

Overview

The S734DV and the S7734DV video multiplexers transmit four channels of video combined with two-way multiprotocol data and four contact closure channels over one single mode or multimode fiber. The S734DV and the S7734DV links convert four channels of baseband composite video to digital format for transmission. Digital transmission of the video assures clean, noise-free video at the receiver.

Multiple Data Formats

Two-way data permits remote control of a PTZ and response from the receiver/driver to the control center. The unique multiprotocol data design accepts all major formats. Four relay/contact closure channels in the forward direction permit transmission of switch closures.

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 built-in diagnostic tools including LEDs that monitor the operating status of the video and optical signals.

Standard Features

- Four video channels, two-way data and four one-way contact closure channels transmitted over one single mode or multimode fiber
- 8-10-bit video processing depending on channels used
- 500 TV lines video resolution
- Unique data translation function
- Relay/contact closure - 4 forward channels
- Supports multiprotocol data formats including RS-232, TTL, RS-422, RS-485, Manchester, Biphase, and SensorNet
- SMARTS™ diagnostics including extensive LEDs and on-screen monitor displays

4-Channel Video, Two-Way Multiprotocol Data, and 4-Channel Contact Closure S734DV and S7734DV



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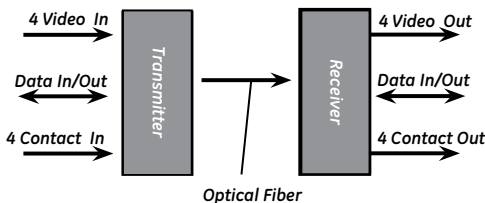
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Specifications

Video	S734DV (Multimode)	S7734DV (Single Mode)
Channels	4	
Format	NTSC and PAL	
Input/Output Signal	1.0 V pk - pk 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%	
Data		
Channels	1 duplex	
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)	
Relay/Contact Closure	4 simplex channel (TX to RX)	
Relay/Contact Rating	0.5 A at 30 VDC	
Bit Error Rate	<1.0E-9	
Optical		
Mode	Multimode	Single Mode
Optical Budget*	13 dB	13 dB
Emitter	Laser	
Wavelength	850 nm and 1300 nm	1310 nm and 1550 nm (depending on model)
Operating Distance**	Up to 3.2 mi (5.2 km)	Up to 20 mi (32 km) (depending on model)
Launch Power	-9 dBm	
Receiver Sensitivity	-22 dBm	
Gain Control	Optical Automatic Gain Control (OAGC)	
Electrical		
Input Power, Standalone Units	24 VAC or 13.5 VDC regulated (transmitter) 13.5 VDC regulated (receiver)	
Input Power, Rack Units	13.5 VDC regulated	
Current Requirement	400 mA (standalone transmitter), 650 mA (rack units)/standalone Rx	
Power Consumption	5.6 W (standalone transmitter), 9 W (rack units)/standalone Rx	
Power Factor	5 (rack units only)	
Protection	Solid-state short circuit protection	
Power Supply	Model 613P (optional)	
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 2.2" (127 x 122 x 56 mm)	
Dimensions, Rack Units	2 slots (2.0")	
Weight, Standalone Units	1.7 lbs (0.77 kg)	
Weight, Rack Units	1.2 lbs (0.56 kg)	
Construction	Steel (standalone); Aluminum (rack)	

Related Diagram



Ordering Information

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

S734DV - **ST1**

Product Type
T Transmitter
R Receiver

Enclosure
E Standalone
R Rack Card

S7734DV - **1**

Product Type
T Transmitter
R Receiver

Enclosure
E Standalone
R Rack Card

Connector Type
FC FC Type
ST ST Type

AGENCY COMPLIANCE

FCC PART 15 COMPLIANT  

MADE IN THE USA

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

* 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. S734-2006-09-2