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## **S732DV**

*Video and Two-Way Multiprotocol Data*

### **Overview**

The S732DV fiber links provide transmission of one-way video and two-way multiprotocol data over one or two multimode optical fibers. A complete system consists of a transmitter and a receiver. The links can be supplied as either a standalone module or as a rack card that can be installed in a standard 19-inch card cage.

### **Video Processing**

The units utilize 8-bit video processing of the video component along with a signal-to-noise ratio >55 dB that assures clean, noise-free video at the receiver.

### **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 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 equipment.

### **CWDM Technology**

Certain models of the S732DV series incorporate Coarse Wavelength Division Multiplexer (CWDM) technology for maximum distance capability using a single multimode fiber.



### **Standard Features**

- **One-way video, two-way multiprotocol data transmission over one or two multimode fibers**
- **8-bit video processing**
- **520 TV lines video resolution**
- **Unique data translation function**
- **Field-selectable data format**
- **13 dB optical budget (20 dB on CWDM models)**
- **Supports all major data formats**
- **Standalone or rack configurations**



# S732DV

Video and Two-Way Multiprotocol Data

## Specifications

### Video

- Channels: 1 simplex
- Format: NTSC and PAL
- Input/Output Signal: 1.0 V pk - pk
- Bandwidth: 6.5 MHz
- Video Resolution: 520 TV lines
- Signal-to-Noise Ratio: >55 dB
- Input/Output Impedance: 75 ohms
- Differential Phase: 0.7°
- Differential Gain: 2%

### Data

- Channels: 1 duplex
- Formats: RS-232 (3-wire/5-wire), TTL, RS-422 (2-wire/4-wire), RS-485, Manchester, Biphase, SensorNet, DTMF control
- Baud Rate: 250 kbps to 512 kbps or 15 kHz (depending on data format)
- Bit Error Rate: <1.0E-9

### Optical

- Mode: Multimode
- Optical Budget: 13 dB (20 dB on CWDM models)
- Emitter: LED or Laser
- Wavelength: 850 nm and/or 1300 nm (depending on model); 1310 nm and 1330 nm on CWDM models
- Operating Distance: Up to 4.0 mi (6.5 km) (depending on model)
- Launch Power: -15 dBm
- Receiver Sensitivity: -28 dBm
- Gain Control: Optical Automatic Gain Control (OAGC)

### Electrical

- Input Power, Standalone Units: 24 VAC or 13.5 VDC regulated
- Input Power, Rack Units: 13.5 VDC regulated
- Current Requirement: 450 mA
- Power Consumption: 6 W
- Power Factor: 4 (rack units only)
- 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

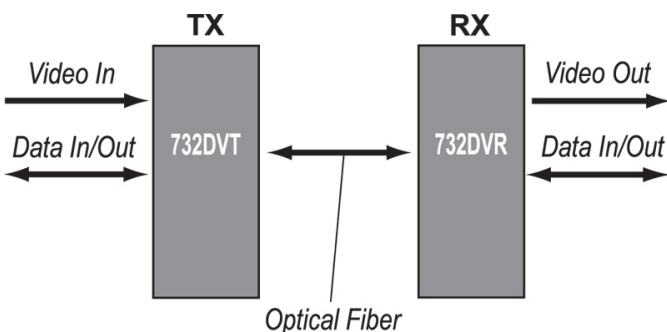
### Standards

- Emissions: FCC Part 15, ICES-003, AS/NZS 3548, EN55022
- Immunity: ENV50204, EN61000-4-2, -3, -4, -5, -6, -11
- 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"
- Dimensions, Rack Units: 1 slot (1.0")
- Weight: Standalone 1.2 lbs (0.54 kg); rack 0.6 lbs (0.27 kg)
- Construction: Steel (standalone); Aluminum (rack)

## Related Diagram



## Ordering Information

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

Product Type	Enclosure	No. of Fibers	Optical Wavelength
T Transmitter	E Standalone	1 1 Fiber	Add L here only if ordering High Order Wavelength
R Receiver	R Rack Card	2 2 Fibers	



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