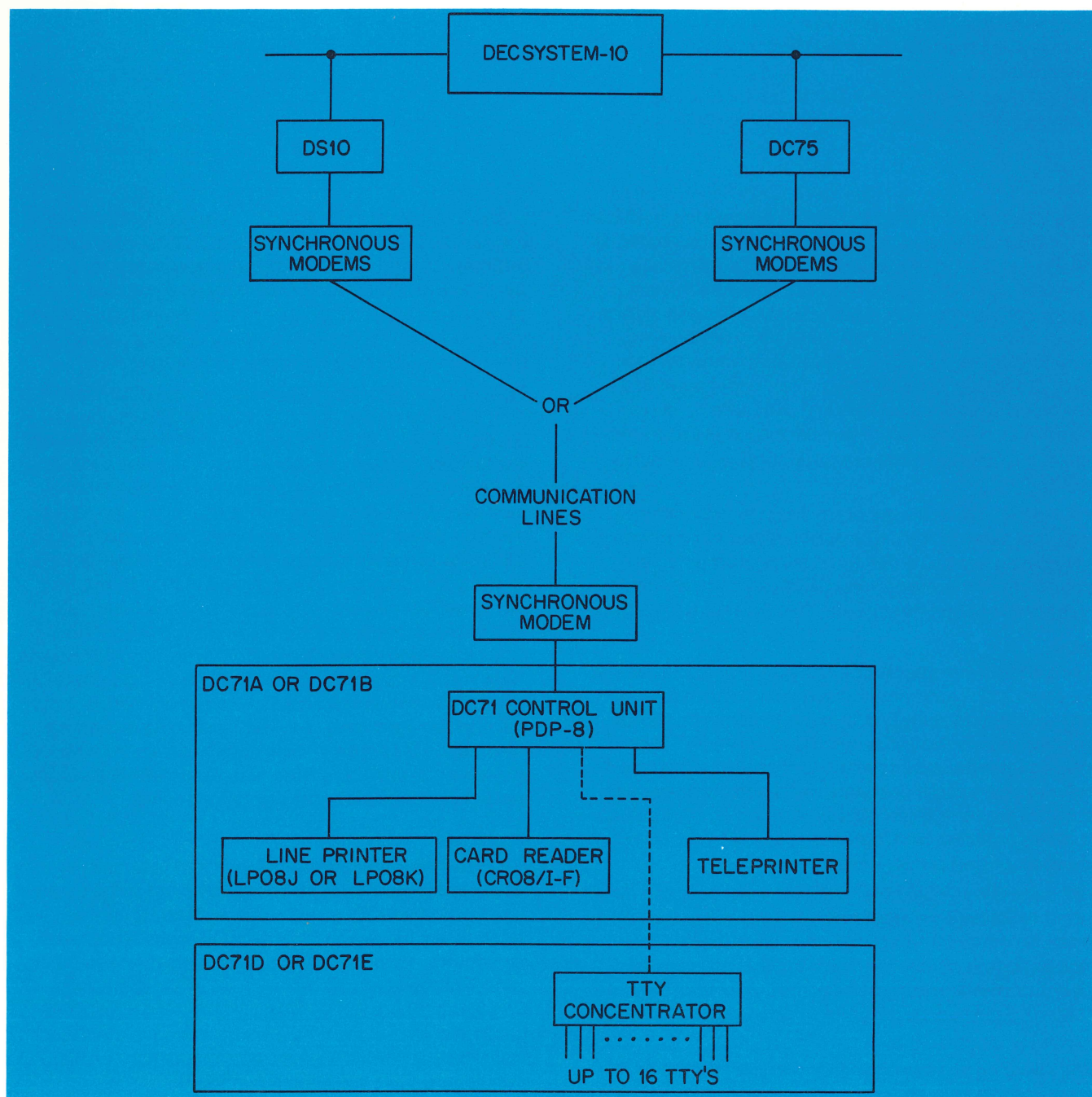


decsystem10

OPTION BULLETIN

DC71 REMOTE STATIONS



Features

- Remote Batch
- Remote Terminal Concentration
- Remote Real-Time capabilities
- Same control language as the DECsystem-10 central computer
- All software features available to the DECsystem-10 central computer user are available to the remote user.

The DC71 remote station brings the processing power of DECsystem-10 to remote locations via a communications link. Due to the DC71's modularity, DECsystem-10's processing power may be specifically tailored to an installation's computing requirements: the same station may provide any combination of batch programming, terminal concentration, or real-time capabilities. The DC71 provides a console teleprinter, high-speed line printer, card reader, and terminal concentrator as required. Because the DC71 remote station is programmable, custom equipment requirements may be easily satisfied.

From either the terminals or card reader, the control language used on the DECsystem-10 central processor may also be used to enter and control programs. Any program that operates on the DECsystem-10 needs no modification to operate through the DC71 remote station.

Batch

For remote batch operations, the operator at the remote site can initiate a stream of batch jobs in the same way they are initiated at the DECsystem-10 computer center; he merely loads the cards into the card reader. Jobs entered from the remote station are multiprogrammed and may operate concurrently with each other and with jobs from the central computer and other remote stations. Operating efficiency is high due to spooled card input and spooled line printer output.

