

FBR-16V16A2DB Series

16-Channel Video 16-Channel Bi-directional Audio 2-Channel Bidirectional Data Fiber Optic Transmitter/Receivers

STANDARD FEATURES (Single-mode) STANDARD FEATURES (Multimode)

- 1 6-Channel Video, 16-Channel Bi-directional Audio, 2-Channel Bi-directional Data over one single-mode fiber
- 8-bit video processing
 24-bit audio processing
- 23 dB optical budget
- Supports all major data formats Meets or exceeds EIA/TIA-
- Standalone or rack configurations
- 250C medium haul standard
- 16-Channel Video, 16-Channel Bi-directional Audio, 2-Channel Bi-directional Data over one multimode fiber
- 8-bit video processing
 24-bit audio processing
- 13 dB optical budget
- Supports all major data formats
- Meets or exceeds EIA/TIA-250C medium haul standard
- Standalone or rack configurations



- 16 Channels of Video
- 16 Channels of Bi-directional Audio 2 Channels of Bi-directional Data
- Single-mode and Multimode

SPECIFICATIONS

	Single-mode	M	ultimode
VIDEO			
Number of Forward Video Channels	1 6		
Type of Video	Digital		
Transmission Over Fiber			
Number of Sample Bits	8		
Gain Adjustment (Manual/Auto/None)	None		
Video Bandwidth	10Hz - 6.5MHz		
Video Signal-to-Noise Ratio (SNR)	60 dB		
DATA			
Number of Forward Data Channels	2		
Number of Reverse Data		2	
Channels		2	
Data Interface	RS-422/RS-485 (2 or 4-wire)		
Operation Mode	DTP-Switch Selectable		
Data Rate	D C-115k	bps (NRZ)	
AUDIO			
Number of Forward Audio Channels	16		
Number of Reverse Audio Channels	1 6		
Number of Sampling Bits	2 4		
Sampling Rate	48KHz		
Audio Bandwidth	20Hz - 20kHz		
Signal-to-Noise Ratio (SNR)	> 92dB		
Total Harmonic Distortion (THD)	< 0.01%		
FIBER			
Number of Fibers Required	1	1	
Type of Fiber	Single-mode	Multir	mode
Type of Optical Connector	FC	S	T
Wavelengths Used (Fwd./Rvrs.)	1310/1550 nm	850/13	10 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	100	0 mA	
Input Voltage	100		
Hot-Swappable in Rack	Υ	es	
(Yes/No)	•		
INDICATORS		VII. 5 :	
Indicators	Power, Link	, Video, Data	
MECHANICAL	40"		
Overall Size - (LxWxH)	19" x 11" x 1.75"		
Number of Rack Spaces	1 U		
Unit Weight	6.61	o/3 kg	
ENVIRONMENTAL	40.1	75.1.0	
Operating Temperature	-40 deg. C to +75 deg. C		
Storage Temperature	-40 deg. C to +85 deg. C		
Relative Humidity	0% to 95% non-condensing		g
MTBF (hours)	> 100,000 hours		

AVAILABLE MODELS

Part number	Description
FBR-16V16A2DBM-RX	16 Channel Video, 16 Channel Bi-Directional Audio, 2 Channel Bi-Directional Data over single fiber (multimode) (receiver)
FBR-16V16A2DBM-TX	16 Channel Video, 16 Channel Bi-Directional Audio, 2 Channel Bi-Directional Data over single fiber (multimode) (transmitter)
FBR-16V16A2DBS-RX	16 Channel Video, 16 Channel Bi-Directional Audio, 2 Channel Bi-Directional Data over single fiber (single- mode) (receiver)
FBR-16V16A2DBS-TX	16 Channel Video, 16 Channel Bi-Directional Audio, 2 Channel Bi-Directional Data over single fiber (single- mode) (transmitter)

COMPLIANCE

Safety Standards Unit	UL/EN60950-1		
Complies With			
EMC Standards Unit	FCC part 15, EN55022, EN55024, EN50130-4		
Complies With			
Laser Standards Unit	FDA Performance Standard for Laser Products, Title		
Complies With	21, Code of Federal Regulations, Subchapter J		
CE Mark (Yes/No)	Yes		
Warranty (Effective Jan 1, 2009)			
Limited Lifetime			