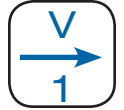


10-bit digital video



Description

The ComNet™ FVT/FVR1001 series video transmitter/receiver supports the transmission of short-haul quality 10-bit digital video over one multimode or single mode optical fiber. This module is universally compatible with major CCTV camera manufacturers. Plug-and-play design ensures ease of installation and no electrical or optical adjustments are ever required. Bi-color (Red/Green) LED indicators are provided for rapidly ascertaining equipment operating status. Packaged in the exclusive ComNet ComFit housing, these units may be either wall or rack-mounted, or may be DIN-rail mounted by the addition of ComNet model DINBKT1 adaptor plate.

Features

- 10-bit Digital Video Transmission
- Compatible with all NTSC, PAL, or SECAM CCTV camera systems
- Full Color Compatibility
- Exceeds RS-250C Short-Haul quality
- No In-field electrical or optical adjustments
- Bi-color (Red/Green) LED status indicators provide rapid indication of critical operating parameters
- Integrated WDM for greater product reliability
- Voltage transient protection on all power and signal input/output lines provides unconditional protection from power surges and other voltage transient events.
- Distances up to 69 km (43 miles) without repeaters
- Tested and certified by an independent laboratory for full compliance with the environmental requirements (ambient operating temperature, mechanical shock, vibration, humidity with condensation, high-line/low-line voltage conditions and transient voltage protection) of NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.
- Hot-Swappable Modules
- Automatic resettable fuses on all power lines
- Lifetime Warranty

Applications

- CCTV



specifications

VIDEO

| | |
|------------------------------|--|
| Video Input: | 1V pk-pk (75 ohms) |
| Overload: | >1.5V pk-pk |
| Bandwidth: | 5 Hz - 10 MHz |
| Differential Gain: | <2% |
| Differential Phase: | <0.7° |
| Tilt: | <1% |
| Signal-to-Noise Ratio (SNR): | >67 dB @ Maximum Optical Loss Budget |
| Max. RG-59 COAX Distance: | 100m (300ft) Camera to Fiber Optic Module to maintain 6Mhz Bandwidth |

WAVELENGTH

1310 nm, Multimode and Single Mode

NUMBER OF FIBERS

1

LED INDICATORS

- Optical - Video - Power

CONNECTORS

| | |
|----------|------------------------------|
| Optical: | ST |
| Power: | Terminal Block |
| Video: | BNC (Gold Plated Center-Pin) |

ELECTRICAL & MECHANICAL

| | |
|------------------------|---|
| Power: | 8-15 VDC @ 2 W |
| Surface Mount: | From Rack |
| Rack Mount: | 1 |
| Number of Rack Slots: | Automatic Resettable Solid-State Current Limiters |
| Current Protection: | Meets IPC Standard |
| Circuit Board: | 6.1 × 5.3 × 1.1 in., (15.5 × 13.5 × 2.8 cm) |
| Size (in./cm) (L×W×H): | <2 lb./0.9 kg |
| Shipping Weight: | |

ENVIRONMENTAL

| | |
|--------------------|-----------------------------|
| MTBF: | >100,000 hours |
| Operating Temp: | -40° C to +75° C |
| Storage Temp: | -40° C to +85° C |
| Relative Humidity: | 0% to 95% (non-condensing)† |

† May be extended to condensation conditions by adding suffix '/C' to model number for conformal coating.

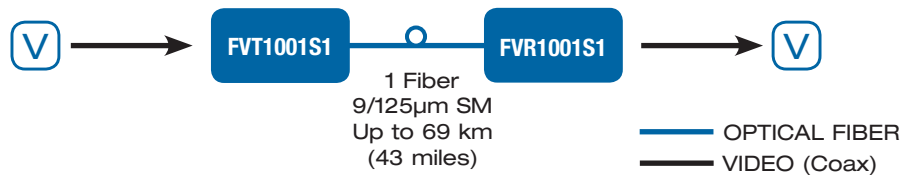


| PART NUMBER | DESCRIPTION | FIBERS REQUIRED | FIBER | OPTICAL PWR BUDGET | MAX. DISTANCE‡ | # RACK SLOTS |
|-------------|-----------------------------|-----------------|----------------------|--------------------|------------------|--------------|
| FVT1001M1 | Video Transmitter (1310 nm) | 1 | Multimode 62.5/125µm | 16 dB | 3 km (2 miles) | 1 |
| FVR1001M1 | Video Receiver (1310 nm) | | | | | |
| FVT1001S1 | Video Transmitter (1310 nm) | 1 | Single Mode 9/125µm | 23 dB | 69 km (43 miles) | 1 |
| FVR1001S1 | Video Receiver (1310 nm) | | | | | |

| | |
|-------------|--|
| Accessories | 9 Volt DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included) |
| Options | Add '/C' for Conformally Coated Circuit Boards (Extra charge, consult factory) DIN-Rail Mounting Adaptor Plate Kit – With mounting hardware (Optional, order model DINBKT1) |

NOTE: This product requires a fiber installation with a minimum 30 dB connector return loss. The use of Super Polish Connectors is recommended.
‡ Distance may be limited by optical dispersion.

Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J
In a continuing effort to improve and advance technology, product specifications are subject to change without notice.



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