

## Datasheet



### Copper to Fiber Non-Managed



#### Overview

The new Fiber Driver™ Non-Managed Copper-to-Fiber Ethernet/Fast Ethernet media converters (CM316F and CM316SW) make the transition from copper to fiber more affordable and easier than ever. Designed as standalone units that can be placed virtually anywhere, the new converters boast an exceptionally compact form factor, and an external universal power supply.

The optional clip-on mounting bracket (CM316FBR) provides retainers to hold the fiber and power cables securely in place. The mounting bracket can be pre-installed at the customer premise along with the power supply and fiber optic link. When service is enabled, the converter is simply clipped into place and the cables attached.

The Fiber Driver CM316F modules come standard with a duplex autosensing 100Base-TX port, while the CM316SW modules have a 10/100Base-TX port that supports auto-negotiation. The modules can be manually configured to accommodate either Half Duplex or Full Duplex transmissions and, with the available MDI/MDIX port selection, links can be established using either crossover or straight through cabling.

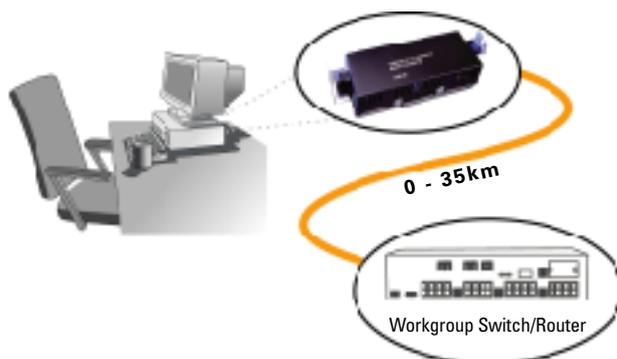
#### Features

- Supports Ethernet (10Base-TX) and Fast Ethernet (100Base-TX)
- "Plug-n-Play" installation
- Multimode (DSC, MTRJ), Singlemode (DSC, LC), and Single Fiber (SC-APC) optics available
- Support for speed and duplex autosensing
- Small standalone form factor
- External universal power supply

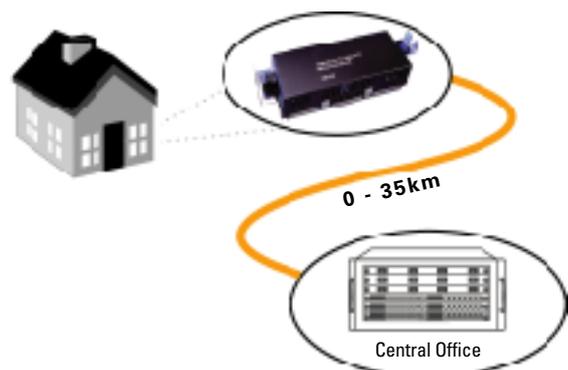
#### Key Benefits

- Ideally suited to FTTH and other OE applications
- Excellent Price/Performance
- Fast, simple deployment

#### A. Fiber-to-the-Desktop (FTTD)



#### B. Fiber-to-the-Home (FTTH)



A variety of Multimode and Singlemode 100Base-FX fiber ports are available, including DSC, LC and MTRJ connectors.

Installation is quick and easy with no configuration being required. Simply plug in the power, connect the data lines and the network is up and running.

The features and benefits of the Fiber Driver Non-Managed Copper-to-Fiber media converters make them ideally suited for Fiber To The Home (FTTH) applications where they can

be used as Customer Premise Equipment (CPE), connecting the subscriber to the service provider's Central Office (CO). The modules can be used anywhere that Optical Ethernet (OE) service is to be deployed.

For additional information on the Fiber Driver Non-Managed Copper-to-Fiber media converters, including pricing and availability, contact your MRV Communications sales representative.

### Physical Specifications: Copper to Fiber Non-Managed

<b>Operating Temperature Range:</b>	0° C to 50° C (32° F to 122° F)
<b>Storage Temperature:</b>	-10° C to 60° C (-14° F to 140° F)
<b>Relative Humidity:</b>	85% maximum, non-condensing
<b>Physical Dimensions:</b>	21 mm x 41 mm x 110 mm deep (0.83" x 1.6" x 4.33" deep)
<b>Weight:</b>	120 - 240 g (4.2 - 8.5 oz) depending on configuration
<b>Emission Compliance:</b>	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 / Link	Connectors <sup>1</sup> Port/Link	Wavelength Port / Link (nm)	Budget (dB) <sup>2</sup> Port / Link	Range <sup>3</sup> Port / Link
	CM316F/M	Non-Managed Fast Ethernet Copper to Fiber converter with duplex autosensing.	100Base-TX / 100Base-FX	RJ-45 / DSC	NA / 1310	NA / NA	1-100m / 0-2km
	CM316F/S	Non-Managed Fast Ethernet Copper to Fiber converter with duplex autosensing.	100Base-TX / 100Base-FX	RJ-45 / DSC	NA / 1310	NA / 12	1-100m / 0-20km
	CM316F/S1	Non-Managed Fast Ethernet Copper to Fiber converter with duplex autosensing.	100Base-TX / 100Base-FX	RJ-45 / DSC	NA / 1310	NA / 17	1-100m / 0-35km
	CM316SW/M	Non-Managed Ethernet/Fast Ethernet Copper to Fiber converter with speed and duplex auto-negotiation, and MDI/MDIX.	100Base-TX / 100Base-FX	RJ-45 / DSC	NA / 1310	NA / NA	1-100m / 0-2km
	CM316SW/S1	Non-Managed Ethernet/Fast Ethernet Copper to Fiber converter with speed and duplex auto-negotiation, and MDI/MDIX.	100Base-TX / 100Base-FX	RJ-45 / DSC	NA / 1310	NA / 17	1-100m / 0-35km

<sup>1</sup> Default connectors listed, others optional.

<sup>2</sup> Higher budgets available.

<sup>3</sup> All specifications, distance claims and operational parameters are based on industry average fiber cable performance; 9µ Singlemode performance of 0.25 dB/km for 1550 nm and 0.5 dB/km for 1310 nm, and 62.5µ Multimode performance of 3 dB/km for 850 nm and 1.5 dB/km for 1300 nm. For non-standard fiber applications or additional information contact MRV Communications

MRV has more than 50 offices throughout the world. Addresses, phone numbers, and fax numbers are listed at [www.mrv.com](http://www.mrv.com). Please e-mail us at [sales@mrv.com](mailto:sales@mrv.com) or call us for assistance.

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