



FBR-2X1FE1FX Series

Dual 10/100 Mbps Ethernet 2-Port Media Converter

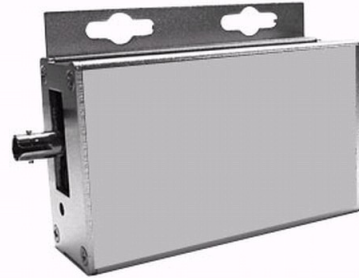
STANDARD FEATURES

- 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
- Distances up to:
 - 3 km (2 miles) Multimode
 - 45 km (28 miles) Single-mode
- Transparent to data encoding
- Hot-Swappable
- No in-field optical adjustments required
- IEEE 802.3 compliant
- Lifetime Warranty

SPECIFICATIONS

	Single-mode	Multimode
DATA		
Data Interface	Ethernet	
Data Rate	10/100 Mbps IEEE 802.3 Compliant Full Duplex or Half Duplex Electrical Port Full Duplex Optical Port	
Ethernet Connector	RJ-45	
FIBER		
Number of Fibers Required	1 per Transceiver (2 fibers max.)	
Type of Fiber	Single-mode	Multimode
Type of Optical Connector	FC	ST
Wavelengths Used (Fwd./Rvrs.)	A: 1310(Tx)/1550(Rx) nm B: 1550(Tx)/1310(Rx) nm	A: 1310(Tx)/1550(Rx) nm B: 1550(Tx)/1310(Rx) nm
Optical Power Budget	15 dB	10 dB
Maximum Distance (miles (km))	28 miles / 45 km	2 miles / 3 km
ELECTRICAL		
Power	Surface Mount: 12 VDC @ 400 mA 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 Electrical Link/Data Activity Electrical Speed Power	
MECHANICAL		
Overall Size	6.5" x 6" x 1" (165 x 152 x 254 mm)	
Number of Rack Slots	1	
Unit Weight	<2 lb/0.9 kg	
Shipping Weight	<2 lb/0.9 kg	
ENVIRONMENTAL		
Operating Temperature	-4 0°C to +75°C	
Storage Temperature	-4 0°C to +85°C	
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		

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- Two Independent Transceivers In One Enclosure
- 10/100 Mbps Ethernet
- One Fiber per Transceiver
- 3 km (2 miles) multimode
- 45 km (28 miles) Single Mode
- Wide Operating Temperature Range

AVAILABLE MODELS

Part number	Description
FBR-2X1FE1FXA-M	Dual 10/100 Mbps Ethernet 2-Port Media Converter, MM, Transceiver A
FBR-2X1FE1FXB-M	Dual 10/100 Mbps Ethernet 2-Port Media Converter, MM, Transceiver B
FBR-2X1FE1FXA-S	Dual 10/100 Mbps Ethernet 2-Port Media Converter, SM, Transceiver A
FBR-2X1FE1FXB-S	Dual 10/100 Mbps Ethernet 2-Port Media Converter, SM, Transceiver B