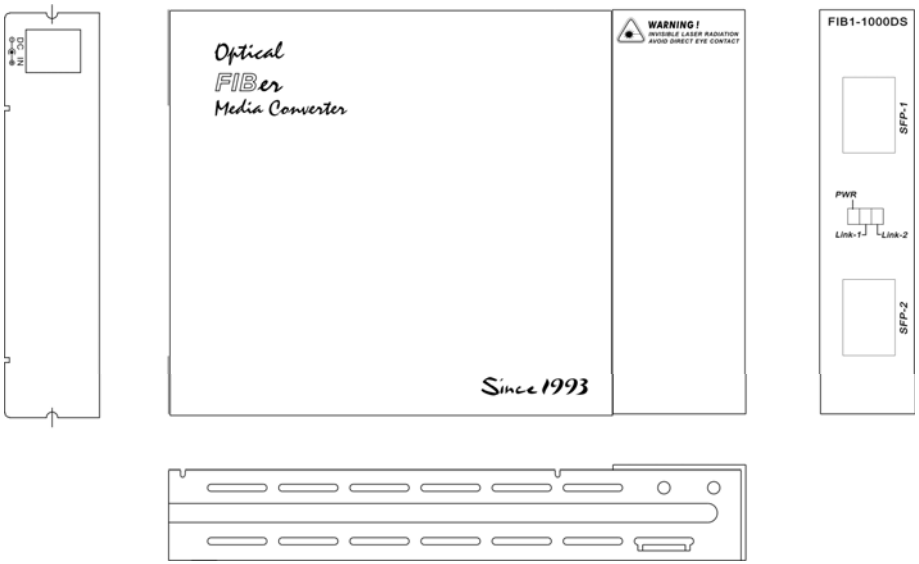
Installation Instructions for
FIB1-1000DS Series
Fiber Media Converter and Repeater

Description

The ***FIB1-1000DS*** is a fiber optical media converter and repeater that allows data rates up to 1.25Gbps. FIB1-1000DS supports 2R regeneration, which consists of re-amplification and re-shaping. This converter is compatible with fiber interfaces such as Fast and Gigabit Ethernet, FDDI, STM-1, STM-4, OC1, OC3, OC12, OC24, and 1G Fiber Channel.



Features :

* Compatible with FRM301 Chassis for SNMP Management
* Multi-rate support from 100Mbps to 1.25Gbps
* Performs optical repeater function (Re-amplification and re-shaping)
* Extend Fiber Optic distance up to 2km (Multi-mode)
* Extend Fiber Optic distance up to 120km (Single-mode)

-Specifications

Application

Converts MM to MM, MM to SM, SM to SM, Copper to MM, Copper to SM

Fiber Optic Connectors

SFP socket with LC Connector

Environment

Temperature 0℃ - 50℃ (operating)
0℃ - 70℃ (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

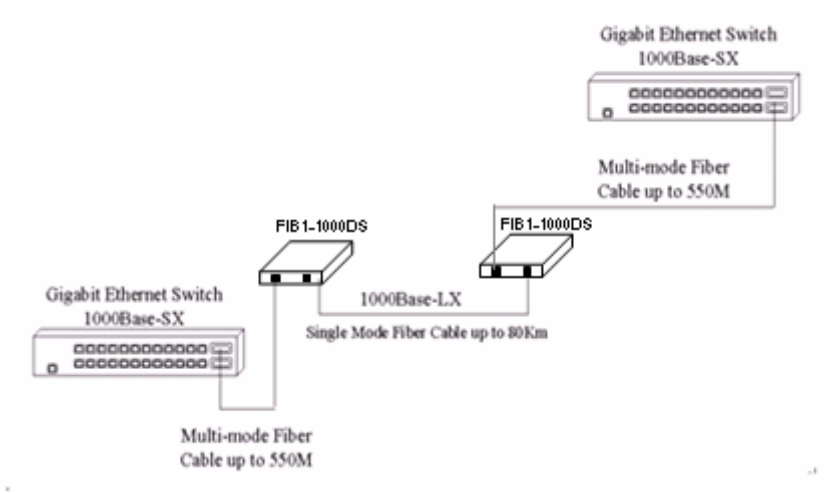
340g (110z)

Installation

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

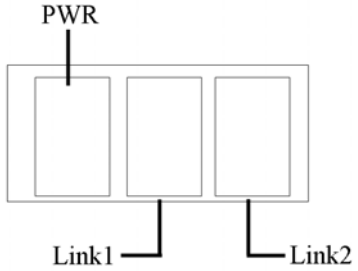
Connections

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.



V.1.0

LED Indicators



Function Description

LED	Function	State	Status
PWR	Power indicator	On	Converter has power.
		Off	Converter has no power.
Link-1 SFP-1 Link	Fiber Link 1	On	The SFP-1 link is ok
		Off	No link or the link is faulty
Link-2 SFP-2 Link	Fiber Link 2	On	The SFP-2 link is ok
		Off	No link or the link is faulty

SFP Transceiver Connector Specification

Model Name	Function Description
SFM-5000-L31	155M , MM, 2km 1310nm 12dB 3.3V, LC
SFS-5030-L31	155M, SM, 30km, 1310nm, 16dB, 3.3V, LC
SFS-5050-L31	155M, SM, 50km, 1310nm, 29dB, 3.3V, LC
SFS-5100-Z55	155M, SM, 100km, 1550nm, 30dB, 3.3V, LC, DFB
SFS-5120-Z55	155M, SM, 120km, 1550nm, 35dB, 3.3V, LC, DFB
SFM-7000-S85	1.25G, MM, 550m, 850nm, 8.5dB, 3.3V, LC
SFM-7000-L31	1.25G, MM, 2km, 1310nm, 10dB, 3.3V, LC
SFS-7010-L31	1.25G, SM, 10km, 1310nm, 12dB, 3.3V, LC
SFS-7040-L31	1.25G, SM, 40km, 1310nm, 20dB, 3.3V, LC
SFS-7050-X55	1.25G, SM, 50km, 1550nm, 20dB, 3.3V, LC, DFB
SFS-7080-Z55	1.25G, SM, 80km, 1550nm, 24dB, 3.3V, LC, DFB
SFS-7120-Z55	1.25G, SM, 120km, 1550nm, 30dB, 3.3V, LC, DFB
SFT-7000-R45	UTP, 100m, 3.3V, RJ45

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 expressively 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