

CNX-BIPAD8

CAT5 Audio Distribution Processor

Among the wave of multi-room audio products on the market, Crestron audio distribution processors are set apart for their unmatched flexibility and no-compromise performance. Features like independent software-driven preamp-style controls on every room output enable the most demanding user to tailor the listening experience to individual taste in every room. Any audio parameter or device function can be controlled using keypads, handheld remotes, touchpanels, or computers, putting just the right amount of control right where it's needed.

Up to 24 Stereo Sources x Up to 32 Rooms

The CNX-BIPAD8 is a high performance 24 x 8 stereo audio switcher and preamplifier, providing distribution of 16 stereo audio sources and 8 room inputs to any of 8 room outputs. Up to four CNX-BIPAD8's may be combined to handle as many as 32 rooms*. Every room output includes independent control over volume, bass, treble, balance, loudness, and mute. Mono summing is also built in to facilitate distribution to non-stereo zones.

Crestron Home® CAT5 Balanced Audio

The CNX-BIPAD8 is designed to provide maximum flexibility for audio distribution through the use of Crestron's bidirectional CAT5 balanced technology. The CNX-BIPAD8 actually supports a versatile combination of balanced line-level and speaker-level audio, featuring both balanced and unbalanced connections on each room output. The RCA-type unbalanced connections may be used to directly drive a multi-channel amplifier, while the RJ45-type CAT5 connections enable distribution of line-level signals to remote room locations up to 1000 feet away.

Room Solution Boxes

At each remote room location, one of Crestron's "Room Solution Boxes" is connected to the television or local amplifier to receive the CAT5 signal and serve as a local preamp and switcher. Audio-capable models include the CNXRMCLV, C2N-DAP8, and C2N-DAP8RC. These models also support a "return" audio signal over the same CAT5E cable allowing the signal from a local audio source to be routed to the head-end for redistribution to other rooms. A single CNX-BIPAD8 can receive and redistribute return signals from up to 8 rooms without additional equipment. For systems utilizing multiple CNX-BIPAD8's, one CNX-PBAR4 balanced audio receiver must be added for every 4 room returns.

Advanced Features

Additional features make the CNX-BIPAD8 a truly refined audio component. Programmable input gain compensation assures a consistent level when switching between input sources. Scaling factor settings allow minimum and maximum levels to be defined for each room output. And, protective relays on each output prevent "thumps" during power-up and provide total attenuation when any room is turned off.

A Complete System Solution

Together with any 2-Series control system, Crestron's audio distribution processors provide an extensively customizable audio control solution. For the ultimate in audio performance, just add a CNAMPX-series multi-room amplifier to form a total, intelligent audio head-end. Crestron keypads and touchpanels complete the system, putting essential control access within arm's reach throughout the home, office, restaurant, etc.

SystemBuilder™ Programming

Crestron's SystemBuilder software can make audio distribution programming a quick and simple task, providing easy drag-and-drop system configuration with extensive support for interfacing to



hundreds of AV devices through Crestron's vast database of third-party codes and drivers. Hi-tech or bare necessity, for all tastes and technical abilities, SystemBuilder allows the discerning AV system designer to deliver a tailor-made audio distribution solution every time.

- > High-performance stereo audio switcher and preamp
- > Distributes 16 stereo audio sources to 8 line outputs
- > RCA and RJ45 CAT5 outputs
- > Combinable for up to 32 rooms
- > 8 additional room return inputs via CAT5
- > Volume, bass, treble, balance, loudness, and mute controls
- > Programmable input gain compensation
- > Selectable mono summing on each output
- > Protective output mute relays
- > Fully configurable in SystemBuilder software
- > Controllable via Cresnet communications

SPECIFICATIONS

Audio

Typical of 8 Stereo Room Outputs:

Controls: Volume, Balance, Bass, Treble, Loudness, Mute, Mono, Input Compensation

Volume Gain Range: -80dB to +20dB, 1 dB steps

Mute: -100dB electronic, -120dB relay (room enable off)

Input Compensation: ±10dB

Bass Gain Range: ±12dB @ 100Hz, 2 dB steps

Treble Gain Range: ±12dB @ 10kHz, 2 dB steps

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Frequency Response: 8Hz to 60kHz \pm 0.2dB

