firmware	No	No	Yes	Yes	Yes
Op. sys. implemented in firmware	Partially	No	Yes	Yes	Yes
General accounting packages	Yes	Yes	Yes	Yes	Yes
Industry application areas	Dist., insurance	—	—	—	—
Data base management system	No	No	Yes	Yes	Yes
File access methods supported	Seq., rand., ISAM	—	Random, seq., ISAM	Random, seq., ISAM	Random, seq., ISAM
Software separately priced	Yes	Yes	Yes (applications)	Yes (applications)	Yes (applications)
Technical help separately priced	Yes	Yes	Yes	Yes	Yes
LEASE/MAINTENANCE OPTIONS					
Lease plans available	5 years	3-yr., 5-yr.	3-yr., 5-yr.	3-yr., 5-yr.	3-yr., 5-yr.
Maintenance plans available	On-site and factory return	Yes	Yes	Yes	Yes
PRICING & AVAILABILITY					
Purchase price of basic system, $	11,975	9,950	32, 950	69,750	94,000
Monthly rental of basic system, $	300 (approx.)	NA	NA	NA	NA
Monthly maint. price of basic system, $	107	60	320	554	870
Monthly maint. bundled with rental, $	No	NA	NA	NA	NA
Purchase price of:					
additional memory module, $	Contact vendor	NA	6,125	10,225	13,850
additional workstations, $	1,995	1,395	1,395	1,395	1,395
additional printer, $	—	1,850 (150 cps)	1,850 (150 cps)	9,000 (300 lpm)	25,000 (1200 lpm)
Discounts available	Quantity	—	—	—	—
Date of first U.S. delivery	December 1978	November 1980	December 1980	January 1977	January 1981
Number installed to date	Over 2000	5	5	150	2
COMMENTS		*Available from third-party vendors	Word processing optional	Word processing optional	Word processing optional

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MANUFACTURER AND MODEL	General Robotics Gemini	General Robotics Pegasus	General Robotics Polaris	General Robotics Tristar	Infomark, Inc. S/1000
WORD LENGTH, BITS	16	16	16	16	16
CPU					
Model	DEC LSI-11	DEC LSI-11	DEC LSI-11	DEC LSI-11	DG 8605-E
Add time, microseconds	3.5	3.5	3.5	3.5	.7
No. of I/O ports on basic sys. and max.	1, 14	1, 14	1, 14	1, 14	2
INTERNAL STORAGE					
Type	MOS	MOS	MOS	MOS	MOS
Capacity of basic system, bytes	64K	64K	64K	64K	64K bytes
Maximum capacity, bytes	256K	256K	64K	256K	64K bytes
Increment size, bytes	—	—	—	—	
Cycle/access time, microseconds	.45/.03	.45/.30	.45/.30	.45/.30	.7/.7
MASS STORAGE					
Floppy disk (diskette) drive	Std.; 2.5M bytes (2)	Opt.; 3.8M bytes (3)	Std.; 1M bytes (3)	Std.; 3.8M bytes (3)	Opt.; 256K bytes
Maximum diskette storage	(2) 2.5M bytes	(3) 3.8M bytes	(3) 1M bytes	(3) 3.8M bytes	—
Cartridge disk drive	Opt.; 10M bytes	Std.; 90M bytes	Opt.; 20M bytes	Opt.; 10M bytes	Std.; (4) 40M bytes
Pack disk drive	No	No	No	No	—
Fixed-head disk/drum	No	No	No	No	—
Maximum disk storage	—	—	—	—	—
WORKSTATIONS					
Maximum number connectable	14	14	14	14	4
Recommended maximum number	8	14	3	8	4
Keyboard style	No	No	Teletype	No	Type.; num. key.
Workstation printer	No	No	Standard (1)	No	—
INPUT/OUTPUT DEVICES					
Serial printer	No	No	Std.; 110 cps	No	Opt.; 180 cps
Line printer	No	No	No	No	70-900 lpm
Reel-to-reel tape drive	No	No	No	No	—
Cassette/cartridge tape drive	No	No	No	No	—
CRT	No	No	Std.; 480 char.	No	Std.; 1920 char.
Other	No	No	No	No	—
COMMUNICATIONS					
Maximum no. of lines	14	14	14	14	4
Synchronous	Opt.; 19.2K bps	Opt.; 19.2K bps	Opt.; 19.2K bps	Opt.; 19.2K bps	—
Asynchronous	Std.; 19.2K bps	Std.; 19.2K bps	Std.; 19.2K bps	Std.; 19.2K bps	Standard
Protocols supported	Async/sync	Async/sync	Async/sync	Async/sync	Async
Network architecture supported	IBM, DECnet	IBM, DECnet	IBM, DECnet	IBM, DECnet	—
RJE terminals emulated	2780	2780	2780	2780	—
IBM 3270 emulation	No	No	No	No	—
SOFTWARE SUPPORT					
COBOL	No	No	No	No	No
RPG	No	No	No	No	Yes
FORTRAN	Yes	Yes	Yes	Yes	No
BASIC	Yes	Yes	Yes	Yes	No
Assembler	Yes	Yes	Yes	Yes	Yes
Other programming languages	APL, DIBOL	APL, DIBOL	APL, DIBOL	APL, DIBOL	Forms (FPG)*
Multiprogramming	Yes	Yes	Yes	Yes	No
Max. no. of jobs run concurrently	14	14	14	14	—
Language complemented in firmware	No	No	No	No	No
Op. sys. implemented in firmware	No	No	No	No	No
General accounting packages	No	No	No	No	Yes
Industry application areas	General purpose	General purpose	General purpose	General purpose	Wholesale dist. mfg.
Data base management system	No	No	No	No	Yes
File access methods supported	Rand., seq., index	Rand., seq., index	Rand., seq., index	Rand., seq., index	Seq., ISAM
Software separately priced	Yes	Yes	Yes	Yes	Yes
Technical help separately priced	Yes	Yes	Yes	Yes	Yes
LEASE/MAINTENANCE OPTIONS					
Lease plans available	Purchase only	Purchase only	Purchase only	Purchase only	—
Maintenance plans available	Factory return	Factory return	Factory return	Factory return	—
PRICING & AVAILABILITY					
Purchase price of basic system, $	9,500	17,500	12,000	11,000	44,000 (bundled)
Monthly rental of basic system, $	—	—	—	—	—
Monthly maint. price of basic system, $	—	—	—	—	—
Monthly maint. bundled with rental, $	No	No	No	No	—
Purchase price of:					
additional memory module, $	—	—	—	—	—
additional workstations, $	—	—	—	—	—
additional printer, $	—	—	—	—	—
Discounts available	Qty., dollar vol., educ.	Qty., dollar vol., educ.	Qty., dollar vol., educ.	Qty., dollar vol., educ.	—
Date of first U.S. delivery	April 1979	November 1977	April 1978	June 1978	1976
Number installed to date	210	180	75	202	NA
COMMENTS					*Integrated applic. *Interactive query language

