

Overview

8-Channel Video fiber links use revolutionary Coarse Wavelength Division Multiplexer (CWDM) technology to provide simultaneous long-range transmission of multiple full-frame, real-time video signals over one multimode fiber. S708V models feature multimode operation, while S7708V models operate over one single mode fiber.

Exceptional Performance

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.

Superior Diagnostics

The SMARTS™ diagnostic 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. LEDs monitor the status of the video and optical signals.

Standard Features

- One-way transmission of eight video channels over one fiber
- Single and multimode models available
- Coarse Wavelength Division Multiplexer (CWDM) technology
- 8-10-bit video processing depending on channels used
- 500 TV lines resolution
- Video SNR >55 dB
- 6.2 MHz video bandwidth
- Built-in test pattern generator and On-Screen Diagnostics (OSD)
- 16 dB (single mode) or 13 dB (multimode) optical budget
- Optical AGC
- Standalone or rack configurations

8-Channel Video

S708V and S7708V



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Specifications

| Video | S708V (Multimode) | S7708V (Single Mode) |
|------------------------|---------------------|----------------------|
| Channels | 8 | |
| Format | NTSC, PAL, SECAM | |
| Input/Output Signal | 1.0 V p-p composite | |
| Bandwidth | 6.2 MHz | |
| Signal-to-Noise Ratio | >55 dB | |
| Video Resolution | >500 TV lines | |
| Input/Output Impedance | 75 ohms | |
| Differential Phase | <0.7° | |
| Differential Gain | <2% | |

| Optical | Multimode | Single Mode |
|--------------------------|----------------------------------------------------------|--------------------------------------------|
| Mode | Multimode | Single Mode |
| Optical Budget* | 13 dB | 16 dB |
| Emitter | Laser | |
| Wavelength | 850/1300 nm or 1310/1330 nm (Depending on model used) | 1310/1550 nm (Depending on model used) |
| Operating Distance** | Up to 3.2 mi (5.2 km) (Depending on model used) | 20 mi (32 km) (Depending on model used) |
| Gain Control | Optical Automatic Gain Control (OAGC) | |
| Transmitter Launch Power | -15 dBm | -12 dBm |
| Receiver Sensitivity | -28 dBm | |

| Electrical | | |
|-------------------------|-------------------------------------------------------------------------|--|
| Input Power, Standalone | Transmitter: 24 VAC or 13.5 VDC regulated; Receiver: 13.5 VDC regulated | |
| Input Power, Rack | 13.5 VDC regulated | |
| Current Requirement | Standalone Transmitter: 700 mA; Rack units, Standalone Receiver: 1.2 A | |
| Power Consumption | Standalone Transmitter: 10 W; Rack units, Standalone Receiver: 17 W | |
| Power Factor | 10 (rack units only) | |
| Protection | Solid-state short circuit protection | |
| Optional Power Supply | Model 613P | |

| Environmental | | |
|-----------------------|------------------------------|--|
| Operating Temperature | -40 to 167 °F (-40 to 75 °C) | |
| Maximum Humidity | 95% relative, noncondensing | |

| Mechanical | | |
|------------------------------------|-----------------------------------------------|--|
| Dimensions (LWD), Standalone Units | 5.0" x 4.8" x 2.2" (127 x 122 x 56 mm) | |
| Dimensions, Rack Units | 2 slots (2.0") | |
| Weight, Standalone Units | 1.8 lbs (0.82 kg) | |
| Weight, Rack Units | 1.24 lbs (0.56 kg) | |
| Construction | Standalone Units: Steel; Rack Units: Aluminum | |

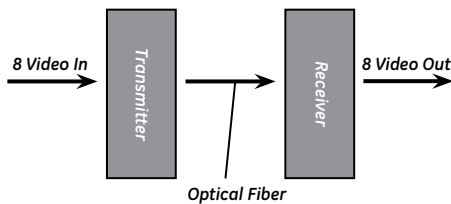
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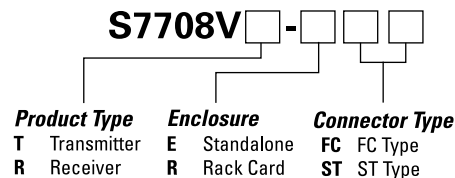
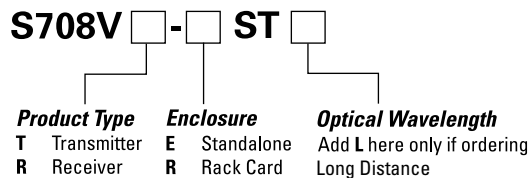
Complies with FDA Performance Standard for Laser Products,
Title 21, Code of Federal Regulations, Subchapter J

Related Diagram



Ordering Information

Use the Configurators below to select the options available for these products.



* Optical Budget based on 62.5 μm fiber, for 50/125 μm 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.gesecurity.com

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