

Datasheet

Non-Managed Ethernet Switches



Overview

Compact in size and packed with useful features, the standalone Fiber Driver(tm) Non-Managed Ethernet Switches are the ideal solution for providing affordable, easy to deploy, plug-n-play fiber connectivity for FTTX, SOHO, and Enterprise workgroup installations. With three different base models to choose from, each configurable with either Multimode or Singlemode optics, there is a Fiber Driver Non-Managed Ethernet Switch available to fit most needs.

The CM316SW model is configured with one 100Base-FX port and one 10/100Base-TX port, the CM316-14SW with one 100Base-FX ports and four 10/100Base-TX ports. The CM316-17SW comes with one 100Base-FX port and seven 10/100Base-TX ports.

Features

- DSC Multimode (0-2 km) or DSC Singlemode (0-35 km) 100Base-FX
- 10/100Base-TX with auto-negotiating speed and duplex
- MDI/MDIX support
- Compact standalone form factor
- External universal power supply
- Power and port status LEDs
- Full wire-speed forwarding rate



CM316-14SW



CM316-17SW



When configured with a DSC Multimode optic transceiver, the FX port can achieve link distances of up to 2 km. With a DSC Singlemode optic transceiver, FX port link distances can reach up to 35 km.

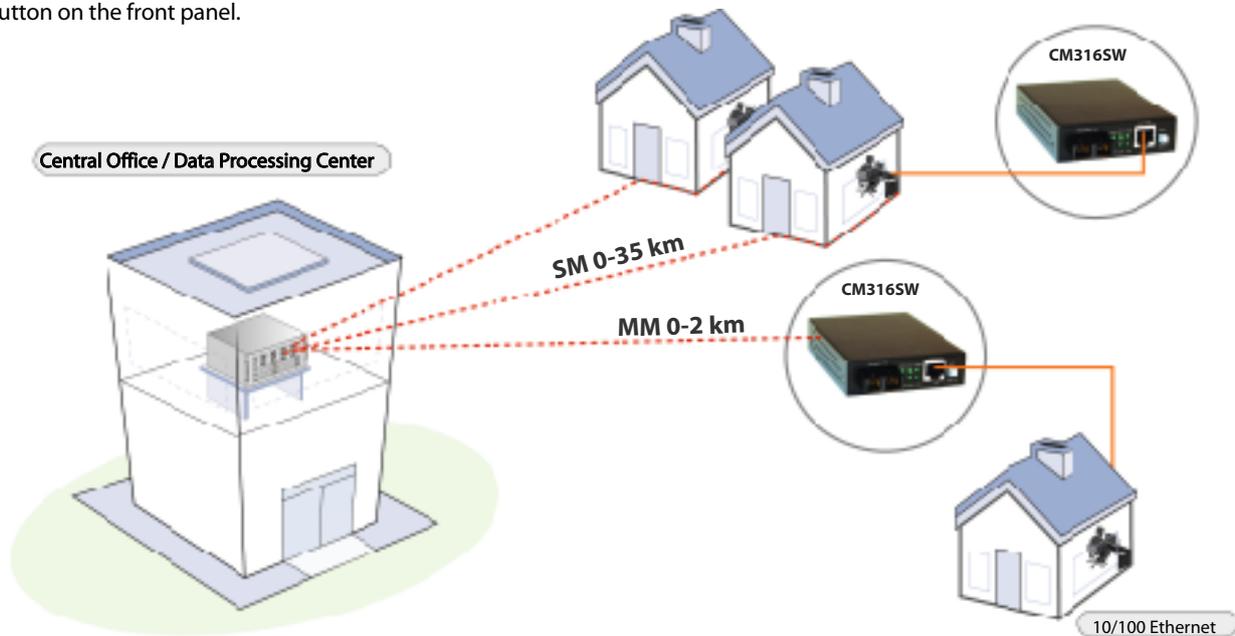
Each Fiber Driver Non-Managed Ethernet Switch comes standard with auto-negotiation of both speed and duplex settings on the TX ports. However, DIP-switch settings do allow for manual configuration.

Both the CM316-14SW and CM316-17SW also support auto-MDIX sensing on the TX ports, allowing for links to be established using either straight through or crossover cabling. On the CM316SW the MDI/MDIX setting of the TX port can easily be configured manually with a push of a button on the front panel.

