

## (4) 10/100Base-TX & (2) 1000Base-X SFP Ethernet 6 Port Switch with PoE/PoE+

### FEATURES:

- ◆ Complete Fiber Optic to Twisted Pair Media Interface
- ◆ Auto MDI / MDIX Detection
- ◆ Link and Activity Indicators for UTP and Fiber Ports
- ◆ SFP Optical and Copper Plug-ins Available
- ◆ 10/100Base-TX Speed On Copper Ports
- ◆ Power Over Ethernet on All Ports

### SPECIFICATIONS:

#### Ethernet:

Data Rate  
Auto negotiated ..... 10/100 Mb/s  
Connector ..... RJ45  
PoE (4 RJ45 ports)..... 802.3af 15 Watts  
PoE+ (4 RJ45 ports) ..... 802.3at 30 Watts

#### Optical:

Two Fiber  
-SX..... 850 nm  
-LX ..... 1310 nm  
-ZX..... 1550 nm  
Distance/Loss Budget  
SX  
-62/125u ..... 220 m  
-Loss Budget ..... 7 dB  
LX  
-62/125u ..... 550 m  
-Loss Budget ..... 10 dB  
-9/125u ..... 5 km  
-Loss Budget ..... 12 dB  
ZX  
-9/125u ..... 70 km  
-Loss Budget ..... 23 dB  
Connector ..... Dual LC

#### Power:

Voltage ..... 48-52 VDC  
Current (no external PD load) ..... 100 mA  
Connector ..... 2 Pin Terminal Block

#### Environmental:

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

#### Size:

Module ..... 7<sup>5</sup>/<sub>8</sub>"x 5<sup>1</sup>/<sub>2</sub>"x 1<sup>1</sup>/<sub>8</sub>"

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The American Fibertek MX-6p-PoE Series transmits and receives (4) copper 10/100 Base-TX Ethernet signals at the RJ45 ports and (2) optical 1000 Base-X over 1 or 2 optical fibers. The system is comprised of two or more units forming a communications link.

The Series MX-6p-PoE Series also sources power to devices from the RJ45 ports over the copper connection. All 4 RJ45 ports may be used to deliver dc power (802.3af 15 watts) or (802.3at 30 watts) to PD devices.

The MX-6p-PoE is targeted for applications where the customer has 48 volts available (such as in security monitoring of solar farms). An external 48 volt power supply, provided by the customer, needs to provide the required watts for the application. The recommended watts for 4 ports of 802.3af and 802.3at is 60 watts and 120 watts respectively.

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:

MX-6p-PoE 6 Port, Module  
Power Supply not included. Contact AFI for products which include a power supply.

### RECOMMENDED POWER SUPPLIES:

PS-48D ..... 30 Watts 0 to 50°C  
PS-4830 ..... 30 Watts -40 to 75°C  
PS-4860 ..... 60 Watts -40 to 75°C  
PS-48120 ..... 120 Watts -40 to 75°C