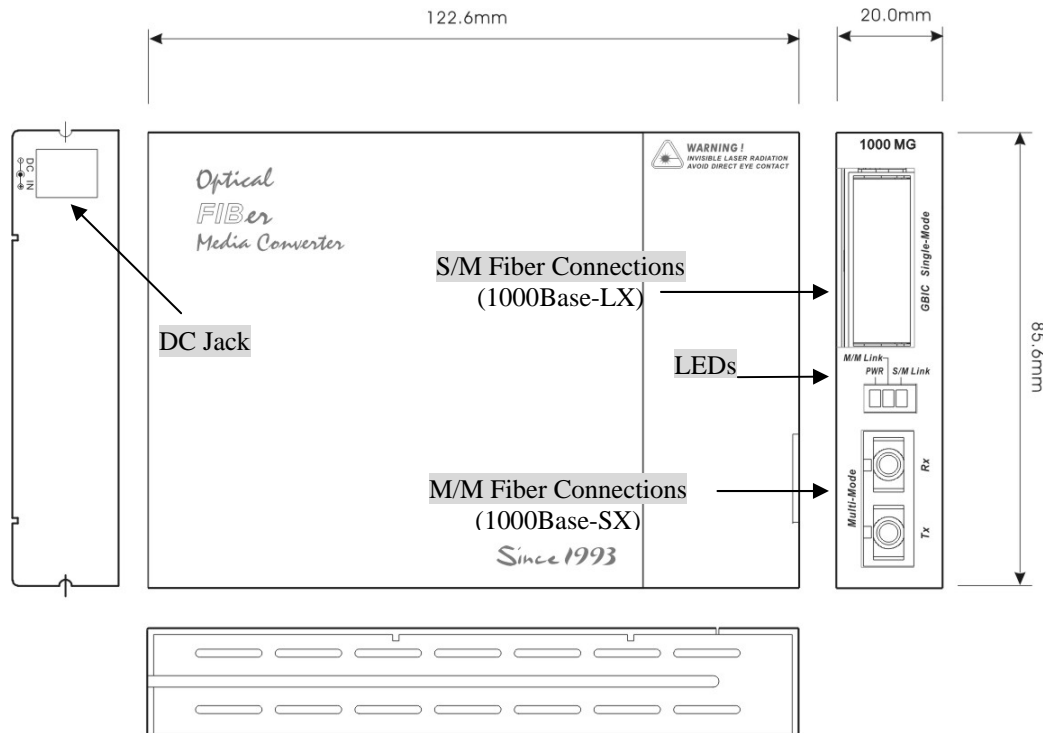


Installation Instructions for FIB1-1000MG Gigabit Series Single Mode to Multi-mode 1000BASE-SX / 1000BASE-LX Fiber Transceiver Media Converters

Description

The **FIB1-1000MG** single-mode to multi-mode fiber converter gives you the most popular gigabit multi-mode connectors, SC or LC.

The **FIB1-1000MG-GBIC** matches the industry standard GBIC module interface with a standard gigabit multi-mode SC transceiver. Three LED indicators linking status of single mode, multi-mode and the power status of the converter.



Specifications

Standard

Fiber IEEE802.3z 1000Base-SX/LX, Gigabit Standards
Supports Full Duplex Ethernet mode (2000Mbps)

Fiber Optic Connectors

Depending on model, a fixed SC or LC, GBIC socket with SC, or SFP socket with LC is provided

Environment

Temperature 0°C - 50°C (operating)

0°C - 70°C (storage)

Humidity 20-80% non condensing (operating)

10-90% (storage)

Dimensions

122.6mm x 85.6mm x 20mm

(L x W x H)

