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IBM 3270 Information Display System Description, Configuration, and Physical Planning: Dataphone Digital Service Adapter Features

IBM 3274 Control Unit Model 1C

Feature Numbers 5650 and 5651

Systems



First Edition (June 1978)

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Preface

This interim publication provides descriptive, configuration, and physical planning information about the IBM 3274 Control Unit Model 1C Dataphone* Digital Service Adapter (DDSA) Features (# 5650 and # 5651). The publication is intended for data processing personnel, including managers and system analysts, for operations and administration managers, and for physical planning personnel.

Additional information about the characteristics of the IBM 3270 Information Display System is contained in the following publications:

- An Introduction to the IBM 3270 Information Display System, GA27-2739-8
- IBM 3270 Information Display System: Configurator, GA27-2849-2
- IBM 3270 Information Display System: Planning and Setup Guide, GA27-2827-3
- IBM 3270 Information Display System: Component Description, GA27-2749-7
- IBM 3270 Information Display System: Installation Manual – Physical Planning, GA27-2787-2**

This publication becomes obsolete when information concerning this feature is included in the appropriate publications listed above.

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^{**}To properly plan an installation of the IBM 3274 Control Unit Model 1C a copy of this manual must be obtained early in the planning cycle, and its recommendations for system installation must be followed.

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	The Dataphone Digital Service Adapter (DDSA) Features are now available in the U.S. for installation in the IBM 3274 Control Unit Model 1C. Both features (# 5650 for point-to- point and #5651 for multipoint operation) permit four-wire half-duplex communication with the host system via American Telephone & Telegraph's nonswitched Dataphone Digital Service. The DDSA features interface with the Dataphone Digital Service through AT&T's Channel Service Unit, or equivalent, thus enabling the user to take advantage of the data transmission techniques offered by this service. In addition, this service eliminates the need for modems.
Characteristics	
	The DDSA derives its power from the 3274 Control Unit. Data passes through the DDSA in both directions serial by bit and serial by character. No error checking is performed by the feature.
Speeds	· ·
	The DDSA can operate at synchronous speeds of 2400, 4800, and 9600 bits per second (bps). The speed specified for the DDSA must correspond to the speed of the communication facility. Clocking of the DDSA is derived from the data and control signals on the Dataphone Digital Service communication lines.
3274 Control Unit Maintena	nce
	Wrap facilities are provided in the DDSA for serviceability purposes. A switch is provided at the cable connector for serviceability and also for problem determination.

Figure 1 shows the connection of the 3274 Control Unit to the AT&T Dataphone Digital Service via a Channel Service Unit.

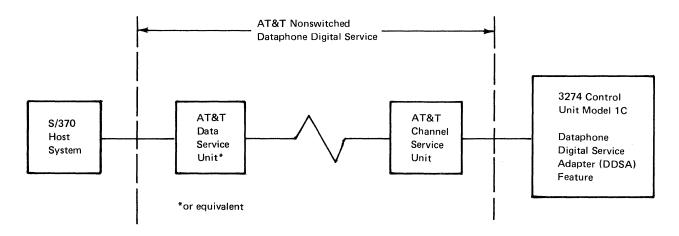


Figure 1. Connection of 3274 Control Unit Model 1C with DDSA Feature

This chapter updates the IBM 3274 Control Unit Model 1C configuration diagram (Figure 2) and feature list (Figure 3) from the *IBM 3270 Information Display System Configura*tor, GA27-2849, to reflect the Dataphone Digital Service Adapter Feature.

