

(8) 10-Bit Digital Video Channels + 2 Bi-Directional Data Channels + 1 Bi-Directional Contact Closure with SFP* Optical Devices

FVT/FVR80D2SFP















The ComNetTM FVT/FVR80D2SFP series optical video link provides transmission of eight 10-bit short-haul quality digital video channels, two bi-directional data channels and one bi-directional contact closure channel through a selectable small form factor pluggable module (SFP). The data channels support RS232, RS422 and 2 wire and 4 wire RS485. Plug-and-play design ensures ease of installation and no electrical or optical adjustments are ever required.

FEATURES

- > Up to eight 10-bit digital video channels
- > Two Bi-directional data channels
- > One Bi-directional contact closure channel
- Uses interchangeable SFPs for fiber type, distance and connector
- > Exceeds all requirements for RS-250C short-haul transmission
- Compatible with all NTSC, PAL, or SECAM CCTV camera systems
- Designed for installation in harsh out-of-plant/unconditioned industrial or roadside operating environments (-40° to +75°C ambient). Fully compliant with the environmental requirements of NEMA TS-2 for Traffic Signal Control Equipment

- Voltage transient protection on all power and signal input/output line provide protection from voltage surges and other transient events
- > Bi-color LED status indicators confirm operating status
- > Hot-swappable rack modules
- Interchangeable between stand-alone or rack mount use -ComFit
- > Lifetime warranty
- Made in the USA

^{*} SFP = Small Form-Factor Pluggable Module (sold separately)

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SPECIFICATIONS

Video

Video Input 1 volt pk-pk (75 ohms) Overload >1.5 V pk-pk Bandwidth 5 Hz - 6.5 MHz Differential Gain <2% **Differential Phase** <0.7° Tilt <1%

Signal-to-Noise Ratio (SNR) 67 dB @ Maximum Optical Loss Budget 100 m (300 ft) Camera to Fiber Optic Module to Max. RG-59 COAX Distance

maintain 6 Mhz Bandwidth

Data

Data Interface RS232, RS422 and RS485 (2W/4W)

Data Format NRZ, NRZI, Manchester, Bi-Phase and Sensornet

Data Rate DC-250 Kbps (NRZ)

Contact Interface

Response Time 0.5 msec

Dry Contact Closure Input

SPST Relay, 0.5 A Contact Rating - normally open Output

Connectors

Optical SFP modules Power Terminal Block Video RNC

Data Terminal Block **Contact Closure** Terminal Block Wavelength SFP dependent Number of Fibers¹ SFP dependent **Optical Emitter** SFP dependent Indicating LEDs > Fiber Status > Video Sync Presence

> Received Data > Transmitted Data > Power

Power

Surface Mount 8 to 15 VDC 5 W **Power Consumption** From Rack Rack Mount

Electrical & Mechanical

3 **Number of Rack Slots**

Current Protection Automatic Resettable Solid-State Current Limiters

Circuit Board Meets IPC Standard

Size (in./cm) (L×W×H) $6.1 \times 5.3 \times 2.2$ in $(15.5 \times 13.5 \times 5.6$ cm)

Shipping Weight < 2 lb / 0.9 kg

Environmental

MTRF >100,000 hours **Operating Temp** -40° C to +75° C Storage Temp -40° C to +85° C

Relative Humidity 0% to 95% (non-condensing)2

[1] Multimode fiber needs to meet or exceed fiber standard ITU-T G.651. Single mode fiber needs to meet or exceed fiber standard ITU-T G.652











ORDERING INFORMATION

Part Number Description

FVT80D2SFP 8 Channel Video, 2 Channel Data / 1 Channel Contact FVR80D2SFP 8 Channel Video, 2 Channel Data / 1 Channel Contact DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included) Included Accessories

Options [2] Add suffix '/C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory)

User-selection of SFP modules (Extra charge, consult factory)

DIN-Rail Mounting Adaptor Plate Kit - With mounting hardware (Optional, order model DINBKT1 or DINBKT4)

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.

TYPICAL APPLICATION







