





GE Interlogix Fiber Options







2-Channel FM Video Multiplexer

Product Specification

Features

- ✓ Two channels of real-time, full-frame video
- ✓ FM modulation
- ✓ 640 TV lines resolution
- 8 MHz bandwidth
- Optical Automatic Gain Control (OAGC)
- ✓ SMARTS™ Diagnostics
- Standard optical budget 13 dB
- ✓ MTBF > 100,000 hours
- ✓ Forever Warranty™

Basic Multimode Models

S703V 1-Fiber link, 850 nm **S703V-L** 1-Fiber link, 1300 nm

Description

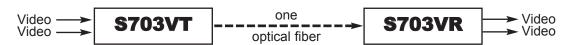
The S703V/S7703V Two-Channel FM Video System transmits two channels of full-frame, real-time video over a single fiber. It accepts monochrome and color signals in NTSC and PAL formats. The system consists of a two-channel transmitter and receiver. It is available in multi-mode and single-mode versions

Full-frame, real-time video transmission delivers all the video captured by the camera. A bandwidth of 8 MHz enables the S703V and S7703V to transmit extremely clear, high-resolution images. FM modulation assures that the image quality remains high over the full operating distance. **SMARTSTM** diagnostic LEDs on the transmitter and receiver monitor the status of the video and optical signals.

Basic Single-Mode Models

S7703V 1-Fiber link, 1310 nm **S7703V-L** 1-Fiber link, 1550 nm

SYSTEM DIAGRAM



VIDEO

Number of Channels: 2

Standards Supported: NTSC, PAL, SECAM,

EIA, CCIR

Video Input/Output Signal: 1.0 V p-p composite

Input/Output Impedance: 75Ω

Signal-to-Noise Ratio: 60 dB Video Bandwidth: 8 MHz

Video Resolution: >640 TV lines

Differential Phase: 5°
Differential Gain: 7%

SERIES S703V AND S7703V

ELECTRICAL

Input Voltage:

Standalone Transmitter: 12 - 14 VAC or

13.5 VDC, regulated

13.5 VDC, regulated Standalone Receiver: Rack Modules: 13.5 VDC, regulated

Current Requirement: 200 mA

Rack Module

Power Factor: Power Consumption: 3 W

Protection: Solid-state short circuit

protection (no fuse

required)

Card Replacement: Cards are hot swappable

Power Supply: 610P (AC)

613P (DC)

OPTICAL

Wavelength: S703V:

850 nm 1300 nm S703V-L: 1310 nm S7703V: S7703V-L: 1550 nm

Optical Mode:

S703V: Multimode S703V-L: Multimode S7703V: Single Mode S7703V-L: Single Mode Optical Budget*: 13 dB standard

Operating Distance**:

S703V: 3.2 mi (5.2 km) S703V-L: 11 mi (18 km) S7703V: 20 mi (32 km) S7703V-L: 27 mi (43 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: Length: 5.0 in (127 mm)

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

Weight: 1.21 lb (0.55 kg)

Construction: Steel

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

Standalone Receiver

Dimensions: Length: 9.31 in (236 mm)

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

Weight: 1.36 lb (0.61 kg) Construction: Aluminum

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

Rack Modules

Module Width: 1 slot, 1.0 in. (51 mm) Weight: 0.75 lb (0.34 kg)

Construction: Steel

Finish: Gray textured paint Mounting Method: 4 No. 6 (3 mm) screws

SMARTS™ INDICATORS

Level/Loss™, Video In/Out

AGENCY COMPLIANCE AND MTBF

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

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

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.

Tel: I-800-342-3748

www.fiberoptions.com