Overview

S732DV and S7732DV fiber links provide transmission of one-way video and two-way multiprotocol data over one or two optical fibers. S732DV models feature multimode operation, while S7732DV models operate over single mode fibers. The links can be supplied as either a standalone module or as a rack card that can be installed in a standard 19-inch card cage. A complete system consists of a transmitter and a receiver. S732DV-PKG kits include a standalone multimode transmitter, a standalone multimode receiver, and two power supplies.

Video Processing

The units utilize 8-bit video processing of the video component along with a signal-to-noise ratio >55 dB that assures clean, noise-free video at the receiver.

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.

Multoprotocol Data Formats

The unique multiprotocol data design accepts all major data formats. This allows the S(7)732DV-PKG to be retained if there is a change of video control systems.

Superior Diagnostics

The SMARTS™ diagnostic technology provides an extensive set of built-in diagnostic tools including 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 equipment.

CWDM Technology

Certain models of the S732DV series incorporate Coarse Wavelength Division Multiplexer (CWDM) technology for maximum distance capability using a single multimode fiber.

Standard Features

- One-way video, two-way multiprotocol data transmission over one or two fibers
- Single and multimode models available
- 8-bit video processing
- 520 TV lines video resolution
- Unique data translation function
- Field-selectable data format
- 13 dB optical budget (20 dB on CWDM models), or 18 db on single-mode models
- Supports all major data formats
- Standalone or rack configurations
- Standalone package includes a multimode transmitter, a multimode receiver, and two power supplies

Single-Channel Video and Two-Way Multiprotocol Data

S732DV, S7732DV and S732DV-PKG

S732DV-PKG

GE
Security

U.S.
T (561) 998-6100
T 888-GE-SECURITY
888-(437-3287)
F 561 998 6224

Canada
T 519 376 2430
F 519 376 7258

Asia
T 852-2907-8108
F 852-2142-5063

Australia
T 61-3-9239-1200
F 61-3-9239-1299

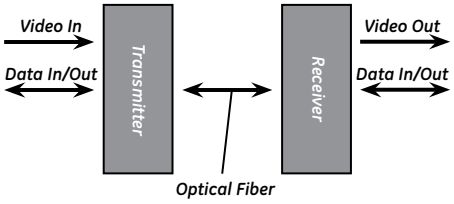
Europe
T 44-113-238-1668
F 44-113-253-8121

Latin America
T 305-593-4301
F 305-593-4300

www.gesecurity.com

613P Power Supply (2 included with S732DV-PKG)	
Input Power	100 - 240 VAC, 60/50 Hz
Output Voltage	13.5 VDC regulated
Output Current	1.3 A maximum
Power Consumption	18 W
AC Connection	Connects to standard wall outlet
Dimensions	1.27" x 2.3" x 4.35"
Weight	0.79 lbs (0.36 kg)

Related Diagram



Specifications

Video	S732DV (Multimode)	S7732DV (Single Mode)
Channels	1 simplex	
Format	NTSC and PAL	
Input/Output Signal	1.0 V pk - pk	
Bandwidth	6.5 MHz	
Video Resolution	520 TV lines	
Signal-to-Noise Ratio	>55 dB	
Input/Output Impedance	75 ohms	
Differential Phase	<3°	
Differential Gain	<3%	
Data		
Channels	1 duplex	
Formats	RS-232 (3-wire/5-wire), TTL, RS-422, RS-485 (2-wire/4-wire), Manchester, Biphase, SensorNet, DTMF control	
Baud Rate	250 kbps to 512 kbps or 15 kHz (depending on data format)	
Bit Error Rate	<1.0E-9	
Optical		
Mode	Multimode	Single Mode
Optical Budget*	13 dB (20 dB on CWDM models)	18 dB
Emitter	LED or Laser	
Wavelength	850 nm and/or 1300 nm (depending on model); 1310 nm and 1330 nm on CWDM models	1310 nm and/or 1550 nm (depending on model)
Operating Distance**	Up to 4.0 mi (6.5 km) (depending on model) (RST1L > (7.5 mi 12 km)	Up to 37 mi (60 km) (depending on model)
Launch Power	-15 dBm	-10 dBm
Receiver Sensitivity	-28 dBm	-28 dBm
Gain Control	Optical Automatic Gain Control (OAGC)	
Electrical		
Input Power, Standalone Units	24 VAC or 13.5 VDC regulated	
Input Power, Rack Units	13.5 VDC regulated	13.5 VDC regulated
Current Requirement	450 mA	
Power Consumption	6 W	
Power Factor	4 (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 1.5" (127 x 122 x38 mm)	
Dimensions, Rack Units	1 slot (1.0")	
Weight	Standalone 1.2 lbs (0.54 kg); rack 0.6 lbs (0.27 kg)	
Construction	Polycarbonate (standalone); Aluminum (rack)	

AGENCY COMPLIANCE MADE IN THE USA

FCC PART 15 COMPLIANT CE c UL us

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.

S732DV□-□ST□□

Product Type	Enclosure	No. of Fibers	Optical Wavelength
T Transmitter	E Standalone	1 1 Fiber	Add L here only if ordering High Order Wavelength
R Receiver	R Rack Card	2 2 Fibers	

S7732DV□-□□□□□□

Product Type	Enclosure	Connector Type	No. of Fibers	Optical Wavelength
T Transmitter	E Standalone	FC FC Type	1 1 Fiber	Add L here only if ordering High Order Wavelength (2-Fiber units only)
R Receiver	R Rack Card	ST ST Type	2 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.
S732DV-2006-09-2

S732DV-PKG

Includes a standalone multimode transmitter, a stand-alone multimode receiver, and two power supplies.