



GE Interlogix Fiber Options

S704V



S7704V

4-Channel FM Video Multiplexer



Product Specification

Features

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

Description

The S704V/S7704V Four-Channel FM Video System transmits four channels of full-frame, real-time video over a single fiber. It accepts monochrome and color signals in NTSC and PAL formats. A complete system consists of a transmitter and receiver.

Full-frame, real-time video transmission delivers all the video captured by the camera. A bandwidth of 8 MHz enables the S704V/S7704V to transmit extremely clear, high-resolution images, and FM modulation assures that the image quality remains high over the full operating distance.

SMARTS™ diagnostic LEDs on the transmitter and receiver monitor the status of the video and optical signals.

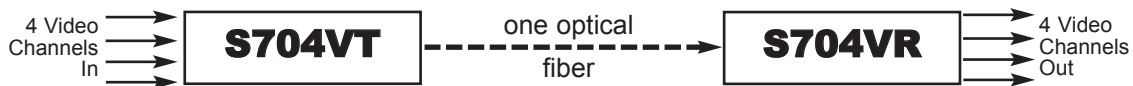
Basic Multimode Models

S704V 1-Fiber link, 850/1300 nm

Basic Single-Mode Models

S7704V 1-Fiber link, 1310/1550 nm

SYSTEM DIAGRAM



VIDEO

Number of Channels:	4	Video Bandwidth:	8 MHz
Standards Supported:	NTSC, PAL, SECAM, EIA, CCIR	Video Resolution:	>640 TV lines
Video Input/Output Signal:	1.0 V p-p composite	Differential Phase:	4°
Input/Output Impedance:	75 ohms	Differential Gain:	7%
Signal-to-Noise Ratio:	60 dB		

SERIES S704V AND S7704V

ELECTRICAL

Input Voltage:	
Standalone Transmitter:	12 - 14 VAC or 13.5 VDC, regulated
Standalone Receiver:	13.5 VDC, regulated
Rack Modules:	13.5 VDC, regulated
Current Requirement:	350 mA
Rack Module	
Power Factor:	3
Power Consumption:	5 W
Protection:	Solid-state short circuit protection (no fuse required)
Card Replacement:	Cards are hot swappable
Power Supply:	610P (AC) 613P (DC)

OPTICAL

Wavelength:	
S704V:	850/1300 nm
S7704V:	1310/1550 nm
Optical Mode:	
S704V:	Multimode
S7704V:	Single Mode
Optical Budget*:	13 dB standard
Operating Distance**:	
S704V:	3.2 mi (5.2 km)
S7704V:	20 mi (32 km)
Emitter Type:	Laser
Fiber Type:	Multimode: 62.5 μ m Single mode: 8.3 μ m
Gain Control: (OAGC)	Optical automatic

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

*Optical Budget based on 62.5/125 μ m fiber,
for 50/125 μ m 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.

MECHANICAL

Standalone Transmitter

Dimensions:	Height: 5.0 in (127 mm) Width: 4.8 in (122 mm) Depth: 2.2 in (56 mm)
Weight:	1.69 lb (0.77 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: 2.15 in (55 mm)
Weight:	2.80 lb (1.27 kg)
Construction:	Aluminum
Finish:	Black semigloss paint
Mounting Method:	4 No. 6 (3 mm) screws

Rack Modules

Module Width:	2 slots, 2.0 in. (51 mm)
Weight:	1.86 lb (0.84 kg)
Construction:	Aluminum
Finish:	Black semigloss paint
Mounting Method:	4 No. 6 (3 mm) screws

SMARTSM INDICATORS

Level/LossSM, Video In/Out

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



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