WDM 22: E1 / T1 & Fast Ethernet to Single Fiber

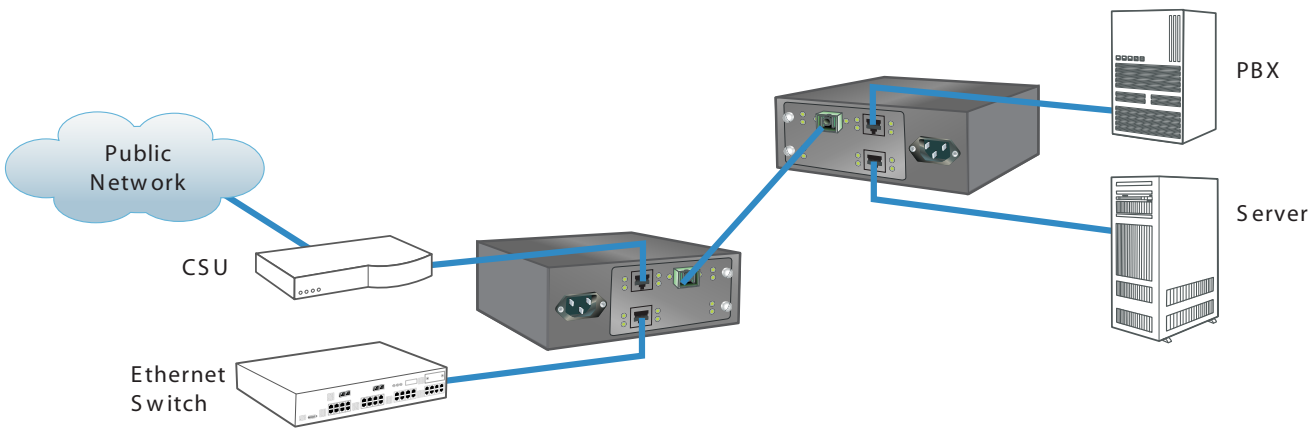
Overview

Utilizing Fiber Driver™ CWDM and technology, the EM316FE1SF and EM316FT1SF modules combine separate voice and data channels onto a single strand of fiber. The EM316FE1SF merges E1 (2.048Mbs) and Fast Ethernet (100Mbs), while the EM316FT1SF combines T1 (1.544Mbs) and Fast Ethernet. This technology effectively quadruples the available fiber capacity of the network. For example, a PBX (T1) voice channel and a Fast Ethernet data channel (100Base-FX) could be sent together over one fiber strand. What normally would have taken separate dual-fiber links, one for the PBX connection and one for the Fast Ethernet connection, instead takes only a single strand of fiber.

The modules are offered with a choice of two types of Singlemode fiber optics, S2 and S3. Units with S2 optics can transmit up to distances of 20 km, while units configured with S3 optics can transmit up to 40 km. Combined with the EM316NM network management module, these modules can be configured and monitored through our own MegaVision Web™ network management system, or any other SNMP compliant NMS. The EM316FE1SF and EM316FT1SF occupy two slots in a Fiber Driver chassis. Compatible chassis include the NC316BU-2 (2-slot) and NC316BU-16 (16-slot) models.

Features

- E1/T1 and Fast Ethernet combined onto a single fiber strand
- Dual wavelengths and splitter/combiner technology for secure separation of data channels
- Transmits up to 40 km over Single Fiber SM fiber
- Hot swappable
- SNMP managed
- Standards compliant
- Fits in the 2- and 16-slot Fiber Driver chassis



Physical Specifications: WDM 22: E1 / T1 & Fast Ethernet to Single Fiber	
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:	50 mm x 75 mm x 175 mm deep (2" x 3" x 7" deep)
Weight:	Approximately 272 g (9.6 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

Ordering Info

Part Number	Function	Protocol	Port Connectors*	Trunk Connector*	Wavelength (nm)	Minimum Loss Budget (dB)	Range** (km)
EM316FT1SF/S2	Combines T1 and 100Base-FX	T1 & Fast Ethernet	RJ-48 & RJ-45	SC-APC	1310 & 1550	12	0 - 25
EM316FT1SF/S3	Combines T1 and 100Base-FX	T1 & Fast Ethernet	RJ-48 & RJ-45	SC-APC	1520 & 1560	12	25 - 50
EM316FE1SF/S2	Combines E1 and 100Base-FX	E1 & Fast Ethernet	BNC & RJ-45	SC-APC	1310 & 1550	12	0 - 25
EM316FE1SF/S3	Combines E1 and 100Base-FX	E1 & Fast Ethernet	BNC & RJ-45	SC-APC	1520 & 1560	12	25 - 50

* Default connectors are listed. Other connectors are optional.

** Distances are approximate and assume 9µ SM

For additional information including pricing and availability, contact your MRV Communications sales representative today.

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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