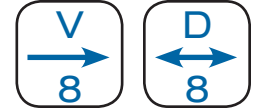


(8) 10-bit digital video channels with 8 bi-directional data channels with small form-factor pluggable (SFP) optical devices



## Description

The ComNet™ FVT/FVR80D8SFP series optical video link provides transmission of eight 10-bit short-haul quality digital video channels and eight bi-directional data channels 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. Bi-color (Red/Green) LED indicators are provided for confirming operating status. These units are interchangeable between stand-alone or rack mount configurations.

## Features

- Up to eight 10-bit digital video channels
- 8 Bi-directional data channels
- 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
- 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.
- Voltage transient protection on all power and signal input/output lines provides unconditional protection from power surges and other voltage transient events.
- Automatic resettable fuses on all power lines
- Hot-swappable rack modules
- Interchangeable between stand-alone or rack mount use
  - ComFit
- Bi-color (Red/Green) LED status indicators provide rapid indication of critical operating parameters
- Lifetime Warranty



# FVT/FVR80D8SFP (8) 10-bit digital video channels with 8 bi-directional data channels with small form-factor pluggable (SFP) optical devices

## specifications

### VIDEO

Video Input:	1 volt pk-pk (75 ohms)
Overload:	>1.5V 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
Max. RG-59 COAX Distance:	100m (300ft) Camera to Fiber Optic Module to maintain 6Mhz 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)

### WAVELENGTH

SFP (Small Form-Factor Pluggable) dependent

### NUMBER OF FIBERS\*

SFP (Small Form-Factor Pluggable) dependent

### OPTICAL EMITTER

SFP (Small Form-Factor Pluggable) dependent

### LED INDICATORS

- Fiber Status - Video Sync Presence
- Received Data - Transmitted Data - Power

### CONNECTORS

Optical:	SFP modules
Power:	Terminal Block
Video:	BNC
Data:	RJ45 (5 pcs. Included)

Accessories	9 Volt DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included) (5) RJ45 - RJ45 Breakout Wiring Kit (Includes cable and terminal block)
Options	Add 'C' for Conformally Coated Circuit Boards (Extra charge, consult factory) Add "HP" for 23dB DIN-Rail Mounting Adaptor Plate Kit – With mounting hardware (Optional, order model DINBKT1)

### ELECTRICAL & MECHANICAL

Power:	8-15 VDC @ 5W
Surface Mount:	From Rack
Rack Mount:	3
Number of Rack Slots:	Automatic Resettable Solid-State Current Limiters
Current Protection:	Meets IPC Standard
Circuit Board:	6.1 × 5.3 × 3.3 in., (15.5 × 13.5 × 8.3 cm)
Size (in./cm) (L×W×H):	<2 lb./0.9 kg
Shipping Weight:	

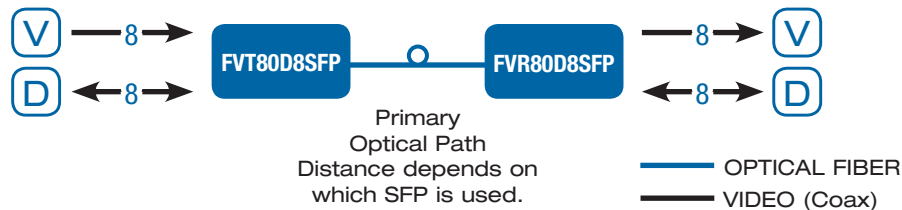
### ENVIRONMENTAL

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)†

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



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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