Datasheet

Gigabit Multimode Extender

Features

- Gigabit Ethernet transmission over FDDI-graded multi-mode fiber
- Guaranteed distance up to 2 km (up to 6 km under ideal conditions)
- SNMP management
- Hot-swap support
- Compatiblity with all appropriate protocol standards
- Fiber Driver chassis compatibility
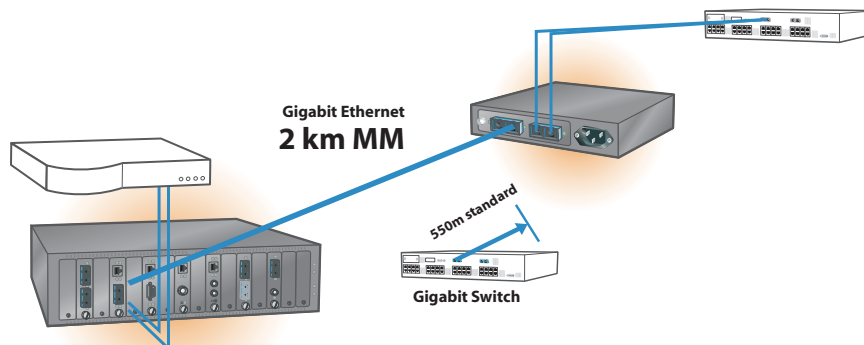- Link Integrity Notification (LIN) support

Overview

The unique Fiber Driver® Gigabit Multimode Extender technology allows transmission of high-speed signals over multi-mode fibers to distances much longer than the standard. This module allows the use of high-speed backbone protocols over fiber that was originally used for FDDI.

Fiber optic cables for FDDI applications were typically installed in 2 km increments, the maximum distance for FDDI and Fast Ethernet on multi-mode fiber. Multi-mode extender modules can use these long optical fibers with Gigabit Ethernet as well.

The Fiber Driver Gigabit Multimode Extender module is interoperable with all standard Gigabit Ethernet equipment. It carries Gigabit Ethernet data on existing multi-mode fiber (FDDI grade) to specified distances up to 2 km. Depending on the quality of the fiber, much longer links are possible.

For additional information including pricing and availability, contact your MRV Communications sales representative and visit the MRV website.

Gigabit Ethernet
2 km MM

550m standard

Gigabit Switch

Physical Specifications

Operating Temperature Range	0°C to 50°C (32°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Relative Humidity	85% maximum, non-condensing
Physical Dimensions	25 mm x 75 mm x 175 mm deep (1" x 3" x 7" deep)
Weight	Approximately 145 g (5.1 oz)
Regulatory Compliance	FCC Part 15 (Class A); IC (Class A); EMC Directive: Emission (Class A) and Immunity;
	RoHS Directive; China RoHS; WEEE Directive

Ordering Information

Model	Function	Protocol Port / Link	Connectors[1] Port/Link	Min. Budget Loss (dB)	Guaranteed Range[2] (km)
EM316G/MX	Gigabit Ethernet SX to Extended Multi-mode	Gigabit Ethernet	DSC/DSC	DL[3]	0 - 2

[1] Default connectors are listed, other connectors are optional.
[2] Distances are approximate and assume 62.5µ MM fiber.
[3] DL= Dispersion Limited

MRV has more than 50 offices throughout the world. Addresses, phone numbers, and fax numbers are listed at www.mrv.com.
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