



FBR-1V1A Series

1 Channel Fiber Optic Video/Bi-Directional Audio Transmitter/Receivers

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| STANDARD FEATURES (Single-mode) <ul style="list-style-type: none"> • 1-Channel Video, 1-Channel Audio over one single-mode fiber • 8-bit video processing • 2.4-bit audio processing • 23dB optical budget • Meets or exceeds EIA/TIA-250C medium haul standard • Standalone or rack configurations | STANDARD FEATURES (Multimode) <ul style="list-style-type: none"> • 1-Channel Video, 1-Channel Audio over one multimode fiber • 8-bit video processing • 2.4-bit audio processing • 13 dB optical budget • Meets or exceeds EIA/TIA-250C medium haul standard • Standalone or rack configurations |
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- 1 Channel of Video
- 1 Channel of Bi-Directional Audio
- Single-mode and Multimode

SPECIFICATIONS

	Single-mode	Multimode
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	
AUDIO		
Number of Forward Audio Channels	1	
Number of Reverse Audio Channels	1	
Number of Sampling Bits	24	
Sampling Rate	48 KHz	
Audio Bandwidth	20 Hz - 20 kHz	
Signal-to-Noise Ratio (SNR)	> 92 dB	
Total Harmonic Distortion (THD)	< 0.01%	
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	420 mA	
Hot-Swappable in Rack (Yes/No)	Yes	
INDICATORS		
Indicators	Power, Link, Video	
MECHANICAL		
Overall Size	8.43" x 6.25" x 1"	
Number of Rack Slots	1 U	
Unit Weight	<2 lb/1 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		

AVAILABLE MODELS

Part number	Description
FBR-1V1AM-RX	1 Channel Video, 1 Channel Bi-Directional Audio over a single fiber (multimode) (receiver)
FBR-1V1AM-TX	1 Channel Video, 1 Channel Bi-Directional Audio over a single fiber (multimode) (transmitter)
FBR-1V1AS-RX	1 Channel Video, 1 Channel Bi-Directional Audio over a single fiber (single-mode) (receiver)
FBR-1V1AS-TX	1 Channel Video, 1 Channel Bi-Directional Audio over a single fiber (single-mode) (transmitter)