



Single Fiber



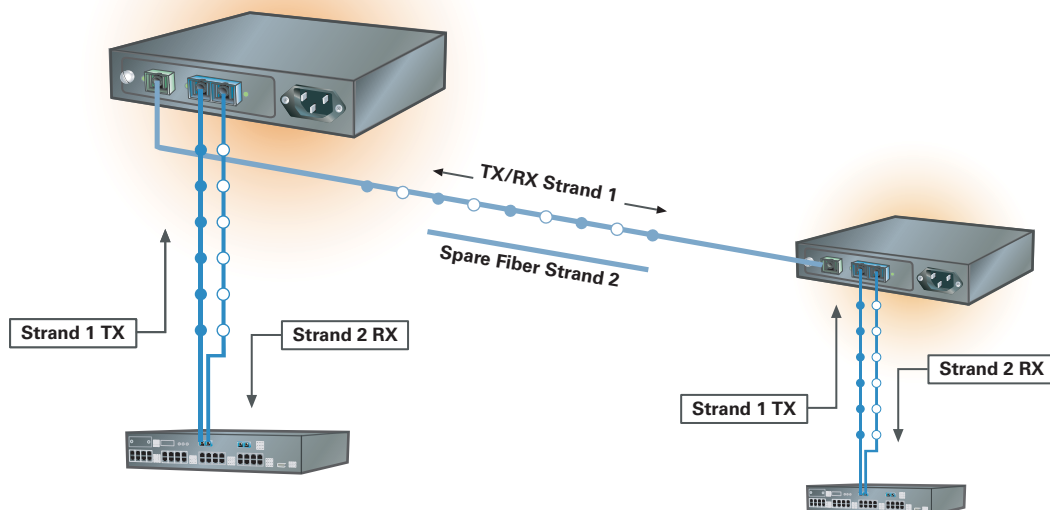
Features

- Combines transmit (TX) and receive (RX) signals onto a single fiber strand
- Link distances of up to 100 km
- Effectively doubles fiber cable availability
- Hot swappable
- SNMP managed
- Supports wide range of protocols
- Fits all Fiber Driver chassis*

Overview

The Fiber Driver® family's Single Fiber modules use unique technologies, which provide the ability to combine transmit (TX) and receive (RX) signals onto a single fiber strand. This effectively doubles the available fiber in a network, and eliminates the need for additional fiber installation. The Fiber Driver Single Fiber modules employ Single wavelength bi-directional technology in order to combine the TX and RX on the single strand.

* If used in a 1-slot Fiber Driver chassis, requires use of NC316BU-1HP/AC or NC316BU-1HP/DC chassis, with AC or DC power supply respectively





Single-Wavelength Single-Fiber

These types of modules employ a single bi-directional wavelength for both transmit and receive, by using splitting-combining technology. A wide range of protocols are supported by this group of modules, including E3, SONET OC-3 and DS3. When used in a Fiber Driver one-slot chassis, single-wavelength single-fiber modules should be mounted in the NC316BU-1HP/AC or NC316BU-1HP/DC chassis.

Both sides of a link use identical units. To minimize reflection, single-wavelength single-fiber converters use Angled Polished Connectors (APCs). Customer's fiber cables connected to single-wavelength single-fiber modules must also use matching APCs. APCs provide a better contact between fibers and minimize the reflection between them.

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

Physical Specifications: Single Fiber Modules

Operating Temperature Range:	0°C to 50°C (32°F to 122°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:	120 - 240 g (4.2 - 8.5 oz) depending on configuration
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	Connectors* Port/Link	Wavelength Input/Output (nm)	Minimum Loss Budget (dB)	Range** Approx. (km)
	EM316O3CSF/S2	SONET OC3 Coax to Single Fiber SM S2	SONET OC-3	BNC/SC-APC	N/A / 1310	18	0 - 35
	EM316O3CSF/S3	SONET OC3 Coax to Single Fiber SM S3	SONET OC-3	BNC/SC-APC	N/A / 1550	18	25 - 70
	EM316O3CSF/S4	SONET OC3 Coax to Single Fiber SM S4	SONET OC-3	BNC/SC-APC	N/A / 1550	24	35-100
	EM316DS3SF/S	DS3 Coax to OC3 Single Fiber SM	DS3	BNC/SC-APC	N/A / 1310	7	0 - 15
	EM316DS3SF/S2	DS3 Coax to OC3 Single Fiber SM S2	DS3	BNC/SC-APC	N/A / 1310	18	0 - 35
	EM316DS3SF/S3	DS3 Coax to OC3 Single Fiber SM S3	DS3	BNC/SC-APC	N/A / 1550	18	25 - 70
	EM316DS3SF/S4	DS3 Coax to OC3 Single Fiber SM S4	DS3	BNC/SC-APC	N/A / 1550	24	35-100
	EM316E3SF/S2	E3 Coax to Single Fiber SM S2	E3	BNC/SC-APC	N/A / 1310	18	0 - 35
	EM316E3SF/S3	E3 Coax to Single Fiber SM S3	E3	BNC/SC-APC	N/A / 1550	18	25 - 70
EM316E3SF/S4	E3 Coax to Single Fiber SM S4	E3	BNC/SC-APC	N/A / 1550	24	35-100	

* Default connectors listed, other connectors are optional

** Distances are approximate and assume 9µ SM and 62.5µ MM

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