

## 10/100Base-T to 100Base-FX Mini Ethernet Media Converter

### FEATURES:

- ◆ Complete Fiber Optic to Twisted Pair Media Interface
- ◆ Auto MDI / MDIX Detection
- ◆ Link and Activity Indicators for UTP and Fiber Ports
- ◆ 1 Fiber and 2 Fiber Versions
- ◆ Multimode and Singlemode Versions
- ◆ Dual Speed Copper Port
- ◆ 12 VDC or 24 VAC Power Inputs
- ◆ Full IEEE 802.3 compatibility

### SPECIFICATIONS:

#### ETHERNET:

Data Rate:

Auto negotiated ..... 10/100 Mb/s

Connector ..... RJ45

#### OPTICAL:

##### Multimode 1 fiber:

Wavelength ..... 1310/1550 nm

Maximum Distance(62/125um)..... 2 km

Loss Budget ..... 21 dB

Connector ..... SC, ST

##### Multimode 2 fiber:

Wavelength ..... 1310 nm

Maximum Distance(62/125um)..... 2 km

Loss Budget ..... 14 dB

Connector ..... SC, ST

##### Singlemode 1 fiber:

Wavelength ..... 1310/1550 nm

Maximum Distance(9/125um)..... 20 km

Loss Budget ..... 19 dB

Connector ..... SC, ST

##### Singlemode 2 fiber:

Wavelength ..... 1310 nm

Maximum Distance(9/125um)..... 20 km

Loss Budget ..... 21 dB

Connector ..... SC, ST

#### POWER:

Voltage ..... 12 VDC or 24VAC

Current ..... < 500 mA

Connector ..... 2 Pin Terminal Block

Power Supply:

Module: ..... 12 VDC

Rack Mount ..(10 units per rack) 12 VDC

#### PHYSICAL:

Temperature ..... -20°C to 60°C

Humidity ..... 5 % to 95 %

Module Size ..... 4<sup>5</sup>/<sub>8</sub>" x 1<sup>1</sup>/<sub>2</sub>" x 1"

Rack Size ..... 19" x 4<sup>5</sup>/<sub>8</sub>" x 1<sup>3</sup>/<sub>4</sub>"

(10 units per rack)

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The American Fibertek MTX1M-FX and MRX1M-FX Series transmits and receives 10/100 Base-TX Ethernet signals at the RJ45 port and 100 Base-FX at the optical port over one or two, multimode or singlemode, fibers. The system is comprised of two units (MTX1M to MRX1M) forming a point-to-point communications link.

The system is designed to be completely transparent with auto negotiation features which automatically configure the units for the correct speed (10/100BaseTX). Auto MDI/MDIX operation eliminates the potential need for crossover cables. Diagnostic indicators provide a quick visual indication of Link, Activity, and Speed status.

A rack mounting tray with power supply is available for mounting up to 10 modules.

#### ORDERING INFORMATION:

MTX1M-FX-SC(or ST)	Single Fiber Module FX mini Multimode SC/ST Connectors
MRX1M-FX-SC(or ST)	Single Fiber Module FX mini Multimode SC/ST Connectors
MX1M-FX-SC(or ST)	Two Fiber Module FX mini Multimode SC/ST Connectors
MX1M-FX-SC(or ST)	Two Fiber Module FX mini Multimode SC/ST Connectors

MTX1M-FX-SL-SC(or ST)	Single Fiber Module FX mini Singlemode SC/ST Connectors
MRX1M-FX-SL-SC(or ST)	Single Fiber Module FX mini Singlemode SC/ST Connectors
MX1M-FX-SL-SC(or ST)	Two Fiber Module FX mini Singlemode SC/ST Connectors
MX1M-FX-SL-SC(or ST)	Two Fiber Module FX mini Singlemode SC/ST Connectors