

## Overview

The S768DAV and S7768DAV fiber links provide two-way video transmission combined with two-way, two-channel audio, two-channel multiprotocol data, and two-channel contact closure. S768DAV models feature multimode operation, while S7768DAV 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 SMARTS™ 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.

# Two-Way Video and Two-Way 2-Channel Audio, 2-Channel Multiprotocol Data and 2-Channel Contact Closure S768DAV and S7768DAV

## Standard Features

- Two-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



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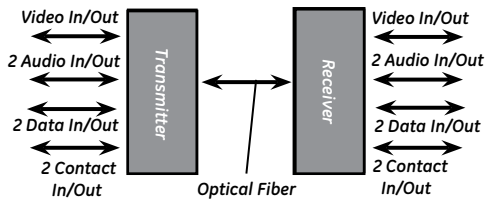
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## Related Diagram



## Ordering Information

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

**S768DAV**  - **RST**

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

**S7768DAV**  - **R**

Product Type	Connector Type	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. 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.  
S768DAV-2006-09-2

Video	S768DAV (Multimode)	S7768DAV (Single Mode)
Channels	1 duplex	
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%	
<b>Audio</b>		
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%	
<b>Data</b>		
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	
<b>Optical</b>		
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)	Up to 37 mi. (60 km)
<b>Electrical</b>		
Input Power	13.5 VDC regulated	
Current Requirement	500 mA	
Power Consumption	6.75 W	
Power Factor	4	
Protection	Solid-state short circuit protection	
<b>Environmental</b>		
Operating Temperature	-40 to 167 °F (-40 to 75 °C)	
Maximum Humidity	95% relative, noncondensing	
<b>Mechanical</b>		
Dimensions	2 slots (2.0")	
Weight	1.2 lbs. (0.54 kg)	
Construction	Aluminum	

AGENCY COMPLIANCE **MADE IN THE USA**

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

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

