



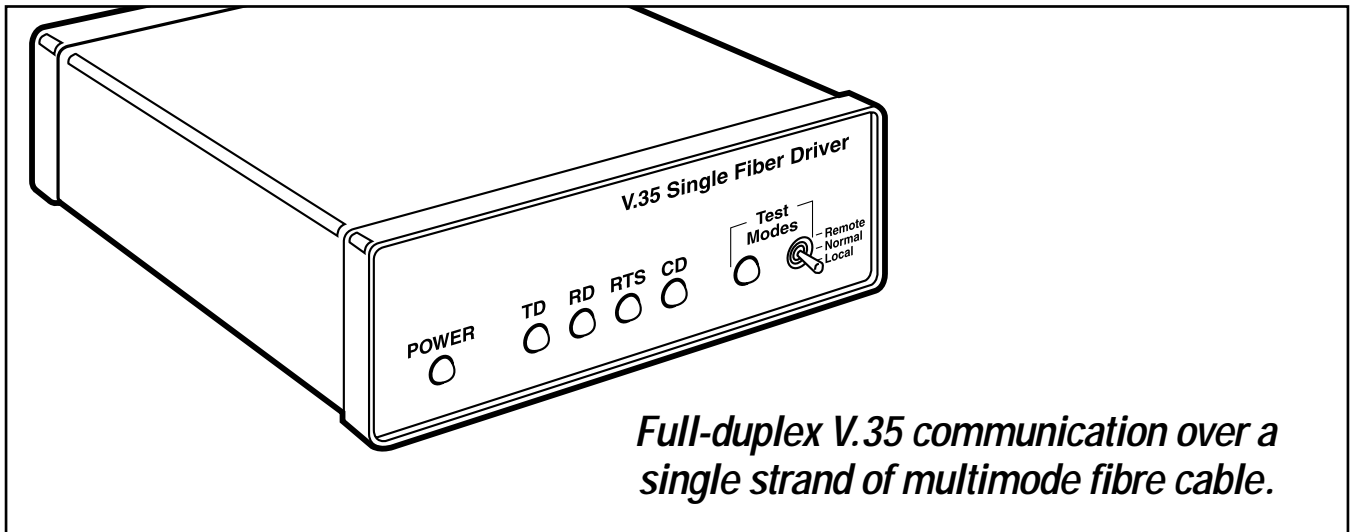
BLACK BOX[®]

NETWORK SERVICES

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V.35 SINGLE-FIBRE DRIVER



Full-duplex V.35 communication over a single strand of multimode fibre cable.

Key Features

- ▶ Lets you easily extend campus V.35 lines.
- ▶ Supports synchronous data rates of up to 256 kbps at a point-to-point distance of 1.5 miles (2.4 km).
- ▶ Performs local and remote loopback tests.
- ▶ Hardware and software flow control.
- ▶ Internal, external, or recovered clocking.
- ▶ Easy DIP-switch configuration.
- ▶ Enables you to reduce cabling costs.

Don't pay for dual-strand fibre optic cable when one is all you need to extend your campus V.35 data communications. The BLACK BOX[®] V.35 Single-Fibre Driver emulates full-duplex V.35 transmission and requires just a single 50- or 62.5- μ m strand of multimode fibre to carry the signal across the link.

Because the driver uses one fibre cable instead of two, it significantly reduces cabling costs, so it's easier to justify using fibre cable instead of twisted-pair cable in point-to-point campus environments.

What's more, fibre cable can save you money two additional ways. Because fibre cable is naturally immune to EMI, RFI, ESD, and other transient sources, you don't need to spend money on surge protection. And because fibre isn't affected by ground potential differences, you don't need to worry about transformer isolation.

The driver supports point-to-point distances of up to 1.5 miles (2.4 km) at a full 256 kbps. This makes it ideal for campus area networks found at universities, military bases, and large corporations.

The driver connects to a variety of synchronous devices with various combinations of clocking requirements, too. Sync timing can be set for internal, external, or recovered clocking. It also supports hardware or software flow control.

