(8-Bit) Video Integrated Fiber-Optic Receiver

Overview

The video series fiber transmission products support triple independent optical transmission of 8-Bit PCM coded video through three fibers 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.

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. Featuring robust construction well suited for harsh environments, the unit is 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

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

Optical

 Recover three separate channels of non-compressed 8-bit digital video and bi-directional data in one module

Network management system for rack communications

- Web browser support
- Systems video, audio, data and contact closure performance monitoring
- System devices and components Transmitters, Receivers,
 Modules, etc. status monitoring and operational management
- LAN, Ethernet networking capabilities
- IP addressable
- · Alarm activation, execution, message responding and reporting
- Operational level determination and access control
- Network ready for health and connection monitoring

3-Channel Digital

(8-Bit) Video Integrated Fiber-Optic Receiver



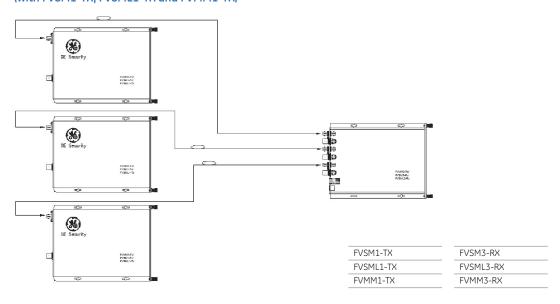


Specifications

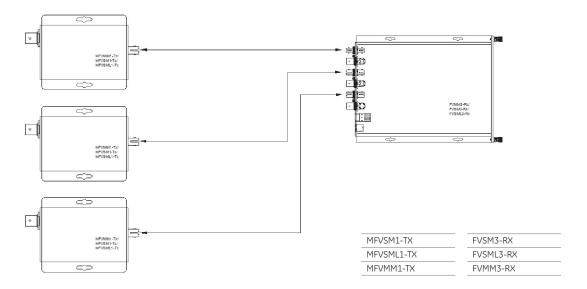
1			
Video			
Number of Channels	3 (1 @ fibers)		
Color Systems	NTSC	PAL	
I/O Impedance	75 Ohm	75 Ohm	
I/O Composite Video Level	1Vp-p ± 5.5 IRE	700mVp-p ± 40 IRE	
Sync Amplitude	40± 4 IRE	300± 30 IRE	
Burst Amplitude	40± 4 IRE	300± 30 IRE	
Bandwidth	≥4.6MHz	≥5.8MHz	
Differential Gain	<2%	<2%	
Differential 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	3		
Tx Output Power:			
Single Mode (40Km)	1310nm	-9dBm± 3 dBm	
Multi-mode (4Km)	1310nm	-7dBm ± 3 dBm	
Optical Budget:			
Multi-mode (62.5µm/125µm)	10dB		
Single-mode (9µm/125µm)	14dB		
Transmission Distance:			
Multi-Mode (Limited by Fiber Bandwidth)	4Km		
Single-Mode (Limited by Fiber Bandwidth)	40Km		
Fiber Connector (Standard Supply)	ST		
Power Requirement			
Supply Voltage	12V DC (Standalone: derived from	an external adaptor via the 2-pin	
Supply voltage	connector at rear of the module. Rack chassis: derived from the chassis PSU via the 30-pin connector at rear of the module.		
Cord Protection	Poly Fuse (1 A)		
Current Consumption	Max. 500mA		
Mechanical			
Dimensions or Module H x W x D in mm	25.4 × 158.4 × 231.8		
Shipping weight	0.80 kg		
эттрриту weight	0.00 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-condensir	ng	

Application Diagrams

Cable connection of FVSM3-RX, FVSML3-RX, FVMM3-RX (with FVSM1-TX, FVSML1-TX and FVMM1-TX)



Cable connection of FVSM3-RX, FVSML3-RX, FVMM3-RX (with MFVSM1-TX, MFVSML1-TX and MFVMM1-TX)



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F 503-691-7566

Asia

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

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	No. of slots
(l) Single-mode (9/125µm)	FVSM3-RX	3-Channel Digital (8-Bit) Video Integrated Fiber-Optic Receiver	14	40	21
(II) Single-mode (9/125µm For Long Distance)	FVSML3-RX	3-Channel Digital (8-Bit) Video Integrated Fiber-Optic Receiver	19	60	1
(III) Multi-mode (62.5/125µm)	FVMM3-RX	3-Channel Digital (8-Bit) Video Integrated Fiber-Optic Receiver	10	4	1

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

