Datasheet

FD

XFP-to-XFP Gigabit Repeater

Features

○ Provides XFP-to-XFP interface connectivity

○ Supports multiple data rates from 9.95 to 11.08 Gbps

○ Delivers Greater flexibility and scalability
   - Add/Change optics and adjust data rates as needed
   - Maintain single item inventory

○ Supports Link Integrity Notification (LIN)

○ Includes support for XFP specific features:
   - Digital Diagnostics
   - XFP loopback and line loopback
   - Analog hardware monitoring

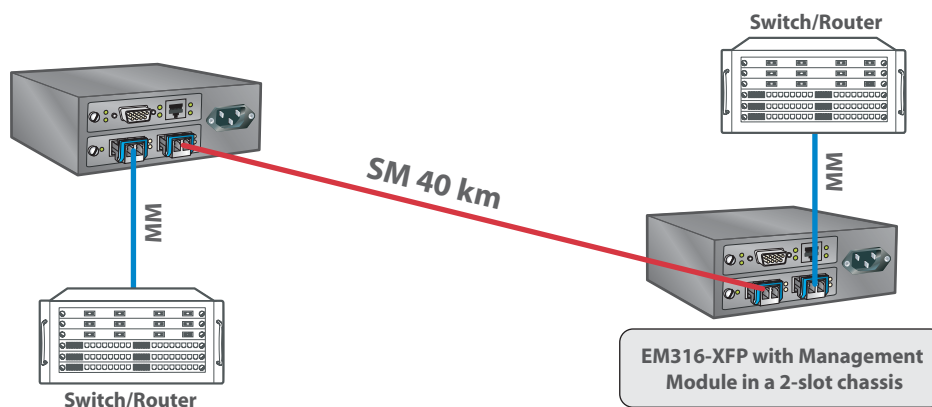○ Hot-swappable - both module and interfaces

○ SNMP managed

Overview

The Fiber Driver® XFP-to-XFP media module (EM316-2XFP) from MRV Communications combines ultra high-speed protocol support with the flexibility of XFP transceivers. It supports SONET OC-192, 10 Gigabit Ethernet, 10 Gbps Fiber Channel, SONET OC-192 over FEC, and G.709. The EM316-2XFP enables the implementation of an extremely wide range of optical infrastructure solutions from media conversion and signal repeating to lambda conversion, and Wave Division Multiplexing (WDM).

The product is ideal for enterprise use because it provides a low cost alternative to more expensive XFP transport solutions. It is also applicable for large telco/carries since the module can transport very large amonts of data to distances of up to 40 km.

Typical Application: *Multimode to Singlemode Conversion*

Switch/Router

SM 40 km

MM

MM

EM316-XFP with Management Module in a 2-slot chassis

Switch/Router

The EM316-2XFP is a compact, hot-swappable one-slot module having two (2) available XFP interface ports. Installation and setup is plug-n-play easy. Simply place the module into any supporting Fiber Driver chassis, insert the XFP transceivers required for the protocol and distance of the application, and then connect to the network.

Changing the connection type only requires changing the hot-swappable XFP transceivers. Because the transceivers are portable they can be used again and again, maximizing the return on investment (ROI). Together, the EM316-2XFP module and XFP transceivers greatly reduce the need for on-hand parts inventory.

The EM316-2XFP fully supports the XFP MSA standard including Digital Diagnostics. Through the Fiber Driver Network Management Module (EM316NM), the EM316-2XFP is SNMP manageable and fully supported through the graphical user interface (GUI) of MegaVision Web®, MRV Communications' comprehensive Network Management System (NMS). It monitors XFP status, provides real-time access to wavelength and FEC control, determines hardware configuration, and provides vendor specific information.

For additional information on this or any of the full line of MRV Communications products, including pricing and availability, contact your nearest authorized MRV representative.

Physical Specifications:

Operating Temperature Range* (AC):	0°C to 50°C (32°F to 122°F)
Operating Temperature Range* (DC):	0°C to 70°C (32°F to 158°F)
Storage Temperature:	-10°C to 60°C (-14°F to 140°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 213 g (7.5 oz)
Emission Compliance:	FCC - PART 15, SUBPART B, 1999, CLASS A; CE MARK - EN 50081-1:1992;
	EN 50082:1997; EN 55024:1998; EN 55022:1998; AS/NZS 3548:1995

*Operating Range listed is for the module only. Operating Range of pluggable interface(s) used may differ.

	Part Number	Description	Data Rate	Connectors	Wavelength	Budget	Range
Ordering Info	**EM316-2XFP**	10 Gig Transponder, based on dual XFP pluggable optics	Data rate independent, protocol transparent from 9.95 to 11.08 Gbps	XFP (x2)	N/A (transceiver dependent)	N/A (transceiver dependent)	N/A (transceiver dependent)

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 **sales@mrv.com** or call us for assistance.