

Overview

The S764DAV and S7764DAV fiber links provide one-way video transmission combined with two-way two-channel audio, two-channel multiprotocol data, and two-channel contact closure. S764DAV models feature multimode operation, while S7764DAV models operate over single mode fibers.

Digital Processing

Digital processing of the video signal along with a video signal-to-noise ratio >60 dB assures clean, noise-free video at the receiver. Digital processing of the audio signal along with an audio signal-to-noise ratio >90 dB allows the audio output to drive balanced or unbalanced loads and maintain constant audio levels.

Data Translation

The data functions include the unique data translation feature, which allows one data format to be input and a different data format to be output. Data formats are selected during installation and can be easily changed in the field via rotary switch.

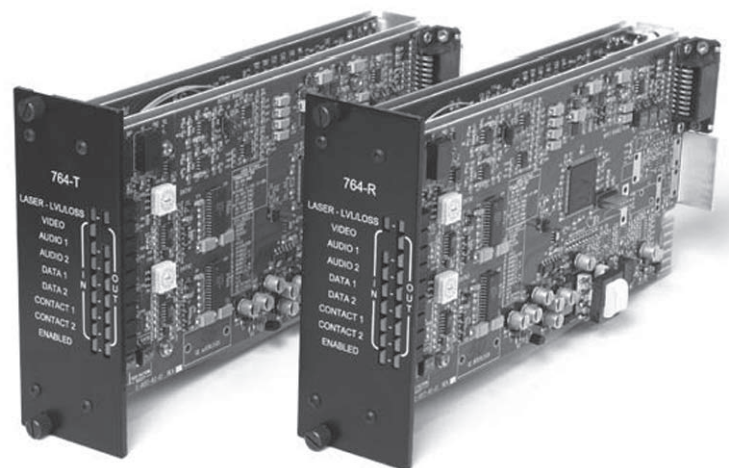
Superior Diagnostics

The SMARTSM diagnostic technology provides an extensive set of diagnostic tools including an audio test generator to verify audio channel operation and a video test pattern generator that allows failures to be diagnosed from the monitor. LEDs provide a visual indication of the operating status of the video, audio, data, and contact channels as well as the optical signal strength.

One-Way Video and
Two-Way 2-Channel
Audio, 2-Channel
Multiprotocol Data
and 2-Channel
Contact Closure
S764DAV and S7764DAV

Standard Features

- One-way video and two-way two-channel audio, two-channel multiprotocol data and two channel contact closure transmission over one or two fibers
- Single and multimode models available
- 9-bit video processing
- 24-bit audio processing
- >600 TV lines video resolution
- Unique data translation function
- Local or remote user-selectable data format - 2 independent data channels
- Supports multiprotocol data formats
- Relay/contact closure - 2 duplex channels
- Built-in video and audio test generators
- Diagnostic LEDs and on-screen monitor displays



GE Security

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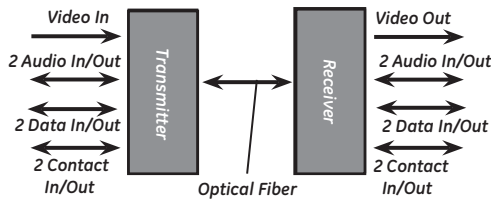
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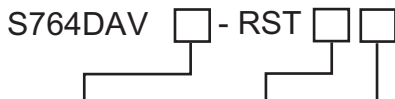
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Related Diagram



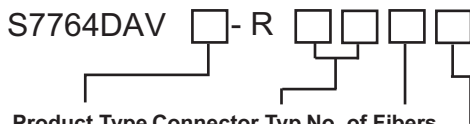
Ordering Information

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



S764DAV - RST

Product Type	No. of Fibers	Optical Wavelength
T Transmitter	1 Fiber	Add L here only if ordering High Order Wavelength (2 Fiber unit)
R Receiver	2 Fibers	



S7764DAV - R

Product Type	Connector Typ	No. of Fibers	Optical Wavelength
T Transmitter	FC FC Type	1 Fiber	Add L here only if ordering High Order Wavelength (2 Fiber units only)
R Receiver	ST ST Type	2 Fibers	

* 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.
S761DAV-2006-09-2



imagination at work

	S764DAV (Multimode)	S7764DAV (Single Mode)
Video		
Channels	1 simplex	
Format	All major formats	
Input/Output Signal	1.0 V pk-pk	
Bandwidth	7.5 MHz	
Signal-to-Noise Ratio	>60 dB	
Video Resolution	>600 TV lines	
Input/Output Impedance	75 ohms	
Differential Phase	<0.7°	
Differential Gain	2%	
Audio		
Channels	2 duplex	
Input Signal Level	17.4 V pk-pk, +18 dBu max.	
Input Impedance	600 ohms or 100 k ohms	
Bandwidth	20 Hz to 20 kHz	
Sampling Rate	52 kHz	
Output Signal Level	17.4 V pk-pk, +18 dBu max.	
Output Impedance	30 ohms unbalanced, 60 ohms balanced	
Signal-to-Noise Ratio	>90 dB	
Total Harmonic Distortion	<0.006%	
Data		
Channels	2 duplex, format independent	
Formats	RS-232 (3-wire/5-wire), TTL, RS-422, RS-485 (2-wire/4-wire), Manchester, Biphase, SensorNet	
Baud Rate	250 kbps to 512 kbps (depending on data format)	
Bit Error Rate	<1.0E-9	
Relay/Contact Closure	2 duplex channels	
Relay/Contact Rating	1 A at 30 VDC	
Optical		
Mode	Multimode	Single Mode
Optical Budget*	13 dB	18 dB
Emitter	Laser	
Wavelength	850 and/or 1300 nm	1310 and/or 1550 nm
Operating Distance**	Up to 3.2 mi. (5.2 km) (depending on model)	Up to 37 mi. (60 km) (depending on model)
Electrical		
Input Power	13.5 VDC regulated	
Current Requirement	500 mA	
Power Consumption	6.75 W	
Power Factor	4	
Protection	Solid-state short circuit protection	
Environmental		
Operating Temperature	-40 to 167 °F (-40 to 75 °C)	
Maximum Humidity	95% relative, noncondensing	
Mechanical		
Dimensions	2 slots (2.0")	
Weight	1.2 lbs. (0.54 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