



# Singlemode to Multimode Converter

Net Optics fiber optic singlemode to multimode converter is used to convert the media of one device from singlemode to multimode. This enables the original device to communicate with a second device utilizing a multimode signal. Because the converters are bi-directional, both Singlemode to Multimode and Multimode to Singlemode conversion is supported within each unit.

With Net Optics converters you can connect your networks over a long distance or a short distance. The fiber converter provides a transparent conversion of optical signals for data rates at up to 155Mbps. The transparent modules provide cost-effective media conversion without re-clocking.

## Passive, Secure Technology

- Supports media conversion at rates up to 155Mbps
- Features link fault signaling, alerting each host if any intermediate links have failed, and disabling the relevant forward link until the intermediate link is repaired
- Enables superior performance through full clock-and-data recovery (CDR) capability, reducing jitter by up to 40%

## Ease of Use

- Front-mounted network connectors for easy installation and operation
- Designed to comply with US Telcordia (Bellcore) GR-1209 and IEEE 802.3
- Designed to comply with Class1 laser safety requirements, IEC 825-2, UL, CSA, TUV, FCC, VDE EMI standards
- Compatible with all major manufacturers' networking equipment



## Technical Specifications:

### Operating Specifications:

Operating Temperature: 0°C to 40°C

Storage Temperature: -10°C to 70°C

Relative Humidity: 5% min, 95% max, non-condensing

### Mechanical Specifications:

#### Power Supply:

Input: 100-240 VAC, 50-60 Hz, 0.6A

Output: 5V, 2A

Dimensions: 1.25" high x 5.25" deep x 4.5" wide

### Fiber Optic and Cable Interface:

#### Singlemode Specifications:

Wavelength: 1310 nm

Fiber Type: Corning Singlemode 8.5/125µm

Output Power: -15 dBm min, -8 dBm max

Optical Receiver Input Sensitivity: 11 dB min, 17 dB max

#### Multimode Specifications:

Wavelength: 1300 nm

Fiber Type: Corning Multimode 62.5/125µm

Output Power: -20 dBm min, -14 dBm max

Optical Receiver Input Sensitivity: 19 dB min, 26 dB max

**Fiber Link Length:** 2 kilometers on 62.5µm multimode, 15 kilometers on 8.5µm singlemode fiber

**Laser:** Class I, eye-safe, laser emitter type. These Class I Lasers conform to the applicable requirements per US 21 CFR (J) and EN 60825-1, also UL 1950 applications.

### Connectors:

**Monitoring Port:** (1) Singlemode Duplex SC connector

**Network Port:** (1) Multimode Duplex SC connector

### Certifications:

Fully RoHS compliant

Part Number	Description
FMC-SA	Singlemode to Multimode - Stand Alone
FMC	Singlemode to Multimode - Rackmountable
RK-3	Three Slot Rack Mount Frame

All products include a 1 year manufacturer's warranty. An additional 1 or 2 year extended warranty may also be purchased.