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S707V 4-Channel Video

Overview

The S707V fiber links represent a technological breakthrough in the simultaneous transmission of four full-frame, real-time video signals (color or monochrome) over one multimode fiber.

Exceptional Performance

The four-channel system features a 6.2 MHz-per-channel 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 all major video formats.

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 four video channels over one multimode fiber**
- **Digital multiplexing technology**
- **10-bit video processing**
- **500 TV lines resolution**
- **Video SNR >55 dB**
- **6.2 MHz video bandwidth**
- **Built-in test pattern generator and On-Screen Diagnostics (OSD)**
- **13 dB optical budget**
- **Supports all major video formats**
- **Optical AGC**
- **Standalone or rack configurations**

S707V

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Specifications

Video

- Channels: 4
- Format: All major formats
- Input/Output Signal: 1.0 V p-p composite
- Bandwidth: 6.2 MHz
- Signal-to-Noise Ratio: >55 dB
- Video Resolution: >520 TV lines
- Input/Output Impedance: 75 ohms
- Differential Phase: <0.7°
- Differential Gain: <2%

Optical

- Mode: Multimode
- Optical Budget: 13 dB
- Emitter: Laser
- Wavelength: 1300 nm
- Operating Distance: 11 mi (18 km)
- Modulation Type: Frequency modulation
- Gain Control: Optical Automatic Gain Control (OAGC)

Electrical

- Input Power, Standalone Units: 24 VAC or 13.5 VDC regulated (transmitter); 13.5 VDC regulated (receiver)
- Input Power, Rack Units: 13.5 VDC regulated
- Current Requirement: 350 mA (standalone transmitter), 600 mA (rack units and standalone receiver)
- Power Consumption: 5 W (standalone transmitter), 9 W (standalone receiver and rack units)
- Power Factor: 5 (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

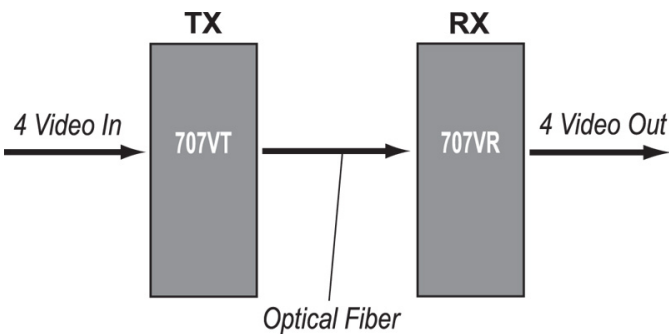
Standards

- Emissions: FCC Part 15, ICES-003, AS/NZS 3548, EN55022
- Immunity: EN50130-4
- Safety: UL 1950, CAN/CSA 22.2, NO. 950-95
- Laser Safety: 21CFR1040, EN60825-1, -2

Mechanical

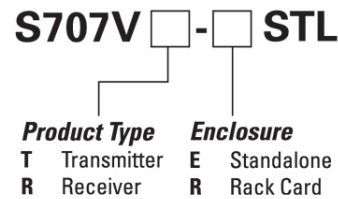
- Dimensions (LWD), Standalone Units: 5.0" x 4.8" x 1.5" (transmitter); 9.31" x 6.33" x 1.15" (receiver)
- Dimensions, Rack Units: 1 slot (1.0")
- Weight, Standalone Units: Transmitter 1.3 lbs (0.59 kg); Receiver 1.5 lbs (0.68 kg)
- Weight, Rack Units: 0.64 lbs (0.29 kg)
- Construction: Steel (standalone transmitter); Aluminum (rack units and standalone receiver)

Related Diagram



Ordering Information

Use the Configurator below to select the options available for this product.



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