Easy-to-reach switches on the compact driver's underside make configuration simple. There's no need to open it to set up operation. Use these eight DIP switches to set data rate (distance), sync clock source, and DTE control of the RDL and LAL test modes.

Once you've configured the DIP switches, you then connect your single fibre cable to the driver's

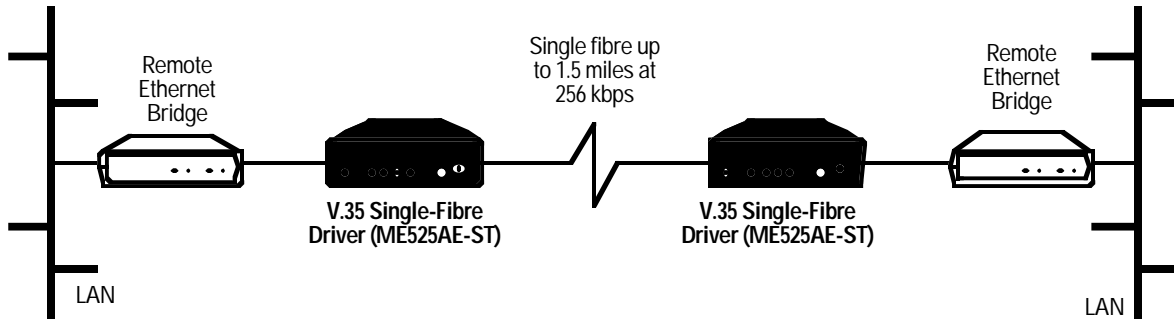
ST[®] connector, hook up the V.35 interface, and plug the included power supply adapter into the driver. After power-up, the driver performs a synchronisation process with the V.35 Single Fibre Driver at the other end of the link. (NOTE: The drivers must be used in pairs.)

Check status with one easy glance at the six front-panel LEDs, which indicate the condition of the unit and communication link.

The V.35 Single-Fiber Driver also enables you to perform local and remote loopback tests, including bit-error-rate tests, to evaluate the condition of the local and remote fiber drivers and the communication link between them.

The driver draws its operating power from an external, wallmount AC adapter, a design that reduces the driver unit's size and enables you to swap power cables easily.

The V.35 Single-Fibre Driver is a trouble-free and cost-effective solution to the problem of extending V.35 communication in a campus environment, such as a university or large corporation.



Specifications

Application: Point to point

Approvals: UL*, CSA, CE, TUV

Clocking: Internal, external, or recovered

Data Rates: 2.4, 9.6, 14.4, 19.2, 28.8, 38.4, 48, 56, 64, 128, 144, 192, and 256 kbps

Diagnostics: Local and remote loopback

Handshaking: Software (X-ON/X-OFF) or hardware (RTS/CTS), both modes available at all times

Range: 1.5 miles (2.4 km) at data rates above 64 kbps and 3 miles (4.8 km) at data rates below 64 kbps

Transmit Mode: Single 62.5- or 50- μ m core, multimode fibre cable

Typical Link Budget: 8 dB with a 50- μ m cable; 12 dB with a 62.5- μ m cable

MTBF: 224,205 hours (about 25.5 years)

Interface: CCITT V.35 (M/34 F) synchronous

Connectors: (1) M/34 F; (1) ST* F

Indicators: (6) LEDs: TD, RD, RTS, CTS, Power, Test

Temperature Tolerance: Operating: 32 to 140°F (0 to 60°C)

Humidity Tolerance: Up to 95%, noncondensing

Power: Wallmount 115 VAC, 60 Hz

Size: 1.5"H x 4.1"W x 5"D (3.8 x 10.4 x 12.7 cm)

Weight: 1 lb. (0.5 kg)

Ordering Information

ITEM	CODE
V.35 Single-Fibre Driver, ST.....	ME525AE-ST
<i>You may also need:</i>	
V.35 Interface Cable (34-Conductor), Straight-Pinned, PVC, Male/Male	EYN450-MM

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

Recognise 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.

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.