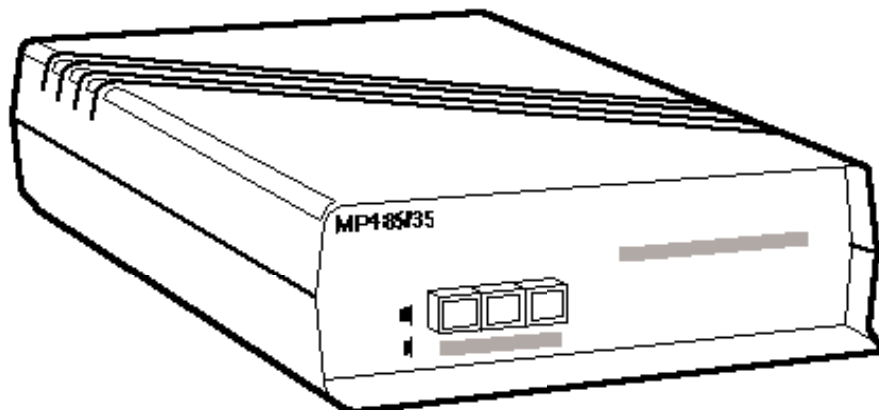




BLACK BOX[®]

NETWORK SERVICES

V.35 Synchronous Multipoint Line Driver



Short-haul sync data communication over your own twisted-pair cable is a breeze with the V.35 Synchronous Multipoint Line Driver.

Key Features

- ▶ Uses your existing twisted-pair cable.
- ▶ Standalone unit or rackmount card available.
- ▶ Point-to-point or multipoint.
- ▶ 2- or 4-wire half-duplex, or 4-wire full-duplex operation.
- ▶ Diagnostic LEDs.
- ▶ Speeds from 1.2 to 256 Kbps.
- ▶ DB25 male to V.35 female adapter included.

The V.35 Synchronous Multipoint Line Driver (MP485/35) gives you short-haul synchronous data transmission over your own twisted-pair cable. The Line Driver is available as a standalone unit or a rackmount card. The rackmount version is functionally identical to the standalone unit. You can install the Card in a rackmount chassis that holds up to 16 cards.

The Line Driver has a V.35 port (configured as DCE) that connects to a host computer or terminal (DTE), and a 4-screw terminal block for RS-485 communication over 2- or 4-wire cable.

The Line Driver operates in two- or four-wire half-duplex mode, or four-wire full-duplex mode. Baud rates are switch-selectable, and range from 2400 to 256,000 bps.

LEDs on the Line Driver's front panel indicate flow control (TX, RX, RTS, and CD) and status (TD, RD, PWR). And three pushbuttons (TST, LLB, DLB) on the front panel select line and digital loopback tests.

Simply set the internal switches or jumpers to determine these characteristics:

- Speed
- Carrier: constant or switched
- Operation: full- or half-duplex
- TX data clock select
- Node termination

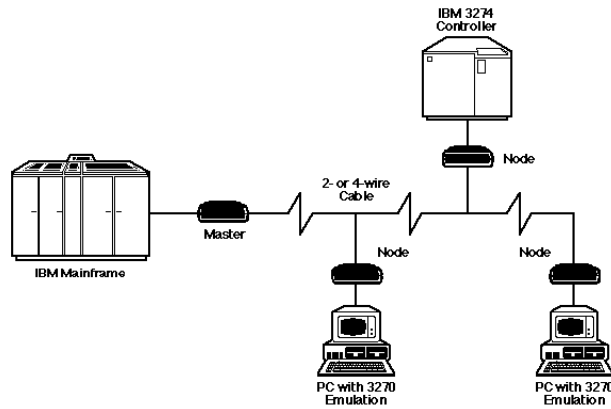
The Line Driver package includes:

- Line Driver (standalone with power supply or card version)
- DB25 to V.35 Adapter
- User's Manual

Typical Application

The Line Driver works in point-to-point or multipoint synchronous applications over two- or four-wire twisted-pair cable.

The diagram at right shows a multipoint application over 2- or 4-wire twisted-pair cable.



Technically Speaking

The Line Driver has diagnostic LEDs, pushbuttons, and DIP switches for easy operation.

- The front panel has LEDs for TD, RD, RTS, CD, and PWR.
- The front panel has pushbuttons for TST, LLB, and DLB.
- The printed circuit board has DIP switch banks S4, S5, S6, and S7 to set baud

rate, transmit data clock, and node termination.

The ten available speeds are: 2.4, 4.8, 9.6, 19.2, 38.4, 56, 64, 112, 128, and 256 Kbps.

Choose from three transmit data clock settings: Internal Clock (factory setting), Recovered Clock, and External Clock.

Select node termination on or off. The default setting is TERM on.

Additional equipment you may need:

- Multifunction Rack (16-Card)
- V.35 Interface Cable
- Unshielded Twisted-Pair Cable

For these and other components...

Call our expert Technical Support Staff for all your LAN needs. They'll help you find the best equipment for your application.

Specifications

Speed — 1.2, 2.4, 4.8, 9.6, 19.2, 38.4, 56, 64, 112, 128, or 256 Kbps

Interface — Terminal: V.35 DCE, Line: EIA RS-485 twisted pair (26 AWG minimum), DC continuity required

Pins Supported — V.35: CTS, DCD, DSR, ETCA, ETCB, FG, RCA, RCB, RDA, RDB, SG, TCA, TCB, TDA, TDB; Terminal Block: RXA, RXB, TXA, TXB

Range —64 Kbps on 24 AWG unshielded twisted-pair

Connectors — (1) DB25 female, (1) screw-terminal block; 6-inch (15.2-cm) DB25 male to 34-pin M-block V.35 female adapter included

Operation — Point-to-point or multipoint

Mode — 2-wire half-duplex, 4-wire full- or half-duplex

Clocking — Internal, external, or recovered

Carrier — Constant or switched

Loopback — None, line, or digital

RTS/CTS Delay — 0, 11, 50, or 160 ms

Indicators — 5 LEDs: TX, RX, RTS, CD, and PWR

Diagnostics — DLB, LLB

Size — Standalone: 4.5 x 13.9 x 21.5 cm; Rackmount Card: 4.7"W x 7.4"D 11.9 x 18.8 cm

Weight — Standalone: 0.5 kg; Standalone unit and transformer: 0.7 kg; Rackmount card: 0.2 kg

Ordering Information

This information will help you place your order quickly.

PRODUCT NAME	ORDER CODE
V.35 Synchronous Multipoint Line Driver (MP485/35)	
Standalone	ME521AE
Rackmount Card	ME521C
Multifunction Rack (16-Card).....	RM005
V.35 Interface Cable.....	EYN450-0010