



**48-PoE+  
SERIES  
MULTIMODE**

# 10/100/1000Base-T to 1000Base-LX Ethernet Media Converter / 3 Port Switch with PoE+

**FEATURES:**

- ◆ Complete Fiber Optic to Twisted Pair Media Interface
- ◆ Auto MDI / MDIX Detection
- ◆ Auto Negotiate 10/100/1000 Ports
- ◆ Link and Activity Indicators for UTP and Fiber Ports
- ◆ Singlemode and Multimode Fiber Versions Available
- ◆ Power Over Ethernet on Both Ports

**SPECIFICATIONS:**

**Ethernet:**

Data Rate  
Auto negotiated ... 10/100/1000 Mb/s  
Connector .....RJ45  
PoE (2 RJ45 ports)..... 802.3af  
PoE (2 RJ45 ports)..... 802.3at

**Optical:**

One Fiber..... 1310/1550 nm  
Two Fiber  
-SX..... 850 nm  
-LX..... 1310 nm  
Distance/Loss Budget  
SX  
-62/125u ..... 220 m  
-Loss Budget .....7 dB  
LX  
-62/125u ..... 550 m  
-Loss Budget ..... 10 dB  
Connector ..... SC, ST

**Power:**

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

**Recommended Power Supply:**

48VDC @ 60W (Sold separately)

**Environmental:**

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

**Size:**

Module..... 4¼" x 4¼" x 1⅛"



The American Fibertek 48-PoE+ Series transmits and receives (2) copper 10/100/1000 Base-T Ethernet signals at the RJ45 ports and (1) optical 1000 Base-X over 1 or 2 multimode fibers. The system is comprised of two units forming a point-to-point communications link.

The Series 48-PoE+ Series sources power to devices from the RJ45 ports over the copper connection. Both RJ45 ports may be used to deliver low power 802.3af (15 watts) or 802.3at (30 watts) to PD powered devices. An external power supply is required.

The system is designed to be completely transparent with auto negotiation features which automatically configures the unit for the correct speed (10/100/1000 Base-T).

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

**ORDERING INFORMATION:**

- MTX-48-BB-AA-PoE+ One Fiber Module Transmitter (LX or SX) Connector (SC or ST)
- MTX-48-BB-AA-PoE+ One Fiber Module Transmitter (LX or SX) Connector (SC or ST)
- MX-48-BB-AA-PoE+ Two Fiber Module (LX or SX) Connector (SC or ST)
- MX-48-BB-AA-PoE+ Two Fiber Module (LX or SX) Connector (SC or ST)

Replace AA with ST or SC to specify the desired optical connector  
Replace BB with LX or SX to specify the short or long haul (distance)

**POWER SUPPLY:**

PS-4860 Universal Input to 48V 60W 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.

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