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S764DAV

One-Way Video and Two-Way 2-Channel Audio, 2-Channel Multiprotocol Data, and 2-Channel Contact Closure

Overview

The S764DAV fiber links provide one-way video transmission combined with two-way, two-channel audio, two-channel multiprotocol data, and two-channel contact closure over one or two multimode fibers.

Digital Processing

Digital processing of the video signal along with a video signal-to-noise ratio >65 dB assures clean, noise-free video at the receiver. Digital processing of the audio signal along with an audio signal-to-noise ratio >90 dB allows the audio output to drive balanced or unbalanced loads and maintain constant audio levels.

Data Translation

The data functions include the unique data translation feature, which allows one data format to be input and a different data format to be output. Data formats are selected during installation and can be easily changed in the field via rotary switch.

Superior Diagnostics

The SMARTS™ diagnostic technology provides an extensive set of built-in diagnostic tools including an audio test generator to verify operation of the audio channel and a video test pattern generator that allows failures to be diagnosed from the monitor. LEDs provide a visual indication of the operating status of the video, audio, data, and contact channels as well as the optical signal strength.



Standard Features

- **One-way video and two-way two-channel audio, two-channel multiprotocol data and two-channel contact closure transmission over one or two multimode fibers**
- **9-bit video processing**
- **24-bit audio processing**
- **>600 TV lines video resolution**
- **Unique data translation function**
- **Local or remote user-selectable data format - 2 independent data channels**
- **Supports multiprotocol data formats**
- **Relay/contact closure - 2 duplex channels**
- **Built-in video and audio test generators**
- **Diagnostic LEDs and on-screen monitor displays**



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Specifications

Video

- Channels: 1 simplex
- Format: All major formats
- Input/Output Signal: 1.0 V pk - pk
- Bandwidth: 7.5 MHz
- Video Resolution: >600 TV lines
- Signal-to-Noise Ratio: >65 dB
- Input/Output Impedance: 75 ohms
- Differential Phase: 0.7°
- Differential Gain: <1%

Audio

- Channels: 2 duplex
- Input Signal: 17.4 V p-p, +18 dBu max.
- Input Impedance: 600 ohms or 100k ohms
- Output Signal Level: 17.4 V p-p, +18 dBu max.
- Output Impedance: 30 ohms unbalanced, 60 ohms balanced
- Bandwidth: 20 Hz to 20 kHz
- Audio Sampling Rate: 52 kHz
- Signal-to-Noise Ratio: >90 dB
- Total Harmonic Distortion: <0.006%

Data

- Channels: 2 duplex, format independent
- Formats: RS-232 (3-wire/5-wire), TTL, RS-422, RS-485 (2-wire/4-wire), Manchester, Biphase, SensorNet
- Baud Rate: 250 kbps to 512 kbps (depending on data format)
- Bit Error Rate: <1.0E-9
- Relay/Contact Closures: 2 duplex channels
- Relay/Contact Rating: 1 A at 30 VDC

Optical

- Mode: Multimode
- Optical Budget: 13 dB
- Emitter: Laser
- Wavelength: 850 nm and/or 1300 nm (depending on model)
- Operating Distance: Up to 11 mi (18 km) (depending on model)
- Gain Control: Optical Automatic Gain Control (OAGC)

Electrical

- Input Power: 13.5 VDC regulated
- Current Requirement: 500 mA
- Power Consumption: 6.75 W
- Power Factor: 4
- Protection: Solid-state short circuit protection
- Power Supply: Model 613P (optional)

Environmental

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

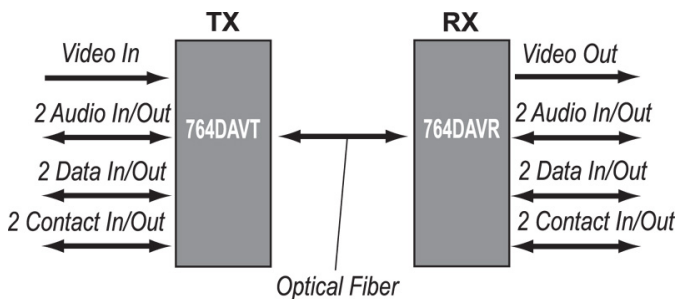
Standards

- Emissions: FCC Part 15, ICES-003, AS/NZS 3548, EN55022
- Immunity: ENV50130-4
- Safety: UL 1950, CAN/CSA 22.2, NO. 950-95
- Laser Safety: 21CFR1040, EN60825-1, -2

Mechanical

- Dimensions: 2 slots (2.0")
- Weight: 1.25 lbs (0.57 kg)
- Construction: Aluminum

Related Diagram



Ordering Information

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

S764DAV -RST

| Product Type | No. of Fibers | Optical Wavelength |
|---------------|---------------|--------------------------------------|
| T Transmitter | 1 1 Fiber | Add L here only if ordering |
| R Receiver | 2 2 Fibers | 2-Fiber unit (High Order Wavelength) |



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