

Crestron CNAMPX-12x60 Intelligent Audio Amplifier

CRESTRON
HOME



The CNAMPX-12x60 professional audio amplifier delivers 12 channels at 60 Watts per channel into 8 ohms, or 90 Watts per channel at 4 ohms. The Crestron Home® CNAMPX-12x60 Professional Audio Amplifier is the first of the residential audio amplifier series. The 12-channel CNAMPX provides remote system power on/off. The amp runs over a Crestron control network (Cresnet®) and is typically installed in combination with the Crestron CNX-PAD8A or CNX-BIPAD8 professional audio distribution processors. Ambient temperature within the enclosure is reported via Cresnet and is available as Fahrenheit or Celsius. These signals can be used to reduce the audio volume, activate an external cooling fan, or turn the unit off under program control.

Massive toroidal transformers provide pure, continuous power to the 6 two-channel amplifier modules. Crestron's Detachable Modular Component design of each module allows for rapid repair in the field. Both channels of each module have their own power supply and filter capacitors that produce enhanced dynamic range. Cool operation is ensured with more than 300 square inches of radiating heat sink surface contained in each channel.

The CNAMPX-12x60 is part of the complete Crestron Home line of fully integrated home control and automation solutions. Crestron Home features professional in-wall and wireless touchpanels, keypads, control processors, audio amplifiers, tuners and switchers, plus easy-to-use software templates for system design and programming. Our control and automation solutions are perfect for central-based systems as well as distributed and hybrid systems, either retro-fits or new construction. Crestron Home makes home technology practical and easy to use.

- > 12 channels of amplification
- > 60 Watts per channel into 8 ohms
- > 90 Watts per channel into 4 ohms
- > 220 Watts per channel into 8 ohms bridged using CNXBRMO
- > Frequency response flat within +0, -0.1 dB from 20Hz to 20KHz
- > Remote system power On/Off
- > Remote temperature monitoring
- > Runs on Cresnet Bus up to 5000' from system



Crestron CNAMPX-12x60 Network Amplifier

Physical Description

Dimensions: 7.69 in (19.53 cm) H x 19.00 in (48.26 cm) W
(with mounting ears) x 17.22 in (43.74 cm) D

Weight: 81.4 lb (37.00 kg)

Rack Space Required: 4U

Leading Specifications

Channels: 12 grouped into 6 stereo pairs

Input Impedance: 28K ohms

Power Bandwidth -3dB: 3Hz to 50KHz

Frequency Response @ 1W 8ohm: Flat +0, -0.1dB from
20Hz to 20KHz

8 ohm load: 60 Watts/Channel, All channels driven,
20Hz to 20KHz, at rated THD

4 ohm load: 90 Watts/Channel

8 ohm load Bridged: 220 Watts/Channel (CNXB8MO required)

Total Harmonic Distortion (THD) @ full power: 0.03% or less

IHF I.M. Distortion: 0.01% or less

SMPTE I.M. Distortion: 0.03% or less

Dynamic Headroom: 2dB or more

Signal to Noise Ratio (S/N) "A" Weighted: >110dB

Gain: 28dB

Damping Factor: >400

Channel Separation over full bandwidth: >100dB

Environmental Temperature Range: 41-104°F / 5-40°C

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

Power

Input Requirements (domestic):

120VAC +/-10%, 50-60Hz, 1440 Watts

Input Requirements (international):

230VAC +/-10%,
50-60Hz, 1440 Watts

Cresnet Power

Requirements:
24VDC @ .125A,
3 Watts

Rear Indicators

PWR: Green LED is illuminated when operating power is supplied to the CNAMPX-12X60.

NET: Yellow LED indicates that the SIMPL program currently loaded in the control system has a network device defined at the same NET ID code as the CNAMPX-12X60. LED flashes when communication with the Cresnet system and the CNAMPX-16X60 is occurring.

VERRIDE Button and Indicator: OVERRIDE button is used to activate AC power. Button functions only when 24VDC is applied to the NET connector. Red LED illuminates when the OVERRIDE is activated.

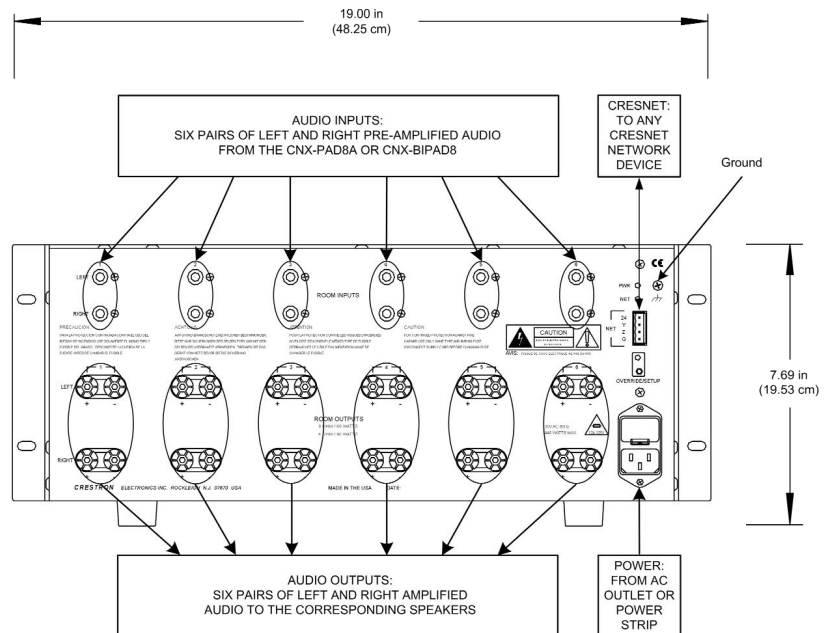
Rear Ports

NET: The 4-pin network connector is used to connect the CNAMPX-12X60 to the Cresnet system.

Power Connector and Fuse Compartment: The power connector provides AC operating power to the CNAMPX-12X60 via the supplied power cord. The fuse electrically protects the internal circuitry from power overloads and is located (a spare fuse is included) within the compartment above the power connector.

ROOM INPUTS 1 - 6: Each of the 6 pairs of RCA connectors is typically used to connect the pre-amplified audio from the CNX-BIPAD8 and CNX-PAD8A to the CNAMPX-12X60. The left channel audio is input to the connectors with the white center insulators and right channel audio is input to the connectors with red center insulators.

ROOM OUTPUTS 1 - 6: These 8 pairs of speaker dual-binding posts output the left and right amplified audio to the corresponding speakers. The audio positive posts have RED screw-on caps and the audio negative posts have BLACK screw-on caps. Each post is gold-plated and accepts bare wire, banana plugs, or spade lugs.



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Crestron Electronics, Inc. 15 Volvo Drive • Rockleigh, NJ 07647
Tel: 800.237.2041 / 201.767.3400 • Fax: 201.767.7576 • www.crestron.com

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