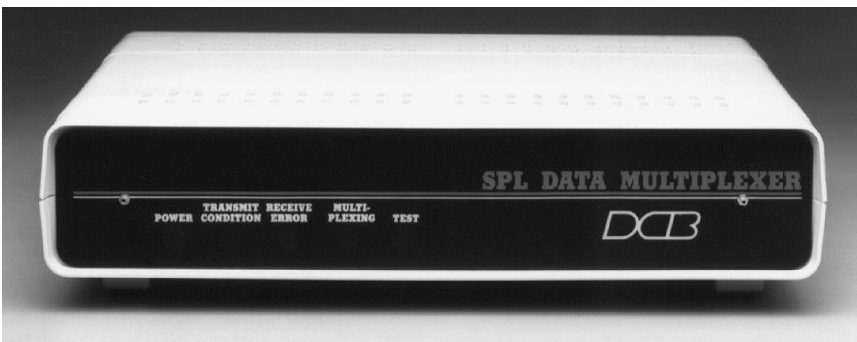




MULTIDROP MUX FIRMWARE CARTRIDGE

Multidrop multiplexing for up to 32 ports and 16 remote sites



FEATURES

- Line speeds to 64 Kbps
- Port speeds 300 to 19,200 bps
- Fast polling protocol
- 8, 16, 24 or 32 host ports
- Up to 16 remote sites
- 2 to 14 ports at remote sites
- Multiple units at a remote sites
- Easy installation
- 56 Kbps has response time equal to point-to-point links
- Acceptable response time over 9600 bps multidrop

DESCRIPTION

The DCB Multidrop Multiplexer Firmware Cartridge is used in the DCB SRX multiplexer at the host site, and in DCB SPL multiplexers at remote sites. Up to 32 total channels can share a single multidrop line for up to 16 remote sites. The DCB multiplexers with the multidrop firmware cartridge installed can run network speeds up to 64 Kbps. The decreasing costs of 56 Kbps multipoint lines make them a very attractive alternative to multiple point-to-point lines. When using a 56 Kbps multidrop line, the DCB multidrop configuration provides the user with a response time equal to point-to-point links.

The DCB SRX multiplexer is used at the host site. Configuration and diagnostic testing are performed through the Network Management Port. Any asynchronous terminal or PC with a serial communications program can be used to access the Network Management Port. All Network Management Port functions are accessed through the DCB easy menu system. Configuration is as simple as choosing a speed, parity, flow control and remote site/port for each host port activated. The DCB SRX is available with 8, 16, 24 or 32 ports.

The DCB SPL multiplexer is used at the remote sites. Ports are configured for speed, parity and flow control. The DCB SPL is available with 2 to 14 ports in 2 port increments. A remote site can have more than 14 ports through the use of multiple SPL multiplexers with a DCB modem sharing unit. Remote units are set to a unique address to identify each remote site separately.

The DCB multidrop protocol is optimized to make user response as fast as possible. The host automatically measures the remote response times and independently sets each site's response timeout to the minimum possible delay. Remote units can respond to polls as soon as recognizing their address instead of waiting for poll completion.

The DCB multidrop multiplexer firmware allows you to take advantage of the significant cost savings of 56 Kbps multidrop lines for your asynchronous terminal applications. This savings can be yours without sacrificing user response time performance.

DCB Multidrop Multiplexer Firmware Cartridge

SPECIFICATIONS

General

Multidrop Asynchronous Statistical Multiplexing

Host: 8, 16, 24 or 32 channels

Drops: 2 to 14 channels each in 2 channel increments

Up to 16 remote drops

Port Specifications

Data Format:

1 Start bit 1 Stop bit 10 bits total

8 Data bits including parity if used

Rates: 300, 1200, 2400, 4800, 9600 & 19,200 bps individually selectable per port

Interface: CCITT V.24, RS-232-D

Buffering: 64K dynamically allocated

Flow Control: Set on an individual port basis

Xon/Xoff Busy High

Transparent Busy Low

Clear to Send

Connectors:

Host: RJ-45 (8-wire)

Drops: DB-25 female

Network Specifications

Rates: Follows modem clock to 64 Kbps synchronous

Interface: CCITT V.24, RS-232-D

Error Correction: Automatic retransmission

Connector:

Host: RJ-45 (8-wire)

Drops: DB-25 male

Cables: Host Network to modem/DSU cable supplied

Operating Modes

Normal on-line Network loopback

Indicators (front panel)

Host: Power, Activity, Line Error, Modem Ready, Option

Drops: Power, Transmit Condition, Receive Error, Multiplexing, Test, Tx/Rx for each port

