

# **GE** Interlogix Fiber Options



# **S705V S7705V**

**Core Product** 

# **Digital Video System**

**Product Specification** 

# **Features**

- 10-bit digital video transmission
- >560 TV lines resolution
- Meets/exceeds EIA/TIA 250C Medium Haul Std
- SMARTS<sup>™</sup> Diagnostics
- Optical budget: 13 dB MM; 18 dB SM
- Operates up to 2.5 mi (4.0 km) MM; 37 mi (60 km) SM
- Solid-state short-circuit protection
- 24 VAC/12-16 VDC transmitter power
- Forever Warranty<sup>™</sup>

# **Basic Multimode Models**

S705V-L 1-Fiber link, 1300 nm

# **Description**

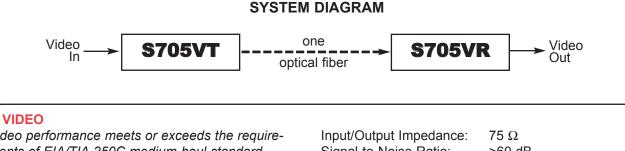
The S705V and S7705V fiber links accept analog baseband video, convert it to digital, and transmit it as a 10-bit digital signal over optical fiber. Digital transmission of video with a signal-to-noise ratio of >60 dB assures noise-free video at the receiver. The S705V and S7705V support all major video formats. Resolution of greater than 560 TV lines guarantees faithful reproduction of high-resolution closed-circuit video images.

The S705V and S7705 meet or exceed the requirements of the EIA/TIA 250C Medium Haul Standard. The S705V and S7705V also feature Fiber Option's unique SMARTSTM Technology, which provides an extensive array of built-in diagnostic functions.

#### **Basic Single-Mode Models**

| S7705V   | 1-Fiber link |
|----------|--------------|
| S7705V-L | 1-Fiber link |

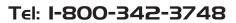
k, 1310 nm k, 1550 nm



Video performance meets or exceeds the requirements of EIA/TIA 250C medium-haul standard. Number of Channels: 1 Standards Supported: NTSC, PAL Video Input/Output Signal: 1.0 V p-p composite

Signal-to-Noise Ratio: Video Bandwidth: Video Resolution: Differential Phase: Differential Gain:

>60 dB 7 MHz >560 TV lines <0.7° <2%



# ELECTRICAL

Input Voltage:

Standalone Receiver: Rack Modules: Current Requirement: Rack Module Power Factor: Power Consumption: Protection:

Card Replacement: Power Supply: OPTICAL Wavelength:

S705V-L: S7705V: S7705V-L Optical Mode: S705V-L: S7705V: S7705V-L Optical Budget: S705V-L: S7705V: S7705V-L **Operating Distance\*\*:** S705V-L: S7705V: S7705V-L Emitter Type:

Fiber Type:

Gain Control:

Standalone Transmitter:24 VAC ± 10% or13.5 VDC, regulatedStandalone Receiver:Rack Modules:urrent Requirement:400 mA @ 14 V

4 6 W Solid-state short circuit protection (no fuse required) Cards are hot swappable 613P (DC)

1300 nm 1310 nm 1550 nm

Multimode Single Mode Single Mode

13 dB standard\* 18 dB standard 18 dB standard

2.5 mi (4.0 km) 28 mi (45 km) 37 mi (60 km) Multimode: LED Single Mode: Laser Multimode: 62.5 µm Single Mode: 8.3 µm Optical automatic (OAGC)

## ENVIRONMENTAL

Temperature Range in Operation:-40° to +167° F (-40° to +75° C) in Storage: -40° to +185° F (-40° to +85° C) Humidity Range in Operation and Storage: 0 to 95% relative, noncondensing

## MECHANICAL

#### Standalone Transmitters

Dimensions: Weight: Construction: Finish: Mounting Method: **Standalone Receivers** Dimensions: Weight: Construction: Finish: Mounting Method: **Rack Modules** Module Width: Weight: Finish:

Width: 4.8 in (122 mm) Height: 1.6 in (41 mm) 1.21 lb (0.55 kg) Steel Gray textured paint 6 No. 6 (3 mm) screws Length: 9.31 in (236 mm)

Length: 5.0 in (127 mm)

Width: 6.33 in (161 mm) Height: 1.15 in (29 mm) 1.4 lb (0.64 kg) Aluminum Black semigloss paint 4 No. 6 (3 mm) screws

1 slot, 1.0 in. (25.4 mm) 0.55 lb (0.25 kg) Black semigloss paint

# SMARTS™ INDICATORS

Level/Loss™, Video

## AGENCY COMPLIANCE AND MTBF

 
 Emissions:
 FCC Part 15, ICES-003, AS/NZS 3548, EN55022

 Immunity:
 ENV50204, EN61000-4-2, 3, 4, 5, 6, 11

 Safety:
 UL1950, CAN/CSA 22.2, NO.950-95, EN 60825

 MTBF:
 >100,000 hours

\*Optical Budget based on 62.5/125 um fiber, for 50/125 um 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.fiberoptions.com.



For additional information about this product, refer to the Fiber Options Web site at www.fiberoptions.com.