

Datasheet

SFP Media Connect



Overview

The Fiber Driver SFP Media Connect chassis (NC316-2SFP16) from MRV Communications combines protocol transparent connectivity with support for Small Form Factor Pluggable (SFP) optical transceivers. With its high-density form factor, a single unit can manage up to 16 separate data channels (32 data ports) in just 1 U of rack space.

The design of the NC316-2SFP16 enables the implementation of a wide range of optical infrastructure solutions from media conversion and signal boosting to lambda conversion and Wave Division Multiplexing (WDM), all within a fully managed platform.

Creating a data connection with the SFP Media Connect is plug-n-play easy. Two SFP transceivers are simply inserted into a set of paired slots in the chassis and then connected to the network. There is no additional setup required. Changing the connection type later on only requires changing the SFP transceivers. And with the hot swappable functionality SFP transceivers there is virtually no down time involved.

Because SFP transceivers are portable they can easily be used again at different locations for different applications, thus maximizing the investment in optics and equipment, and reducing the need for on-hand parts inventory. MRV Communications provides a complete range of optical and copper plug-in interfaces for the SFP Media Connect.

The Fiber Driver SFP Media Connect automatically and transparently handles data connections with rates from 100 Mbps to 2.7 Gbps (100 MHz to 2.7 GHz) while performing 2R (reshape and retransmit) signal conditioning. It is compatible with Fast and Gigabit Ethernet, FDDI, ESCON, SONET (OC-3, OC-12, OC-48 and OC-48 with FEC), Fibre Channel (1 Gbps & 2 Gbps), Serial Digital Video Interface (SDI) SMPTE-269 and SMPTE-292, DVB, HDTV (1.5 Gbps), and any other protocol within the range.

Features

- Utilizes Small Form Factor Pluggable (SFP) optical transceivers
- Data rate independent from 100 Mbps to 2.7 Gbps
- High-density form factor
- 32 data ports / 16 data channels in 1 U of rack space
- Performs 2R signal conditioning
- Supports SFP digital diagnostics as per SFF-8472
- Wide range of applications
- SNMP manageable, MegaVision Web supported

Benefits

- Ultimate in flexibility and scalability
 - Add/Change optics and adjust data rates as needed
 - Maintain single item inventory
- MRV Communications provides a complete range of optical and copper plug-in interfaces
 - Solutions for multiple standard wavelengths (850 nm, 1310 nm, 1550 nm)
 - Solutions for CWDM wavelengths (ITU-T G.694.2 (2002)): 1470 nm-1610 nm with 20 nm deltas
 - Future solutions for DWDM (ITU-T G.694.1 (2002))
- Wide range of applications based on SFP selection:
 - Media conversion
 - Signal boosting
 - Lambda conversion
 - CWDM system
 - DWDM system (future implementation through DWDM SFP)

