



**46SL-PoE+  
SERIES  
SINGLEMODE**

# 10/100/1000BASE-T to 100 Base-FX 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 port) ..... 802.3at

**Optical:**

One Fiber ..... 1310/1550 nm  
Two Fiber ..... 1310 nm  
Source ..... Laser  
Distance  
FX 9/125u ..... 20 km  
Loss Budget ..... 20 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 1 "



The American Fibertek 46SL-PoE+ Series transmits and receives (2) copper 10/100/1000BASE-T Ethernet signals at the RJ45 ports and (1) optical 100 Base-FX over 1 or 2 singlemode fibers. The system is comprised of two units forming a point-to-point communications link.

The 46SL-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 feature which automatically configures the unit for the correct speed (10/100/1000BASE-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-46-FX-SL-SC-PoE+ One Fiber Module Transmitter FX Singlemode SC Connector
- MTX-46-FX-SL-ST-PoE+ One Fiber Module Transmitter FX Singlemode ST Connector
- MX-46-FX-SL-SC-PoE+ Two Fiber Module FX Singlemode SC Connector
- MX-46-FX-SL-ST-PoE+ Two Fiber Module FX Singlemode ST Connector

**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.

7/26/18 JPM