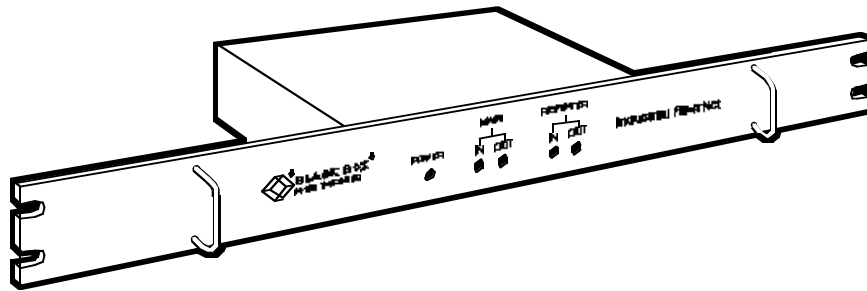




BLACK BOX[®]

NETWORK SERVICES

Industrial FibreNet



*Fibreoptic reliability
for your industrial
network.*

Technically Speaking

Send RS-422 2- and 4-wire data over fibreoptic cable with the Industrial FibreNet. This bi-directional data converter changes standard RS-422, or RS-485 signals into

light pulses for high-speed transmission, via fibreoptic cable, between asynchronous RS-422, or RS-485 devices.

Active signal regeneration lets you expand the network to an infinite number of nodes by avoiding the distortion

typical of repeater circuits. Each character received is analysed by a microprocessor and then regenerated with full fidelity.

To connect your network, either link two Industrial FibreNets together, or keep adding FibreNets to form a ring. When three or more FibreNets are attached, the first one is called the "Master." Every FibreNet after that is a Slave. Add as many Slaves to the ring as you want, as long as the last slave connects to the Master's Repeater port.

And you're covered in case of fibre failure. The Master FibreNet constantly tests the integrity of the ring by detecting the data coming into its Repeater port. If a failure occurs in the ring, the Master will start transmitting into both the Main and Repeater ports, driving the signal in both directions. It continues to test the ring's integrity, and when the ring has healed, the Master will revert to normal configuration.

Specifications

Protocol — Asynchronous

Data Rates — 300 to 115,200 bps (user-selectable)

User Controls — (3) 8-position DIP switches; Jumpers: W5, W6, W7, W8, W9, W10, and W11 (W1 through W4 are for factory use)

Connectors — (1) DB9F, (4) ST[®] type optical fiber

Indicators — (5) LEDs: Power, Main In, Main Out, Repeater In, Repeater Out

Interface — Optical fiber interface, EIA RS-422/485

Compliance — FCC Part 15 Class A; Power supplies PS112 and PS112E: UL[®], CSA

Mean Time Between Failures — 100,000 hours

Operating Temperature — 0 to 40°C

Storage Temperature — 0 to 70°C

Relative Humidity Tolerance — 10 to 95%, noncondensing

Maximum Altitude Tolerance — 15,000 feet (4570 m)

Size — 4.6 x 48.3 x 16.5 cm

Weight — 0.7 kg

For these and other components...

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

Ordering Information

This information will help you place your order quickly.

PRODUCT NAME

ORDER CODE

Industrial FibreNet

230 VACME300AE

24 VDCME300A-D24