

## 10/100 Base-TX to 100 Base-FX Ethernet Media Converter with PoE

### FEATURES:

- ◆ Complete Fiber Optic to Twisted Pair Media Interface
- ◆ Auto MDI / MDIX Detection
- ◆ Auto Negotiate 10/100 Port
- ◆ Link and Activity Indicators for UTP and Fiber Ports
- ◆ Singlemode and Multimode Fiber Versions Available
- ◆ Power Over Ethernet

### SPECIFICATIONS:

#### Ethernet:

Data Rate

Auto negotiated ..... 10/100 Mb/s  
Connector ..... RJ45  
PoE (RJ45 port)..... 802.3af

#### Optical:

One Fiber..... 1310/1550 nm  
Two Fiber..... 1310 nm  
Source:  
Multimode Two Fiber ..... LED  
Multimode One Fiber..... Laser  
Distance  
FX 62/125u ..... 2 km  
Loss Budget ..... 11 dB  
Connector ..... SC, ST

#### Power:

Voltage ..... 48 VDC  
Current..... 200 mA  
Connector ..... 2 Pin Terminal Block

#### Recommended Power Supply:

48VDC @ 30W (Sold separately)

#### Environmental:

Temperature ..... -40°C to +75°C  
Humidity..... 5 % to 95 %

#### Size:

Module..... 4 1/4" x 4 1/4" x 1 1/8"



The American Fibertek 46-PoE-290 Series transmits and receives copper 10/100 Base-TX Ethernet signals at the RJ45 port and an optical 100 Base-FX over 1 or 2 multimode fibers. The system is comprised of two units forming a point-to-point communications link.

The 46-PoE-290 Series sources power to devices from the RJ45 port over the copper connection. The RJ45 port may be used to deliver 802.3af (15 watts) to devices. An external power supply is required for the PoE module (ordered separately).

The system is designed to be completely transparent with auto negotiation features which automatically configures the unit for the correct speed (10/100 Base-TX).

Auto MDI/MDIX operation eliminates the potential need for crossover cables. Diagnostic indicators provide a quick visual indication of system status.

#### ORDERING INFORMATION:

MTX-46-FX-SC-PoE-290	One Fiber Transmitter FX Multimode SC Connector
MTX-46-FX-ST-PoE-290	One Fiber Transmitter FX Multimode ST Connector
MX-46-FX-SC-PoE-290	Two Fiber FX Multimode SC Connector
MX-46-FX-ST-PoE-290	Two Fiber FX Multimode ST Connector

#### POWER SUPPLY:

PS-48D	Universal Input to 48V 30W Output 0 to 50°C
PS-4830	Universal Input to 48V 30W Output -40 to 75°C

The PoE module is typically used only at the system edge (to power the camera etc.). The mating unit would then be the non PoE version of the product which is available in module or rack card packages.