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MANUFACTURER AND MODEL	Infomark, Inc. S/2000	Informark, Inc. S/4000	Infomark, Inc. S/6000	Infomark, Inc. S/8000	Keydata Unity I
WORD LENGTH, BITS	16	16	16	16	16
CPU					
Model	DG 8608-E	DG 8608-E	DG 8608-E	DG 8608-E	DG Nova 3/4
Add time, microseconds	.7	.7	.7	.7	—
No. of I/O ports on basic sys. and max.	2	2	2	2	3, 3
INTERNAL STORAGE					
Type	MOS	MOS	MOS	MOS	MOS
Capacity of basic system, bytes	64K	64K	128K	256K	64K
Maximum capacity, bytes	256K	256K	256K	256K	64K
Increment size, bytes	64K	64K	128K	—	—
Cycle/access time, microseconds	.7/.7	.7/.7	.7/.7	.7/.7	—
MASS STORAGE					
Floppy disk (diskette) drive	Opt.; 256K bytes	Opt.; 256K bytes	Opt.; 256K bytes	Opt.; 256K bytes	Optional (1)
Maximum diskette storage	—	—	—	—	—
Cartridge disk drive	Std.; (2) 64M bytes	—	—.	—	—
Pack disk drive	—	Std.; (4) 160M bytes	Std.; (4) 320M bytes	Std.; (4) 320M bytes	—
Fixed-head disk/drum	—	Std.; (2) 2M bytes	Std.; (2) 40M bytes	Std.; (2) 4M bytes	—
Maximum disk storage	—	—	—	—	—
WORKSTATIONS					
Maximum number connectable	8	8	16	24	—
Recommended maximum number	8	8	16	24	—
Keyboard style	Type.; num. key.	Type.; num. key.	Type.; num. key.	Type.; num. key.	—
Workstation printer	—	—	—	—	—
INPUT/OUTPUT DEVICES					
Serial printer	Opt.; (4) 180 cps	Opt.; (4) 180 cps	Opt.; (4) 180 cps	Opt.; (4) 180 cps	Optional
Line printer	70-900 lpm	70-900 lpm	70-900 lpm	70-900 lpm	Std.; 70 lpm
Reel-to-reel tape drive	Opt.; 25 ips	Opt.; 25 ips	Opt.; 25 ips	Opt.; 25 ips	Optional
Cassette/cartridge tape drive	—	—	—	—	—
CRT	Std.; 1920 char.	Std.; 1920 char.	Std.; 1920 char.	Std.; 1920 char.	Std.; (1) 2000 char.
Other	—	—	—	—	—
COMMUNICATIONS					
Maximum no. of lines	8	8	16	24	—
Synchronous	—	No	No	No	—
Asynchronous	Standard	Standard	Standard	Standard	—
Protocols supported	Async	Async	Async	Async	—
Network architecture supported	—	—	—	—	—
RJE terminals emulated	—	—	—	—	—
IBM 3270 emulation	—	—	—	—	—
SOFTWARE SUPPORT					
COBOL	No	No	No	No	No
RPG	Yes	Yes	Yes	Yes	No
FORTRAN	No	No	No	No	No
BASIC	No	No	No	No	No
Assembler	Yes	Yes	Yes	Yes	No
Other programming languages	Forms (FPG)*	Forms (FPG)*	Forms (FPG)*	Forms (FPG)*	FPG, RPG Mod.
Multiprogramming	No	No	No	No	Yes
Max. no. of jobs run concurrently	—	—	—	—	—
Language complemented in firmware	No	No	No	No	No
Op. sys. implemented in firmware	No	No	No	No	No
General accounting packages	Yes	Yes	Yes	Yes	Yes
Industry application areas	Wholesale, dist., mfg.	Dist., manuf.	Distribution	Dist., manuf.	Wholesale
Data base management system	Yes	Yes	Yes	Yes	Yes
File access methods supported	Seq., ISAM	Seq., ISAM	Seq., ISAM	Seq., ISAM	Random, seq., ISAM
Software separately priced	Yes	Yes	Yes	Yes	Yes
Technical help separately priced	Yes	Yes	Yes	Yes	Yes
LEASE/MAINTENANCE OPTIONS					
Lease plans available	—	Contact vendor	Contact vendor	Contact vendor	3-, 5-, 7-year
Maintenance plans available	—	—	—	—	Third-party
PRICING & AVAILABILITY					
Purchase price of basic system, $	61,000 (bundled)	92,000 (bundled)	112,000 (bundled)	136,000 (bundled)	44,500
Monthly rental of basic system, $	—	—	—	—	—
Monthly maint. price of basic system, $	—	—	—	—	—
Monthly maint. bundled with rental, $	—	—	—	—	—
Purchase price of:					
additional memory module, $	—	—	—	—	—
additional workstations, $	—	—	—	—	3,000
additional printer, $	—	—	—	—	5,950
Discounts available	—	—	—	—	—
Date of first U.S. delivery	1976	1976	1976	1976	January 1978
Number installed to date	NA	NA	NA	14	NA
COMMENTS	*Integrated applic. *Interactive query language	*Integrated applic. *Interactive query language	*Integrated applic. *Interactive query language	*Integrated applic. *Interactive query language	

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MANUFACTURER AND MODEL	Keydata Unity II	Keydata Unity III	Keydata Unity IV	Lazor Systems L-10	Lazor Systems L-30
WORD LENGTH, BITS	16	16	16	16	16
CPU					
Model	DG Nova 3/12	DG Nova 3/12	DG Nova 3/12	Intel 8086	Intel 8086
Add time, microseconds	—	—	—	1-2 (5 digits)	1-2 (5 digits)
No. of I/O ports on basic sys. and max.	8, 24	16, 24	24, 24	4, 16	4, 16
INTERNAL STORAGE					
Type	MOS	MOS	MOS	MOS	MOS
Capacity of basic system, bytes	64K	128K	256K	128K	128K
Maximum capacity, bytes	64K	128K	256K	1M	1M
Increment size, bytes	—	—	—	64K	64K
Cycle/access time, microseconds	—	—	—	.6/.2	.6/.2
MASS STORAGE					
Floppy disk (diskette) drive	Optional (1)	Optional (1)	Optional (1)	Standard	Standard
Maximum diskette storage	—	—	—	2.4M bytes	2.4M bytes
Cartridge disk drive	—	—	—	Opt.; (4) 96M bytes	Std.; (1) 20M bytes
Pack disk drive	—	—	—	No	No
Fixed-head disk/drum	—	—	—	No	No
Maximum disk storage	—	—	—	384M bytes	40M bytes
WORKSTATIONS					
Maximum number connectable	—	—	—	15	15
Recommended maximum number	—	—	—	15	15
Keyboard style	—	—	—	Variable	Variable
Workstation printer	—	—	—	—	—
INPUT/OUTPUT DEVICES					
Serial printer	Optional	Std.; 180 cps	Std.; (2) 180 cps	Opt.; (6) 150 cps	Opt.; (6) 150 cps
Line printer	Std.; 125 lpm	Std.; 300 lpm	Std.; 600 lpm	Opt.; (2) 300 lpm	Opt.; (2) 300 lpm
Reel-to-reel tape drive	Optional	Optional	Optional	No	No
Cassette/cartridge tape drive	—	—	—	Optional	Optional
CRT	Std.; (3) 2000 char.	Std.; (6) 2000 char.	Std.; (12) 2000 char.	Opt.; 1920 char.	Opt.; 1920 char.
Other				Opt.; POS cash register*	Opt.; POS cash register*
COMMUNICATIONS					
Maximum no. of lines	—	—	—	16	16
Synchronous	—	—	—	—	—
Asynchronous	—	—	—	Std.; 110-19,200 bps	Std.; 110-19,200 bps
Protocols supported	—	IBM 2780/3780	IBM 2780/3780	—	—
Network architecture supported	—	—	—	—	—
RJE terminals emulated	—	—	—	—	—
IBM 3270 emulation	—	—	—	No	No
SOFTWARE SUPPORT					
COBOL	No	No	No	Yes	Yes
RPG	No	No	No	No	No
FORTRAN	No	No	No	No	No
BASIC	No	No	No	Yes	Yes
Assembler	No	No	No	No	No
Other programming languages	FPG, RPG Mod.	FPG, RPG Mod.	FPG, RPG Mod.	—	—
Multiprogramming	Yes	Yes	Yes	Yes	Yes
Max. no. of jobs run concurrently	—	—	—	15	15
Language complemented in firmware	No	No	No	No	No
Op. sys. implemented in firmware	No	No	No	Partially	Partially
General accounting packages	Yes	Yes	Yes	Yes	Yes
Industry application areas	Wholesale	Wholesale	Wholesale	Mfg., whsl., retail	Mfg., whsl., retail
Data base management system	Yes	Yes	Yes	No	No
File access methods supported	Random, seq., ISAM	Random, seq., ISAM	Random, seq., ISAM	Seq., random, ISAM	Seq., random, ISAM
Software separately priced	Yes	Yes	Yes	Yes	Yes
Technical help separately priced	Yes	Yes	Yes	Yes	Yes
LEASE/MAINTENANCE OPTIONS					
Lease plans available	3-, 5-, 7-year	3-, 5-, 7-year	3-, 5-, 7-year	Third-party	Third-party
Maintenance plans available	Third-party	Third-party	Third-party	Contract, on-call	Contract, on-call
PRICING & AVAILABILITY					
Purchase price of basic system, $	65,000	93,500	129,500	15,050	20,575
Monthly rental of basic system, $	—	—	—	Third-party dep.	Third-party dep.
Monthly maint. price of basic system, $	—	—	—	150	195
Monthly maint. bundled with rental, $	—	—	—	—	—
Purchase price of:					
additional memory module, $	—	—	—	2,400 (128K)	2,400 (128K)
additional workstations, $	3,000	3,000	3,000	2,000	2,000
additional printer, $	5,950	5,950	5,950	3,000	3,000
Discounts available	—	—	—	No	No
Date of first U.S. delivery	June 1979	June 1979	September 1979	August 1980	August 1980
Number installed to date	NA	NA	NA	NA	NA
COMMENTS				*"Store Manager" is a turnkey cash register/data collection and inventory control system	Vertical application software available (i.e., Real Estate Property Management, Financial Analysis, LAZOR/WORD, POS);* See Lazor Systems L-10 Comments

