

Overview

4-Channel Video fiber links represent a technological breakthrough in the simultaneous transmission of four full-frame, real-time video signals (color or monochrome). S707V models feature multimode operation, while S7707V models operate over one single mode fiber.

Exceptional Performance

The four-channel system features a 6.2 MHz-per-channel bandwidth and optical automatic gain control (OAGC). It accepts analog baseband inputs and converts them to digital format for transmission, assuring high-quality video outputs at the receiver. The system is compatible with with all major video formats.

Superior Diagnostics

The SMARTS™ diagnostic technology includes a built-in video test pattern generator on the transmitter for system setup and on-screen diagnostics to indicate insufficient optical power or an inactive video channel for each output. LEDs monitor the status of the video and optical signals.

Standard Features

- One-way transmission of four video channels over one fiber
- Single and multimode models available
- Digital multiplexing technology
- 8-10-bit video processing depending on channels used
- 500 TV lines resolution
- Video SNR >55 dB
- 6.2 MHz video bandwidth
- Built-in test pattern generator and On-Screen Diagnostics (OSD)
- 16 dB (single mode) or 13 dB (multimode) optical budget
- Supports all major video formats
- Optical AGC
- Standalone or rack configurations

4-Channel Video

S707V and S7707V



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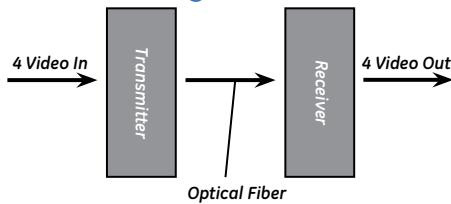
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Related Diagram



Ordering Information

Use the Configurators below to select the options available for these products.

S707V - **STL**

Product Type **Enclosure**
T Transmitter E Standalone
R Receiver R Rack Card

S7707V -

Product Type **Enclosure** **Connector Type** **Optical Wavelength**
T Transmitter E Standalone FC FC Type Add L here only if ordering
R Receiver R Rack Card ST ST Type High Order Wavelength

* Optical Budget based on 62.5 µm fiber, for 50/125 µm fiber subtract 3 dB.

** Operating distance is approximate and assumes best fiber. It will be affected by the type and number of splices in the fiber. Refer to update No. T800-005, which can be found at www.gesecurity.com

As a company of innovation, GE Security reserves the right to change product specifications without notice. For the latest product specifications, visit GESecurity online at www.GESecurity.com or contact your GE Security sales representative.
S707V-2006-09-2

Specifications

Video	S707V (Multimode)	S7707V (Single Mode)
Channels	4	
Format	All major formats	
Input/Output Signal	1.0 V p-p composite	
Bandwidth	6.2 MHz	
Signal-to-Noise Ratio	>55 dB	
Video Resolution	>500 TV lines	
Input/Output Impedance	75 ohms	
Differential Phase	<0.7°	
Differential Gain	<2%	
Optical		
Mode	Multimode	Single Mode
Optical Budget*	13 dB	16 dB
Emitter	Laser	
Wavelength	1300 nm	1310 nm or 1550 nm (Depending on model)
Operating Distance**	2.5 mi (4.0 km)	33 mi (53 km) (Depending on model)
Gain Control	Optical Automatic Gain Control (OAGC)	
Electrical		
Input Power, Standalone Units	Transmitter: 24 VAC or 13.5 VDC regulated Receiver: 13.5 VDC regulated	
Input Power, Rack Units	13.5 VDC regulated	
Current Requirement	Standalone Transmitter: 350 mA Rack units and Standalone Receiver: 600 mA	
Power Consumption	Standalone Transmitter: 5 W; Rack units and Standalone Receiver: 9 W	
Power Factor	5 (rack units only)	
Protection	Solid-state short circuit protection	
Optional Power Supply	Model 613P	
Environmental		
Operating Temperature	-40 to 167 °F (-40 to 75 °C)	
Maximum Humidity	95% relative, noncondensing	
Mechanical		
Dimensions (LWD), Standalone Units	5.0" x 4.8" x 1.5" 127 x 122 x 38 mm	
Dimensions, Rack Units	1 slot (1.0")	
Weight, Standalone Units	1.3 lbs (0.59 kg)	
Weight, Rack Units	0.64 lbs (0.29 kg)	
Construction	Standalone Units: Polycarbonate Rack Units: Aluminum	

AGENCY COMPLIANCE

FCC PART 15 COMPLIANT **CE** **UL** US

MADE IN THE USA

Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J