Overview

GE's 8-channel Digital Video Multiplexers are now IFS. For use in industrial security and Intelligent Transportation Systems (ITS) applications, the IFS 8-channel digital video multiplexers feature a robust design well suited for harsh environments. These models support 10-bit PCM digital video transmission that provides no video degradation vs. 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
- 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
- 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 and diagnostics
- Remote health & status monitoring via Smart Rack IP Network Module

Warranty

- Comprehensive Lifetime Warranty

8-Channel 10-bit Digital Video 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

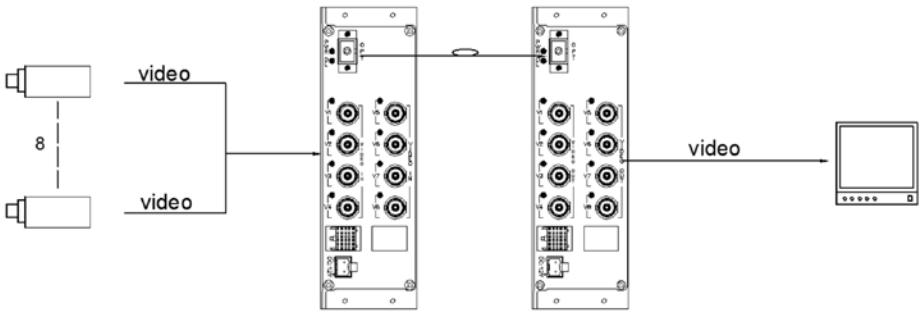
Video	
Video I/O	1 volt pk-pk (75 ohms)
Bandwidth	6 Mhz
Differential Gain	<2%
Differential Phase	<1° Typical
Tilt	1%
SNR-CCIR Weighted	> 55 dB
Optical	
Emitter Type	Laser diode
Wavelength	1310nm or 1550nm
Number of Fibers	1
LED Indicators	
Video Presence	Green/Present; Red/Absent
Power	Green/On
Connectors	
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)	2.0 x 6.2 x 9.1 in. (5.08 x 15.84 x 23.18 cm)
Shipping Weight	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

Ordering Information

Fiber	Part Number	Description	Wavelength	Optical Pwr Budget*	Max. Distance**	Rack Slots
Fixed Video Transmission						
Multi-mode 62.5/125µm	DFVMM8-T DFVMM8-R	8-Ch Digital Video Mux TX, 1 MM Fiber 8-Ch Digital Video Mux RX, 1 MM Fiber	1310 nm	6 dB	.62 miles (1km)	2
Single mode 9/125µm	DFVSM8-T DFVSM8-R	8-Ch Digital Video Mux TX, 1 SM Fiber 8-Ch Digital Video Mux RX, 1 SM Fiber	1550 nm	14 dB	25 miles (40km)	2
	DFVSML8-T DFVSML8-R	8-Ch Digital Video Mux TX, 1 SM Fiber, LD 8-Ch Digital Video Mux RX, 1 SM Fiber, LD	1550 nm	19 dB	37 miles (60km)	2

*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.

Typical Application



Accessories

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

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

UTC Fire & Security
A United Technologies Company