



**49-PoE+
SERIES
MULTIMODE**

**(2) 10/100/1000Base-T & (2) 1000Base-SX/LX Ethernet
4 Port Switch / Drop & Repeat Transceiver with PoE+**

FEATURES:

- ◆ Complete Fiber Optic to Twisted Pair Media Interface
- ◆ Drop and Repeat Capability
- ◆ 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

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

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 4¼" x 4¼" x 1½"



The American Fibertek 49-PoE+ Series transmits and receives (2) copper 10/100/1000 Base-T Ethernet signals at the RJ45 ports and (2) optical 1000 Base-X over 1 or 2 multimode fibers. The system is comprised of two or more units forming a communications link.

The 48SL-PoE+ Series also 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. A single RJ45 port is used to deliver high power 802.3at (30 watts) to a single device. 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:

MX-49-SX-SC-PoE+	Two Fiber/Port, Module SX Multimode SC Connector
MX-49-LX-SC-PoE+	Two Fiber/Port, Module LX Multimode SC Connector
MX-49-LX-1F-SC-PoE+	One Fiber/Port, Module LX Multimode SC Connector
MX-49-SX-ST-PoE+	Two Fiber/Port, Module SX Multimode ST Connector
MX-49-LX-ST-PoE+	Two Fiber/Port, Module LX Multimode ST Connector
MX-49-LX-1F-ST-PoE+	One Fiber/Port, Module LX Multimode ST Connector

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.

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