



stand-alone media converter

see also: Fast Ethernet or ATM/OC-3/SDH/SONET Point System™ Slide in Media Converters

Fast Ethernet

Stand-Alone

F-SM-MM-02 & SFMFF1xxx-20x

Single Mode to Multimode Optical Mode Converter

Features

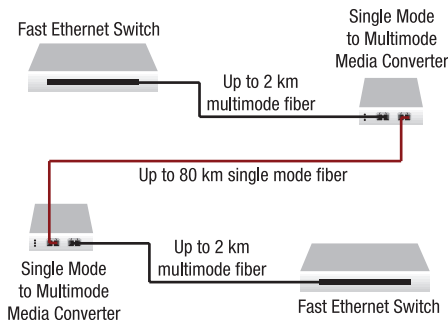
- ▶ Link Pass Through
- ▶ Automatic Link Restoration



Extend Network Distance

Extend distances up to 80 km with network protocols that use 1300nm wavelength for fiber optic transmission. In fact, distances can be extended in any networking protocol between 100 Mbps and 155 Mbps.

Save money by purchasing Fast Ethernet devices with lower cost multimode fiber interfaces and use converters to introduce single mode fiber only where you need it.



Specifications

Standards	IEEE Std. 802.3
Status LEDs	PWR (Power): Steady green LED indicates connection to external AC power LKM or Link (Left): Lit for MM Link LKS or Link (Right): Lit for SM Link
Dimensions	Width: 3.0" [76 mm] Depth: 4.7" [119 mm] Height: 1.0" [25 mm]
Power	External AC/DC required; 12 VDC. 0.5A; unregulated; standard
Environment	0 – 50°C; 5% – 90% humidity non-condensing; 0 – 10,000 ft. altitude
Shipping Weight	2 lbs. [0.90 kg]
Safety Compliance	Wall Mount Power Supply: UL Listed and CSA certified
Regulatory Compliance	CISPR/EN55022 Class A; EN55024; EN61000; FCC Class A; CE Mark
Warranty	Lifetime

Ordering Information

- SFMFF1313-200**
1300nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB
to 1300nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB
- F-SM-MM-02**
1300nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB
to 1310nm single mode (SC)
[20 km/12.4 mi.] Link Budget: 16.0 dB
- F-SM-MM-02(LH)**
1300nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB
to 1310nm single mode (SC)
[40 km/24.9 mi.] Link Budget: 26.0 dB
- F-SM-MM-02(XL)**
1300nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB
to 1310nm single mode (SC)
[60 km/37.3 mi.] Link Budget: 29.0 dB
- F-SM-MM-02(LW)**
1300nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB
to 1550nm single mode (SC)
[80 km/49.7 mi.] Link Budget: 29.0 dB
- SFMFF1414-200**
1310nm single mode (SC)
[20 km/12.4 mi.] Link Budget: 16.0 dB
to 1310nm single mode (SC)
[20 km/12.4 mi.] Link Budget: 26.0 dB
- SFMFF1415-200**
1310nm single mode (SC)
[20 km/12.4 mi.] Link Budget: 16.0 dB
to 1310nm single mode (SC)
[40 km/24.9 mi.] Link Budget: 26.0 dB
- SFMFF1417-200**
1310nm single mode (SC)
[20 km/12.4 mi.] Link Budget: 16.0 dB
to 1550nm single mode (SC)
[80 km/49.7 mi.] Link Budget: 29.0 dB
- Single Fiber Products**
Recommended use in pairs
- SFMFF1329-200**
1300nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB
to 1310nm TX/1550nm RX single fiber
single mode (SC)
[20 km/12.4 mi.] Link Budget: 19.0 dB
- SFMFF1329-201**
1300nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB
1550nm TX/1310nm RX single fiber
single mode (SC)
[20 km/12.4 mi.] Link Budget: 19.0 dB
- SFMFF1329-202**
1300nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB
1310nm TX/1550nm RX single fiber
single mode (SC)
[40 km/24.9 mi.] Link Budget: 25.0 dB
- SFMFF1329-203**
1300nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB
1550nm TX/1310nm RX single fiber
single mode (SC)
[40 km/24.9 mi.] Link Budget: 25.0 dB

Ordering Information

- SFMFF1329-204**
1300nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB
1310nm TX/1550nm RX single fiber
single mode (SC)
[60 km/37.3 mi.] Link Budget: 28.0 dB
- SFMFF1329-205**
1300nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB
1550nm TX/1310nm RX single fiber
single mode (SC)
[60 km/37.3 mi.] Link Budget: 27.0 dB
- SFMFF1429-200**
1310nm single mode (SC)
[20 km/12.4 mi.] Link Budget: 16.0 dB
1310nm TX/1550nm RX single fiber
single mode (SC)
[20 km/12.4 mi.] Link Budget: 19.0 dB
- SFMFF1429-201**
1310nm single mode (SC)
[20 km/12.4 mi.] Link Budget: 16.0 dB
to 1550nm TX/1310nm RX single fiber
single mode (SC)
[20 km/12.4 mi.] Link Budget: 19.0 dB
- SFMFF1429-202**
1310nm single mode (SC)
[20 km/12.4 mi.] Link Budget: 16.0 dB
to 1310nm TX/1550nm RX single fiber
single mode (SC)
[40 km/24.9 mi.] Link Budget: 25.0 dB
- SFMFF1429-203**
1310nm single mode (SC)
[20 km/12.4 mi.] Link Budget: 16.0 dB
to 1550nm TX/1310nm RX single fiber
single mode (SC)
[40 km/24.9 mi.] Link Budget: 25.0 dB

Optional Accessories (sold separately)

- F-SM-MM-02**
SPS-2460-CC
Wide Input (24 - 60 VDC) Piggy Back Power Supply for the F-SM-MM-02
- WMBD-FS**
DIN Rail Bracket (flat, small) 3.1" [79 mm]
- SFMFF1x29-20x**
SPS-2460-PS
Wide Input (24 - 60 VDC) Piggy Back Power Supply for the SFMSS1xxx-20x
- WMBD-F**
DIN Rail Bracket (flat) 3.3" [84 mm]
- F-SM-MM-02 or SFMFF1x29-20x**
SPS-2460-SA
Wide Input (24 - 60 VDC) Stand-Alone Power Supply
- E-MCR-05**
12-Slot Media Converter Rack
- RMS19-SA4-01**
4-Slot Media Converter Shelf
- WMBD**
DIN Rail Bracket 5.0" [127 mm]
- WMBL**
Wall Mount Bracket 4.0" [102 mm]
- WMBV**
Vertical Wall Mount Bracket 5.0" [127 mm]

Fast Ethernet or ATM/SONET Single Mode to Multimode