





GE Interlogix Fiber Options

S708V S7708V





8-Channel Digital Video Multiplexer

Product Specification

Features

- ✓ Eight video channels on a single fiber
- ✓ Digital multiplexing technology
- ✓ 10-bit digital encoding
- ✓ 500 TV lines resolution
- ✓ Color or monochrome
- ✓ SMARTS™ Diagnostics
- ✓ Optical Automatic Gain Control
- ✓ Solid-state short-circuit protection
- Forever Warranty™

Description

Fiber Options' S708V/S7708V Digital Video Multiplexer system uses revolutionary CWDM technology to provide simultaneous long-range transmission of multiple full-frame, real-time video signals over one multimode fiber.

The eight-channel system features a bandwidth of 6.2 MHz per channel and optical automatic gain control (OAGC). It accepts analog baseband input signals and converts them to digital format for transmission, assuring high-quality video outputs at the receiver.

Fiber Options' unique **SMARTS**TM 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.

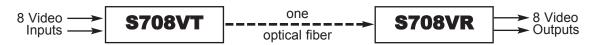
Basic Multimode Models

S708V 1-Fiber link, 850/1300 nm **S708V-L** 1-Fiber link, 1310/1330 nm

Basic Single-Mode Models

S7708V 1-Fiber link, 1310/1550 nm

SYSTEM DIAGRAM



VIDEO

Number of Channels: 8 Video B Standards Supported: NTSC, PAL, SECAM Video R Video Input/Output Signal: 1.0 V p-p composite Differen

Input/Output Impedance: 75 Ω Signal-to-Noise Ratio: >55 dB

Video Bandwidth: 6.2 MHz Video Resolution: 500 TV lines

Differential Phase: 0.7° Differential Gain: 2% **ELECTRICAL**

Input Voltage:

Standalone Modules: 13.5 VDC, regulated

24 VAC

Rack Modules: 13.5 VDC, regulated

Current Requirement:

Standalone Modules: 700 mA Rack Modules: 1.2 A

Rack Module

Power Factor: 10

Power Consumption:

Standalone Modules: 10 W Rack Modules: 17 W

Protection: Solid-state short circuit

protection (no fuse

required)

Card Replacement: Cards are hot swappable

Power Supply: 613P

OPTICAL

Optical Mode:

S708V: Multimode S708V-L: Multimode S7708V: Single Mode

Wavelength:

S708V: 850/1300 nm S708V-L: 1310/1330 nm 1310/1550 nm S7708V:

Optical Budget:

S708V: 13 dB* S708V-L: 13 dB S7708V: 16 dB

Operating Distance**:

1.2 mi (3.2 km) S708V: 3.2 mi (5.2 km) S708V-L: S7708V: 20 mi (32 km)

Emitter Type: Laser

Fiber Type: Multimode: 62.5 μm

Single Mode: 8.3 µm

Optical automatic (OAGC) Gain Control:

Transmitter Launch Power:

S708V: -15 dBm S708V-L: -15 dBm S7708V: -12 dBm -28 dBm Receiver Sensitivity:

*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.

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: Height: 5.0 in (127 mm)

> Width: 4.8 in (122 mm) Depth: 2.2 in (56 mm)

Weight: 1.8 lb (0.82 kg)

Construction: Steel

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

Standalone Receivers

Dimensions: Length: 9.31 in (236 mm)

> Width: 6.33 in (161 mm) Height: 2.15 in (6 mm)

Weight: 2.24 lb (1.02 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) 1.24 lb (0.56 kg) Weight:

Construction: Aluminum

Finish: Black semigloss paint

SMARTSTM INDICATORS

Level/Loss™, Video In, Video Out, Laser Fail

AGENCY COMPLIANCE AND MTBF

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

3548, EN55022

Immunity: EN50130-4, EN61000-3-2, -3

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

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

>100,000 hours MTBF:





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