With permission from other stations, operators can direct output to (or receive input from) other stations or the computer center. The operator merely indicates the desired station number. If the number is not specified, the system monitor assumes that the output is for the same station that started the program.

Terminal Concentration

When serving as a terminal concentrator, the DC71 remote station can concentrate up to sixteen devices.

These devices may include higher speed teleprinters such as DEC's LA30 and keyboard CRT devices such as DEC's VT05, both of which are teletype compatible. Terminals on the concentrator may be dedicated to a single application, may be used for remote job entry, or may be used for timesharing operations such as interactive computation and program development.

Terminal concentrators eliminate the need for individual long distance phone lines between each terminal and the central computer. Through synchronous modems, one line services the concentrator which, in turn, services the terminals and the batch station peripherals. Unlike hard-wired multiplexing systems, the computer-based concentrator insures that line errors introduced during transmission do not result in data errors. Another benefit of using the computer-based remote station is that the low-speed terminals can be operating simultaneously with the card reader and the line printer. Transmission time on the high-speed line is allocated on a demand basis, allowing high-speed operation of the terminals most of the time under normal user loads. The remote concentrator will also handle high-speed CRT terminals, providing interleaved message transmission in a manner which gives the effect of increasing the speed of the lines when multiple terminals are used simultaneously.

Real-Time

For real-time applications, the user can incorporate his custom program in the communication software provided with the DC71 remote station. And, of course, the user has full availability of DECsystem-10 software capabilities. With the user's custom software, the DC71 remote station can perform a range of functions from simple realtime tasks such as buffering the communication line and performing error checking to complex real-time operations such as data acquisition, variable calculation, and parameter adjustment.

DC71A Remote Batch Station

This station interfaces to a DECsystem-10 via modems and a DS10 or DC75 synchronous modem controller to provide remote batch processing. The following equipment permits the station to serve as a remote batch terminal:

PDP-8 Terminal Processor
Teleprinter: ASR33
Card Reader: 300 CPM (CR08/I-F)
Line Printer: 132 Column, 64 Character,
245 LPM* (LP08J)
Modem Interface: Interface to RS232C compatible
full-duplex modems
(Prerequisite is a DS10 or DC75
on a DECsystem-10)

DC71B Remote Batch Station

The difference in equipment from the DC71A station is that the DC71B printer has a larger character set:

132 Column, 96 Character,
173 LPM* (LP08K)

* Maximum hardware performance for 132 character lines. The actual performances is influenced by synchronous line speed, line loading from other devices, and length of printed line.

DC71D Teletype Concentration Package

This package provides for concentration of 8 teletype lines through the DC71 to the DECsystem-10. (Prerequisite: DC71A or DC71B)

DC71E Teletype Concentration Expander Option

This option allows the addition of a second set of 8 teletype lines to the DC71D teletype concentration package for a total of 16 lines. (Prerequisite: DC71D)

Local terminals connected to the DC71 must be hard-wired (up to 1500 feet) and meet the EIA or 20 mA specification. Terminals may operate at 110, 150, 300 or 150/2400 (split speed) Baud. Input Baud rate should be less than or equal to 300 Baud.

EIA terminal operation requires a BC01J-25 cable to terminals such as the Digital Equipment Corporation VT05 or a BC01A-25 cable to 103 modems or the equivalent. Manual data set control must be used.

Modems

A 4800-Baud modem is recommended for the DC71 system, particularly if multiple terminals are to be concentrated using the DC71D and E. Modems (not supplied by Digital Equipment Corporation) should meet the EIA-RS232-C standard and be equivalent to Bell 201 or 203 modems.

DC71 Remote Batch Station Specifications

	DC71 Control Unit		Card Reader	Line Printer
	(PDP-8)	Teleprinter	CR08/I-F	LP08J or LP08K
Voltage Current	115 or 220 VAC	115 or 230 VAC	115 or 230 VAC	117 or 240 VAC
Operating Current	15A @ 115V	2A @ 115V	4A @ 115V	4.5A @ 117V
Surge Current	7.5A @ 220V	1A @ 230V	2A @ 230V	2.3A @ 240V
		8A @ 115V	13A @ 115V	6A @ 117V
		2A @ 230V	6.5A @ 230V	3A @ 240V
Power	780 Watts	110 Watts	470 Watts	500 Watts
Heat	2700 BTU's/hr.	375 BTU's/hr.	1600 BTU's/hr.	1700 BTU's/hr.
Dimension				
Height	71.5 in., 1.8m	45.0 in., 1.2m	13.0 in., 0.33m	46.0 in., 1.16m
Width	43.0 in., 1.0m	22 in., 0.57m	20 in., 0.5m	48.5 in., 1.2m
Depth	30.0 in., 0.76m	19 in., 0.48m	15 in., 0.38m	24.5 in., 0.62m
Weight	400 lb., 182 kg	70 lb., 32 kg	70 lb., 32 kg	575 lb., 260 kg
Operating Temperature	60° to 95° F 15° to 35° C	60° to 95° F 15° to 35° C	60° to 95° F 15° to 35° C	60° to 95° F 15° to 35° C
Storage Temperature	40° to 110° F 5° to 45° C	40° to 110° F 5° to 45° C	40° to 110° F 5° to 45° C	40° to 110° F 5° to 45° C
Relative Humidity	30% to 80%	30% to 80%	30% to 80%	30% to 80%

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