



FBR-1V1DB Series

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

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| <p>STANDARD FEATURES (Single-mode)</p> <ul style="list-style-type: none"> • 1-Channel Video, 1-Channel Bi-directional Data over one single-mode fiber • 8-bit video processing • 23 dB optical budget • Supports all major data formats • Meets or exceeds EIA/TIA-250C medium haul standard • Standalone or rack configurations | <p>STANDARD FEATURES (Multimode)</p> <ul style="list-style-type: none"> • 1-Channel Video, 1-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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- 1 Channel of Video
- 1 Channel of Bi-Directional Data
- 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 | |
| DATA | | |
| Number of Forward Data Channels | 1 | |
| Number of Reverse Data Channels | 1 | |
| 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 | 350 mA | |
| Hot-Swappable in Rack (Yes/No) | Yes | |
| INDICATORS | | |
| Indicators | Power, Link, Video, Data | |
| MECHANICAL | | |
| Overall Size | 8.43" x 6.25" x 1" | |
| Number of Rack Slots | 1 | |
| 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-1V1DBM-RX | 1 Channel Video, 1 Channel Bi-Directional Data over a single fiber (multimode) (receiver) |
| FBR-1V1DBM-TX | 1 Channel Video, 1 Channel Bi-Directional Data over a single fiber (multimode) (transmitter) |
| FBR-1V1DBS-RX | 1 Channel Video, 1 Channel Bi-Directional Data over a single fiber (single-mode) (receiver) |
| FBR-1V1DBS-TX | 1 Channel Video, 1 Channel Bi-Directional Data over a single fiber (single-mode) (transmitter) |