



Gigabit Ethernet Optical Mode Conversion

1000BASE-SX to 1000BASE-LX

SFMFF13xx-28x

Gigabit Optical Mode Converter with Signal Retiming & Regeneration



Convert 1000BASE-SX ports over to 1000BASE-LX on a port-by-port basis. Used individually or in pairs, this media converter can extend Gigabit Ethernet over single mode fiber up to **125km**. Or cascade two or more converters in a link to achieve even greater distances.

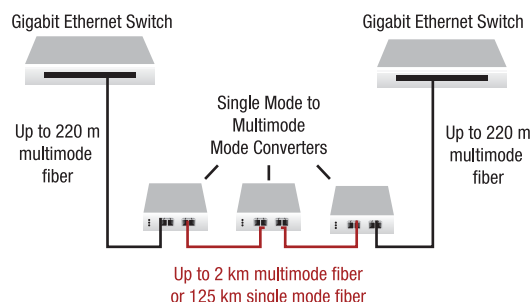
Transition Networks Gigabit Ethernet optical mode converters now include signal retiming, regeneration & re-amplification to maintain signal integrity and allow for maximum network distance without signal degradation. Distances of hundreds of kilometers are possible when cascading two or more devices in the same link.

- ▶ Transition Networks Gigabit Ethernet optical mode converters now include signal retiming, regeneration and re-amplification to maintain signal integrity and allow for maximum network distance without signal degradation
- ▶ Distances of hundreds of kilometers are possible when cascading two or more devices in the same link

Features

- ▶ Auto-Negotiation
- ▶ Link Pass Through
- ▶ Pause
- ▶ Auto Link Restore

Extend Network Distance



Specifications

Standards	IEEE Std. 802.3™
Status LEDs	PWR (Power): Lit for normal operation LKS (Single Mode Fiber Link): ON = Fiber Link LKM (Multimode Fiber Link): ON = Fiber Link ACT (Activity): Blinking = data reception on either fiber link
Switches	Switch 1: Fiber Auto-Negotiation on/off Switch 2: Link Pass Through on/off Switch 3&4: Pause configuration determined by combined setting
Dimensions	Width: 3.25" [82 mm] Depth: 4.8" [120 mm] Height: 1.0" [25 mm]
Power	External AC/DC included; 12V DC, 0.5A; unregulated
Power Consumption	3.5 watts
Environment	0 – 50°C operating; 5% – 95% 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	EN55024; CISPR22/EN55022 Class A; FCC Class A; CE Mark
Warranty	Lifetime

Ordering Info

SFMFF1324-280
1000BASE-SX 850 nm multimode (SC) [220 m/722 ft.]* Link Budget: 7.0 dB [550 m/1804 ft.]* Link Budget: 7.0 dB to 1000BASE-LX 1310 nm Extended MM (SC) (62.5/125 µm fiber only) [up to 2 km] Link Budget: 7.0 dB
SFMFF1314-280
1000BASE-SX 850 nm multimode (SC) [220 m/722 ft.]* Link Budget: 7.0 dB [550 m/1804 ft.]* Link Budget: 7.0 dB to 1000BASE-LX 1310 nm SM (SC) [10 km/6.2 mi.] Link Budget: 7.0 dB
SFMFF1414-280
1000BASE-LX 1310 nm SM (SC) [10 km/6.2 mi.] Link Budget: 7.0 dB to 1000BASE-LX 1310 nm SM (SC) [10 km/6.2 mi.] Link Budget: 7.0 dB
SFMFF1315-280
1000BASE-SX 850 nm multimode (SC) [220 m/722 ft.]* Link Budget: 7.0 dB [550 m/1804 ft.]* Link Budget: 7.0 dB to 1000BASE-LX 1310 nm SM (SC) [25 km/15.5 mi.] Link Budget: 15.0 dB
SFMFF1317-280
1000BASE-SX 850 nm multimode (SC) [220 m/722 ft.]* Link Budget: 7.0 dB [550 m/1804 ft.]* Link Budget: 7.0 dB to 1000BASE-LX 1550 nm SM (SC) [65 km/40.4 mi.] Link Budget: 21.0 dB
SFMFF1335-280
1000BASE-SX 850 nm multimode (SC) [220 m/722 ft.]* Link Budget: 7.0 dB [550 m/1804 ft.]* Link Budget: 7.0 dB to 1000BASE-LX 1550 nm SM (SC) [125 km/77.7 mi.] Link Budget: 27.0 dB
Single Fiber Products <i>Recommended use in pairs</i>
SFMFF1329-280
1000BASE-SX 850 nm multimode (SC) [220 m/722 ft.]* Link Budget: 7.0 dB [550 m/1804 ft.]* Link Budget: 7.5 dB to 1000BASE-LX 1310 nm TX / 1550 nm RX single fiber single mode (SC) [20 km/12.4 mi.] Link Budget: 13.0 dB
SFMFF1329-281
1000BASE-SX 850 nm multimode (SC) [220 m/722 ft.]* Link Budget: 7.0 dB [550 m/1804 ft.]* Link Budget: 7.0 dB to 1000BASE-LX 1550 nm TX / 1310 nm RX single fiber SM (SC) [20 km/12.4 mi.] Link Budget: 13.0 dB
SFMFF1329-282
1000BASE-SX 850 nm multimode (SC) [220 m/722 ft.]* Link Budget: 7.0 dB [550 m/1804 ft.]* Link Budget: 7.0 dB to 1000BASE-LX 1310 nm TX / 1550 nm RX single fiber single mode (SC) [40 km/24.9 mi.] Link Budget: 20.0 dB
SFMFF1329-283
1000BASE-SX 850 nm multimode (SC) [220 m/722 ft.]* Link Budget: 7.0 dB [550 m/1804 ft.]* Link Budget: 7.0 dB to 1000BASE-LX 1550 nm TX / 1310 nm RX single fiber single mode (SC) [40 km/24.9 mi.] Link Budget: 20.0 dB
SFMFF1329-286
1000BASE-SX 850 nm multimode (SC) [220 m/722 ft.]* Link Budget: 7.0 dB [550 m/1804 ft.]* Link Budget: 7.0 dB to 1000BASE-LX 1510 nm TX / 1590 nm RX single fiber single mode (SC) [80 km/49.6 mi.] Link Budget: 24.0 dB
SFMFF1329-287
1000BASE-SX 850 nm multimode (SC) [220 m/722 ft.]* Link Budget: 7.0 dB [550 m/1804 ft.]* Link Budget: 7.0 dB to 1000BASE-LX 1590 nm TX / 1510 nm RX single fiber single mode (SC) [80 km/49.6 mi.] Link Budget: 24.0 dB

*62.5/125 µm fiber: 220 m / 722 ft.
50/125 µm fiber: 550 m / 1804 ft.