



45 Series
100Base-TX
10Base-T
Ethernet

10Base-T 100Base-TX Ethernet Data System

FEATURES:

- ◆ Complete Fiber Optic to Twisted Pair Media Interface
- ◆ Jumper Selectable Auto Negotiate, 10/100 Mbs, Full/Half Duplex
- ◆ Low Latency 10 Mbs Path
- ◆ MDI / MDIX Switch
- ◆ Link / Speed and Activity Indicators for UTP and Fiber Ports
- ◆ One (WDM) and Two Fiber Versions Available
- ◆ Singlemode and Multimode Fiber Versions Available
- ◆ Hot Swappable

SPECIFICATIONS:

ETHERNET:

Data Rate:

Auto negotiated 10/100 Mbs
 Distance (Per IEEE802.3)
 Fiber..... Half Duplex/Full Duplex
 Multimode..... 412m/2Km
 Singlemode..... 412m/3Km
 Connector.....RJ45

OPTICAL:

Wavelength:

Two Fiber 1310 nm
 One Fiber 1310/1550 nm

Source:

Multimode Two FiberLED
 Multimode One Fiber..... Laser
 Singlemode..... Laser
 Loss Budget>11 dB
 Connector.....SC or ST

POWER:

Voltage12 VDC
 Current < 250mA
 Connector.....2 Pin Terminal Block

PHYSICAL:

Temperature-20 to 70 °C
 Humidity 5 to 95 %

Size:

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



The American Fibertek 45 Series transmits and receives 10Base-T or 100Base-TX over optical fiber. The system is comprised of two transceivers forming a point-to-point communications link. The system is designed to be completely transparent with auto negotiate features. For ease of installation an MDI/MDIX crossover switch is provided. Diagnostic indicators provide a quick visual indication of system status. Equipment may be ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cages: SR-20/1, SR-20/2 or SR-20R/1.

ORDERING INFORMATION:

MX-45-FX-SC = Two Fiber Module Multimode SC Connectors
 RX-45-FX-SC = Two Fiber Rack Card Multimode SC Connectors

MX-45-FX-ST = Two Fiber Module Multimode ST Connectors
 RX-45-FX-ST = Two Fiber Rack Card Multimode ST Connectors

MT-45-ML-SC = One Fiber Module Multimode SC Connectors 1310 nm Tx
 MR-45-ML-SC = One Fiber Module Multimode SC Connectors 1550 nm Tx
 RT-45-ML-SC = One Fiber Rack Card Multimode SC Connectors 1310 nm Tx
 RR-45-ML-SC = One Fiber Rack Card Multimode SC Connectors 1550 nm Tx

MT-45-SL-SC = One Fiber Module Singlemode SC Connector 1310 nm Tx
 MR-45-SL-SC = One Fiber Module Singlemode SC Connector 1550 nm Tx
 RT-45-SL-SC = One Fiber Rack Card Singlemode SC Connector 1310 nm Tx
 RR-45-SL-SC = One Fiber Rack Card Singlemode SC Connector 1550 nm Tx

Other fiber, connector and wavelength combinations are available. Please consult the factory for details.