



INCLUDED



HARDENED



FLEXIBILITY



8



4



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.

FEATURES

- › Up to eight 10-bit digital video channels
- › Four 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
- › 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)

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
Max. RG-59 COAX Distance	100 m (300 ft) Camera to Fiber Optic Module to 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)

Wavelength

SFP dependent

Number of Fibers¹

SFP dependent

Optical Emitter

SFP dependent

LED Indicators

> Fiber Status > Video Output Sync Presence
> Received Data > Transmitted Data > Power

Connectors

Optical	SFP modules
Power	Terminal Block
Video	BNC
Data	RJ45 (5 pieces included)

Power

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

Electrical & Mechanical

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 × 2.2 in (15.5 × 13.5 × 5.6 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) 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

AGENCY COMPLIANCE



ORDERING INFORMATION

Part Number	Description
FVT80D4SFP	8 Channel Video / 4 Channel Data
FVR80D4SFP	8 Channel Video / 4 Channel Data

Included Accessories DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included)
5 × RJ45 - RJ45 Breakout Wiring Kit (Includes cable and terminal block)

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

