



FBR-1V1DRM-MINI Series

1 Channel Video/Reverse Data Fiber Optic Mini Transmitter/Receivers

STANDARD FEATURES (Multimode)

- 1-Channel Video, 1-Channel Reverse Data over one multimode fiber
- 8-bit video processing
- 13 dB optical budget
- Supports all major data formats
- Meets or exceeds EIA/TIA-250C medium haul standard
- Small form factor

SPECIFICATIONS

VIDEO

Number of Forward Video Channels	1
Type of Video Transmission Over Fiber	Digital
Number of Sample Bits	8
Gain Adjustment (Manual/Auto/None)	None
Video Bandwidth	10 Hz - 6.5 MHz
Video Signal-to-Noise Ratio (SNR)	60 dB

DATA

Number of Forward Data Channels	0
Number of Reverse Data Channels	1
Data Interface	RS-422/RS-485 (2 wire)
Operation Mode	DIP-Switch Selectable
Data Rate	D C-115 kbps (NRZ)

FIBER

Number of Fibers Required	1
Type of Fiber	Multimode
Type of Optical Connector	ST
Wavelengths Used (Fwd./Rvrs.)	850/1310 nm
Optical Power Budget	13 dB
Maximum Distance (miles (km))	2 miles / 3.2 km

ELECTRICAL

Nominal Input Voltage	12 VDC
Input Current @ Nominal Input Voltage	250 mA
Hot-Swappable in Rack (Yes/No)	Yes

INDICATORS

Indicators	Power, Link, Video, Data
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MECHANICAL

Overall Size	3.5" x 2.5" x 1"
Number of Rack Slots	N/A
Unit Weight	1.5 lb/0.7 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, EN50130-4
Laser Standards Unit Complies With	FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J
CE Mark (Yes/No)	Yes

Warranty (Effective Jan 1, 2009)

Limited Lifetime

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- 1 Channel of Video
- 1 Channel of Reverse Data
- Multimode
- Mini Transmitter/Receiver
- Affordably Priced

AVAILABLE MODELS

Part number	Description
FBR-1V1DRM-RX-MINI	1 Channel Video, 1 Channel Bi-Directional Data over a single fiber (multimode) (mini receiver)
FBR-1V1DRM-TX-MINI	1 Channel Video, 1 Channel Bi-Directional Data over a single fiber (multimode) (mini transmitter)