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## **B7720A**

Single Channel Audio

### **Overview**

The B7720A series high performance, broadcast-grade fiber transmission system supports one-way High Quality Audio (HQA). The all-digital processing platform features 24-bit audio processing.

### **Digital Audio Processing**

Digital processing of the audio signal along with an audio signal-to-noise ratio of >70 dB allows the audio output to drive balanced or unbalanced loads and maintain constant audio levels.

### **Built-in Diagnostics**

Built-in system diagnostics include LED displays that monitor input and output audio levels and transmitter/receiver operation.



### **Standard Features**

- **One-way audio transmission over one single-mode fiber**
- **24-bit audio processing**
- **20 Hz to 15 kHz frequency response**
- **Balanced or unbalanced audio**
- **13 dB optical budget**
- **70 dB audio SNR**
- **33 kHz audio sampling rate**
- **THD < 0.01%**



# B7720A

Single Channel Audio

## Specifications

### Audio

- Channels: 1 simplex
- Input Signal Level: 6 dBu balanced (max.), 0 dBu unbalanced
- Input Impedance: 30k ohms (balanced or unbalanced)
- Frequency Response: 20 Hz to 15 KHz
- Sampling Rate: 33 kHz
- Output Signal Level: 6 dBu balanced (max.), 0 dBu unbalanced
- Output Impedance: <30 ohms unbalanced, <60 ohms balanced
- Signal-to-Noise Ratio: 70 dB
- Total Harmonic Distortion: <0.01%

### Optical

- Mode: Single Mode
- Optical Budget: 13 db
- Emitter: Laser
- Wavelength: 1310 or 1550 nm (depending on model)
- Operating Distance: Up to 27 mi (43 km) (depending on model)
- Modulation Type: Digital
- Gain Control: Optical Automatic Gain Control

### Electrical

- Input Power, Standalone Units: 24 VAC or 13.5 VDC regulated
- Input Power, Rack Units: 13.5 VDC regulated
- Current Requirement: 250 mA
- Power Consumption: 3.5 W
- Power Factor: 2 (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

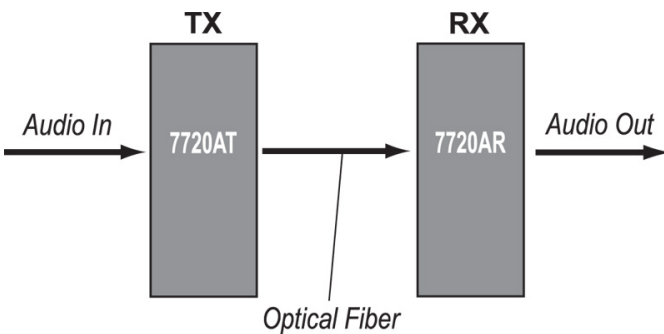
### Standards

- Emissions: FCC Part 15, ICES-003, AS/NZS 3548, EN55022
- Immunity: EN50204, EN61000-4-2, -3, -4, -5, -6, -11
- Safety: UL 1950, CAN/CSA 22.2, NO. 950-95

### Mechanical

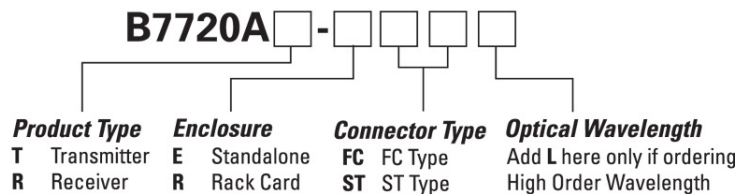
- Dimensions (LWD), Standalone Units: 5.0" x 4.8" x 1.5"
- Dimensions, Rack Units: 1 slot (1.0")
- Weight: Standalone 1.2 lbs (0.54 kg); rack 0.6 lbs (0.27 kg)
- Construction: Steel (standalone); Aluminum (rack)

## Related Diagram



## Ordering Information

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



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