# FBR-1FE1FX-SFP

*10/100 Mbps Ethernet 2-Port Media Converter, SFP Optical Port*

## STANDARD FEATURES

- ● 10/100 Mbps Ethernet
- ○ 10/100 BASE-T/TX electrical port
- ○ 100 BASE-FX optical port
- ● Electrical port supports Auto-Negotiation for 10 Mbps or 100 Mbps, full duplex or half duplex data
- ● Optical port supports 100 Mbps full duplex data
- ● Automatic MDI/MDI-X crossover
- ● Utilizes standard SFP optical modules for a choice of fiber type, number of fibers, and transmission distance
- ● Transparent to data encoding
- ● Hot-Swappable
- ● No in-field optical adjustments required
- ● IEEE 802.3 compliant
- ● Lifetime Warranty

## SPECIFICATIONS

### DATA

| | |
|---|---|
| Data Interface | Ethernet |
| Data Rate | 10/100 Mbps<br>IEEE 802.3 Compliant<br>Full Duplex or Half Duplex Electrical Port<br>Full Duplex Optical Port |
| Ethernet Connector | RJ-45 |

### FIBER

| | |
|---|---|
| Number of Fibers Required | Depends on choice of SFP module |
| Type of Fiber | Depends on choice of SFP module |
| Type of Optical Connector | Depends on choice of SFP module |
| Wavelengths Used (Fwd./Rvrs.) | Depends on choice of SFP module |
| Optical Power Budget | Depends on choice of SFP module |
| Maximum Distance (miles (km)) | Depends on choice of SFP module |

### ELECTRICAL

| | |
|---|---|
| Power: | Surface Mount: 12 VDC @ 400 mA<br>Rack Mount: 12 VDC @ 400 mA (powered by card cage power supply) |
| Current Protection | Automatic Resettable Solid-State Current Limiters |
| Power Connector | Terminal Block with Screw Clamps |
| Hot-Swappable in Rack | Yes |

### INDICATORS

| | |
|---|---|
| Indicators | Optical Link/Data Activity<br>Electrical Link/Data Activity<br>Electrical Speed<br>Power |

### MECHANICAL

| | |
|---|---|
| Overall Size | 6.5" x 6" x 1" (165 x 52 x 25.4 mm) |
| Number of Rack Slots | 1 |
| Unit Weight | <2 lb/0.9 kg |
| Shipping Weight | <2 lb/0.9 kg |

### ENVIRONMENTAL

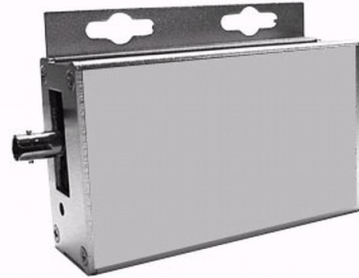| | |
|---|---|
| Operating Temperature | -40ºC to +75ºC |
| Storage Temperature | -40ºC to +85ºC |
| Relative Humidity | 0% to 95% non-condensing |
| MTBF (hours) | > 100,000 hours |

### COMPLIANCE

| | |
|---|---|
| Safety Standards Unit Complies With | UL/EN60950-1 |
| EMC Standards Unit Complies With | FCC part 15, EN55022, EN55024 |
| Laser Standards Unit Complies With | FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J |
| **Warranty (Effective Jan 1, 2009)** | |
| Limited Lifetime | |

- ● 10/100 Mbps Ethernet
- ● One or Two Fibers, Based on SFP Module
- ● Multimode or Single-mode Fiber, Based on SFP Module
- ● Wide Operating Temperature Range

## AVAILABLE MODELS

| Part number | Description |
|---|---|
| FBR-1FE1FX-SFP | 10/100 Mbps Ethernet 2-Port Media Converter, SFP Optical Port |