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MANUFACTURER AND MODEL	MicroFive I	MicroFive II	MicroFive 3000	Mini-Computer Systems MICOS 100	Mini-Computer Systems MICOS 200
WORD LENGTH, BITS	8	16	16	16	16
CPU					
Model	Intel 8085	Intel 8086	Intel 8086	DG Nova 4C	DG Nova 4X
Add time, microseconds	1 (8 bits)	.6 (16 bits)	.6 (16 bits)	0.70	1.0
No. of I/O ports on basic sys. and max.	3	5	5, 11	62 maximum	62 maximum
INTERNAL STORAGE					
Type	MOS	MOS	MOS	MOS	MOS
Capacity of basic system, bytes	64K	128K	128K	64K	128K
Maximum capacity, bytes	64K	256K	1028K	64K	256K
Increment size, bytes	—	—	—	—	128K
Cycle/access time, microseconds	1 ms./200 ns.	1 ms./200 ns.	1 ms./200 ns.	0.70/0.35	1.0/0.5
MASS STORAGE					
Floppy disk (diskette) drive	Std.; (2) 1.2M bytes	Std.; (2) 1.2M bytes	Std.; (1) 1.2M bytes	No	No
Maximum diskette storage	(4) 1.2M bytes	(4) 1.2M bytes	(1) 1.2M bytes	—	—
Cartridge disk drive	—	—	—	Std.; 10M bytes	Std.; 10M bytes
Pack disk drive	—	—	—	Opt.; 32-64M bytes	Opt.; 32-80M bytes
Fixed-head disk/drum	Opt.; 20M bytes	Opt.; 20M bytes	Opt.; 10-34M bytes	No	No
Maximum disk storage	20M bytes	20M bytes	54M bytes	128M bytes	320M bytes
WORKSTATIONS					
Maximum number connectable	3	5	11	8	32
Recommended maximum number	2	4	10	4	16
Keyboard style	—	—	—	Type.; num. key.	Type.; num. key.
Workstation printer	—	—	—	No	No
INPUT/OUTPUT DEVICES					
Serial printer	Opt.; 160 cps	Opt.; 160 cps	Opt.; 160 cps	Std.; 150 cps	Std.; 150 cps
Line printer	Opt.; 300 lpm	Opt.; 300 lpm	Opt.; 300 lpm	Opt.; 300-600 lpm	Opt.; 300-600 lpm
Reel-to-reel tape drive	No	No	No	Yes	Yes
Cassette/cartridge tape drive	No	No	No	No	No
CRT	Opt.; 1920 char.	Opt.; 1920 char.	Opt.; 1920 char.	Std.; 24 x 80 char.	Std.; 24 x 80 char.
Other	—	—	—	Opt.; letter-quality printer	Opt.; letter-quality printer
COMMUNICATIONS					
Maximum no. of lines	2	4	10	0	1
Synchronous	—	—	—	No	Opt.; 9600 bps
Asynchronous	Std.; 9600 bps	Std.; 19,200 bps	Std.; 19,200 bps	Std.; to 19.2K bps	Std.; to 19.2K bps
Protocols supported	—	—	—	MTAM/Async	Bisync
Network architecture supported	—	—	—	No	No
RJE terminals emulated	—	—	—	—	IBM 2780
IBM 3270 emulation	No	No	No	No	No
SOFTWARE SUPPORT					
COBOL	Yes	Yes	Yes	No	No
RPG	No	No	No	No	No
FORTRAN	No	No	No	No	No
BASIC	Yes	Yes	Yes	Extensive	Extensive
Assembler	No	No	No	No	No
Other programming languages	Yes	No	No	MINQ	MINQ
Multiprogramming	Yes (4)	Yes (11)	Yes (11)	Yes (8 users)	Yes (16 users)
Max. no. of jobs run concurrently	4	11	11	8	16
Language complemented in firmware	No	No	No	No	No
Op. sys. implemented in firmware	No	No	No	No	Opt.; partially
General accounting packages	Yes	Yes	Yes	Yes	Yes
Industry application areas	See Comments	See Comments	See Comments	Various	Various
Data base management system	Yes	Yes	Yes	"Factmatcher"	"Factmatcher"
File access methods supported	Direct, seq., ISAM	Direct, seq., ISAM	Direct, seq., ISAM	Rand., seq., index	Rand., seq., index
Software separately priced	Yes	Yes	Yes	Yes (application)	Yes (application)
Technical help separately priced	No	No	No	Yes	Yes
LEASE/MAINTENANCE OPTIONS					
Lease plans available	—	—	—	Contact vendor	Contact vendor
Maintenance plans available	—	—	—	On-site contract, third-party	On-site contract, third-party
PRICING & AVAILABILITY					
Purchase price of basic system, $	8,500	12,000	18,000	29,000	47,100
Monthly rental of basic system, $	NA	NA	NA	—	—
Monthly maint. price of basic system, $	NA	NA	NA	350	360
Monthly maint. bundled with rental, $	NA	NA	NA	No	No
Purchase price of:					
additional memory module, $	NA	NA	NA	—	—
additional workstations, $	NA	NA	NA	1,800	1,800
additional printer, $	NA	NA	NA	3,000 (150 cps)	3,000 (150 cps)
Discounts available	Quantity	Quantity	Quantity	Dollar vol., OEM	Dollar vol., OEM
Date of first U.S. delivery	1978	1980	1981	1977	February 1973
Number installed to date	1000	100	NA	Over 1,600 (all mod.)	Over 1,600 (all mod.)
COMMENTS	Application areas include florist, service station, travel agency, medical, client accounting, and property management	See MicroFive I Comments	See MicroFive I Comments	Formerly "MICOS II"	Formerly "MICOS"

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MANUFACTURER AND MODEL	Mini-Computer Systems MICOS 300	Mitsubishi Electronics America, Inc. 8018	Mitsubishi Electronics America, Inc. 8028	Mitsubishi Electronics America, Inc. 8038	NEC Informatin Systems, Inc. Astra 205
WORD LENGTH, BITS	16	8	16	16	16
CPU					
Model	Dual DG Nova 3/12	Mitsubishi Electric Corp. A1105	Mitsubishi Electric Corp. B1200-2	Mitsubishi Electric Corp. B1200-2	NECIS-205
Add time, microseconds	1.0	900 (12 digit)	37.5 (5 digit)	37.75 (5 digit)	—
No. of I/O ports on basic sys. and max.	62 maximum	4, 12 (max.)	3, 64 (max.)	3, 64 (max.)	4
INTERNAL STORAGE					
Type	MOS	MOS	MOS	MOS	MOS
Capacity of basic system, bytes	192K	48K	256K	128K	128K
Maximum capacity, bytes	320K	96K	256K	512K	256K
Increment size, bytes	128K	32K	128K	128K	64K
Cycle/access time, microseconds	1.0/0.5	.33	.6	.6	800 ns (16 bits)
MASS STORAGE					
Floppy disk (diskette) drive	No	Std.; 512K-1M bytes	Opt.; 256K-2M bytes	Opt.; 256K-2M bytes	Standard (2)
Maximum diskette storage	—	2M bytes (4 units)	2M bytes (2 units)	2M bytes (2 units)	(4) 1.2M bytes
Cartridge disk drive	No	Opt.; 10-40M bytes	Std.; 10-80M bytes	Std.; 10-160M bytes	—
Pack disk drive	Std.; 80M bytes	No	Opt.; 50-200M bytes	Opt.; 50-400M bytes	—
Fixed-head disk/drum	No	No	No	No	—
Maximum disk storage	1024M bytes	40M bytes	200M bytes	400M bytes	—
WORKSTATIONS					
Maximum number connectable	32	5	4	27	1
Recommended maximum number	24	3	4	16	1
Keyboard style	Type.; num. key	Typewriter, numeric	Typewriter, numeric	Typewriter, numeric	Alphanumeric, num.
Workstation printer	No	Opt.; 4	Opt.; 4	Opt.; 26	1
INPUT/OUTPUT DEVICES					
Serial printer	Opt.; 150 cps	Opt.; 120 cps	Opt.; 200 cps	Opt.; 200 cps	Std.; 55-120 cps
Line printer	Opt.; 300-600 lpm	Opt.; 110 lpm	Opt.; 300-600 lpm	Opt.; 110/600 lpm	Opt.; 300-600 lpm
Reel-to-reel tape drive	Opt.; 36-120KBS	No	Opt.; 20-40K	Opt.; 20K/40K	—
Cassette/cartridge tape drive	No	Opt.; 6K/No	Opt.; 6K/No	Opt.; 6K/No	—
CRT	Std.; 24 x 80 char.	Std.; 1024 char.*	Std.; 2000 char.	Std.; 2000 char.	Std.; 2000 char.
Other	Opt.; letter-quality printer	—	—	—	—
COMMUNICATIONS					
Maximum no. of lines	1	1	32	32	1
Synchronous	Opt.; 9600 bps	Opt.; 1200-9600 bps	Opt.; 1200-19.2K bps	Opt.; 1200-19.2K bps	Opt.; 4800 bps
Asynchronous	Std.; to 19.2K bps	Opt.; 200-9600 bps	Opt.; 300-9600 bps	Opt.;300-9600 bps	Opt.; 4800 bps
Protocols supported	Bisync	BC-1, BSC	BC-1, BSC	BC-1, BSC	IBM 3740/3780
Network architecture supported	No	NA	NA	NA	—
RJE terminals emulated	IBM 2780	NA	NA	NA	—
IBM 3270 emulation	No	No	No	No	—
SOFTWARE SUPPORT					
COBOL	No	Yes	Yes	Yes	ANSI 74
RPG	No	No	Yes	Yes	No
FORTRAN	No	No	Yes	Yes	No
BASIC	Extensive	Yes	Yes	Yes	NEC BASIC
Assembler	No	Yes	No	No	Yes
Other programming languages	MINQ	—	PROGRESS II	PROGRESS II	NEC SMART
Multiprogramming	Yes (24 users)	Yes	Yes	Yes	Yes (dynamic)
Max. no. of jobs run concurrently	24	6	16	16	Memory dependent
Language complemented in firmware	No	Fully	Fully	Partially	Yes
Op. sys. implemented in firmware	Std.; partially	Fully	Partially	Partially	No
General accounting packages	Yes	Yes	Yes	Yes	Yes
Industry application areas	Various	Dist., pub., tracking	Distribution	Distribution	Various
Data base management system	"Factmatcher"	No	Yes	Yes	No
File access methods supported	Rand., seq., index	Seq., direct, ISAM	Seq., direct, ISAM	Seq., Dir., Rel., ISAM	Random, seq., ISAM
Software separately priced	Yes (applications)	Yes (application)	Yes (application)	Yes (application)	Yes
Technical help separately priced	Yes	Yes	Yes	Yes	Yes
LEASE/MAINTENANCE OPTIONS					
Lease plans available	Contact vendor	Third-party	Third-party	Third-party	No
Maintenance plans available	On-site contract, third-party	On-site contract	On-site contract	On-site contract	Yes
PRICING & AVAILABILITY					
Purchase price of basic system, $	131,700	18,900	38,000	43,000	8,560
Monthly rental of basic system, $	—	NA	NA	NA	—
Monthly maint. price of basic system, $	1,090	128	268	287	90
Monthly maint. bundled with rental, $	No	No	No	No	—
Purchase price of:					
additional memory module, $	—	800 (8K bytes)	3,800 (128K bytes)	3,800 (128K bytes)	1,800 (64K bytes)
additional workstations, $	1,800	3,000	2,800	2,800	—
additional printer, $	9,400 (300 lpm)	8,000 (110 lpm)	17,000 (600 lpm)	17,000 (600 lpm)	—
Discounts available	Dollar vol., OEM	NA	NA	NA	—
Date of first U.S. delivery	November 1979	February 1979	August 1980	November 1979	May 1980
Number installed to date	Over 1,600 (all mod.)	NA	NA	NA	NA
COMMENTS	Price includes five CRTs, 160 mega-bytes, a 300-lpm printer, and an intelligent multi-plexer	*Optional 2000 char-cter CRT available			