The full wire-speed forwarding rate and true non-blocking store-and-forward architecture of the Fiber Drive Non-Managed Ethernet Switches makes them suitable for even the most demanding multimedia applications. The units support back pressure and IEEE 802.3x flow control mechanisms.

LEDs located on the front panel of each device provide at-a-glance status indication for system power, and per-port link and activity.

For additional information on the Fiber Driver Non-Managed Ethernet Switches, including availability and pricing, contact your MRV Communications sales representative.



Physical Specifications: Non-Managed Ethernet Switches

Operating Temperature Range:	0°C to 40°C (32°F to 104°F)	
Storage Temperature:	-25° C to 70° C (-13° F to 158° F)	
Relative Humidity:	10~90%, non-condensing	
Safety:	UL listed	
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	
	CM316SW	CM316-17SW & CM316-26SW
Dimensions:	W110 x D81 x H23 mm	W160 x D81 x H28 mm
Power:	External Power Adapter: Input = 100-240 VAC~0.3 A 50/60 Hz; Output = 12 V DC/0.8 A; Consumption = 5 W	External Power Adapter: Input = 100-240 VAC~0.6 A 50/60 Hz; Output = 12 V DC/0.6 A; Consumption = 7.2 W

Ordering Info

Part Number	Function	Protocol Port/Link	Connectors ¹ Port/Link	Fiber Port(s) Wavelength (nm)	Fiber Port(s) Budget ² (dB)	Fiber Port(s) Range ³ (km)
CM316SW/M	Non-Managed standalone Ethernet switch with one 100Base-FX port (DSC MM) and one 10/100Base-TX port (auto-negotiate speed and duplex).	100Base-TX / 100Base-FX	RJ-45 / DSC MM	1310	NA	0 - 2
CM316SW/S	Non-Managed standalone Ethernet switch with one 100Base-FX port (DSC SM) and one 10/100Base-TX port (auto-negotiate speed and duplex).	100Base-TX / 100Base-FX	RJ-45 / DSC SM	1310	12	0 - 20
CM316SW/S1	Non-Managed standalone Ethernet switch with one 100Base-FX port (DSC SM) and one 10/100Base-TX port (auto-negotiate speed and duplex).	100Base-TX / 100Base-FX	RJ-45 / DSC SM	1310	17	0 - 35
CM316-14SW/M	Non-Managed standalone Ethernet switch with one 100Base-FX port (DSC MM) and four 10/100Base-TX ports (auto-negotiate speed and duplex, and auto MDIX).	100Base-TX / 100Base-FX	RJ-45 (x4) / DSC MM	1310	NA	0 - 2
CM316-14SW/S	Non-Managed standalone Ethernet switch with one 100Base-FX port (DSC SM) and four 10/100Base-TX ports (auto-negotiate speed and duplex, and auto MDIX).	100Base-TX / 100Base-FX	RJ-45 (x4) / DSC SM	1310	12	0 - 20
CM316-14SW/S1	Non-Managed standalone Ethernet switch with one 100Base-FX port (DSC SM) and four 10/100Base-TX ports (auto-negotiate speed and duplex, and auto MDIX).	100Base-TX / 100Base-FX	RJ-45 (x4) / DSC SM	1310	17	0 - 35
CM316-17SW/M	Non-Managed standalone Ethernet switch with one 100Base-FX port (DSC MM) and seven 10/100Base-TX ports (auto-negotiate speed and duplex, and auto MDIX).	100Base-TX / 100Base-FX	RJ-45 (x7) / DSC MM	1310	NA	0 - 2
CM316-17SW/S	Non-Managed standalone Ethernet switch with one 100Base-FX port (DSC SM) and seven 10/100Base-TX ports (auto-negotiate speed and duplex, and auto MDIX).	100Base-TX / 100Base-FX	RJ-45 (x7) / DSC SM	1310	12	0 - 20
CM316-17SW/S1	Non-Managed standalone Ethernet switch with one 100Base-FX port (DSC SM) and seven 10/100Base-TX ports (auto-negotiate speed and duplex, and auto MDIX).	100Base-TX / 100Base-FX	RJ-45 (x7) / DSC SM	1310	17	0 - 35

¹ Default connectors listed, others optional.

² Higher budgets available.

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

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