



Overview

GE's 8-channel Video & Data Multiplexes are now IFS. For use in industrial security and Intelligent Transportation Systems (ITS) applications, the IFS 8-channel video multiplexers with data transceivers feature a robust design well suited for harsh environments. These modules support 10-bit PCM digital video transmission that provides no video degradation versus optical path loss, as well as, RS 232/422/485 serial data. 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.

8-Channel 10-bit Digital Video & Data Multiplexers

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

Data

- Meets EIA RS-232/422/485 specifications
- Full RS-485 Tri-state support
- Simplex or full-duplex operation
- Transparent to data encoding
- Data rates up to 115.2Kbps

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

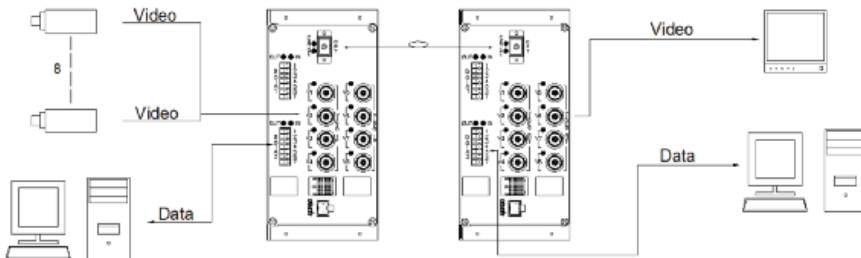
- Comprehensive Lifetime Warranty



Specifications

Video	
Video I/O	1 volt pk-pk (75 ohms)
Bandwidth	6 Mhz
Differential Gain	<2%
Differential Phase	<1° Typical
Tilt	0.01
SNR-CCIR Weighted	> 55dB
Data	
Data Interface	RS-232, RS-422, RS-485 (2- or 4-wire) w/Tri-state
Data Format	DIP switch-selectable
Data Rate	0~115.2Kbps
Operating Mode	Simplex or Full Duplex
Data Protocol	Protocol transparent
Line Carrier Detection	RS-485 (2/4-wire) Tri-state output
Optical	
Emitter Type	Laser diode
Wavelength	1310/1550nm
Number of Fibers	1
LED Indicators	
Video Presence	Green/Present; Red/Absent
Data Status	Green/Present; Red/Absent
Power	Green/On
Connectors	
Video	BNC
Data	7-pin screw terminal
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.) (H x W x D)	(2-slot) 2.0 x 6.2 x 9.1 in. (5.08 x 15.84 x 23.18 cm) (3-slot) 3.0 x 6.2 x 9.1 in. (7.62 x 15.84 x 23.18 cm)
Shipping Weight	(2-slot) 2.8 lbs. / 1.07kg (3-slot) 2.8 lbs. / 1.27kg
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



Ordering Information

Fiber	Part Number	Description	Wavelength	Optical Pwr Budget*	Max. Distance**	Rack Slots
8-Ch Video Mux/Data Transceiver						
Multi-mode 62.5/125µm	DFVMMD801-T	8-Ch Digital Video Mux TX/Data TCVR, 1 MM Fiber	1310/1550 nm	6 dB	.62 miles (1km)	2
	DFVMMD801-R	8-Ch Digital Video Mux RX/Data TCVR, 1 MM Fiber				
Single-mode 9/125µm	DFVSMD801-T	8-Ch Digital Video Mux TX/Data TCVR, 1 SM Fiber	1310/1550 nm	14 dB	25 miles (40km)	2
	DFVSMD801-R	8-Ch Digital Video Mux RX/Data TCVR, 1 SM Fiber				
	DFVSMLD801-T	8-Ch Digital Video Mux TX/Data TCVR, 1 SM Fiber, LD	1310/1550 nm	19 dB	37 miles (60km)	2
	DFVSMLD801-R	8-Ch Digital Video Mux RX/Data TCVR, 1 SM Fiber, LD				
8-Ch Video Mux/2-Ch Data Transceiver						
Multi-mode 62.5/125µm	DFVMMD802-T	8-Ch Digital Video Mux TX/2-Ch Data TCVR, 1 MM Fiber	1310/1550 nm	6 dB	.62 miles (1km)	3
	DFVMMD802-R	8-Ch Digital Video Mux RX/2-Ch Data TCVR, 1 MM Fiber				
Single-mode 9/125µm	DFVSMD802-T	8-Ch Digital Video Mux TX/ 2-Ch Data TCVR, 1 SM Fiber	1310/1550 nm	14 dB	25 miles (40km)	3
	DFVSMD802-R	8-Ch Digital Video Mux RX/ 2-Ch Data TCVR, 1 SM Fiber				
	DFVSMLD802-T	8-Ch Digital Video Mux TX/ 2-Ch Data TCVR, 1 SM Fiber, LD	1310/1550 nm	19 dB	37 miles (60km)	3
	DFVSMLD802-R	8-Ch Digital Video Mux RX/ 2-Ch Data TCVR, 1 SM Fiber, LD				

*For 50/125 fiber, subtract 4dB from optical 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.

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
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