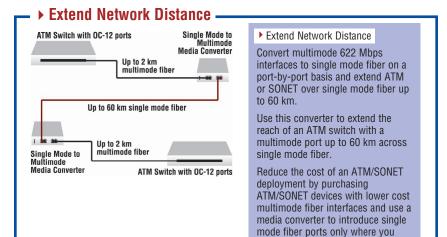


OC12 ATM / SONET / SDH

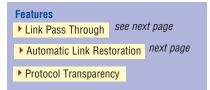
Single Mode to Multimode Fiber

Stand-Alone Media Converters

F-SM-MM-06(xx) & SFMFF131x-210



need them.



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Product Number	Port One	Port Two
F-SM-MM-06	622 Mbps fiber optic 1300nm multimode (SC) [2 km/1.2 miles]	622 Mbps fiber optic 1310nm single mode (SC) [15 km/9.3 miles]
F-SM-MM-06(XL)	622 Mbps fiber optic 1300nm multimode (SC) [2 km/1.2 miles]	622 Mbps fiber optic 1310nm single mode (SC) [40 km/24.9 miles]
SFMFF1316-210	622 Mbps fiber optic 1300nm multimode (SC) [2 km/1.2 miles]	622 Mbps fiber optic 1310nm single mode (SC) [40 km/24.9 miles]
SFMFF1317-210	622 Mbps fiber optic 1300nm multimode (SC) [2 km/1.2 miles]	622 Mbps 1550nm single mode (SC) [60 k /37.3 miles]

Ordering Info

Product Number Description F-SM-MM-06(xx): Wide Input (18-72VDC) Piggy Back Power Supply SPS-1872-CC WMBD-FS DIN Rail Mount Bracket (flat, small) 3.1" [79 mm] SFMFF131x-210: Wide Input (18-72VDC) Piggy Back Power Supply SPS-1872-PS DIN Rail Mount Bracket (flat) 3.3" [109 mm] WMBD-F F-SM-MM-06(xx) or SFMFF131x-210: Wide Input (18-72VDC) Stand-Alone Power Supply DIN Rail Mount Bracket 5.0" [127 mm] WMBD WMBL Wall Mount Bracket 4.0" [102 mm] Vertical Wall Mount Bracket 5.0" [127 mm] WMBV

Optional Accessories (sold separately)



Standards	ANSI T1.646, ITU G.957	
Fiber Optic Connect	or Specs	
Multimode	Min TX PWR: -19.0 dBm Max TX PWR: -14.0 dBm RX Sensitivity: -26.0 dBm Max In PWR: -14.0 dBm Link Budget: 7.0 dB	
Single Mode		
F-SM-MM-06	Min TX PWR: -15.0 dBm Max TX PWR: -8.0 dBm RX Sensitivity: -28.0 dBm Max In PWR: -7.0 dBm Link Budget: 13.0 dB	
F-SM-MM-06(XL) & SFMFF1316- 210	Min TX PWR: -3.0 dBm Max TX PWR: +2.0 dBm RX Sensitivity: -29.0 dBm Max In PWR: -7.0 dBm Link Budget: 26.0 dB	
SFMFF1317-210	Min TX PWR: -3.0 dBm Max TX PWR: +2.0 dBm RX Sensitivity: -28.0 dBm Max In PWR: -7.0 dBm Link Budget: 25.0 dB	
Status LEDs	Power: Lit for normal operation MMF: Lit for active SMF: Lit for active	
Dimensions	Width: 3.0" [76 mm] Depth: 4.7" [119 mm] Height: 1.0" [25 mm]	
Power	External AC/DC required; 12V DC5A; unregulated; standard	
Power Consumption	3.1 watts	
Environment	0 – 50°C, 5% – 90% humidity (non-condensing), 0 – 10,000 feet	
Shipping Weight	2 lbs. [0.9 kg]	
Safety Compliance	Wall Mount Power Supply: UL approved and CSA certified	
Regulatory Compliance	CE Mark F-SM-MM-06: CISPR/EN55022 Class A; FCC Class A SFMFF131x-210: CISPR/EN55022 Class A&B FCC Class A&B	
Warranty	Lifetime	



ADVANCED PRODUCT FEATURES & CERTIFICATION

▶ Automatic Link Restoration

Transition Networks's converters will automatically re-establish link in all network conditions

No need to reset devices

Transition Networks's converters will automatically re-establish link when connected to switches if link was lost. With other manufacturers' converters the user must reset the converter to re-establish the link.

► Auto-Negotiation Enabled

Automatic Link Restoration allows the users to continue using Auto-Negotiation with Link Loss Notification features. With other manufacturers' converters the user must disable Auto-Negotiation and hard set the link.

▶ Link Pass Through Activated in both directions

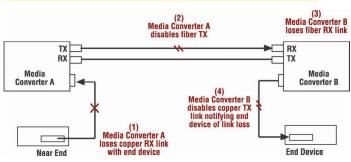
Automatic Link Restoration on Transition Networks's products allows users to continue using Link Loss Notification feature activated in both directions. Many competitive solutions allow for Link Loss Notification activation only in one direction. If Link Loss feature is activated in both directions, competitive products are put in a "deadly embrace" and they cannot restore the link without resetting the converters.



▶ Link Pass Through

Link Pass Through is a troubleshooting feature that allows the media converter to monitor both the fiber and copper RX ports for loss of signal. In the event of a loss of RX signal on one media port, the converter will automatically disable the TX signal of the other media port, thus "passing through" the link loss. (see diagram below)

- ▶ End device automatically notified of link loss
- ▶ Prevents loss of valuable data unknowingly transmitted over invalid link



If someone tells you media conversion is a commodity product that anyone can bring to market, they probably haven't looked at the extensive product suite offered by Transition Networks. With the industry's most comprehensive offering of full-featured products, Transition's media converters stand out as "the choice" among industry IT professionals.

Generally, media converters are low-level OSI model devices with no IP or MAC addresses and therefore are transparent to the network. This "transparency" makes them very inexpensive and easy to use, but also can make troubleshooting the network very difficult. In an effort to overcome this difficulty and to make media converters "visible" to network managers, Transition has designed their full-featured products to include the most advanced features on the market today.