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NETWORK SERVICES

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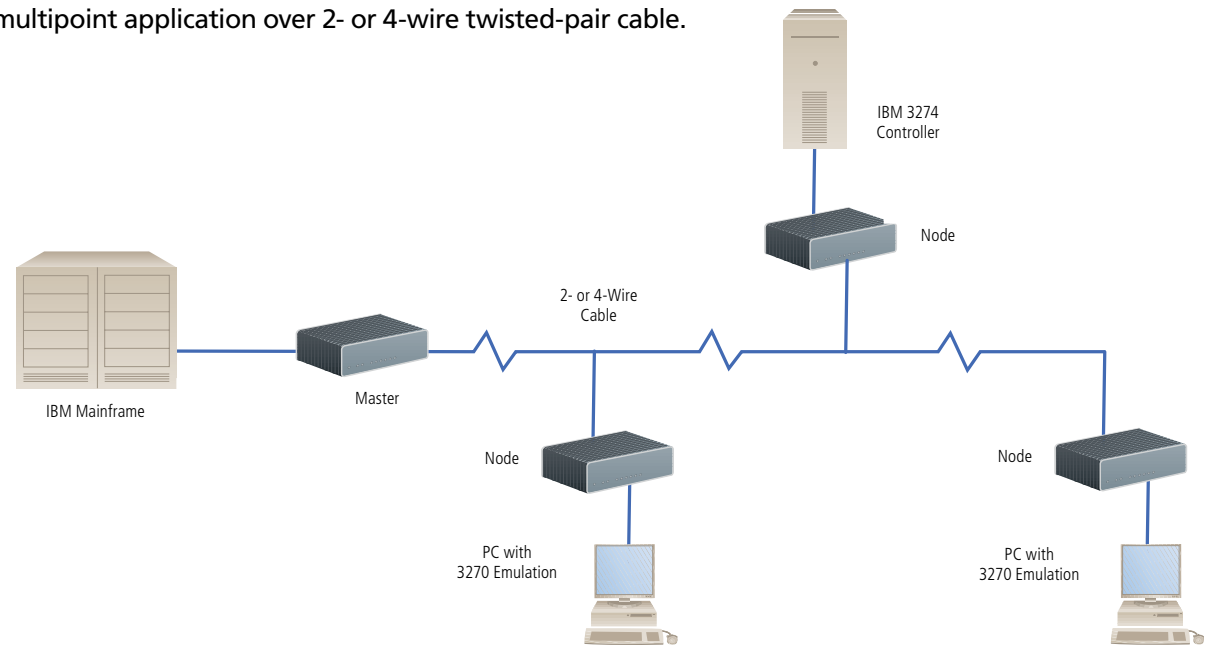**blackbox.com**

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.

A multipoint application over 2- or 4-wire twisted-pair cable.

IBM 3274 Controller

Node

2- or 4-Wire Cable

IBM Mainframe

Master

Node

Node

PC with 3270 Emulation

PC with 3270 Emulation

OVERVIEW

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 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

Typical Application

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

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TECH SPECS

Speed — 1.2, 2.4, 4.8, 9.6, 19.2, 38.4, 56, 64, 112, 128, or 256 kbps
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 — 1 mile at 56/64 kbps on 24 AWG unshielded twisted-pair
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
Diagnostics — DLB, LLB
Interface — Terminal: V.35 DCE, Line: EIA RS-485 twisted pair
   (26 AWG minimum), DC continuity required
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
Indicators — 5 LEDs: TX, RX, RTS, CD, and PWR
Power — Wallmount transformer: 115 VAC, 90 mA or 230 VAC, 45 mA
Size — 1.8"H x 5.5"W x 8.5"D (4.5 x 13.9 x 21.5 cm)
Weight — Unit only: 1 lb. (0.5 kg);
   Unit and transformer: 1.5 lb. (0.7 kg)

ME521A

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 push- buttons 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.

The package includes:

• Line driver (with power supply)
• DB25 to V.35 adapter
• User's manual

Item	Code
V.35 Synchronous Multipoint Line Driver (MP485/35)	
Standalone, 115 VAC	**ME521A**
✦ Includes (1) converter and (1) 6" DB25 M-to-M/34 adapter cable.	
Standalone, 230 VAC	**ME521AE**
NOTE: Must be used in pairs.	
You might also need…	
Multifunction Rack (16-Card)	**RM005**

Why Buy From Black Box? Exceptional Value. Exceptional Tech Support. Period.

Recognize any of these situations?

• You wait more than 30 minutes to get through to a vendor's tech support.
• The so-called "tech" can't help you or gives you the wrong answer.
• You don't have a purchase order number and the tech refuses to help you.
• It's 9 p.m. and you need help, but your vendor's tech support line is closed.

According to a survey by *Data Communications* magazine, 90% of network managers surveyed say that getting the technical support they need is extremely important when choosing a vendor. But even though network managers pay anywhere from 10 to 20% of their overall purchase price for a basic service and support contract, the technical support and service they receive falls far short of their expectations—and certainly isn't worth what they paid.

At Black Box, we guarantee the best value and the best support. You can even consult our Technical Support Experts before you buy if you need help selecting just the right component for your application.

Don't waste time and money—call Black Box today.