

## Audio over CAT5 Extenders

- > Simple, reliable signal extension for stereo analog and S/PDIF digital audio signals
- > Extends signals up to 2000 ft (analog) using inexpensive CAT5 wire<sup>(1)</sup>
- > Provides an audio return channel solution for Sonnex<sup>®</sup> and other multiroom audio systems
- > Professional quality audio performance
- > Completely passive — no power required
- > Surface mountable or attach to a single rack rail
- > Up to three units fit side-by-side on a 1U 19" rack shelf



The Crestron<sup>®</sup> AUD-EXT Series is a family of low-cost audio extenders designed for transporting analog and digital audio signals over several hundred feet using inexpensive CAT5 (or better) UTP cable. Three different AUD-EXT models are available, each consisting of one transmitter and one receiver. Models include:

- AUD-EXT-100 extends one unbalanced stereo audio signal up to 2000 ft (610 m)
- AUD-EXT-200 extends two unbalanced stereo audio signals up to 2000 ft (610 m)
- AUD-EXT-201 extends one unbalanced stereo audio signal and two S/PDIF audio signals up to 600 ft (183 m)

Crestron Audio over CAT5 Extenders are ideal for use with a Sonnex<sup>®</sup> Multiroom Audio System to provide one or more audio return channels. An audio return channel allows an audio source located in any room of the house to be routed to any other room through the central audio distribution system.

Each AUD-EXT transmitter and receiver is designed to allow for mounting to a suitable flat surface or to a single rack rail in the back of an equipment rack. Three units can also fit neatly side-by-side on a standard 1U 19" rack shelf. AUD-EXT devices are completely passive, eliminating any extra cables or power supplies. Connecting a transmitter to its companion receiver requires just a single high-quality CAT5 (or better) UTP cable<sup>(1)</sup>.

### SPECIFICATIONS

#### Audio

**Bandwidth:** 20 Hz to 20 kHz  
**THD+N:** <0.1% @ 20 Hz, 2 Vrms  
**S/N Ratio:** >100 dB  
**Crosstalk:** < -70 dB

#### Connections – Transmitters

**AUDIO OUT:** (1) 8-wire RJ45 female;  
CAT5 audio balanced extension output;  
Connects to the companion receiver AUDIO IN port<sup>(1)</sup>

**AUDIO IN CH1 (AUD-EXT-100 & 201 only):** (1) pair RCA female;  
Unbalanced stereo line-level audio input;  
Input Impedance: 10k Ohms;  
Maximum Output Level: 2 Vrms

**AUDIO IN CH1 – CH2 (AUD-EXT-200 only):** (2) pairs RCA female;  
Unbalanced stereo line-level audio inputs;  
Input Impedance: 10k Ohms;  
Maximum Output Level: 2 Vrms

**AUDIO IN SPDIF 1 – 2 (AUD-EXT-201 only):** (2) RCA female; S/PDIF  
coaxial digital audio inputs;  
Input Impedance: 75 Ohms

#### Connections – Receivers

**AUDIO IN:** (1) 8-wire RJ45 female;  
CAT5 balanced audio extension input;  
Connects to the companion transmitter AUDIO OUT port<sup>(1)</sup>

**AUDIO OUT CH1 (AUD-EXT-100 & 201 only):** (1) pair RCA female;  
Unbalanced stereo line-level audio output;  
Output Impedance: 100 Ohms;  
Maximum Output Level: 2 Vrms

**AUDIO OUT CH1 – CH2 (AUD-EXT-200 only):** (2) pairs RCA female;  
Unbalanced stereo line-level audio outputs;  
Output Impedance: 100 Ohms;  
Maximum Output Level: 2 Vrms

**AUDIO OUT SPDIF 1 – 2 (AUD-EXT-201 only):** (2) RCA female; S/PDIF  
coaxial digital audio outputs;  
Output Impedance: 75 Ohms

#### Environmental

**Temperature:** 41° to 122°F (5° to 50°C)  
**Humidity:** 10% to 90% RH (non-condensing)

#### Enclosure

**Chassis:** Aluminum w/polycarbonate label overlay and (4) integral  
mounting flanges

# AUD-EXT Audio over CAT5 Extenders

**Mounting:** Freestanding, surface mount, or attach to a single rack rail

## Dimensions

**Height:** 1.68 in (43 mm)

**Width:** 5.12 in (131 mm)

**Depth:** 3.79 in (97 mm)

## MODELS & ACCESSORIES

### Available Models

**AUD-EXT-100:** Audio over CAT5 Extender for One Unbalanced Stereo Signal

**AUD-EXT-200:** Audio over CAT5 Extender for Two Unbalanced Stereo Signals

**AUD-EXT-201:** Audio over CAT5 Extender for One Unbalanced Stereo Signal & Two S/PDIF Signals

### Available Accessories

**CBL Series:** Crestron® Certified Interface Cables

#### Notes:

1. For connection between an AUD-EXT transmitter and receiver, use high-quality CAT5 (or better) unshielded twisted-pair cable. The maximum cable length is 2000 ft (610 m) for analog signals, and 600 ft (183 m) for digital signals. All wire and cables sold separately. AUD-EXT CAT5 signal extension technology is not compatible with Sonnex® Link, Crestron Home® (CH), DigitalMedia™ (DM®), or other CAT based signal extension technologies.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/salesreps](http://www.crestron.com/salesreps) or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: [patents.crestron.com](http://patents.crestron.com).

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