POWER SUPPLY	75° -40°	SFP	VIDEO	DATA
INCLUDED	HARDENED	FLEXIBILITY	8	8

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.

FEATURES

› Up to eight 10-bit digital video channels

› Eight 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)

(8) 10-Bit Digital Video Channels with 8 Bi-Directional Data Channels with 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[1]
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)

Power

Surface Mount	8 to 15 VDC
Power Consumption	5W
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 (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

ORDERING INFORMATION

Part Number	Description
FVT80D8SFP	8 Channel Video / 8 Channel Data Transmitter
FVR80D8SFP	8 Channel Video / 8 Channel Data Receiver
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 "HP" for 23dB [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

Optic Fiber Count and Type dependent on user selection of SFP modules.

OPTICAL FIBER
COPPER CABLE

09 Jan 2015