Overview

GE's 10-bit fiber modules are now IFS. These IFS video transmitters/receivers and multiplexers support 10-bit PCM digital video transmission that provides no video degradation versus optical path loss. All modules are laser-based and optimized for highest optical performance on either one multi-mode or single mode fiber.

The plug-and-play design provides broad-range compatibility with major CCTV manufacturers. The unique unified modular design can easily be deployed in either standalone 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.

For use in industrial security and Intelligent Transportation Systems (ITS) applications, these products feature a robust design that is ideal for deployment in harsh environments.

Standard Features

Video

- Compatible with NTSC or PAL video standards
- 10-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
- Solid-state current limiters
- Wide operating temperature range of -40° C to +75° C
- Designed for use in harsh environments

Local and Remote Status and Health Monitoring

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

Warranty

- Comprehensive Lifetime Warranty

10-bit Digital Video 1-Channel Transmitters & Receivers 2- and 4-Channel Multiplexers

North America
T 888-437-3287
F 503-691-7566
E sales@ifs.com

Asia
T 852-2907-8108
F 852-2142-5063

Australia and New Zealand
T 613-9239-1200
F 613-9239-1299

Europe
T 44-113-238-1668
F 44-113-253-8121

Latin America
T 561-998-6100
F 561-994-6572

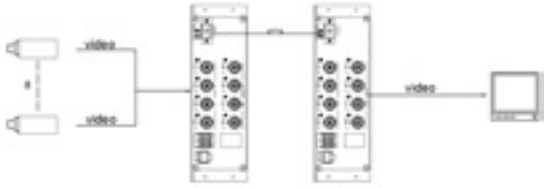
interlogix.com
ufcfireandsecurity.com

Specifications subject to change without notice.

Specifications

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	> 60 dB
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.) (HxWxD)	(1-slot) 1.0 x 6.2 x 9.1 in. (2.54 x 15.84 x 23.18 cm) (2-slot) 2.0 x 6.2 x 9.1 in. (5.08 x 15.84 x 23.18 cm)
Shipping Weight	(1-slot) 1.2 lbs. / 0.55kg (2-slot) 1.8 lbs. / 0.80kg
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

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

Ordering Information

Fiber	Part Number	Description	Wavelength	Optical Pwr Budget*	Max. Distance**	Rack Slots
Fixed Video Transmission						
Multi-mode 62.5/125µm	DFVMM1-T DFVMM1-R	Digital Video TX, 1 MM Fiber Digital Video RX, 1 MM Fiber	1310 nm	12 dB	2.5 miles (4km)	1
Single mode 9/125µm	DFVSM1-T DFVSM1-R	Digital Video TX, 1 SM Fiber Digital Video RX, 1 SM Fiber	1310 nm	18 dB	25 miles (40km)	1
	DFVSML1-T DFVSML1-R	Digital Video TX, 1 SM Fiber, LD Digital Video RX, 1 SM Fiber, LD	1310 nm	25 dB	37 miles (60km)	1
2-channel Video Multiplexer						
Multi-mode 62.5/125µm	DFVMM2-T DFVMM2-R	2-Ch Digital Video Mux TX, 1 MM Fiber 2-Ch Digital Video Mux RX, 1 MM Fiber	1310 nm	10 dB	2 miles (3km)	1
Single mode 9/125µm	DFVSM2-T DFVSM2-R	2-Ch Digital Video Mux TX, 1 SM Fiber 2-Ch Digital Video Mux RX, 1 SM Fiber	1550 nm	14 dB	25 miles (40km)	1
	DFVSML2-T DFVSML2-R	2-Ch Digital Video Mux TX, 1 SM Fiber, LD 2-Ch Digital Video Mux RX, 1 SM Fiber, LD	1550 nm	19 dB	37 miles (60km)	1
4-channel Video Multiplexer						
Multi-mode 62.5/125µm	DFVMM4-T DFVMM4-R	4-Ch Digital Video Mux TX, 1 MM Fiber 4-Ch Digital Video Mux RX, 1 MM Fiber	1310 nm	8 dB	1.2 miles (2km)	1
Single mode 9/125µm	DFVSM4-T DFVSM4-R	4-Ch Digital Video Mux TX, 1 SM Fiber 4-Ch Digital Video Mux RX, 1 SM Fiber	1550 nm	14 dB	25 miles (40km)	1
	DFVSML4-T DFVSML4-R	4-Ch Digital Video Mux TX, 1 SM Fiber, LD 4-Ch Digital Video Mux RX, 1 SM Fiber, LD	1550 nm	19 dB	37 miles (60km)	1

*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.

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

UTC Fire & Security
A United Technologies Company

107-3440 2011/07 (65303A)