(8-Bit) Single-Channel Video Transmitter/Receiver

Overview

The video and data series fiber transmission products (Micro Type) deliver optical transmission of 8-Bit PCM coded video through one fiber either in multi-mode or single-mode for convenience and flexibility. Adjustment and maintenance free, these modules are universally compatible with major CCTV camera manufacturers and support data interface.

The unit's unique modular design for in field configuration also accommodates installation and system growth and delivers long operating distances of up to 60 Km. The Micro Type products feature robust construction well suited for harsh environments and are available in wall mount configuration. Plug-and-Play design ensures ease of installation requiring no electrical or optical adjustments.

Standard Features

Video

- Non-compressed 8-Bit Digitally Encoded Video Transmission
- Support NTSC & PAL video systems
- No video degradation over max. operating distance

LEDs

• LED indicators on the front and rear of the unit for the convenience of observation

Single-Channel Video

(8-Bit) Transmitter/ Receiver



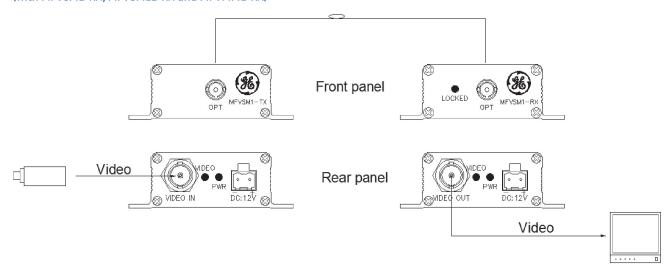


Specifications

Video			
Number of Channels	1		
Color Systems	NTSC	PAL	
I/O Impedance	75 Ohm	75 Ohm	
I/O Composite Video Level	1Vp-p ± 5.5 IRE	700mVp-p ± 40 IRE	
Sync Amplitude	40± 4 IRE	300± 30 IRE	
Burst Amplitude	40± 4 IRE	300± 30 IRE	
Bandwidth	≥4.6MHz	≥5.8MHz	
Differential Gain	<2%	<2%	
Differential Phase	<1 Degree Typical	<1 Degree Typical	
SNR-CCIR weighted	≥ 53dB	≥ 53dB	
Tilt	<1 %	<1 %	
K-factor	1%	1.5%	
Signal Indication (Video Presence/ Absence)	Green/Red LED lit	Green/Red LED lit	
Input/output Connectors	BNC	BNC	
Optical			
Wavelength	1310		
Number of Fiber	1		
Tx Output Power:			
Single Mode (40Km)	1310nm	-9dBm± 3 dBm	
Multi-mode (4Km)	1310nm	-7dBm ± 3 dBm	
Optical Buget:			
Multi-mode (62.5µm/125µm)	12dB		
Single-mode (9µm/125µm)	18dB (wavelength in 1310r	nm)	
Single-mode (9µm/125µm)			
Long Haul	25dB (wavelength in 1310nm)		
Transmission Distance:			
Multi-Mode (Limited by Fiber Bandwidth)	4Km		
Single-Mode	40Km		
Single-Mode (Long Haul)	40Km		
Fiber Connector (Standard Supply)	ST		
Mechanical			
Dimensions or Module H x W x D in mm	70 × 107 × 23.6		
Shipping weight	0.20 kg		
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		
Power Requirement			
	12V DC	an outernal adapter via the 2 si-	
		(Standalone: derived from an external adaptor via the 2-pin connector at rear of the module. Rack chassis: derived from the	
Supply Voltage			
Supply Voltage	connector at rear of the m	nodule. Rack chassis: derived from the	
Supply Voltage Card Protection	connector at rear of the m		

Application Diagrams

Cable connection of MFVSM1-TX, MFVSML1-TX, MFVMM1-TX (with MFVSM1-RX, MFVSML1-RX and MFVMM1-RX)



For DC rated Units: This product is intended to be supplied by a UL Listed Direct Plug-In Power Unit marked "Class 2" or "LPS" and output rated 12 VDC, 1 Amp minimum.

MFVSM1-TX	MFVSM1-RX
MFVSML1-TX	MFVSML1-RX
MFVMM1-TX	MFVMM1-RX

North America

T 888-GE-SECURITY 888-437-3287

F 503-691-7566

Asia

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

1 032-2142-3003

Australia and New Zealand

T 613-9239-1200

F 613-9239-1299

Europe

T 32-2-719-98-47

F 32-2-719-98-46

Latin America

T 305-593-4301

F 305-593-4300

Specifications subject to change without notice.

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Ordering information

Fiber Type		Part Number	Description	Opt. PWR. Budget dB	Max. Distance Km
(I) Single-mode (9/125µm)	(i)V	MFVSM1-TX	1-Ch. Video Transmitter	18	40
node		MFVSM1-RX	1-Ch. Video Receiver	18	40
(II) Single-mode (9/125µm For Long Distance)	(i)V	MFVSML1-TX	1-Ch. Video Transmitter	25	60
-mode For ance)		MFVSML1-RX	1-Ch. Video Receiver	25	60
(III) Multi-mode (62.5/125µm)	(i)V	MFVMM1-TX	1-Ch. Video Transmitter	12	4
mode µm)		MFVMM1-RX	1-Ch. Video Receiver	12	4

Accessories	DFR. 19' Rack mount chassis purchased separately for housing modules
Options	ST type connector is standard

Notes: Transmission distance will suffer if additional losses are introduced by the optical connectors, fusions, splices and the fibers within the network. Operating distance of multimode is limited by the characteristics of the fiber bandwidth

Model Number Key

DF	10 bit rack/module
F	8 bit rack/module
MF	8 bit module only
V	Video
D	Data
Α	Audio
CC	Contact Closure

SM	Single mode
MM	Multimode
MF	8 bit module only
L	Long distance
D	Duplex

First digit	Number of video channels
Second digit	Number of audio channels
Third digit	Number of data channels
Forth digit	Number of contact closures
Т	Transmitter
R	Receiver

Part Number Key

