

Overview

Broadcast-Grade Video fiber links accept analog baseband video, convert it to digital form, and transmit it as a 10-bit digital signal. Digital transmission of video with a signal-to-noise ratio of >60 dB assures noise-free video at the receiver. This equipment supports all major video formats. Resolution of greater than 560 TV lines guarantees faithful reproduction of high-resolution closed-circuit video images. S705V models feature multimode operation, while S7705V models operate over one single mode fiber.

Exceptional Performance

The S705V and S7705V meet or exceed the requirements of the EIA/TIA 250C Medium Haul Standard.

Superior Diagnostics

The SMARTS™ diagnostic technology provides built-in diagnostic tools including LEDs that monitor the operating status of the video and optical signals.

Standard Features

- One-way transmission of composite video
- Single and multimode models available
- Meets or exceeds EIA-250C Medium-Haul standard
- 10-bit video processing
- >560 TV lines resolution
- Video SNR >60 dB
- 7 MHz video bandwidth
- Optical AGC
- 13 dB optical budget (multimode), 18dB (single mode)
- Operating distance up to 37 miles (60 km), depending on the model
- Standalone or rack configurations

Broadcast-Grade Video

S705V and S7705V



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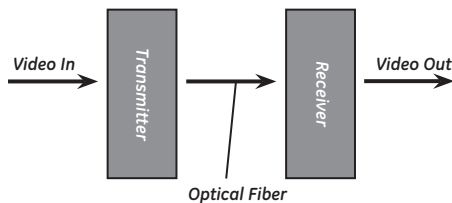
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Specifications

Video	S705V (Multimode)	S7705V (Single Mode)
Channels	1	
Format	NTSC and PAL	
Input/Output Signal	1.0 V p-p composite	
Bandwidth	7 MHz	
Signal-to-Noise Ratio	>60 dB	
Video Resolution	>560 TV lines	
Input/Output Impedance	75 ohms	
Differential Phase	<0.7°	
Differential Gain	<2%	
Optical		
Mode	Multimode	Single Mode
Optical Budget*	13 dB	Budget: 18 dB
Emitter	Laser	
Wavelength	1300 nm	1310 or 1550 nm
Operating Distance**	2.5 mi (4.0 km)	Up to 37 mi (60 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	400 mA	
Power Consumption	6 W	
Power Factor	4 (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	Transmitter: 5.0" x 4.8" x 1.5" (127 x 122 x 38 mm) Receiver: 9.31" x 6.33" x 1.15" (236 x 161 x 29 mm)	
Dimensions, Rack Units	1 slot (1.0")	
Weight, Standalone Units	Transmitter: 1.21 lbs (0.55 kg); Receiver: 1.40 lbs (0.64 kg)	
Weight, Rack Units	0.55 lbs (0.25 kg)	
Construction	Standalone transmitter and receiver: Polycarbonate Rack units: Aluminum	

Related Diagram



AGENCY COMPLIANCE

FCC PART 15 COMPLIANT US

MADE IN THE USA

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

Ordering Information

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

S705V - STL

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

S7705V -

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

* 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. TB00-005, 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.
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imagination at work