Controls

Host: Front panel push buttons for Next, INCR, OK, RESET

Drops: Front panel DIP switches for address, port speed & flow control, push button for Reset

Network Management Port

Interface: CCITT V.24, RS-232-D

Connector:

Host: RJ-45 (8-wire)

Drops: DE-9 female

Network Management Port Commands

Show: Map, Configuration, ID, Status

Configure: Map, Port, ID, Timing

Type

Activity

Flow Control

Test Tools: Test message, Remote test loop,

Capture, Copy, Monitor Tx, Monitor Rx

Executive Parity Reset

Set Time

Physical/Electrical

Power Requirements: 120 VAC, 30-43

Watts, .25-.36 Amps

Host 8 or 16 channel; Drop 2, 4 or 6 channel
10¹/₄" x 9³/₄" x 2¹/₄"

Host 24 or 32 channel; Drop 8, 10, 12 or 14 channel:
10¹/₄" x 9³/₄" x 4¹/₂"

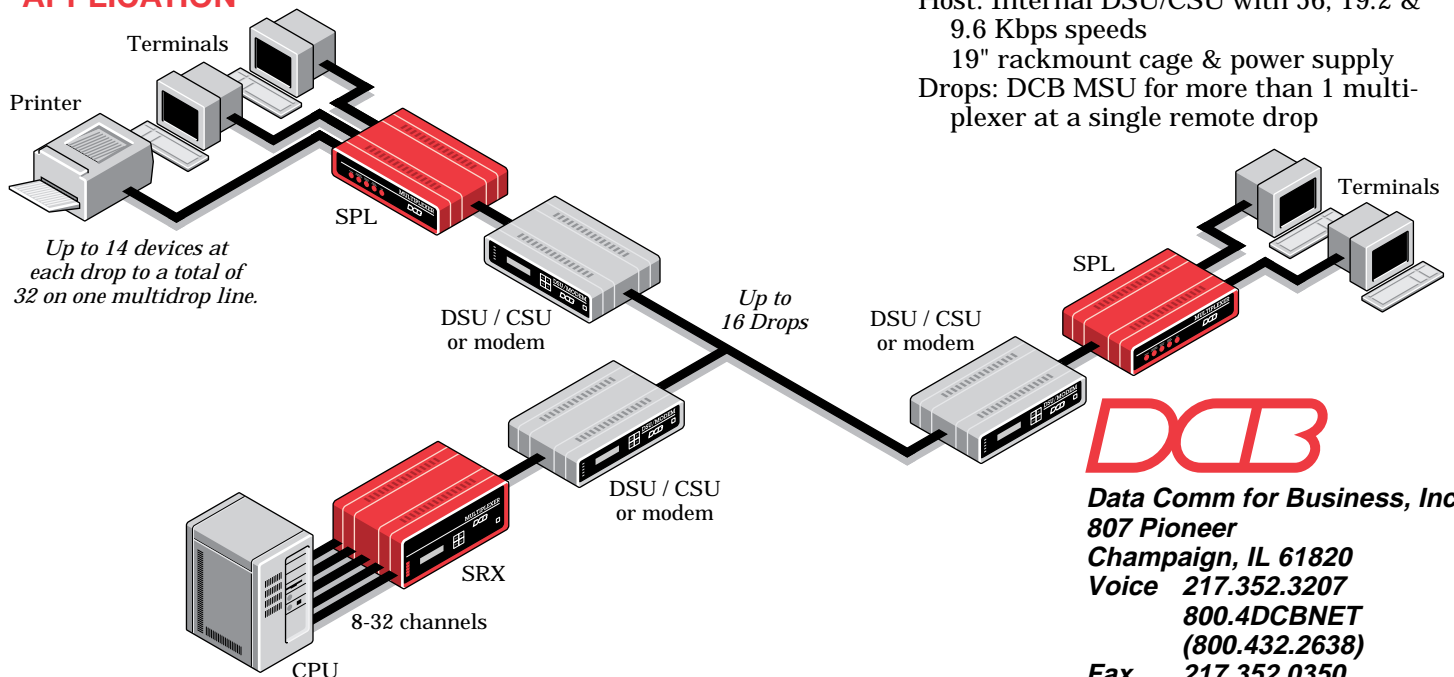
Options

Host: Internal DSU/CSU with 56, 19.2 & 9.6 Kbps speeds

19" rackmount cage & power supply

Drops: DCB MSU for more than 1 multiplexer at a single remote drop

APPLICATION



DCB

Data Comm for Business, Inc.
807 Pioneer
Champaign, IL 61820
Voice 217.352.3207
800.4DCBNET
(800.432.2638)
Fax 217.352.0350
Email info@dcbnet.com