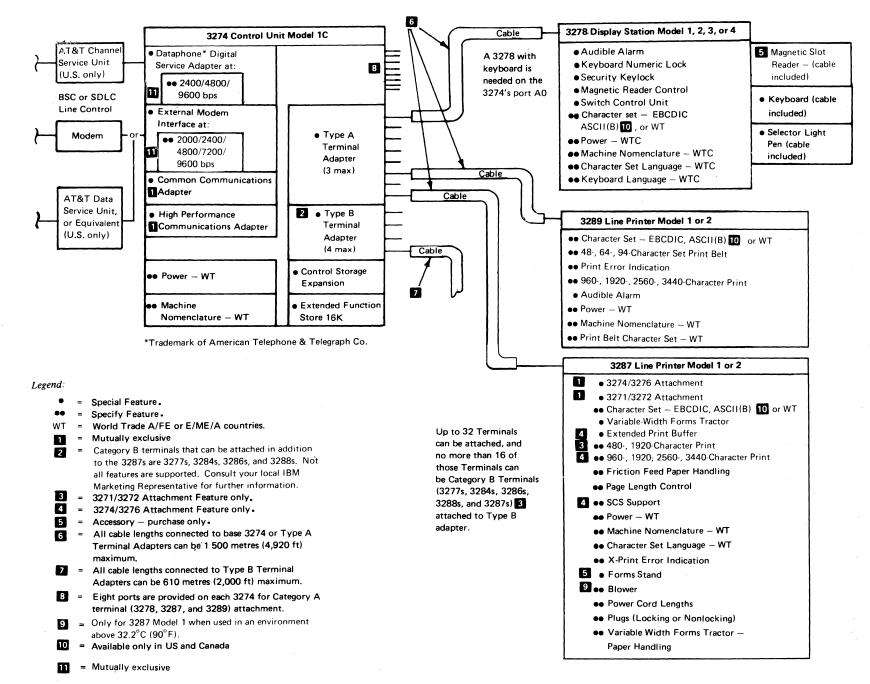


Figure 2. Remote 3270 Display System Employing a 3274 Control Unit Model 1C (BSC or SDLC Application)

Necessary (N) or Optional (O)		Feature Name	Special Feature Code	Specify Feature Code	Prerequisite (Must be ordered with):	Mutually Exclusive (Must not be ordered with)
1	N	Power Plug – Locking		9890		
6	Choose	120 Vac (Model 1C only)				
×.	one	Power Plug – Locking – 208 Vac		9884		
		Power Plug – Locking – 240 Vac		9894		
		Power Plug – Nonlocking		9891		
		120 Vac (Model 1C only)				
		Power Plug – Nonlocking – 208 Vac		9885		
		Power Plug – Nonlocking – 240 Vac		9895		
	0	Power connector – Watertight	8801			
		(U.S. and Canada)				
2	0	Power Cable – 1.8 metres (6 ft)		9511		
3	0	Communication Cable – (Model 1C only)		9061		
-	Choose	3.0 metres (10 ft)				
	one	Communication Cable (Model 1C only)		9062		
		9.1 metres (30 ft)				
		Communication Cable – (Model 1C only)		9063		
		12.2 metres (40 ft)				
	0	Terminal Adapter – Type A1	6901			
Cho	ose as	Terminal Adapter – Type A2	6902		6901	
needed (8		Terminal Adapter – Type A3	6903		6902	7804
term	ninals					
pera	adapter)					
	0	Terminal Adapter – Type B1	7802		4 3622	
Choose as		Terminal Adapter – Type B2	7803		7802	
needed (4		Terminal Adapter – Type B3	7804		7803	6903
terminals		Terminal Adapter – Type B4	7805		7804	6903
pera	adapter)					
0		Extended Function Store – 16K	3622**		1801	
	N	External Modem Interface	3701		6302 or 6303	5650 or 5651
(Model 1C		Dataphone* Digital Service Adapter	5650		6302 or 6303	3701 or 5651
only) Choose		(nonswitched, point-to-point) U.S. only				
one Special		Dataphone* Digital Service Adapter	5651		6302 or 6303	3701 or 5650
Feature		(nonswitched, multipoint) U.S. only				
		2000 bps 7		9821		
ther	n choose	2400 bps		9822		
one	Specify	4800 bps		9823		
Fea	ture	7200 bps 7		9824		
		9600 bps		9825	5 6303	
	N	Common Communications Adapter without	6302			6303
Cho	ose one	Business Machine Clock (Model 1C only)				
		High-Performance Communications	6303			6302
		Adapter (Model 1C only)				
4	0	Control Storage Expansion	1801			

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- **Not available on Model 1B.
- AC voltage, 1 phase, 3-wire, 60 Hz.
- 2 4.3 metres (14 ft) normally supplied. Optionally specify other lengths.
- **3** 6.1 metres (20 ft) normally supplied. Optionally specify other lengths.
- Models 1A and 1C only.
- 5 Prerequisite only when SNA/SDLC protocol is required and #7802 is installed.
- 6 Not available in E/ME/A countries.
- 7 Not available with Special Features 5650 and 5651.

Figure 3. 3274 Control Unit – Universal

Chapter 3. Physical Planning

This chapter contains physical planning information that updates the *IBM Installation Manual – Physical Planning*, GA27-2787.

A 6.1 meter (20 ft) communication cable equipped with a 15-pin connector is supplied when Feature Number 5650 or 5651 is ordered (Figure 4). The 15-pin connector connects the 3274 Control Unit Model 1C with the DDSA Feature to the Channel Service Unit. Optional cable lengths of 3.0 meters (10 ft) (# 9061), 9.1 meters (30 ft) (# 9062), and 12.2 meters (40 ft) (# 9063) are available and must be specified at the time of order. See Figure 3.

Cable 15-Pin Connector (Connects to AT&T's Channel Service Unit, or equivalent)

Figure 4. Communication Cable with 15-pin Connector Used to Connect the 3274 Control Unit Model 1C with the DDSA Feature to the Channel Service Unit

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