(8) 10-bit digital video channels with 4 bi-directional data channels with small form-factor pluggable (SFP) optical devices

Description

The ComNet™ FVT/FVR80D4SFP series optical video link provides transmission of eight 10-bit short-haul quality digital video channels and four 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 card mount configurations.

Features

- Up to eight 10-bit digital video channels

- 4 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/FVR80D4SFP

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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:	<0.7º
Tilt:	<1%
Signal-to-Noise Ratio (SNR):	67 dB @ Maximum Optical Loss Budget

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[1]

SFP (Small Form-Factor Pluggable) dependent

OPTICAL EMITTER

SFP (Small Form-Factor Pluggable) dependent

LED INDICATORS

FVT Transmitter/Data Transceiver Unit:	FVR Receiver/Data Transceiver Unit:
- Fiber Status	- Fiber Status
- Video Input Sync Presence	- Video Output Sync Presence
- Received Data	- Received Data
- Transmitted Data	- Transmitted Data
- Power	- Power

AGENCY COMPLIANCE

FC PART 15 COMPLIANT CE c UL us E322201 RoHS COMPLIANT C N4021

CONNECTORS

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

ELECTRICAL & MECHANICAL

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

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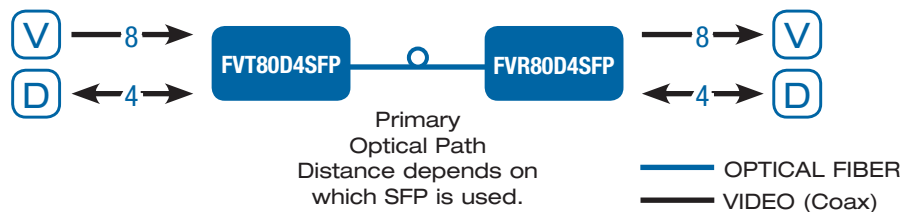
MTBF:	>100,000 hours
Operating Temp:	-40˚ C to +75˚ C
Storage Temp:	-40˚ C to +85˚ C
Relative Humidity:	0% to 95% (non-condensing)†

[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

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

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)

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.

Primary Optical Path Distance depends on which SFP is used.

— OPTICAL FIBER
— VIDEO (Coax)