BLACK BOX® NETWORK SERVICES

ASYNC/SYNC FIBRE OPTIC MODEM
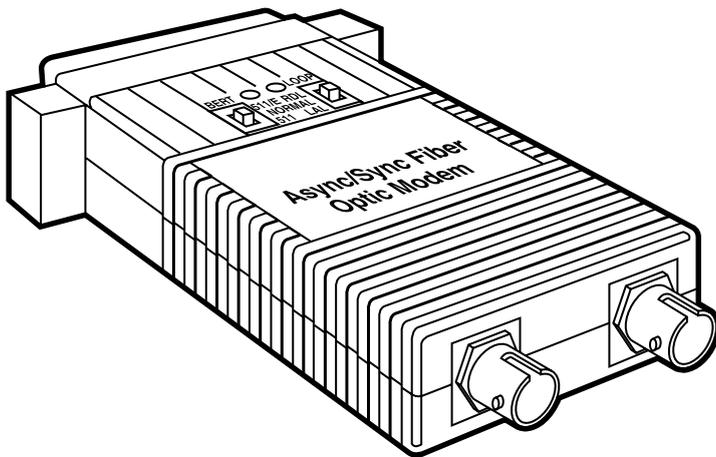
Protect data integrity with a fibre optic link and V.54 diagnostics!

Key Features

▶ *Speeds up to 38.4 kbps.*

▶ *Distances up to 4 miles (6.4 km).*

▶ *V.54 loopback and V.52 BERT pattern generator.*

▶ *Async or sync over fibre optic.*

▶ *Immune to EMI/RFI, ground loops, and surges.*

▶ *Easily accessible diagnostic and configuration switches.*

▶ *Interface powered.*

The Async/Sync Fibre Optic Modem ensures RS-232 communication integrity. Combining the inviolability of fibre with the troubleshooting capabilities of V.52 and V.54 diagnostics, the line driver is the best choice for your most critical RS-232 links.

Besides communication integrity, the Async/Sync Fibre Optic Modem offers substantial flexibility. Supporting distances up to 4 miles (6.4 km) and data rates to 38.4 kbps over two fibres, the line driver operates asynchronously or synchronously, full- or half-duplex, with the carrier options of "Continuously On" or "Controlled by RTS." The line driver draws all necessary operating power from the RS-232 interface and requires no AC power or batteries. While in synchronous mode, the line driver supports three clocking methods: internal, external, and receive loopback.

The line driver plugs directly into a workstation's RS-232 port, and is configured via readily accessible DIP switches. The line driver fits into tight installation spaces. On the RS-232 side, the modem comes equipped with either a male or female DB25 connector. On the fibre side, the modem comes with a choice of SMA or ST® connectors.

The Async/Sync Fibre Optic Modem also features jumper-selectable carrier control and two easy-to-read status indicators.

Typical Application

Connect your workstation to a server PC up to 4 miles (6.4 km) away over continuous fibre optic cable.

ME570A-R2   ME570A-R2

PC   Up to 38.4 kbps   AT®
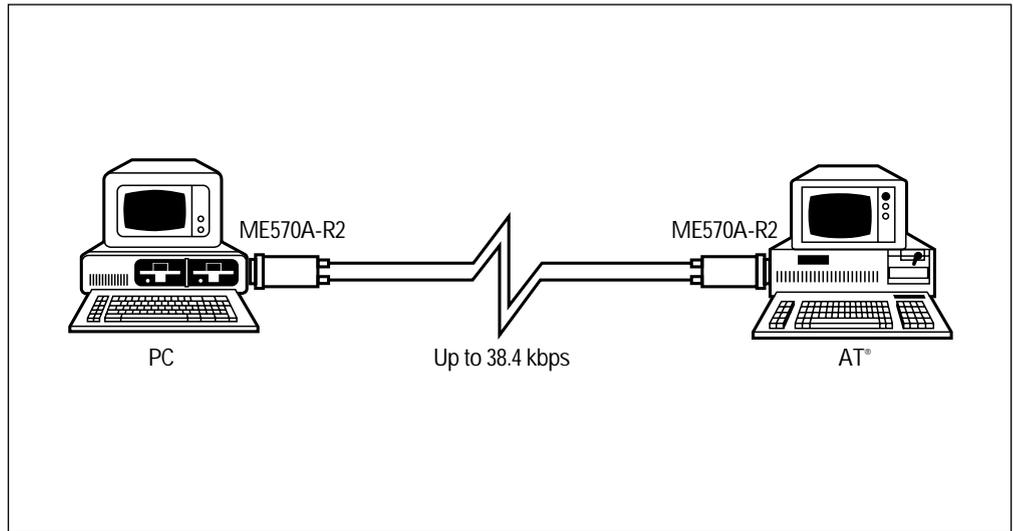
Technically Speaking

The Async/Sync Fibre Optic Modem uses a unique set of 16 external mini DIP switches that enable configuration to a wide range of applications.

These 16 DIP switches are grouped in a pair of 8 switch sets that are externally accessible from the underside of the line driver, so you don't have to open the unit to configure anything.

The configuration switches enable you to select data rates, clocking methods, V.52 and V.54 tests, word lengths, extended signaling rates, and async or sync mode.

Switches S1-1 through S1-8 are set to determine the data rate, transmit clock source, async or sync mode, and carrier control method.

Switches S2-1 through S2-8 set word length, extended signaling rate, RTS/CTS delay, and V.52 and V.54 diagnostic tests.

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

Recognise 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 tech support they need is extremely important when choosing a vendor. But even though network managers pay 10 to 20% of their overall purchase price for a basic service and support contract, what they get falls short of expectations— and isn't worth what they paid.

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

Specifications

Transmission Line: Dual optical cable

Operation: Async or sync, half- or full-duplex

Interface: RS-232

Speed (Maximum): 38.4 kbps

Distance (Maximum): 4 mi. (6.4 km) over continuous fibre

RTS/CTS Delay: Switch selectable: No delay, 9 ms, 79.5 ms

Receiver Sensitivity: 45 dBm

Coupled Power Output: -30 to -36 dBm

Operating Wavelength: 850 nm

Indicators: (2) LEDs: Carrier Detect, Fiber Optic Output

Connectors: (1) DB25 M or F (DCE), (1) pair ST or SMA

Power: No external power required; uses power from RS-232 data and control signals; 8 VDC from Pins 4, 9, or 20

Operating Environment:
Altitude (Maximum): 15,000 ft. (4572 m); Humidity: Up to 95% noncondensing; Temperature: 32 to 140°F (0 to 60°C)

Size:
Standalone: 0.8"H x 1.8"W x 2.5"D (2 x 4.6 x 6.4 cm); Rackmount Card: 3.1"H x 1"W x 5.4"D (7.9 x 2.5 x 13.7 cm)

Weight: 0.1 lb. (0.05 kg)

Ordering Information

ITEM	CODE
Async/Sync Fibre Optic Modem	
Standalone	
ST® DB25 Male	ME570A-MST-R2
DB25 Female	ME570A-FST-R2
SMA DB25 Male	ME570A-MSM-R2
DB25 Female	ME570A-FSM-R2
Rackmount Card	
ST HD DB26 Female	ME570C-ST-R2
SMA HD DB26 Female	ME570C-SM-R2
For optimum performance and a 20% savings, order…	
HD DB26 to DB25 Male Cable	EHN088-0006
HD DB26 to DB25 Female Cable	EHN089-0006