



**48-PoE-HP  
SERIES  
MULTIMODE**

# 10/100/1000Base-T to 1000Base-LX Ethernet Media Converter / 3 Port Switch with 60W PoE

“Approved for AXIS Q6032-E PTZ Dome Network Camera”

**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 (60 Watts) Over Ethernet on 1 Port
- ◆ Two RJ45 Data Ports Available
- ◆ Extended Temperature Range

**SPECIFICATIONS:**

**Ethernet:**

Data Rate  
Auto negotiated..... 10/100/1000 Mb/s  
Connector ..... RJ45  
PoE (1 port) .....60 Watts

**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-1  
(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"  
9/26/12JPM



The American Fibertek 48-PoE-HP Series transmits and receives (2) copper 10/100 Base-T Ethernet signals at the RJ45 ports and (1) 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 48-PoE-HP Series also sources up to 60 Watts of power to an Ethernet powered device (PD) from one RJ45 port. The power is carried over all 4 pairs of the Ethernet cable. However, it is required that the PD have independent discovery and classification interfaces for both the data pair and the spare pair of the Ethernet cable.

Both RJ45 ports may be used to deliver Ethernet data to devices. An external PS-48V-60W-1 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-HP One Fiber Module TX (LX or SX) Connector (SC or ST)
- MTX-48-BB-AA-PoE-HP One Fiber Module TX (LX or SX) Connector (SC or ST)
- MX-48-BB-AA-PoE-HP Two Fiber Module (LX or SX) Connector (SC or ST)
- MX-48-BB-AA-PoE-HP 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-1 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.