Power

AC Input : 90~264VAC

Frequency : 47~63 Hz

Output : DC12V +/- 5%, 1A

Consumption : <4W

Weight

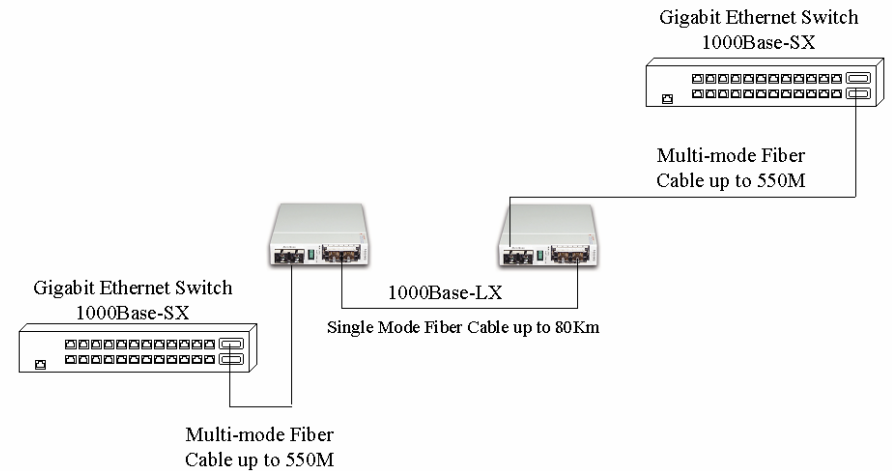
340g (110z)

Installation

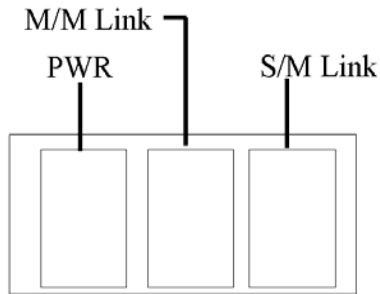
Connect the fiber interface cable to the FIB1-1000MS. Follow the connection examples below. Install the fiber converter with the DC power adapter provided (+12VDC) and connect the adapter to an AC outlet.

Connections

The following example illustrates the fiber connection scheme when connecting from a 1000BASE-SX port of one Gigabit Ethernet Switch port to a 1000BASE-SX port of another switch through a pair of fiber converters and single mode fiber cable.



LED Indicators



GBIC Module Type Led Indications

| LED | Function | State | Status |
|------------------------------|-----------------|-----------|--|
| PWR | Power indicator | On Off | Converter has power. Converter has no power. |
| M/M Link Multimode Link | mode display | On Off | The multi-mode link is ok No link or the link is faulty |
| S/M Link Single mode Link | mode display | On Off | The multi-mode link is ok No link or the link is faulty |

Transceiver Connector Specification

| | SC | | LC | | GBIC SC | |
|----------------------|---------|-------------|---------|-------------|---------|-------------|
| | Power | Sensitivity | Power | Sensitivity | Power | Sensitivity |
| M/M, 850nm, 550M | -9.5dBm | -18dBm | -9.5dBm | -18dBm | X | |
| S/M, 1310nm, 10Km | X | | X | | -9.5dBm | -20dBm |
| S/M, 1550nm, 30Km | X | | X | | -4dBm | -22dBm |
| S/M, 1550nm, 50Km | X | | X | | -4dBm | -23dBm |
| S/M, 1550nm, 80Km | X | | X | | -0dBm | -23dBm |

TRADEMARKS

Ethernet is a registered trademark of Xerox Corp.
ST[®] is a registered trademark of AT&T.

WARNING:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual may cause harmful interference in which case the user will be required to correct the interference at his own expense. NOTICE: (1) The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. (2) Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.

CISPR PUB.22 Class A COMPLIANCE:

This device complies with EMC directive of the European Community and meets or exceeds the following technical standard. EN 55022 - Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment. This device complies with CISPR Class A.

WARNING:

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

CE NOTICE

Marking by the symbol CE indicates compliance of this equipment to the EMC directive of the European Community. Such marking is indicative that this equipment meets or exceeds the following technical standards: EN 55022:1994/A1:1995/A2:1997 Class A and EN61000-3-2:1995, EN61000-3-3:1995 and EN50082-1:1997