FBR-16V2DB Series

16-Channel Video 2-Channel Bi-Directional Data Fiber Optic Transmitter/Receivers

STANDARD FEATURES (Single-mode)
- 16-Channel Video, 2-Channel Bi-directional Data over one single-mode fiber
- 8-bit video processing
- 23dB optical budget
- Supports all major data formats
- Meets or exceeds EIA/TIA-250C medium haul standard
- Standalone or rack configurations

STANDARD FEATURES (Multimode)
- 16-Channel Video, 2-Channel Bi-directional 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
- Standalone or rack configurations

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- **16 Channels of Video**
- **2 Channels of Bi-Directional Data**
- **Single-mode and Multimode**

SPECIFICATIONS

	Single-mode	Multimode
VIDEO		
Number of Forward Video Channels	16	
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	2	
Number of Reverse Data Channels	2	
Data Interface	RS-422/RS-485 (2 or 4-wire)	
Operation Mode	DIP-Switch Selectable	
Data Rate	DC-115 kbps (NRZ)	
FIBER		
Number of Fibers Required	1	1
Type of Fiber	Single-mode	Multimode
Type of Optical Connector	FC	ST
Wavelengths Used (Fwd./Rvrs.)	1310/1550 nm	850/1310 nm
Optical Power Budget	23 dB	13 dB
Maximum Distance (miles (km))	37 miles / 60 km	2 miles / 3.2 km
ELECTRICAL		
Nominal Input Voltage	12 VDC	
Input Current @ Nominal Input Voltage	1000 mA	
Hot-Swappable in Rack (Yes/No)	Yes	
INDICATORS		
Indicators	Power, Link, Video, Data	
MECHANICAL		
Overall Size	19" x 11" x 1.75"	
Number of Rack Spaces	1 U	
Unit Weight	6.6 ln/3 kg	
ENVIRONMENTAL		
Operating Temperature	-40°C to +75°C	
Storage Temperature	-40°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		

AVAILABLE MODELS

Part number	Description
FBR-16V2DBM-RX	16 Channel Video, 2 Channel Bi-Directional Data over a single fiber (multimode) (receiver)
FBR-16V2DBM-TX	16 Channel Video, 2 Channel Bi-Directional Data over a single fiber (multimode) (transmitter)
FBR-16V2DBS-RX	16 Channel Video, 2 Channel Bi-Directional Data over a single fiber (single-mode) (receiver)
FBR-16V2DBS-TX	16 Channel Video, 2 Channel Bi-Directional Data over a single fiber (single-mode) (transmitter)