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## **S7754DA**

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

### **Overview**

The S7754DA fiber links provide two-way transmission of two audio channels, two multiprotocol data channels, and two contact closure channels over one or two single-mode fibers.

### **Digital Processing**

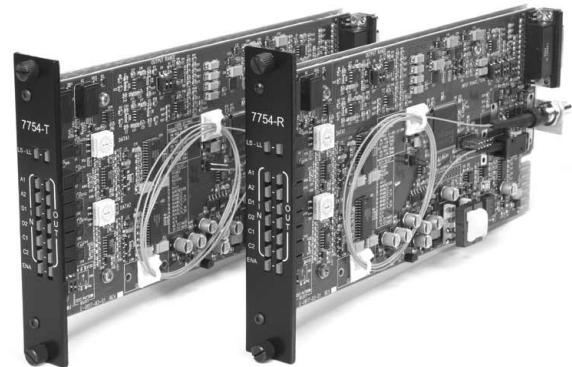
Digital processing of the audio signal along with an audio signal-to-noise ratio >90 dB allows the audio output to drive balanced or unbalanced loads and maintain constant audio levels.

### **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 channels. LEDs provide a visual indication of the operating status of the audio, data, and contact channels as well as the optical signal strength.



### **Standard Features**

- **Two-way transmission of two audio, data and contact closure channels over one or two single-mode fibers**
- **24-bit audio processing**
- **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 audio test generator**
- **Diagnostic LEDs**



# S7754DA

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

## Specifications

### 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: Single Mode
- Optical Budget: 18 dB
- Emitter: Laser
- Wavelength: 1310 nm and/or 1550 nm (depending on model)
- Operating Distance: Up to 37 mi (60 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

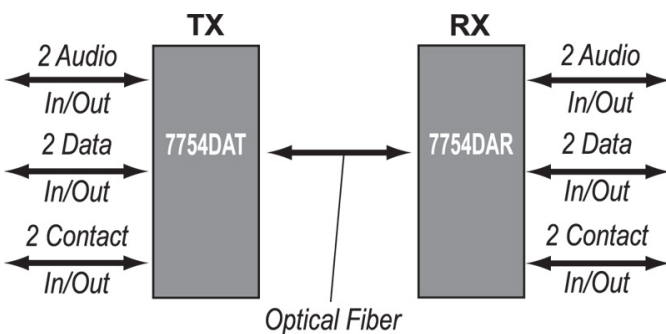
### Standards

- 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

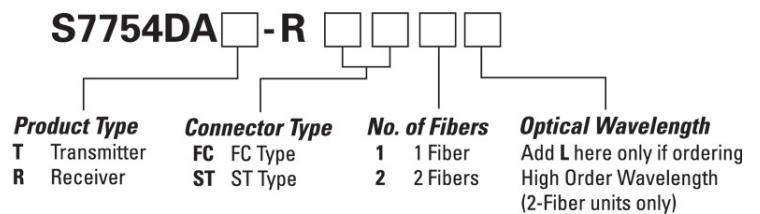
- Dimensions: 1 slot (1.0")
- Weight: 0.7 lbs (0.32 kg)
- Construction: Aluminum

## Related Diagram



## Ordering Information

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



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