UTC Fire & Security
A United Technologies Company

Product Data Sheet

S708VT-RST

8-Ch Digital Video Tx, MM, Rack

Overview

The S708V-series video transmitters are designed to transmit a four channel of full-frame, real-time baseband composite video up to 11 miles (18 km) over one multimode fiber. It accepts monochrome and color signals in NTSC and PAL formats. Full-frame, real-time video transmission delivers all the video captured by the camera.



Exceptional Performance

A bandwidth of 6.2 MHz enables the S708V to transmit extremely clear, high-resolution images. FM modulation assures that the image quality remains high over the full operating distance. The system consists of a transmitter and receiver. The standalone transmitter has been designed especially for easy installation. The rack version is intended for use with the 515R1/517R1 rack mount card cages.

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
- Coarse Wavelength Division Multiplexer (CWDM) technology
- 10-bit video processing
- 500 TVL resolution
- Video SNR >55 dB
- 6.2 MHz video bandwidth
- Built-in test pattern generator and On-Screen Diagnostics (OSD)
- 16 dB optical budget
- Supports all major video formats
- Optical AGC
- Standalone or rack configurations

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Specifications

Video

- Channels 8
- Format All major formats
- Input/Output Signal 1.0 Vpp 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

- Mode Multimode
- Optical Budget 13 dB
- Emitter Laser
- Wavelength 850/1300 nm or 1310/1330 nm (depending on model)
- Operating Distance Up to 3.2 mi (5.2 km) (depending on model)
- Gain Control Optical Automatic Gain Control (OAGC)
- Transmitter Launch Power -15 dBm
- Receiver Sensitivity -28 dBm

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 700 mA (standalone transmitter); 1.2 A (rack units and standalone receiver)
- Power Consumption 10 W (standalone transmitter); 17 W (standalone receiver and rack units)
- Power Factor 10 (rack units only)
- Protection Solid-state short circuit protection
- Optional Power Supply Model 614P

Environmental

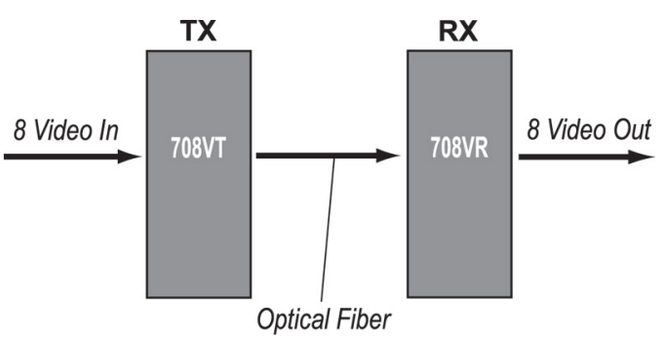
- Operating Temperature -40 to 167 °F (-40 to 75 °C)
- Maximum Humidity 95% relative, noncondensing

Standards

- Emmissions FCC Part 15, ICES-003, AS/NZS 3548, EN55022
- Immunity EN50130-4, EN61000-3-2, -3
- 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 2.2" (127 x 122 x 56 mm)(transmitter); 9.31" x 6.33" x 2.15" (236 x 89 x 55 mm) (receiver)
- Dimensions, Rack Units 2 slots (2.0")
- Weight, Standalone Units Transmitter 1.8 lbs (0.82 kg); Receiver 2.25 lbs (1.02 kg)
- Weight, Rack Units 1.24 lbs (0.56 kg)
- Construction Steel (standalone transmitter); Aluminum (rack units and standalone receiver)



Ordering Information

S708VT-RST
8-channel, rack card - video multiplexers over one dedicated fiber

As a company of innovation, UTC Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit UTC Fire & Security online or contact your UTC Fire & Security sales representative.

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