



## GE Interlogix Fiber Options









# **Product Specification**

### **Features**

- Four channels of one-way video
- Digital multiplexing technology
- 10-bit digital encoding
- 500 TV lines resolution
- Supports all major video formats
- **SMARTS™** Diagnostics
- **Optical Automatic Gain Control**
- Solid-state short-circuit protection
- Forever Warranty™

## **Basic Multimode Models**

S707V-L 1-Fiber link, 1300 nm

## Description

Fiber Options' S707V/S7707V Video Multiplexer System represents a technological breakthrough in the simultaneous transmission of multiple full-frame, realtime video signals (color or monochrome) over one fiber.

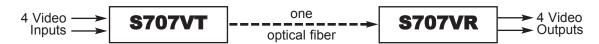
The four-channel system features a 6.2 MHz-perchannel bandwidth and optical automatic gain control (OAGC). It accepts analog baseband inputs and converts them to digital format for transmission, assuring high-quality video outputs at the receiver. The system is compatible with with all major video formats.

Fiber Options' unique SMARTSTM Technology includes a built-in video test pattern generator on the transmitter for system setup and on-screen diagnostics to indicate insufficient optical power or an inactive video channel for each output.

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

S7707V 1-Fiber link, 1310 nm S7707V-L 1-Fiber link, 1550 nm

#### SYSTEM DIAGRAM



## VIDEO

Number of Channels: Video Bandwidth: 6.2 MHz Standards Supported: Video Resolution: All major formats 500 TV lines

Video Input/Output Signal: 1.0 V p-p composite Differential Phase:  $0.7^{\circ}$ Input/Output Impedance:  $75 \Omega$ Differential Gain: 2%

Signal-to-Noise Ratio: >55 dB **ELECTRICAL** 

Input Voltage: Standalone Transmitter: 13.5 VDC, regulated or

24 VAC

Standalone Receiver: 13.5 VDC, regulated

Rack Modules: 13.5 VDC, regulated

Current Requirement:

Standalone Transmitter: 350 mA Rack Modules: 600 mA

Rack Module

Power Factor:

Power Consumption:

5 W Standalone Transmitter:

Rack Modules: 9 W

Protection: Solid-state short circuit protection (no fuse

required)

Card Replacement: Cards are hot swappable

Power Supply: 613P

**OPTICAL** 

Optical Mode:

S707V-L: Multimode S7707V: Single Mode S7707V-L: Single Mode

Wavelength:

S707V-L: 1300 nm 1310 nm S7707V: 1550 nm S7707V-L:

Optical Budget:

S707V-L: 13 dB\* S7707V: 13 dB 16 dB S7707V-L:

Operating Distance\*\*:

S707V-L: 11 mi (18 km) S7707V: 20 mi (32 km) S7707V-L: 33 mi (53 km)

Emitter Type: Laser

Multimode: 62.5 µm Fiber Type:

Single Mode: 8.3 µm

Gain Control: 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 Transmitter** 

Dimensions: Height: 5.0 in (127 mm)

> Width: 4.8 in (122 mm) Depth: 1.5 in (38 mm)

Weight: 1.3 lb (0.59 kg)

Construction: Steel

Finish: Gray textured paint Mounting Method: 6 No. 6 (3 mm) screws

Standalone Receiver

Dimensions: Length: 9.31 in (236 mm)

> Width: 6.33 in (161 mm) Height: 1.15 in (29 mm)

Weight: 1.5 lb (1.68 kg) Construction: Aluminum

Finish: Black semigloss paint Mounting Method: 4 No. 6 (3 mm) screws

**Rack Modules** 

Width: 1 slot, 1.0 in. (25 mm) Weight: 0.64 lb (0.29 kg)

Construction: Aluminum

Finish: Black semigloss paint

**SMARTSTM INDICATORS** 

Level/Loss™, Video In/Out

**AGENCY COMPLIANCE AND MTBF** 

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

3548, EN55022

Immunity: EN50130-4

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

Laser Safety: 21CFR1040, EN 60825-1, 2

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.