



FBR-4V2DB Series

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

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

- 4-Channel Video, 2-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
- 4-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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SPECIFICATIONS

| | Single-mode | Multimode |
|---|--|----------------|
| VIDEO | | |
| Number of Forward Video Channels | 4 | |
| 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 | D C-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 | 420 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 | | |

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

AVAILABLE MODELS

| Part number | Description |
|---------------|--|
| FBR-4V2DBM-RX | 4 Channel Video, 2 Channel Bi-Directional Data over a single fiber (multimode) (receiver) |
| FBR-4V2DBM-TX | 4 Channel Video, 2 Channel Bi-Directional Data over a single fiber (multimode) (transmitter) |
| FBR-4V2DBS-RX | 4 Channel Video, 2 Channel Bi-Directional Data over a single fiber (single-mode) (receiver) |
| FBR-4V2DBS-TX | 4 Channel Video, 2 Channel Bi-Directional Data over a single fiber (single-mode) (transmitter) |