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MANUFACTURER AND MODEL	NEC Information Systems, Inc. Astra 210	NEC Information Systems, Inc. Astra 230	NEC Information Systems, Inc. Astra 250	NorthStar HORIZON HRZ-2D32K	NorthStar HORIZON HRZ-2Q64K
WORD LENGTH, BITS	16	16	16	8	8
CPU					
Model	NECIS-210	NECIS-230	NECIS-250	Zilog Z80A	Zilog Z80A
Add time, microseconds	—	—	—		
No. of I/O ports on basic sys. and max.	4	6	8	2S10, 1PIO std.	2S10, 1P1O std.
INTERNAL STORAGE					
Type	MOS	MOS	Bipolar	MOS	MOS
Capacity of basic system, bytes	128K	128K	128K	32K	64K
Maximum capacity, bytes	256K	256K	384K	64K*	64K*
Increment size, bytes	64K	64K	64K or 128K	16K	16K
Cycle/access time, microseconds	800 ns. (16 bits)	800 ns. (16 bits)	600 ns. (16 bits)	200 ns.	200 ns.
MASS STORAGE					
Floppy disk (diskette) drive	Standard (2)	Standard (1)	Standard (1)	Std.; (2) 180K bytes	Std.; (2) 720K bytes
Maximum diskette storage	(4) 1.2M bytes	(4) 1.2M bytes	(4) 1.2M bytes	720K bytes	1.44M bytes
Cartridge disk drive	—	—	—	Opt.; 18M bytes	Std.; 18M bytes
Pack disk drive	—	—	—	Optional	Optional
Fixed-head disk/drum	—	Opt.; 20-80M bytes	Opt.; 20-80M bytes	—	
Maximum disk storage	—	—	—	1.4M bytes	72M bytes
WORKSTATIONS					
Maximum number connectable	4	4	16	1	1
Recommended maximum number	Application dep.	Application dep.	Application dep.	1	1
Keyboard style	Alphanumeric, num.	Alphanumeric, num.	Alphanumeric, num.	Optional	Tactile fixed
Workstation printer	Up to 3	Up to 3	Up to 15	Optional	Optional
INPUT/OUTPUT DEVICES					
Serial printer	Std.; 55-120 cps	Std.; 55-120 cps	Std.; 55-120 cps	(1) 55 cps	Opt.; (1) 55 cps
Line printer	Opt.; 300-600 lpm	Opt.; 300-600 lpm	Opt.; 300-600 lpm	NA	NA
Reel-to-reel tape drive	—	Opt.; 800-1600 bpi	Opt.; 800-1600 bpi	NA	NA
Cassette/cartridge tape drive	—	Optional (1)	Optional (1)	NA	NA
CRT	Std.; (1) 2000 char.	Std.; (1) 2000 char.	Std.; (1) 2000 char.	Opt.; (1) 1920 char.	Opt.; (1) 1920 char.
Other	—	—	—	—	—
COMMUNICATIONS					
Maximum no. of lines	1	2	4	—	—
Synchronous	Opt.; 4800 bps	Opt.; 4800 bps	Opt.; 4800 bps	—	—
Asynchronous	Opt.; 4800 bps	Opt.; 4800 bps	Opt.; 4800 bps	—	—
Protocols supported	IBM 3740/3780	IBM 3740/3780	IBM 3740/3780	—	—
Network architecture supported	—	—	—	—	—
RJE terminals emulated	—	—	—	—	—
IBM 3270 emulation	—	—	—	—	—
SOFTWARE SUPPORT					
COBOL	ANSI 74	ANSI 74	ANSI 74	No	No
RPG	No	No	No	No	No
FORTRAN	No	No	No	No	No
BASIC	NEC BASIC	NEC BASIC	NEC BASIC	Yes	Yes
Assembler	Yes	Yes	Yes	Yes	Yes
Other programming languages	NEC SMART	NEC SMART	NEC SMART	PASCAL	PASCAL
Multiprogramming	Yes (dynamic)	Yes (dynamic)	Yes (dynamic)	No	No
Max. no. of jobs run concurrently	Memory dependent	Memory dependent	Memory dependent	1	1
Language complemented in firmware	Yes	Yes	Yes	No	No
Op. sys. implemented in firmware	No	No	No	No	Yes
General accounting packages	Yes	Yes	Yes	Yes	Yes
Industry application areas	Various	Various	Various	General-purpose	General-purpose
Data base management system	No	No	No	Yes	Yes
File access methods supported	Random, seq., ISAM	Random, seq., ISAM	Random, seq., ISAM	—	—
Software separately priced	Yes	Yes	Yes	—	—
Technical help separately priced	Yes	Yes	Yes	No	Yes
LEASE/MAINTENANCE OPTIONS					
Lease plans available	No	No	No	At dealer discretion	At dealer discretion
Maintenance plans available	Yes	Yes	Yes	At dealer discretion	At dealer discretion
PRICING & AVAILABILITY					
Purchase price of basic system, $	11,800	13,500	24,000	3,095	4,330
Monthly rental of basic system, $	—	—	—	Contact vendor	Contact vendor
Monthly maint. price of basic system, $	120	140	245	Contact vendor	Contact vendor
Monthly maint. bundled with rental, $	—	—	—	Contact vendor	Contact vendor
Purchase price of:					
additional memory module, $	1,800 (64K bytes)	1,800 (64K bytes)	1,800 (64K bytes)	—	—
additional workstations, $	2,900	2,900	2,900	—	—
additional printer, $	—	—	—	2,915	2,915
Discounts available	—	—	—	To dist. & indep. sales org.	To dist. & indep. sales org.
Date of first U.S. delivery	July 1979	July 1979	July 1979	December 1977	December 1977
Number installed to date	NA	NA	NA	21,000 (all systems)	21,000 (all systems)
COMMENTS	Up to 3 CRTs can be configured to the system	Up to 3 CRTs can be configured to the system	Up to 15 CRTs can be configured to the system; 128K-byte memory increment is available for $2,700	HORIZON is a registered trademark of NorthStar Computers, Inc.; *512K bytes via bank switching	*512K bytes via bank switching

