

Fiber Transmission 8-bit Video Transmitters & Receivers

Overview

GE's FV1 Series is now IFS. For use in industrial security and Intelligent Transportation Systems (ITS) applications, the IFS FV1 Series video fiber transmitters and receivers feature a robust design well suited for harsh environments. The IFS FV1 Series supports 8-bit PCM digital video transmission that provides no video degradation versus optical path loss. All modules are laser-based and optimized for the highest optical performance on either one multi-mode or single-mode fiber.

The plug-and-play design provides broad-range compatibility with major video surveillance manufacturers. The unique unified modular design can easily be deployed in either stand-alone or rack-mount applications. In-field configuration flexibility includes a diverse range of optics and connector choices to meet specific system and connectivity requirements. In addition, remote health and status monitoring can be implemented via the IFS Smart Rack IP Network Module.

Standard Features

Video

- Compatible with NTSC or PAL video standards
- 8-bit digitally encoded (non-compressed) video transmission
- No video degradation over the entire operating distance

Optical

- · One fiber design
- High-performance laser-based optics
- Multi-mode or single mode versions
- Distances up to 60Km

Robust Design

- Plug-and-play design, no in-field adjustments required
- Unified modular design for stand-alone or rack-mount installation
- Hot-swappable design with solid-state current limiters
- Wide operating temperature range of -40° C to +75° C
- · Designed for use in harsh environments

Local & Remote Diagnostics

- Service-friendly LED status indicators on both front and rear of the module provide for local monitoring
- Remote health and status monitoring via Smart Rack IP Network Module

Warranty

Comprehensive Lifetime Warranty

FV1 Series 8-bit Digital Video Transmitters and Receivers



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Specifications subject to change without notice.

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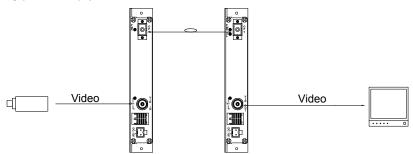
Specifications

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Video			
Video I/O	1 volt pk-pk (75 ohms)		
Bandwidth	6 Mhz		
Differential Gain	<2%		
Differential Phase	<1° Typical		
Tilt	1%		
SNR-CCIR Weighted	≥ 53dB		
Optical			
Emitter Type	Laser diode		
Wavelength	1310nm or 1550nm		
Number of Fibers	1		
LED Indicators			
Video Presence	Green/Present; Red/Absent		
Power	Green/On		
Connectors			
Video	BNC		
Optical	ST (Standard); optional SC or FC connector kits available		
Power (surface-mount)	2-pin screw terminal block		
Power (rack-mount)	10-pin smart bus connector		
Electrical & Mechanical			
Operating Voltage	12VDC		
Current Draw	500mA Max.		
Current Protection	Automatic resettable fuse		
Dimensions (in./cm.) (HwWxD)	1.0 x 6.2 x 9.1 in. / 2.54 x 15.84 x 23.18 cm (1-slot)		
Shipping Weight	1.2 lbs. / 0.55kg (1-slot)		
Environmental			
MTBF	>100,000 hours		
Operating Temperature	-40° C to +75° C		
Storage Temperature	-40° C to +85° C		
Relative Humidity	0 to 95% non-condensing		
Regulatory Compliance	FCC, UL, CE, C-Tick, FDA		

Ordering Information

Fiber	Part Number	Description	Wavelength	Optical Pwr Budget*	Max. Distance**	Rack Slots
FV1 Series Fixed Video Transmission						
Multi-mode 62.5/125µm	FVMM1-TX FVMM1-RX	Digital 8-bit Video TX, 1 MM Fiber Digital 8-bit Video RX, 1 MM Fiber	1310 nm	12 dB	2.5 miles (4km)	1
Single-mode	FVSM1-TX FVSM1-RX	Digital 8-bit Video TX, 1 SM Fiber Digital 8-bit Video RX, 1 SM Fiber	1310 nm	18 dB	25 miles (40km)	1
9/125μm	Σ5μm FVSML1-TX Digital 8-bit Video TX, 1 SM Fiber, LD 1550 nm FVSML1-RX Digital 8-bit Video RX, 1 SM Fiber, LD	1550 nm	25 dB	37 miles (60km)	1	

Typical Application



Accessories

Connector Kits	
SC/FC-OA	SC to FC Optical Adaptor
SC/SC-OA	SC to SC Optical Adaptor
SC/ST-OA	SC to ST Optical Adaptor
Cable Kits	
SC/LC-MM-FPC	SC to LC MM Fiber Patch Cord
SC/LC-SM-FPC	SC to SC Optical Adaptor
Smart Rack Chassis	
DFR	Smart Rack -Chassis Only

Security Products by GE are now part of the UTC Fire & Security family





^{*} For 50/125 fiber, subtract 4dB from optical power budget
** Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels.
Operating distance for multi-mode is limited by fiber bandwidth due to the inherent characteristic of modal dispersion within MM fiber.
Note: Power supply must be ordered separately.