

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

### FEATURES:

- ◆ Complete Fiber Optic to Twisted Pair Media Interface
- ◆ Drop and Repeat Capability
- ◆ Auto MDI / MDIX Detection
- ◆ Link and Activity Indicators for UTP and Fiber Ports
- ◆ Singlemode and Multimode Fiber Versions Available
- ◆ Triple Speed Copper Ports

### SPECIFICATIONS:

#### Ethernet:

Data Rate  
Auto negotiated..... 10/100/1000 Mb/s  
Connector ..... RJ45

#### 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..... 12 VDC  
Current..... < 500 mA  
Connector .....2 Pin Terminal Block

#### Power Supply:

Module:12VDC(AFI Part #: PS-12D+)

#### Environmental:

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

#### Size:

Module.....4¼" x 4¼" x 1⅛"



The American Fibertek 49 Series transmits and receives (2) copper 10/100/1000 BaseT 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 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	Two Fiber/Port , Module SX Multimode SC Connector
MX-49-LX-SC	Two Fiber/Port, Module LX Multimode SC Connector
MX-49-LX-1F-SC	One Fiber/Port, Module LX Multimode SC Connector
MX-49-SX-ST	Two Fiber/Port, Module SX Multimode ST Connector
MX-49-LX-ST	Two Fiber/Port, Module LX Multimode ST Connector
MX-49-LX-1F-ST	One Fiber/Port, Module LX Multimode ST Connector

## 10/100/1000Base-T to 1000Base-SX/LX Ethernet Media Converter / 4 Port Switch

### FEATURES:

- ◆ Complete Fiber Optic to Twisted Pair Media Interface
- ◆ Auto MDI / MDIX Detection
- ◆ Auto Negotiate
- ◆ 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

#### 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 Supply:

Rack Card: ..... (AFI Part #: SR-20/2)

#### Environmental:

Temperature ..... -40 °C to +75 °C

Humidity ..... 5 % to 95 %

#### Size:

Rack Card One Slot.....6½" x 1" x 5"

### ORDERING INFORMATION:

RX-49-SX-AA Two Fiber Per Port Rackcard SX

RX-49-LX-AA Two Fiber Per Port Rackcard LX

RRX-49-LX-AA One Fiber Per Port Rackcard LX

Replace AA with ST or SC to specify the desired optical connector



The American Fibertek Series RX-49 transmits and receives (2) copper 10/100/1000 BaseT Ethernet signals at the RJ45 ports and (2) optical 1000 BaseX at the fiber ports. Both single fiber and dual fiber versions of the optics are available.

A single rackcard unit is capable of connecting up to (2) Series MX/MTX-48 (see separate datasheet) modules which provides the benefit of reducing the number of rackcards and corresponding subrack space and power supplies.

The system is designed to be completely transparent with auto negotiation features which automatically configures the unit for the correct speed (10/100/1000 BaseT). Auto MDI/MDIX operation eliminates the potential need for crossover cables. Diagnostic indicators provide a quick visual indication of system status.

Equipment may be ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cage: SR-20/2

