



Overview

GE's 8-bit digital mini video modules are now IFS. For use in industrial security and Intelligent Transportation Systems (ITS) applications, the 8-bit miniature video transmitters and receivers feature a robust design well-suited for harsh environments. These modules support 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.

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

- Single-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
- Miniature form-factor
- Hot-swappable design
- Wide operating temperature range of -40°C to $+75^{\circ}\text{C}$
- Designed for use in harsh environments

Local Diagnostics

- Service-friendly LED status indicators provide for local monitoring

Warranty

- Comprehensive Lifetime Warranty

8-bit Digital Mini Video Transmitters and Receivers



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

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 T 561-998-6100
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Specifications subject to
 change without notice.

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Specifications

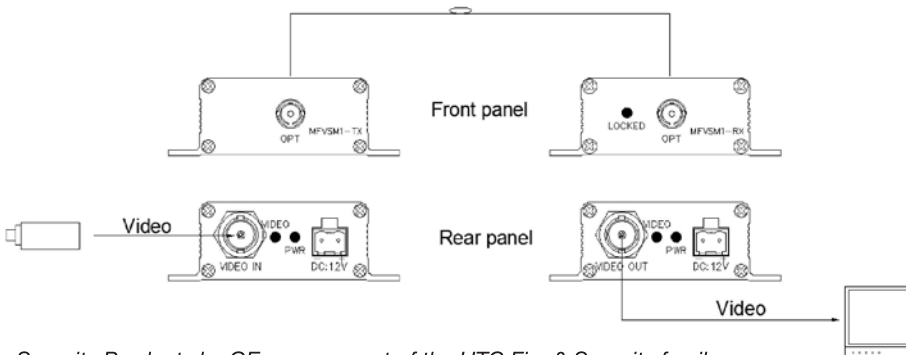
Video	
Video I/O	1 volt pk-pk (75 ohms)
Bandwidth	6 Mhz
Differential Gain	<2%
Differential Phase	<1° Typical
Tilt	1%
SNR-CCIR Weighted	≥ 53dB
Optical	
Emitter Type	Laser diode
Wavelength	1310nm
Number of Fibers	1
LED Indicators	
Video Presence	Green/Present; Red/Absent
Power	Green/On
Connectors	
Video	BNC
Optical	ST (Standard)
Power (surface-mount)	2-pin screw terminal block
Electrical & Mechanical	
Operating Voltage	12VDC
Current Draw	500mA Max.
Current Protection	Automatic resettable fuse
Dimensions (in./cm.) (HxWxD)	1.5 x 2.75 x 4.2 in. (3.8 x 7 x 10.7 cm)
Shipping weight	.44 lbs. / 0.20kg
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	MFVMM1-TX	Digital 8-bit Mini Video TX, 1 MM Fiber	1310 nm	12 dB	2.5 miles (4km)	NA
	MFVMM1-RX	Digital 8-bit Mini Video RX, 1 MM Fiber				
Single mode 9/125µm	MFVSM1-TX	Digital 8-bit Mini Video TX, 1 SM Fiber	1310 nm	18 dB	25 miles (40km)	NA
	MFVSM1-RX	Digital 8-bit Mini Video RX, 1 SM Fiber				
	MFVSML1-TX	Digital 8-bit Mini Video TX, 1 SM Fiber, LD	1310 nm	25 dB	37 miles (60km)	NA
MFVSML1-RX	Digital 8-bit Mini Video RX, 1 SM Fiber, LD					

* 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



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



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