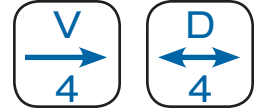


(4) 10-bit digital video channels with 4 bi-directional data channels with small form-factor pluggable (SFP) optical devices



Description

The ComNet™ FVT/FVR40D4SFP series optical video link provides transmission of four 10-bit medium-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 four 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 medium 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 Modules
- Bi-color (Red/Green) LED status indicators provide rapid indication of critical operating parameters
- Lifetime Warranty



FVT/FVR40D4SFP (4) 10-bit digital video channels with 4 bi-directional data channels using small form-factor pluggable (SFP) opticals

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

DATA

Data Interface:	RS-232, RS-422 and RS-485 (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 dependent

OPTICAL EMITTER

SFP 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

CONNECTORS

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

ELECTRICAL & MECHANICAL

Power:	
Surface Mount:	8-15 VDC @ 3W
Rack Mount:	From Rack
Number of Rack Slots:	2
Current Protection:	Automatic Resettable Solid-State Current Limiters
Circuit Board:	Meets IPC Standard
Size (in./cm) (LxWxH)	6.1 x 5.3 x 2.2 in., (15.5 x 13.5 x 5.6 cm)
Shipping Weight:	<2 lb./0.9 kg

ENVIRONMENTAL

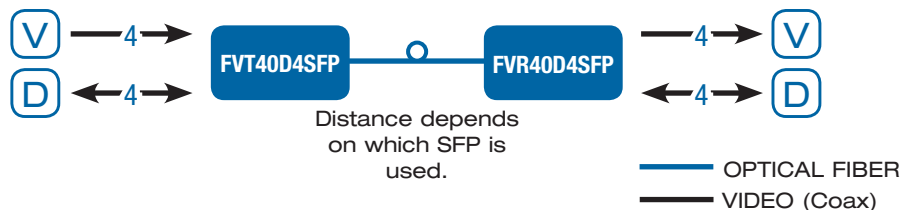
MTBF:	>100,000 hours
Operating Temp:	-40° C to +75° C
Storage Temp:	-40° C to +85° C
Relative Humidity:	0% to 95% (non-condensing)†

* 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.



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