

Datasheet

SFP Multimode Extenders

SFP-G-MMX and SFP-GD-MMX



Overview

The Fiber Driver® SFP Multimode Extender from MRV increases the reach of Gigabit Ethernet and Fibre Channel data links to distances far beyond the defined standard. Pioneered by MRV Communications, this award-winning technology allows multi-mode (MM) fiber previously used for FDDI, Fast Ethernet, and other legacy protocols to support high-speed communication backbones. The performance and reliability of the Multimode Extender (MMX) technology has been proven in installations throughout the world since first appearing in the Fiber Driver Gigabit Multimode Extender module.

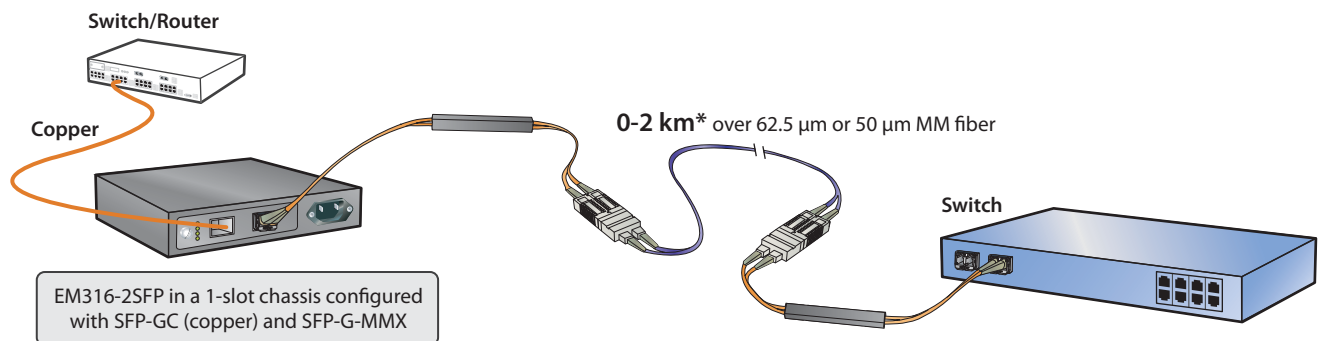
Typically, Gigabit Ethernet and Fibre Channel transmissions distances over multi-mode fiber are limited to 550 meters, far shorter than the 2-kilometer standard for multi-mode FDDI or Fast Ethernet. This limitation forces network managers to abandon existing multi-mode fibers and install single-mode fibers for greater link ranges with Gigabit-speed support. MMX technology, available exclusively in the Fiber Driver product line, gives network administrators another option.

Highlights

- Gigabit Ethernet (IEEE 802.3) or Fibre Channel (ANSI X3.230-1994) multi-mode links up to 2 km* over 62.5µm (OM1) and 50µm (OM2) dual fiber
- SFP MSA SFF-8074i compliance
- Bellcore GR-468 complianc
- Multi-mode DSC adapter
- Plug-n-play, hot-swappable functionality
- Low EMI metal enclosure
- Digital Diagnostics (SFP-GD-MMX only)

Benefits

- Protects investment in existing multi-mode fiber plant while providing a clear migration path to gigabit-speed protocols
- Avoids the cost, complications, and lead times associated with the installation of new fiber
- Seamlessly integrates into existing infrastructure



* 2 km maximum range depends upon grade and condition of fiber plant used.

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Used in pairs or in combination with other MMX-enabled Fiber Driver products, the Fiber Driver SFP Multimode Extenders carry Gigabit-speed protocols on existing 62.5 μm or 50 μm multi-mode fiber plant to 2 km, or as far as 4 km depending on the grade and condition of the fiber media. The modules support all standard SFP interfaces, use plug-and-play functionality, and are hot-swappable.

The MMX technology used in the Fiber Driver SFP Multimode Extender brings new life to existing multi-mode fiber. It allows great increases in network capacity while avoiding the cost, complications, and lead times associated with installing new fiber. It provides a clear migration path to Gigabit-speed protocols while amplifying the investment in existing fiber.

Small Form-Factor Pluggable (SFP) transceivers from MRV Communications provide the high speeds and physical compactness that networks require today while delivering the deployment flexibility and inventory control that network administrators demand.

These SFPs are designed to Multi-Source Agreement (MSA) standards to ensure broad network equipment compatibility. They are a perfect match for the MRV Communications line of Fiber Driver® pluggable media modules and chassis, the OptiSwitch® line of routers and switches, and any other communication equipment supporting SFPs. Together, Fiber Driver devices create the ultimate managed fiber infrastructures.

Ordering Information

Model	Description	Protocol	Wavelength (nm)	Saturation Power (dBm)	Supply Voltage (V)	Operating Temp. Range (°C)	Fiber Lead Length (cm)	Distance Range (km)
SFP-G-MMX	SFP Extended Multi-Mode, RoHS Compliant	GbE / FC	1310	0	3.3	0 to 70	30.5	0 - 2*
SFP-GD-MMX	SFP Extended Multi-Mode with Digital Diagnostics, RoHS Compliant	GbE / FC	1310	0	3.3	0 to 70	30.5	0 - 2*

*2 km maximum range depends upon grade and condition of fiber plant used.

For more information, contact your nearest authorized MRV Communications dealer and visit our website at <http://www.mrv.com>.

MRV has more than 50 offices throughout the world. Addresses, phone numbers and fax numbers are listed at www.mrv.com. Please e-mail us at info@mrv.com or call us for assistance.

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