

## Stand-alone Fiber to Fiber Media Converter 1000Base-SX or 1000Base Fiber Channel

The SFMFF1314-220 stand-alone, when used individually or in pairs, functions as a mode converter that extends Gigabit Ethernet or Fiber Channel signals over single mode fiber up to 125 kilometers. The SFMFF1314-220 also converts 1000Base-SX ports on a Gigabit Ethernet switch to 1000Base-LX on a port-by-port basis.



### Features

- Auto-Negotiation (1000Base-X ports)
- Link Pass Through
- Pause
- Automatic Link Restoration
- Protocol Transparency

### Specifications

|                        |                                                                                                                                                                                                                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards              | IEEE 802.3<br>ATM, OC-3<br>STM-1<br>HSTR<br>FDDI                                                                                                                                                                                                                                              |
| Fiber Optic Connectors | <b>Multimode: Min TX PWR: -10.0 dBm</b><br>Max TX PWR: -4.0 dBm<br>RX Sensitivity: -17.0 dBm<br>Max In PWR: 0.0 dBm<br>Link Budget: 7.00 dB<br><b>Single Mode: Min TX PWR: -13.0 dBm</b><br>Max TX PWR: -3.0 dBm<br>RX Sensitivity: -20.0 dBm<br>Max In PWR: -3.0 dBm<br>Link Budget: 7.00 dB |
| Status LEDs            | Power: Lit for normal operation<br>Port LKS (Single Mode fiber link):<br>Steady LED indicates single mode fiber link<br>Port LKM (Multimode fiber link):<br>Steady LED indicates multimode fiber link                                                                                         |
| Dimensions             | Width: 3.25" [82.55 mm]<br>Depth: 4.7" [119.38 mm]<br>Height: 1" [25 mm]                                                                                                                                                                                                                      |
| Power Supply           | External AC/DC required 12VDC, 0.5 A; unregulated; standard; Output 12VDC, 1.0 A, 12 watts; 120-240VAC input                                                                                                                                                                                  |
| Environment            | Operating: 0°C to +50°C<br>Humidity: 5% to 90% (non-condensing)<br>Altitude: 0 – 10,000 ft.                                                                                                                                                                                                   |
| Weight                 | 2 lbs. [0.90 kg]                                                                                                                                                                                                                                                                              |
| MTBF                   | 41,666 hours (MIL-217F2 V5.0)<br>(MIL-HK8K-217F)<br>114,580 hours (Bellcore7 V5.0)                                                                                                                                                                                                            |
| Certifications         | Safety: Wall Mount Power Supply:<br>UL listed and CSA certified<br>Regulatory: FCC Class A & B,<br>CISPR/EN55022 Class A & B,<br>CE Mark                                                                                                                                                      |
| Warranty               | Lifetime                                                                                                                                                                                                                                                                                      |

### Ordering Information

#### SFMFF1314-220

1000Base-SX 850nm multimode (SC)  
[62.5/125 µm fiber: 220 m/722 ft.]  
[50/125 µm fiber: 550 m/1804 ft.]  
Link Budget: 7.0 dB  
to 1000Base-LX 1310nm single mode (SC)  
[10 km/6.2 mi.] Link Budget: 7.0 dB

#### Optional Accessories (sold separately)

#### Wide Input (24 - 60VDC) Power Supplies (sold separately)

##### SPS-2460-PS

Piggy Back Power Supply

##### SPS-2460-SA

Stand-Alone Power Supply

#### Mounting Options (sold separately)

##### E-MCR-05

12-Slot Media Converter Rack

##### RMS19-SA4-02

4-Slot Media Converter Shelf

##### WMBD

DIN Rail Bracket 5" [127 mm]

##### WMBD-F

DIN Rail Bracket (flat) 3.3" [84 mm]

##### WMBL

Wall Mount Bracket 4" [102 mm]

##### WMBV

Vertical Wall Mount Bracket 5" [127 mm]

### Power Supply Included

To order the corresponding country specific power supply, add the extension from the list below to the end of the SKU; Ex: SFMFF1314-220-xx

#### -xx = Country Code

|                     |                      |
|---------------------|----------------------|
| -NA = North America | -LA = Latin America  |
| -EU = Europe        | -UK = United Kingdom |
| -SA = South Africa  | -JP = Japan          |
| -OZ = Australia     | -BR = Brazil         |