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MANUFACTURER AND MODEL	NorthStar HORIZON HRZ-HD-18	NorthStar HORIZON SYS-IN	Omnidata OMNI 2	Omnidata OMNINET	Onyx C8001
WORD LENGTH, BITS	8	8	16	16	8
CPU					
Model	Zilog Z80A	Zilog Z80A	T.I. 9900	T.I. 9900	Zilog Z80A
Add time, microseconds	—	—	4.67 (16 bits)	4.67 (16 bits)	—
No. of I/O ports on basic sys. and max.	2S10, 1PIO std.	2S10, 1PIO std.	—	—	4
INTERNAL STORAGE					
Type	MOS	MOS	MOS	MOS	MOS
Capacity of basic system, bytes	64K	64K	32K	96K	64K
Maximum capacity, bytes	64K*	64K*	160K	96K	64K
Increment size, bytes	16K	16K	32K	—	—
Cycle/access time, microseconds	200 ns.	200 ns.	—	—	200 ns.
MASS STORAGE					
Floppy disk (diskette) drive	Std.; (2) 720K bytes	Std.; (2) 720K bytes	Optional	No	—
Maximum diskette storage	1.44M bytes	1.44M bytes	(4) 1.72M bytes	—	—
Cartridge disk drive	Std.; 18M bytes	Std.; 18M bytes	No	Optional	—
Pack disk drive	—	—	No	Optional	—
Fixed-head disk/drum	—	—	Optional	Optional	10MB; 20-40MB opt.
Maximum disk storage	—	72M bytes	—	—	160M bytes
WORKSTATIONS					
Maximum number connectable	1	1	—	255	3
Recommended maximum number	1	1	—	255	2
Keyboard style	Tact. fix., type.	Tact. fix., type.	Type., num.	Type., num.	—
Workstation printer	Optional	—	Optional	Optional	Any serial or parallel printer
INPUT/OUTPUT DEVICES					
Serial printer	Opt.; (1) 55 cps	Std.; (1) 55 cps	Optional	Optional	Optional
Line printer	—	—	Optional	Optional	Optional
Reel-to-reel tape drive	—	—	No	No	—
Cassette/cartridge tape drive	—	—	No	No	12MB cart. (std.)
CRT	Opt.; (1) 1920 char.	Opt.; (1) 1920 char.	Std.; 2000 char.	Std.; 2000 char.	Optional
Other	—	—	—	—	Any RS-232-C CRTs or printers
COMMUNICATIONS					
Maximum no. of lines	—	—	3	255	3
Synchronous	—	—	Optional	Optional	19,200 bps
Asynchronous	—	—	Optional	Optional	19,200 bps
Protocols supported	—	—	TTY, 2780/3780	TTY, 2780/3780	2780/3780
Network architecture supported	—	—	OMNILINK	OMNILINK	—
RJE terminals emulated	—	—	—	—	—
IBM 3270 emulation	—	—	No	No	No
SOFTWARE SUPPORT					
COBOL	No	No	Yes	Yes	Yes
RPG	No	No	No	No	No
FORTRAN	No	No	No	No	Yes
BASIC	Yes	Yes	Yes	Yes	Yes
Assembler	Yes	Yes	Yes	Yes	Yes
Other programming languages	PASCAL	PASCAL	—	—	PASCAL
Multiprogramming	No	No	No	Yes	Yes (2)
Max. no. of jobs run concurrently	1	1	1	255	3
Language complemented in firmware	No	No	No	No	No
Op. sys. implemented in firmware	Yes	No	No	No	No
General accounting packages	Yes	Yes	Yes	Yes	Yes
Industry application areas	General-purpose	General-purpose	General-purpose	General-purpose	—
Data base management system	Yes	Yes	Yes	Yes	Yes
File access methods supported	—	—	Yes	Yes	Rel., seq., ISAM
Software separately priced	—	—	Yes	Yes	Yes
Technical help separately priced	Yes	No	Yes	Yes	No
LEASE/MAINTENANCE OPTIONS					
Lease plans available	At dealer discretion	At dealer discretion	Yes	Yes	No
Maintenance plans available	At dealer discretion	At dealer discretion	Yes	Yes	—
PRICING & AVAILABILITY					
Purchase price of basic system, $	9,329	13,239	6,000	30,000	11,000
Monthly rental of basic system, $	Contact vendor	Contact vendor	—	—	—
Monthly maint. price of basic system, $	Contact vendor	Contact vendor	600	3,000	—
Monthly maint. bundled with rental, $	Contact vendor	Contact vendor	—	—	—
Purchase price of:					
additional memory module, $	—	499 (16K bytes)	400	—	NA
additional workstations, $	—	—	—	4,500	—
additional printer, $	2,915	2,915	2,000	2,000	—
Discounts available	To dist. & indep. sales org.	To dist. & indep. sales org.	—	—	OEM
Date of first U.S. delivery	April 1980	March 1980	December 1980	December 1980	May 1979
Number installed to date	21,000 (all systems)	21,000 (all systems)	NA	NA	800
COMMENTS	*512K bytes via bank switching	*512K bytes via bank switching; 32K-byte increment available for $739			

Small Business Computer Specifications Addendum

MANUFACTURER AND MODEL	Onyx C8001/MU	Onyx C8002	Onyx C5000	Pertec PCC2000	Pertec PCC8000
WORD LENGTH, BITS	8	16	8	8	16
CPU					
Model	Zilog Z80A	Zilog Z8002	Zilog Z80A	Intel 8085	SCI Mercury 3
Add time, microseconds	—	—	—	—	—
No. of I/O ports on basic sys. and max.	6	11	4	3, 6	4
INTERNAL STORAGE					
Type	MOS	MOS	MOS	MOS	MOS
Capacity of basic system, bytes	128K	256K	64K	64K	64K
Maximum capacity, bytes	256K	1M	64K	256K	256K
Increment size, bytes	128K	256K	—	64K	32K
Cycle/access time, microseconds	200 ns.	200 ns.	200 ns.	1.3	—
MASS STORAGE					
Floppy disk (diskette) drive	—	—	—	Std.; (2) 1.2M bytes	Std.; (2) 1.2M bytes
Maximum diskette storage	—	—	—	(4) 2.4M bytes	(3) 1.92M bytes
Cartridge disk drive	—	—	—	Opt.; 10-20M bytes	Opt.; 32M bytes
Pack disk drive	—	—	—	No	Opt.; 80M bytes
Fixed-head disk/drum	10MB; 20-40MB opt.	10MB; 20-40MB opt.	Std.; 6.5M bytes	No	—
Maximum disk storage	160M bytes	160M bytes	25M bytes	80M bytes	320M bytes
WORKSTATIONS					
Maximum number connectable	5	8	3	4	3
Recommended maximum number	5	8	2	4	3
Keyboard style	—	—	—	Type.; num. key.	Type.; num. key.
Workstation printer	Any serial or parallel printer	Any serial or parallel printer	Any serial or parallel printer	None	None
INPUT/OUTPUT DEVICES					
Serial printer	Optional	Optional	Optional	Std.; 55-120 cps	Opt.; 55 cps
Line printer	Optional	Optional	Optional	Opt.; (2) 150-300 lpm	Std.; 160 lpm*
Reel-to-reel tape drive	—	—	—	No	—
Cassette/cartridge tape drive	12MB cart. (std.)	12MB cart. (std.)	12MB cart. (std.)	No	—
CRT	Optional	Optional	Optional	Std.; 1920 char.	Std.; 1920 char.
Other	Any RS-232-C CRTs or printers	Any RS-232-C CRTs or printers	Any RS-232-C CRTs or printers	—	—
COMMUNICATIONS					
Maximum no. of lines	5	8	3	4	2
Synchronous	19,200 bps	19,200 bps	19,200 bps	Optional	—
Asynchronous	19,200 bps	19,200 bps	19,200 bps	Std.; to 9600 bps	Std.; 9600 bps
Protocols supported	2780/3780	2780/3780	2780/3780	2780/3780	—
Network architecture supported	—	RS422	—	No	—
RJE terminals emulated	—	—	—	No	—
IBM 3270 emulation	No	No	No	No	—
SOFTWARE SUPPORT					
COBOL	Yes	Yes	Yes	Yes (micro soft)	No
RPG	No	No	No	No	No
FORTRAN	Yes	Yes	Yes	Yes (micro soft)	No
BASIC	Yes	Yes	Yes	Yes	Yes
Assembler	Yes	Yes	Yes	No	Yes
Other programming languages	PASCAL	PASCAL	PASCAL	—	—
Multiprogramming	Yes (5)	Yes (255)	Yes (2)	Yes (5)	Yes (2)
Max. no. of jobs run concurrently	16	255	3	5	4
Language complemented in firmware	No	No	No	No	No
Op. sys. implemented in firmware	No	No	No	Partially	No
General accounting packages	Yes	Yes	Yes	Yes	Yes
Industry application areas	—	—	—	Dist., gen.-purpose	Dist., acctg., gen.
Data base management system	Yes	Yes	Yes	Yes	—
File access methods supported	Rel., seq., ISAM	Rel., seq., ISAM	Rel., seq., ISAM	Seq., random, ISAM	Seq., random, ISAM
Software separately priced	Yes	Yes	Yes	Yes	Yes
Technical help separately priced	No	No	No	Yes	Yes
LEASE/MAINTENANCE OPTIONS					
Lease plans available	No	No	No	Third-party, on-call	Third-party, T&M
Maintenance plans available	—	—	—	Yes	Yes
PRICING & AVAILABILITY					
Purchase price of basic system, $	12,500	18,500	9,000	13,750	20,600
Monthly rental of basic system, $	—	—	—	Third-party dep.	Third-party dep.
Monthly maint. price of basic system, $	—	—	—	132	148
Monthly maint. bundled with rental, $	—	—	—	—	—
Purchase price of:					
additional memory module, $	1,800	3,000	NA	—	1,000
additional workstations, $	—	—	—	2,775	2,750
additional printer, $	—	—	—	2,900	—
Discounts available	OEM	OEM	OEM	—	—
Date of first U.S. delivery	October 1980	May 1980	January 1981	November 1978	October 1978
Number installed to date	200	200	50	1500 +	150
COMMENTS				One 55-120 cps serial printer is available as an option	*A 300-lpm printer is available as an option

