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S700V

Single-Channel Video

Overview

The S700V video links meet the challenge for a low cost, high performance fiber optic video transmission system. The series transmits one channel of baseband composite video up to 3.2 miles (5.2 km) over one multimode fiber.

Rack or Standalone Models

The S700V series consists of a transmitter and a receiver. The S700V is available as a standalone unit and as a rack card for use in the 515R1/517R1 rack mount card cages.

Superior Diagnostics

The SMARTS™ diagnostic technology provides built-in diagnostic tools including LEDs that monitor the operating status of the video and optical signals.



Standard Features

- **One-way video transmission over one multimode fiber**
- **Single video channel**
- **Supports NTSC and PAL video formats**
- **Works with all cameras**
- **Video SNR >50 dB**
- **8 MHz video bandwidth**
- **Optical AGC**
- **13 dB optical budget**
- **Operating distance up to 3.2 miles (5.2 km)**
- **Standalone or rack configurations**

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Specifications

Video

- Channels: 1
- Format: NTSC and PAL
- Input/Output Signal: 1.0 V p-p composite
- Bandwidth: 8 MHz
- Signal-to-Noise Ratio: >50 dB
- Video Resolution: >640 TV lines
- Input/Output Impedance: 75 ohms
- Differential Phase: 3°
- Differential Gain: 1.6%

Optical

- Mode: Multimode
- Optical Budget: 13 dB
- Emitter: LED
- Wavelength: 850 nm
- Operating Distance: 3.2 mi (5.2 km)
- Gain Control: Optical Automatic Gain Control (OAGC)

Electrical

- Input Power, Standalone Units: 12 - 14 VAC or 13.5 VDC regulated
- Input Power, Rack Units: 13.5 VDC regulated
- Transmitter Current Requirement: 50 mA
- Receiver Current Requirement: 200 mA
- Transmitter Power Consumption: 0.70 W
- Receiver Power Consumption: 2.8 W
- Power Factor: 1 (transmitter), 2 (receiver) (rack units only)
- Protection: Solid-state short circuit protection
- Optional Power Supply: Model 610P (AC) or Model 613P (DC)

Environmental

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

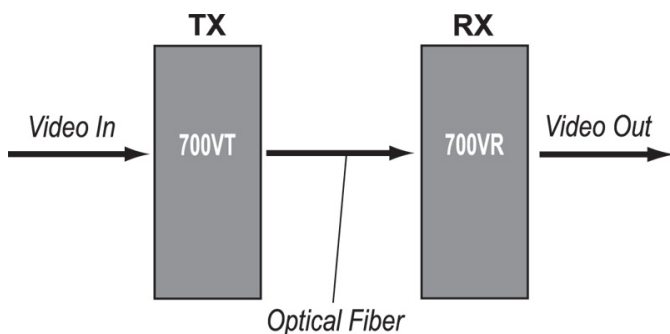
Standards

- Emissions: FCC Part 15, ICES-003, AS/NZS 3548, EN55022
- Immunity: ENV50204, EN61000-4-2, -3, -4, -5, -6, -11
- Safety: UL 1950, CAN/CSA 22.2, NO. 950-95

Mechanical

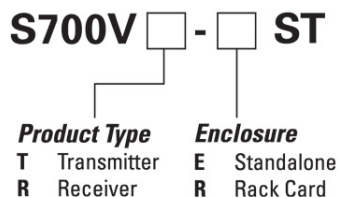
- Dimensions (LWD), Standalone Units: 5.0" x 2.8" x 1.5"
- Dimensions, Rack Units: 1 slot (1.0")
- Weight: Standalone 0.67 lbs (0.31 kg); rack 0.49 lbs (0.22 kg)
- Construction: Plastic (standalone); Aluminum (rack)

Related Diagram



Ordering Information

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



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