

Overview

The S709V12 Video Multiplexer system represents a technological break-through in the simultaneous transmission of multiple full frame, real-time video signals (color or monochrome) over one multimode fiber.

Exceptional Performance

The twelve-channel system accepts analog baseband input signals and converts them to digital format for transmission, assuring high-quality video outputs at the receiver. The unit uses Coarse Wavelength Division Multiplexer (CWDM) technology for maximum distance capability over a single multimode fiber.

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 12 video channels over one multimode fiber
- Coarse Wavelength Division Multiplexer (CWDM) technology
- 8-10-bit video processing depending on model used
- >500 TV lines resolution
- Video SNR >55 dB
- 6.2 MHz video bandwidth
- Supports NTSC, PAL and SECAM video formats
- Built-in test pattern generator and On-Screen Diagnostics (OSD)
- 13 dB optical budget
- Optical AGC

12-Channel Video

S709V12



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Specifications

Video	
Channels	12
Format	NTSC, PAL, SECAM
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
Optical Budget*	13 dB
Emitter	Laser
Wavelength	1310/1330/1350 nm
Operating Distance**	3.2 mi (5.2 km)
Gain Control	Optical Automatic Gain Control (OAGC)
Transmitter Launch Power	-15 dBm
Receiver Sensitivity	-28 dBm

Electrical	
Input Power, Rack Units	13.5 VDC regulated
Current Requirement	1.95 A
Power Consumption	27 W
Power Factor	16
Protection	Solid-state short circuit protection

Environmental	
Operating Temperature	-40 to 167 °F (-40 to 75 °C)
Maximum Humidity	95% relative, noncondensing

Mechanical	
Dimensions	4 slots (4.0")
Weight	2.59 lbs (1.17 kg)
Construction	Aluminum

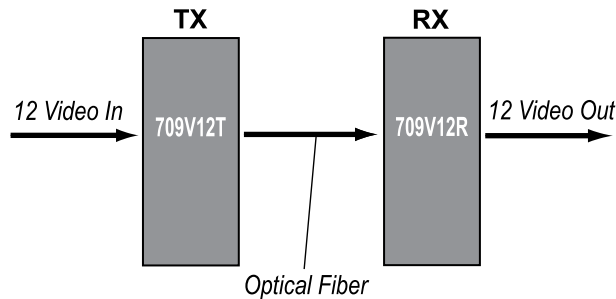
AGENCY COMPLIANCE



MADE IN THE USA

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

Related Diagram



Ordering Information

Use the Configurator below to select the options available for this product.

S709V12 **-RSTL**

Product Type
T Transmitter
R Receiver

* 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. S709V12-2006-09-2