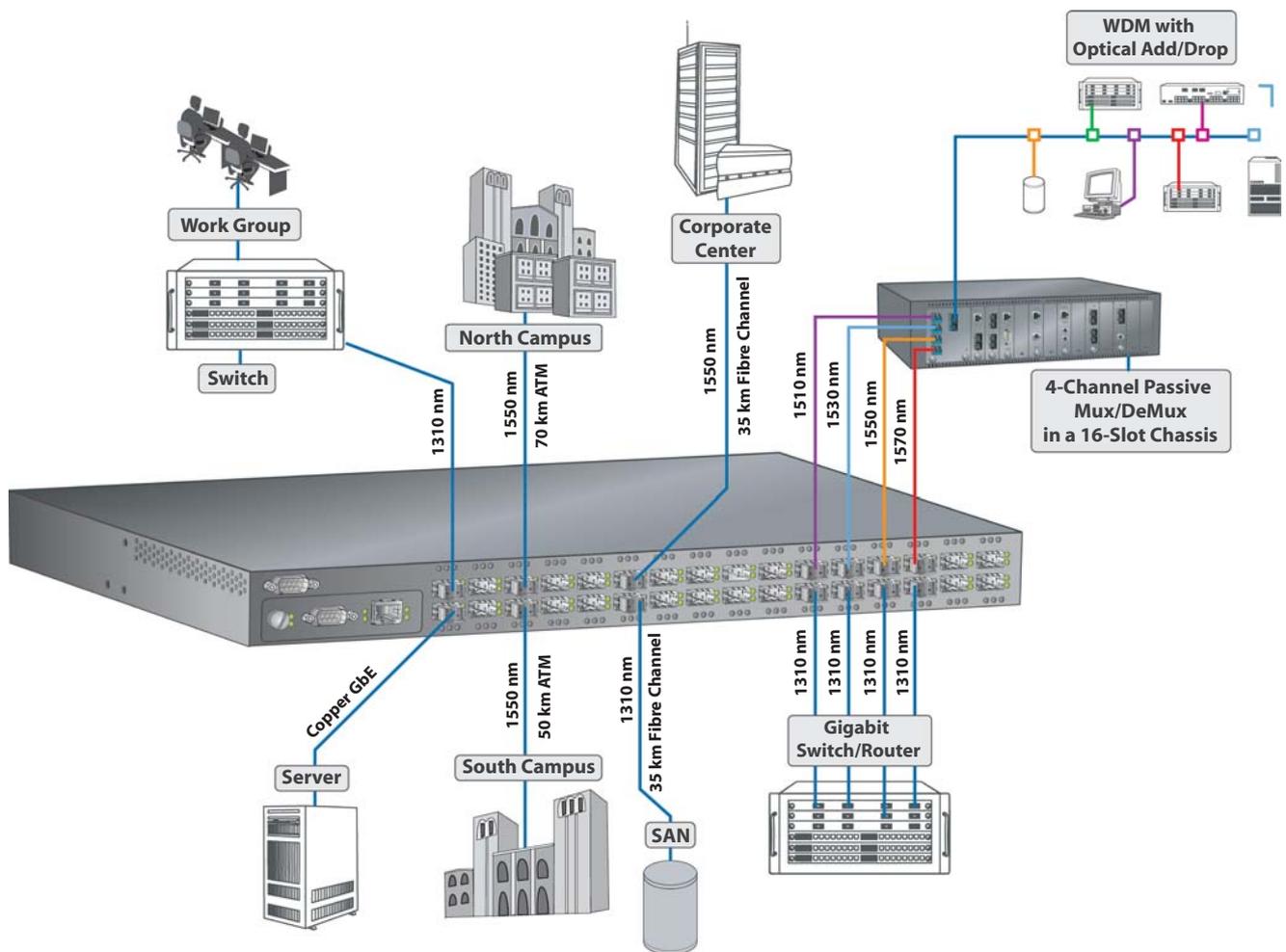
Used in conjunction with an external Mux/Demux unit - such as the 4- or 8-channel Fiber Driver CWDM Passive Mux/Demux (EM316PA4N / EM316PA8N) - and configured with corresponding wavelength-specific SFPs, the NC316-2SFP16 can be used to build a highly flexible and scalable WDM solution for any combination of supported protocols.

The SFP Media Connect fully supports the SFP standard including digital diagnostics as per SFF-8472. Together with the Fiber Driver Pluggable Media Connect management module (EM316NM-PMC), it is able to provide real-time access to information such as transceiver type (protocol, range, vendor, etc.), transceiver temperature, TX/RX optical power, and transceiver supply voltage. It also provides a

means for generating management alerts and warnings when system parameters fall outside of the normal operating range.

Through the EM316NM-PMC, the NC316-2SFP16 is SNMP manageable, and is fully supported through the graphical user interface (GUI) of MegaVision Web, MRV Communications' comprehensive Network Management System (NMS).

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



Physical Specifications: SFP Media Connect

Operating Temperature Range:	0°C to 50°C (32°F to 122°F)
Storage Temperature:	-40°C to 95°C (-40°F to 203°F)
Relative Humidity:	85% maximum, non-condensing
Physical Dimensions:	44 mm high x 442 mm wide x 286 mm deep (1.75" x 17.4" x 11.25")
Weight:	6.75 kg (14.88 lbs)
Mounting:	19" rack, 1 U
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

Ordering Info	Part Number	Description	Protocol	Connectors	Wavelength	Budget (dB)	Range
	NC316-2SFP16	SFP Media Connect with dual power supplies	Any (100 Mbps-2.7 Gbps)	SFP (x32)	N/A (SFP dependent)	N/A (SFP dependent)	N/A (SFP dependent)
NC316-2SFP16NM	SFP Media Connect with dual power supplies and a management module	Any (100 Mbps-2.7 Gbps)	SFP (x32)	N/A (SFP dependent)	N/A (SFP dependent)	N/A (SFP 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.

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