afi

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 (1 RJ45 port) 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

Power Supply:
Module: 48VDC @ 60W
AFI Part #: PS-48V-60W
(Sold separately)

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

Size:
Module .... 4¼" x 4¼" x 1⅛"

9/26/12JPM

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) to devices. A single RJ45 port is used to deliver high power 802.3at (30 watts) to a single device. An external PS-48V-60W power supply is required for the PoE module.

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)

PS-48V-60W   48 Volt 60 Watt Power Supply

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.