Single or Dual Fiber Ethernet Data System
10Base-T, 100Base-TX, 1000Base-SX, or 1000Base-LX

45-FX/ML
47-SX/LX
SERIES
MULTIMODE

FEATURES:

- Complete Fiber Optic to Twisted Pair Media Interface
- Diagnostics: UTP Activity, UTP Link, Fiber Activity, and Fiber Link
- 10/100 Mb/s, Full/Half Duplex (45 Series)
- 1000 Mb/s (47 Series)
- MDI / MDIX Switch (45 Series)
- Auto MDI / MDIX Detection (47 Series)
- One and Two Fiber Versions Available

SPECIFICATIONS:

Ethernet Data:

Data Rate:
- 45 Series ..... 10/100 Mb/s
- 47 Series ..... 1000 Mb/s

Data Connector RJ45

Optical:

Wavelength:
- 45-FX Series ..... 1310 nm
- 45-ML Series ..... 1310/1550 nm
- 47-SX Series ..... 850 nm
- 47-LX Series (Dual Fiber) ..... 1310 nm
- 47-LX Series (One Fiber) ..... 1310/1550 nm

Maximum Distance (Per IEEE802.3):
- 45 Series (Half Duplex) ..... 412 m
- 45 Series (Full Duplex) ..... 2 Km
- 47-SX Series (50/125u) ..... 550 m
- 47-SX Series (62.5/125u) ..... 220 m
- 47-LX Series ..... 550 m

Loss Budget (62.5/125µ):
- 45 Series ..... 11 dB
- 47-SX Series ..... 7 dB
- 47-LX Series ..... 10 dB

Connector ..... SC
- ST connector optional on 45-FX Series

Temperature (Operating)

-20°C to +70°C, non-condensing

Power Supply:

Module - 12 VDC (AFI Part #: PS-12D)
- Power Consumption ..... 5 Watts

Rack Card (See AFI Part #: SR-20D/2)
- Power Consumption ..... 6 Watts

Size:

Module - 4¼" x 4¼" x 1⅛"
Rack Card - 6½" x 1" x 5"

Example: MX-45-FX-ST to MX-45-FX-ST
Example: MX-45-FX-ST to RX-45-FX-ST
Example: MT-45-ML-SC to RR-45-ML-SC
Example: MX-47-SX to MX-47-SX
Example: MX-47-LX to RX-47-LX
Example: MTX-47-LX to RRX-47-LX

The American Fibertek 45-FX Series and 45-ML Series transmit 10Base-T or 100Base-TX Ethernet data over multimode optical fiber. The 47-SX Series transmits 1000Base-SX Ethernet data and the 47-LX Series transmits 1000Base-LX data. The system is comprised of two transceivers forming a point-to-point link and requires no field adjustments at installation or additional maintenance thereafter. The system is designed to be completely transparent with auto negotiate features. The 45 Series provides a MDI/MDIX crossover switch while the 47 Series incorporates auto negotiate MDI/MDIX operation. Diagnostic indicators provide a quick visual indication of system status.

The 45 and 47 Series may be ordered as stand alone modules or rack cards that are mounted in the SR-20D/2 or SR-20R/1 American Fibertek Card Cages.

ORDERING INFORMATION (Dual Fiber Units):
MX-45-FX-ST = 10/100 Mb/s Module Transceiver with ST Connectors
RX-45-FX-ST = 10/100 Mb/s Rack Card Transceiver with ST Connectors
MX-45-FX-SC = 10/100 Mb/s Module Transceiver with SC Connectors
RX-45-FX-SC = 10/100 Mb/s Rack Card Transceiver with SC Connectors

MX-47-SX = 1000 Mb/s Module Transceiver with SC Connectors
RX-47-SX = 1000 Mb/s Rack Card Transceiver with SC Connectors

MX-47-LX = 1000 Mb/s Module Transceiver with SC Connectors
RX-47-LX = 1000 Mb/s Rack Card Transceiver with SC Connectors

ORDERING INFORMATION (Single Fiber Units, all with SC Connectors):
Note: One end of link must have 1310 nm TX, the other end 1550 nm TX
MT-45-ML-SC = 10/100 Mb/s Module Transceiver 1310 nm TX/ 1550 nm RX
RT-45-ML-SC = 10/100 Mb/s Rack Card Transceiver 1310 nm TX/ 1550 nm RX
MR-45-ML-SC = 10/100 Mb/s Module Transceiver 1550 nm TX/ 1310 nm RX
RR-45-ML-SC = 10/100 Mb/s Rack Card Transceiver 1550 nm TX/ 1310 nm RX

MTX-47-LX = 1000 Mb/s Module Transceiver 1310 nm TX/ 1550 nm RX
RTX-47-LX = 1000 Mb/s Rack Card Transceiver 1310 nm TX/ 1550 nm RX
MRX-47-LX = 1000 Mb/s Module Transceiver 1550 nm TX/ 1310 nm RX
RRX-47-LX = 1000 Mb/s Rack Card Transceiver 1550 nm TX/ 1310 nm RX

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