

Datasheet

Copper Ethernet SFP

SFP-SW10/100-R



Highlights

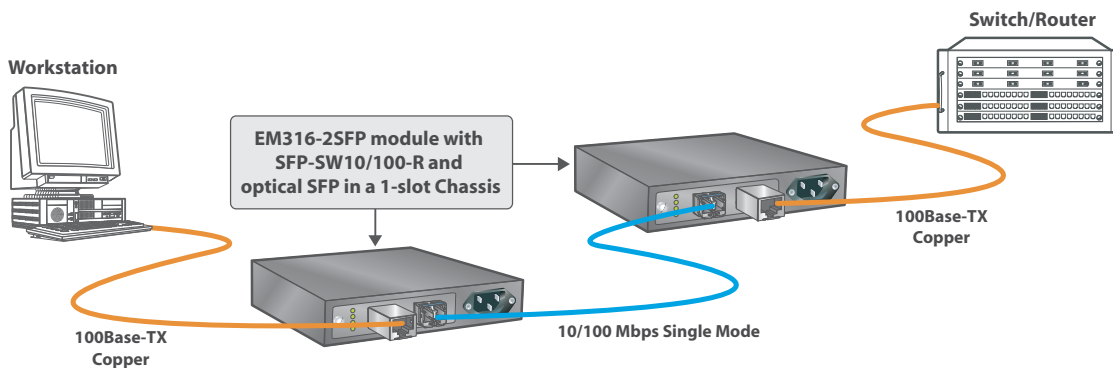
- SFP-SW10/100-R
 - 10/100Base-TX to 100-FX (system)
 - Auto-negotiation
 - Speed and duplex matching
- MDI/MDI-X automatic detection
- Plug-and-play functionality
- LOS support
- Hot-swap support
- Transmitter always on (no LIN support)
- MSA compliance
- Complete MRV SFP compatibility
- Fully metallic enclosure for low EMI

Overview

MRV offers an Ethernet SFP for copper media applications that provides unique 10/100 Mbps Ethernet solutions. It has auto-negotiation with speed and duplex matching as well as MDI/MDI-X auto-detection. It supports transport of packets up to 1,600 bytes.

Application: Fast Ethernet Copper-to-Fiber Conversion

Converting from copper to fiber and back again, SFP-SW10/100-R and optical SFPs are used as interfaces in data rate independent Fiber Driver SFP-to-SFP pluggable media modules (EM316-2SFP). The fiber link operates at Fast Ethernet speed. The SFP-SW10/100-R matches the speed and duplex mode of each edge device, allowing them operate at different speeds and duplex modes.



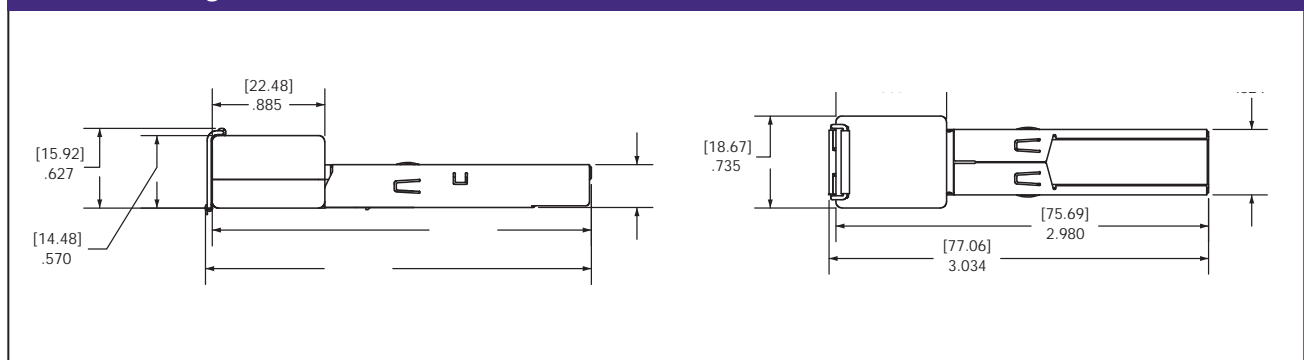
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Specifications	
Operating Temperature Range	0° C to 70°C (32°F to 158°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Relative Humidity	85% maximum, non-condensing
Power	1.5 W
Connector	RJ-45
Cable Type	CAT-5
Maximum Cable Length	100 meters
Ethernet Standard	10Base-TX, 100Base-TX
Supports Speed Auto-Negotiation	Yes
Supports Duplex Auto-Negotiation	Yes
Supports Auto MDI/MDI-X Detect	Yes
Match Translates Between Edge Devices	Yes
Used with Layer 0/1 Devices (E.G. Repeaters, Converters and WDM transponders)	Yes
Used with Layer 2 Devices (E.G. Switches and Routers)	Yes
Link Indicator on Rx_Los Pin	Yes
1000Base-X Auto-Negotiation Enabled by Default	No
Maximum Packet Size	1600 Bytes
Regulatory Compliance	FCC Part 15 (Class A); IC (Class A); EMC Directive: Emission (Class A) and Immunity; RoHS Directive; China RoHS; WEEE Directive: Wheelie Bin Mark

Serial Bus Timing Requirements

Parameter	Minimum	Maximum	Units
I ² C Clock Rate	0	100,000	Hz

Outline Drawing





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Ordering Information

Model	Function	Voltage (V)	Protocol	Max. Data Rate (Mbps)	Connectors	Distance Range (m)
SFP-SW10/100-R	SFP 10/100Base-TX autonegotiation, speed/duplex matching.	3.3	Ethernet, Fast Ethernet	125	RJ-45	0 - 100

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