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MANUFACTURER AND MODEL	Pertec PCC8500	Pertec PCC9000	Pertec PCC9500	Prime 150	Prime 250
WORD LENGTH, BITS	16	16	16	32	32
CPU					
Model	SCI Mercury 3	SCI Mercury 3	SCI Mercury 3	Prime 150	Prime 250
Add time, microseconds	—	—	—	—	—
No. of I/O ports on basic sys. and max.	4	4, 16	4, 16	—	—
INTERNAL STORAGE					
Type	MOS	MOS	MOS	MOS	MOS
Capacity of basic system, bytes	64K	96K	96K	256K	512K
Maximum capacity, bytes	256K	256K	256K	1M	1M
Increment size, bytes	32K	32K	32K	256K	256K
Cycle/access time, microseconds	—	—	—	—	—
MASS STORAGE					
Floppy disk (diskette) drive	—	Opt.; (1) 64K bytes	Opt.; (1) 64K bytes	—	—
Maximum diskette storage	—	(3) 1.92M bytes	(3) 1.92M bytes	—	—
Cartridge disk drive	Std.; 32M bytes	Std.; 32M bytes	—	Std.; 32-96M bytes	Std.; 32-96M bytes
Pack disk drive	—	—	Std.; 80M bytes	—	—
Fixed-head disk/drum	—	—	—	—	—
Maximum disk storage	96M bytes	96M bytes	320M bytes	96M bytes	96M bytes
WORKSTATIONS					
Maximum number connectable	3	16	16	16	16
Recommended maximum number	3	16	16	16	16
Keyboard style	Type.; num. key.	Type.; num. key.	Type.; num. key.	—	Typewriter
Workstation printer	Std.; 3	Std.; 16	Std.; 16	—	—
INPUT/OUTPUT DEVICES					
Serial printer	Opt.; 55 cps	Opt.; (2) 55 cps	Opt.; 55 cps	Optional	Optional
Line printer	Std.; 160 lpm*	Std.; 160 lpm*	Std.; 160 lpm*	Optional	Optional
Reel-to-reel tape drive	—	—	—	Optional	Optional
Cassette/cartridge tape drive	—	—	—	—	—
CRT	Std.; 1920 char.	Std.; 1920 char.	Std.; 1920 char.	—	Standard
Other	—	—	—	—	—
COMMUNICATIONS					
Maximum no. of lines	2	13	13	8	8
Synchronous	—	—	—	—	—
Asynchronous	Std.; 9600 bps	Std.; 9600 bps	Std.; 9600 bps	Standard	Standard
Protocols supported	—	—	—	See Comments	See Comments
Network architecture supported	—	—	—	PRIMENET	PRIMENET
RJE terminals emulated	—	—	—	2780/3780	2780/3780
IBM 3270 emulation	—	—	—	—	—
SOFTWARE SUPPORT					
COBOL	No	No	No	Yes	Yes
RPG	No	No	No	Yes	Yes
FORTRAN	No	No	No	Yes	Yes
BASIC	Yes	Yes	Yes	Yes	Yes
Assembler	Yes	Yes	Yes	Yes	Yes
Other programming languages	—	—	—	PL/1	PL/1
Multiprogramming	Yes (2)	Yes (2-5)	Yes (2-5)	Yes	Yes
Max. no. of jobs run concurrently	8	19	19	128	128
Language complemented in firmware	No	No	No	Yes	Yes
Op. sys. implemented in firmware	No	No	No	Yes	Yes
General accounting packages	Yes	Yes	Yes	Yes	Yes
Industry application areas	Dist., acctg., gen.	Dist., acctg., gen.	Dist., acctg., gen.	General business	General business
Data base management system	—	—	—	Yes	Yes
File access methods supported	Seq., random, ISAM	Seq., random, ISAM	Seq., random, ISAM	Random, seq., ISAM	Random, seq., ISAM
Software separately priced	Yes	Yes	Yes	—	—
Technical help separately priced	Yes	Yes	Yes	—	—
LEASE/MAINTENANCE OPTIONS					
Lease plans available	Third-party, T&M	Third-party, T&M	Third-party, T&M	—	—
Maintenance plans available	Yes	Yes	Yes	—	—
PRICING & AVAILABILITY					
Purchase price of basic system, $	29,900	36,900	64,900	Contact vendor	Contact vendor
Monthly rental of basic system, $	Third-party dep.	Third-party dep.	Third-party dep.	Contact vendor	Contact vendor
Monthly maint. price of basic system, $	223	260	425	Contact vendor	Contact vendor
Monthly maint. bundled with rental, $	—	—	—	Contact vendor	Contact vendor
Purchase price of:					
additional memory module, $	1,000	1,000	1,000	Contact vendor	Contact vendor
additional workstations, $	2,750	2,750	2,750	Contact vendor	Contact vendor
additional printer, $	—	5,580 (160 lpm)	5,580 (160 lpm)	Contact vendor	Contact vendor
Discounts available	—	—	—	—	—
Date of first U.S. delivery	January 1979	January 1979	January 1979	February 1980	February 1980
Number installed to date	500	200	100	NA	NA
COMMENTS	*A 300-lpm printer is available as an option	*A 300-lpm printer is available as an option for $8,410	*A 300-lpm printer is available as an option for $8,410	Upgradeable to the Prime 450; protocols supported include Bisync, HASP, 2780/3780, HDLC, 200UT, Univac 1004, Honeywell GRTS, and ICL 7020	Upgradeable to Prime 550, 650 and 750; protocols supported include Bisync, HASP, 2780/3780, HDLC, 200UT, Univac 1004, Honeywell GRTS, and ICL 7020