S/N Ratio: >100dB

THD+N: <0.02%

Stereo Separation: >90dB

Connectors

SOURCES 1 - 16 : (64) RCA female comprising (16) unbalanced stereo line-level audio inputs, and (16) parallel loop-thrus;

Maximum Input Level: 3.2 Vrms (flat);

Input Impedance: 47k ohms;

Connect to outputs of source devices or CNX-PBAR4, with loop-thru to additional CNX-BIPAD8*

ROOMS 1 - 8 (RCA) : (16) RCA female comprising (8) unbalanced stereo line-level audio outputs;

Maximum Output Level: 2.5 Vrms;

Output Impedance: 37.5 ohms;

Connect to inputs of CNAMPX-series amplifier

ROOMS 1 - 8 (CAT5): (8) 8-pin RJ45 female, shielded;

Bidirectional CAT5 balanced audio ports;

Maximum Input/Output Levels: 4 Vrms;

Input/Output Impedances: 600 ohms;

Connect to room solution boxes, touchpanels, CNX-PBAR4, or any "CH" CAT5 audio ports**

NET: (1) 4-pin 5mm detachable terminal block;

Cresnet slave port, connects to Cresnet control network

Ground: (1) 6-32 screw, chassis ground lug

Buttons & LED Indicators

PWR: (1) green LED, indicates 24 Volts DC power supplied from Cresnet control network

NET: (1) yellow LED, indicates communication with Cresnet system

ROOMS 1 - 8: (8) red LED's, indicate if room outputs are enabled

SETUP (rear): (1) miniature pushbutton and (1) red LED, used for touch-settable ID (TSID)

Power Requirements

Cresnet Power Usage: 20 Watts (0.83 Amps @ 24 Volts DC)

Environmental

Temperature: 41° to 122°F (5° to 50°C)

Humidity: 10% to 90% RH (non-condensing)

Enclosure

Black metal, 2U 19-inch rack-mountable (rack ears included)

Dimensions

Height: 3.56 in (9.04 cm);

3.47 (8.81 cm) without feet

Width: 17.03 in (43.26 cm);

19.0 in (48.26 cm) with ears

Depth: 8.67 in (22.02 cm)

Weight

6.2 lbs (2.8 kg)

* Room outputs are expandable by cascading the inputs of multiple units using standard RCA interconnect cables. Crestron recommends cascading no more than four (4) units. The actual number of possible units in a system is virtually unlimited, although additional equipment may be necessary to maintain signal integrity. Contact Crestron for additional assistance.

** Maximum CAT5 distance for audio is 1000 feet

Available Models

CNX-BIPAD8: CAT5 Audio Distribution Processor [Limited Supply]

Available Accessories

ABAR-1: Adagio® Balanced Audio Receiver

ABARI-1: Adagio® Balanced Audio Receiver - International Version, 230V

C2N-DAP8: 7.1 Surround Sound Audio Processor

C2N-DAP8RC: 7.1 Surround Sound Audio Processor w/Video Switching and Room Control

CNAMPX-16X60: 16 Channel Multi-Room Amplifier [Discontinued]

CNAMPX-2X60: 2 Channel Room Amplifier [Discontinued]

CNAMPXI-16X60: 16 Channel Multi-Room Amplifier - International Version, 230V [Discontinued]

CNAMPXI-2X60: 2 Channel Room Amplifier - International Version, 230VAC [Discontinued]