Small Business Computer Specifications Addendum

MANUFACTURER AND MODEL	Prime Information Systems 500	Prime Information Systems 1000	Prime Information Systems 5000	Programmed Control Corp. PROPHET 21- Model 1	Programmed Control Corp. PROPHET 21- Model 2
WORD LENGTH, BITS	16, 32	16, 32	16, 32	16	16
CPU					
Model	—	—	—	TI 960B	TI 990/10
Add time, microseconds	—	—	—	3.6 (16 bits)	2.8 (16 bits)
No. of I/O ports on basic sys. and max.	—	—	—	1, 22	1, 128
INTERNAL STORAGE					
Type	MOS	MOS	MOS	MOS	MOS
Capacity of basic system, bytes	256K	512K	1M	32K	32K
Maximum capacity, bytes	572K	8M	8M	128K	2048K
Increment size, bytes	256K	64K, 256K	64K, 256K	8K	8K
Cycle/access time, microseconds	600 ns.	600 ns.	600 ns.	.7	.7
MASS STORAGE					
Floppy disk (diskette) drive	—	—	—	No	Optional
Maximum diskette storage	—	—	—	—	2M bytes
Cartridge disk drive	Std.; 32-96M bytes	Std.; 32-96M bytes	Std.; 32-96M bytes	Std.; 5M bytes	No
Pack disk drive	—	—	—	No	Std.; 25-50M bytes
Fixed-head disk/drum	—	—	—	No	No
Maximum disk storage	192M bytes	2.4B bytes	2.4B bytes	40M bytes (16 units)	1600M bytes (16 units)
WORKSTATIONS					
Maximum number connectable	12	63	63	22	64
Recommended maximum number	12	64	63	22	64
Keyboard style	Type.; num. key.	Type.; num. key.	Type.; num. key.	Type.; num. key.	Type.; num. key.
Workstation printer	—	—	—	Optional	Optional
INPUT/OUTPUT DEVICES					
Serial printer	—	—	—	Std.; 30 cps	Opt.; 180 cps
Line printer	Std.; 300 lpm	Std.; 300 lpm	Std.; 600 lpm	Opt.; 250 lpm	Opt.; 300-900 lpm
Reel-to-reel tape drive	Opt.; 800/1600 bpi	Opt.; 800/1600 bpi	Opt.; 800/1600 bpi	No	No
Cassette/cartridge tape drive	—	—	—	No	No
CRT	Std., 24 x 80 char.	Std.; 24 x 80 char.	Std.; 24 x 80 char.	Std.; 24 x 80 char.	Std.; 24 x 80 char.
Other	—	—	—	No	No
COMMUNICATIONS					
Maximum no. of lines	4	20	45	—	—
Synchronous	—	—	—	No	Standard
Asynchronous	—	—	—	Opt.; to 1200 bps	Opt.; to 9600 bps
Protocols supported	HASP II, RJE, X.25	HASP II, RJE, X.25	HASP II, RJE, X.25	—	—
Network architecture supported	PRIMENET	PRIMENET	PRIMENET	Prophet 21	Prophet 21
RJE terminals emulated	—	—	—	No	No
IBM 3270 emulation	—	—	—	No	No
SOFTWARE SUPPORT					
COBOL	Yes	Yes	Yes	No	No
RPG	Yes	Yes	Yes	No	No
FORTRAN	No	No	No	No	No
BASIC	Yes	Yes	Yes	No	No
Assembler	No	No	No	No	No
Other programming languages	INFORM	INFORM	INFORM	Prophet 21	Prophet 21
Multiprogramming	—	—	—	Yes (22 partitions)	Yes (128 partitions)
Max. no. of jobs run concurrently	—	—	—	22	64
Language complemented in firmware	Yes	Yes	Yes	No	No
Op. sys. implemented in firmware	Yes	Yes	Yes	No	No
General accounting packages	Yes	Yes	Yes	Yes	Yes
Industry application areas	General business	General business	General business	Distribution, whsl.	Distribution, whsl.
Data base management system	Yes	Yes	Yes	Yes	Yes
File access methods supported	Random, seq., ISAM	Random, seq., ISAM	Random, seq., ISAM	Random, seq., ISAM	Random, seq. ISAM
Software separately priced	—	—	—	No	No
Technical help separately priced	—	—	—	No	No
LEASE/MAINTENANCE OPTIONS					
Lease plans available	—	—	—	NA	NA
Maintenance plans available	—	—	—	NA	NA
PRICING & AVAILABILITY					
Purchase price of basic system, $	63,000	118,000	296,200	37,500	59,000
Monthly rental of basic system, $	—	—	—	Purchase only	Purchase only
Monthly maint. price of basic system, $	—	—	—	190	395
Monthly maint. bundled with rental, $	—	—	—	—	—
Purchase price of:					
additional memory module, $	—	—	—	4,500	5,250
additional workstations, $	—	—	—	6,250 (180 cps)	7,000 (180 cps)
additional printer, $	—	—	—	No	No
Discounts available	—	—	—		
Date of first U.S. delivery	1979	1979	1979	1972	July 1977
Number installed to date	NA	NA	NA	33	47
COMMENTS					Turnkey system is marketed nationwide and in Canada

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MANUFACTURER AND MODEL	Programmed Control Corp. PROPHET 21- Extended Mod. 2	Q1 Corporation Lite/IWS	Q1 Corporation Microlite 40	Q1 Corporation Microlite 80
WORD LENGTH, BITS	16	8	8	8
CPU				
Model	TI 990/10	Zilog Z-80	Zilog Z-80	Zilog Z-80
Add time, microseconds	2, 8 (16 bits)	1.6	1.6	1.6
No. of I/O ports on basic sys. and max.	1, 128	3	3	3
INTERNAL STORAGE				
Type	MOS	MOS	MOS	MOS
Capacity of basic system, bytes	32K	48K	48K	48K
Maximum capacity, bytes	2048K	64K	64K	64K
Increment size, bytes	8K	16K	16K	16K
Cycle/access time, microseconds	.7	.375/.2	.375/.2	.375/.2
MASS STORAGE				
Floppy disk (diskette) drive	Optional	Std.; (1-4) 500K-1MB	Std.; 800K bytes	Std., 800K bytes
Maximum diskette storage	2M bytes	Opt.; 2-4M bytes	1.6M bytes	1.6M bytes
Cartridge disk drive	No	No	Opt.; 5M bytes	Opt.; 5M bytes
Pack disk drive	Std.; 200M bytes	Opt.; 203M bytes	Opt.; (2) 208MB	Opt.; (2) 208MB
Fixed-head disk/drum	No	No	No	No
Maximum disk storage	3000M bytes (16 units)	Over 400M bytes	Over 400M bytes	Over 400M bytes
WORKSTATIONS				
Maximum number connectable	64	16*	16*	16*
Recommended maximum number	64	16	16	16
Keyboard style	Type., num. key.	Type., function cluster	Type., function cluster	Type., function cluster
Workstation printer	Optional	Optional	Optional	Optional
INPUT/OUTPUT DEVICES				
Serial printer	Opt.; 180 cps	Opt.; 45-200 cps	Opt.; 45-200 cps	Opt.; 45-200 cps
Line printer	Opt.; 300-900 lpm	Opt.; 300 lpm	Opt.; 300 lpm	Opt.; 300 lpm
Reel-to-reel tape drive	No	Opt.; 800/1600 bpi	Opt.; 800/1600 bpi	Opt.; 800/1600 bpi
Cassette/cartridge tape drive	No	No	No	No
CRT	Std.; 24 x 80 char.	Optional, Plasma	Optional, Plasma	Optional, Plasma
Other	No	40 x 12 or 80 x 24 CRT	40 x 12 CRT	80 x 24 CRT
COMMUNICATIONS				
Maximum no. of lines	—	1	1	1
Synchronous	Standard	4800 bps	4800 bps	4800 bps
Asynchronous	Opt.; to 9600 bps	1200 bps	1200 bps	1200 bps
Protocols supported	—	2780, TTY	2780, TTY	2780, TTY
Network architecture supported	Prophet 21	Optional	Optional	Optional
RJE terminals emulated	No	2780	2780	2780
IBM 3270 emulation	No	No	No	No
SOFTWARE SUPPORT				
COBOL	No	Yes (ANSI 74)	Yes (ANSI 74)	Yes (ANSI 74)
RPG	No	No	No	No
FORTRAN	No	Yes (opt. CP/M)	Yes (opt. CP/M)	Yes (opt. CP/M)
BASIC	No	Yes (opt. CP/M)	Yes (opt. CP/M)	Yes (opt. CP/M)
Assembler	No	Yes (opt. CP/M)	Yes (opt. CP/M)	Yes (opt. CP/M)
Other programming languages	Prophet 21	PL/1 (opt. CP/M)	PL/1 (opt. CP/M)	PL/1 (Opt. CP/M)
Multiprogramming	Yes (128 partitions)	Yes (2)	Yes (2)	Yes (2)
Max. no. of jobs run concurrently	64	2	2	2
Language complemented in firmware	No	Yes	Yes	Yes
Op. sys. implemented in firmware	No	Yes	Yes	Yes
General accounting packages	Yes	Yes	Yes	Yes
Industry application areas	Distribution, whsl.	WP, mfg., comm.	WP, mfg., comm.	WP, mfg., comm.
Data base management system	Yes	No	No	No
File access methods supported	Random, seq., ISAM	Index, seq., KSAM	Index, seq., KSAM	Index, seq., KSAM
Software separately priced	No	Yes	Yes	Yes
Technical help separately priced	No	Yes	Yes	Yes
LEASE/MAINTENANCE OPTIONS				
Lease plans available	NA	Yes	Yes	Yes
Maintenance plans available	NA	Yes	Yes	Yes
PRICING & AVAILABILITY				
Purchase price of basic system, $	97,500	4,000 (OEM pricing)	6,000 (OEM pricing)	9,000 (OEM pricing)
Monthly rental of basic system, $	Purchase only	100	150	225
Monthly maint. price of basic system, $	495	95	105	125
Monthly maint. bundled with rental, $	—	NA	NA	NA
Purchase price of:				
additional memory module, $	—	NA	300	300
additional workstations, $	5,250	4,000	4,000	4,000
additional printer, $	7,000 (180 cps)	3,500	2,500	3,500
Discounts available	No	GSA, distributor	GSA, distributor	GSA, distributor
Date of first U.S. delivery	May 1979	July 1977	July 1978	Second qtr. 1981
Number installed to date	8	4000+	200+	NA
COMMENTS	Turnkey system is marketed nationwide and in Canada	*64 with additional controller	*64 with additional controller	*64 with additional controller