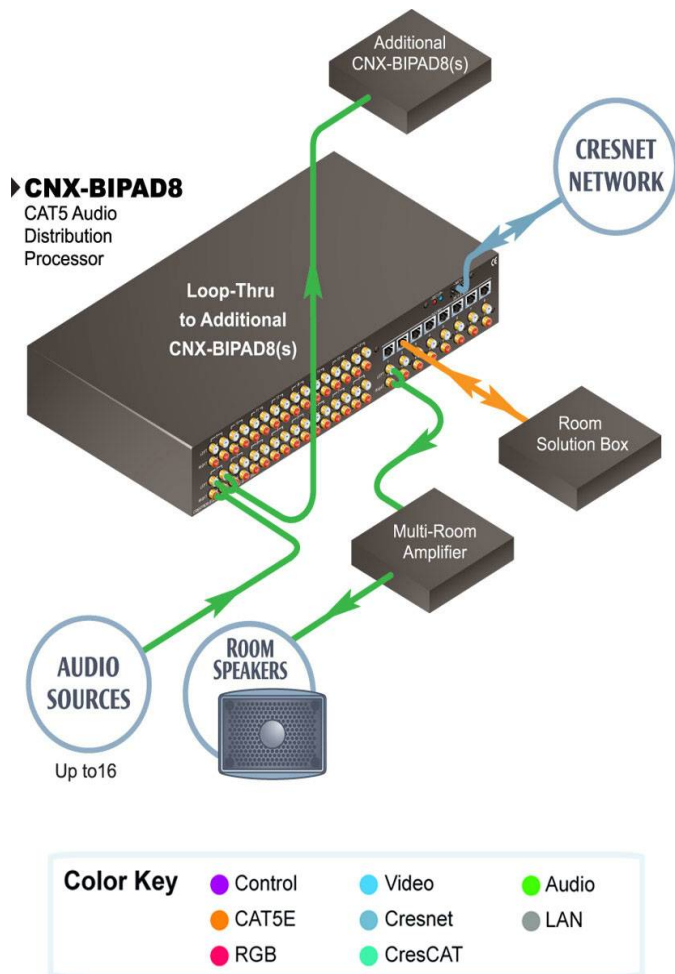
CNX-PBAR4: 4 Room CAT5 Balanced Audio Receiver

CNXBRMO: Bridging and Mono-Summing Adapter for CNAMPX-12X60 and CNAMPX-16X60

CNXRMCLV: Enhanced CAT5 Room Solution Box

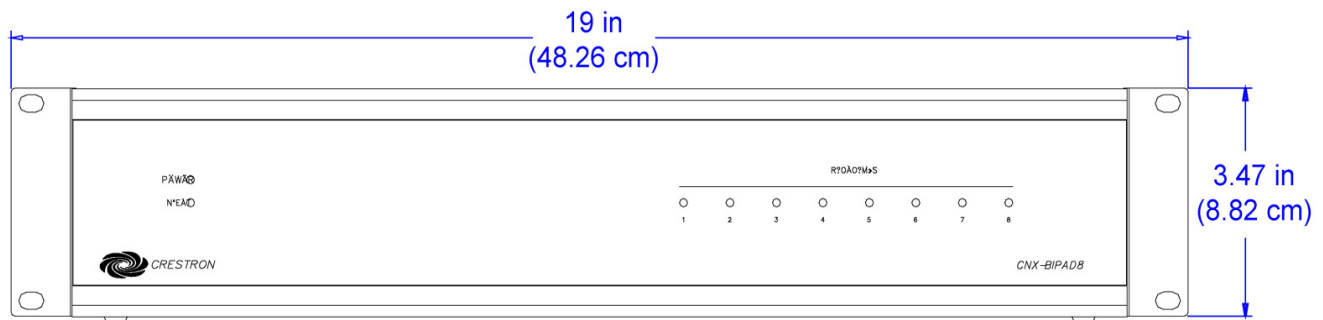
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Typical CNX-BIPAD8 Connections

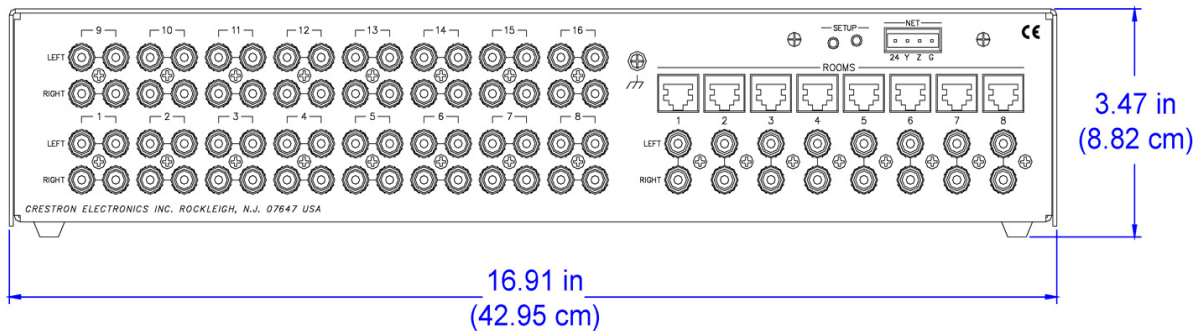


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