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MANUFACTURER AND MODEL	Smoke Signal Broadcasting 822	Smoke Signal Broadcasting 9522	Smoke Signal Broadcasting 9524	Smoke Signal Broadcasting 9822
WORD LENGTH, BITS	8	8	8	8
CPU				
Model	Motorola 68B09	Motorola 68B09	Motorola 68B09	Motorola 68B09
Add time, microseconds	1.5	1.5	1.5	1.5
No. of I/O ports on basic sys. and max.	2, 16	2, 16	2, 16	2, 16
INTERNAL STORAGE				
Type	MOS	MOS	MOS	MOS
Capacity of basic system, bytes	32K	32K	32K	32K
Maximum capacity, bytes	1M	1M	1M	1M
Increment size, bytes	16K	16K	16K	16K
Cycle/access time, microseconds	500 ns.	500 ns.	500 ns.	500 ns.
MASS STORAGE				
Floppy disk (diskette) drive	Std.; (2) 2M bytes	Std.; (2) 750K bytes	Std.; (2) 1.5M bytes	Std.; (2) 2M bytes
Maximum diskette storage	2M bytes	750K bytes	1.5M bytes	2M bytes
Cartridge disk drive	—	—	—	—
Pack disk drive	—	—	—	—
Fixed-head disk/drum	—	—	—	—
Maximum disk storage	2M bytes	750K bytes	1.5M bytes	2M bytes
WORKSTATIONS				
Maximum number connectable	1	15	15	15
Recommended maximum number	1	2	2	2
Keyboard style	Type., num. key.	Type., num. key.	Type., num. key.	Type., num. key.
Workstation printer	Yes	Yes	Yes	Yes
INPUT/OUTPUT DEVICES				
Serial printer	Optional	Optional	Optional	Optional
Line printer	Optional	Optional	Optional	Optional
Reel-to-reel tape drive	—	—	—	—
Cassette/cartridge tape drive	—	—	—	—
CRT	Opt.; 1920 char.	Opt.; 1920 char.	Opt.; 1920 char.	Opt.; 1920 char.
Other	—	—	—	—
COMMUNICATIONS				
Maximum no. of lines	—	—	—	—
Synchronous	Optional	Optional	Optional	Optional
Asynchronous	RS-232-C (38.4K)	RS-232-C (38.4K)	RS-232-C (38.4K)	RS-232-C (38.4K)
Protocols supported	2780/3780	2780/3780	2780/3780	2780/3780
Network architecture supported	—	—	—	—
RJE terminals emulated	—	—	—	—
IBM 3270 emulation	No	No	No	No
SOFTWARE SUPPORT				
COBOL	Yes	No*	No*	No*
RPG	No	No	No	No
FORTRAN	Yes	No*	No*	No*
BASIC	Yes	Yes	Yes	Yes
Assembler	Yes	Yes	Yes	Yes
Other programming languages	No	UCSD, PASCAL	UCSD, PASCAL	UCSD, PASCAL
Multiprogramming	No	Yes (16)	Yes (16)	Yes (16)
Max. no. of jobs run concurrently	1	256	256	256
Language complemented in firmware	Yes	Yes	Yes	Yes
Op. sys. implemented in firmware	No	Optional	Optional	Optional
General accounting packages	Yes	Yes	Yes	Yes
Industry application areas	—	—	—	—
Data base management system	Yes	Yes	Yes	Yes
File access methods supported	Yes	Yes	Yes	Yes
Software separately priced	Yes	Yes	Yes	Yes
Technical help separately priced	No	No	No	No
LEASE/MAINTENANCE OPTIONS				
Lease plans available	1-yr., 5-yr.	1-yr., 5-yr.	1-yr., 5-yr.	1-yr., 5-yr.
Maintenance plans available	Yes	Yes	Yes	Yes
PRICING & AVAILABILITY				
Purchase price of basic system, $	4,575	3,625	4,075	4,675
Monthly rental of basic system, $	—	—	—	—
Monthly maint. price of basic system, $	—	—	—	—
Monthly maint. bundled with rental, $	—	—	—	—
Purchase price of:				
additional memory module, $	539 (32K)	539 (32K)	539 (32K)	539 (32K)
additional workstations, $	995	995	995	995
additional printer, $	2,000	2,000	2,000	2,000
Discounts available	Yes	Yes	Yes	Yes
Date of first U.S. delivery	February 1980	February 1980	September 1980	February 1980
Number installed to date	100	100	4	200
COMMENTS		*According to the vendor, these languages will soon be available	*According to the vendor, these languages will soon be available	*According to the vendor, these languages will soon be available

Small Business Computer Specifications Addendum

MANUFACTURER AND MODEL	Smoke Signal Broadcasting 98W32	Terak 8510A	Zilog MCZ 1/50	Zilog MCZ-2/Z-Net
WORD LENGTH, BITS	8	16	8	8
CPU				
Model	Motorola 68B09	DEC LSI-11	—	—
Add time, microseconds	1.5	3.5	—	—
No. of I/O ports on basic sys. and max.	2, 16	1, 8	2, 6	2, 6/node
INTERNAL STORAGE				
Type	MOS	MOS; RAM	MOS	MOS
Capacity of basic system, bytes	32K	64K	64K	64K/node
Maximum capacity, bytes	1M	64K	64K	64K/node
Increment size, bytes	16K	—	—	—
Cycle/access time, microseconds	500 ns.	1.2/0.6	.4	.25
MASS STORAGE				
Floppy disk (diskette) drive	Std.; (1) 1M bytes	Standard	Std.; 500K bytes	Opt.; 4.8M bytes/node
Maximum diskette storage	1M bytes	4 drives	1M bytes	4.8M bytes/node
Cartridge disk drive	Std.; 32M bytes	No	No	Opt.; 10M bytes/node
Pack disk drive	—	No	—	—
Fixed-head disk/drum	—	No	—	—
Maximum disk storage	32M bytes	—	—	40M bytes/node
WORKSTATIONS				
Maximum number connectable	15	8	5	255 nodes (5 per node)
Recommended maximum number	8	4	1	1/node
Keyboard style	Type., num. key.	Typewriter	Typewriter	Typewriter
Workstation printer	Yes	Optional	No	No
INPUT/OUTPUT DEVICES				
Serial printer	Optional	Opt.; 60-180 cps	Opt.; 150 cps	Opt.; 150 cps
Line printer	Optional	No	—	—
Reel-to-reel tape drive	—	No	—	—
Cassette/cartridge tape drive	—	No	—	—
CRT	Opt.; 1920 char.	Std.; 24 x 80 char.	Std.; 1920 char.	Opt.; 1920 char.
Other	—	No	—	—
COMMUNICATIONS				
Maximum no. of lines	—	8	4	4/node
Synchronous	Optional	No	Optional	Optional
Asynchronous	RS-232-C (38.4K)	Std.; 19,200 bps	Optional	Optional
Protocols supported	2780/3780	Async	2780	2780
Network architecture supported	—	—	—	Z-Net
RJE terminals emulated	—	—	—	—
IBM 3270 emulation	No	—	No	No
SOFTWARE SUPPORT				
COBOL	No	No	Yes	Yes
RPG	No	No	No	No
FORTRAN	No*	Yes	Yes	No
BASIC	Yes	Yes	Yes	No
Assembler	Yes	Yes	Yes	Yes
Other programming languages	UCSD, PASCAL	UCSD, PASCAL	PLZ	No
Multiprogramming	Yes (16)	Yes	No	—
Max. no. of jobs run concurrently	256	2	1	—
Language complemented in firmware	Yes	No	No	No
Op. sys. implemented in firmware	Optional	No	No	No
General accounting packages	Yes	No	Yes	Yes
Industry application areas	—	Educ., med., eng.,	No	No
Data base management system	Yes	Yes	No	No
File access methods supported	Yes	Rand., seq., index	Yes	Yes
Software separately priced	Yes	Yes	Variable	Variable
Technical help separately priced	No	Yes	—	—
LEASE/MAINTENANCE OPTIONS				
Lease plans available	1-yr., 5-yr.	Purchase only	No	No
Maintenance plans available	Yes	Factory return	Yes	Yes
PRICING & AVAILABILITY				
Purchase price of basic system, $	9,995	8,350	8,000	7,000-15,000/node
Monthly rental of basic system, $	—	NA	—	—
Monthly maint. price of basic system, $	—	NA	Various	Various
Monthly maint. bundled with rental, $	—	NA	—	—
Purchase price of:				
additional memory module, $	539 (32K)	NA	—	—
additional workstations, $	995	—	2,000	2,000
additional printer, $	2,000	3,700 (180 cps)	2,000	2,000
Discounts available	Yes	Qty., education	To 40 percent	To 40 percent
Date of first U.S. delivery	November 1980	April 1977	1977	1980
Number installed to date	6	Over 1300	4000	200
COMMENTS	*According to the vendor, will soon be available	Features simultaneous graphics and character display; compact, portable system; compatible with any DEC PDP-11 device		Z-Net is a network system