# C2N-AMP-4X100

# 4 Room Audio System

> *Affordable audio distribution for four rooms, expandable for up to 16 rooms*

> *Integrated eight-channel amplifier delivers 50 W/Ch. @ 8Ω and 75 W/Ch. @ 4Ω*

> *Room outputs 1&2 and 3&4 are each bridgeable for 150 W/Ch. @ 8Ω*

> *Features independent control of volume, bass, treble, and other settings per room/zone*

> *Includes six stereo line inputs with loop-thru for easy expansion*

> *Includes front panel controls for source selection and volume control*

> *Front panel is customizable using Crestron® Engraver software or pre-printed labels provided*

> *Allows for Crestron system integration via Cresnet®*

> *Provides built-in Cresnet distribution and power for four room keypads*

The Crestron® C2N-AMP-4X100 delivers cost-effective audio distribution for up 16 rooms — perfect for small to moderate sized houses, condominiums, and businesses. Each C2N-AMP-4X100 handles up to four rooms, and includes six stereo line inputs to accommodate all your music and AV sources. With many of the same pro features as Crestron's more expensive systems, the C2N-AMP-4X100 lets everyone enjoy their own choice of music, sports, news, or talk in any room as part of a complete Crestron system.

**Powerful Stuff**

Each room output is capable of 50 Watts/Ch. @ 8Ω or 75 Watts/Ch. @ 4Ω — perfect for driving a house full of Crestron Excite®, Aspire®, Essence®, AIR®, and Saros® speakers. Outputs may also be bridged to deliver a robust 150 Watts/Ch. @ 8Ω. Each room has the ability to select any of the six input sources, with complete control over the room's volume, bass, treble, balance, loudness, mute, and mono settings.

**Mansion Expansion**

A single C2N-AMP-4X100 provides a perfect solution for a typical apartment or small business — with room to grow. Expanding the system is easy — simply add up to three additional units to support a total of 16 rooms or zones.

**Sources of Inspiration**

To complement your multiroom audio system, Crestron offers a selection of source components with advanced features designed to deliver the ultimate in whole-house audio integration. The CEN-NSP-1 Network Stream Player enables seamless integration of your iPhone®, iPod®, or iPad® via AirPlay® or a USB dock, allowing all your music and other audio content to be easily selected and controlled right from the mobile device, or via a Crestron touch screen anywhere in the house. Multizone radio can be added to your system using the low-cost C2N-TAMFMXM AM/FM and XM® Tuner or the versatile CEN-TRACK TunerRack Modular Multi-Tuner, offering your choice of satellite, terrestrial, and Internet radio tuner options.[1]

**Control Your Way**

Crestron offers the widest selection of low-cost keypads, wireless remotes, and advanced touch screens for controlling your multiroom system. Our TSW-552, TSW-752, and TSW-1052 touch screens each offer a perfect complement to the C2N-AMP-4X100 in a range of sizes, providing a fun and intuitive touch screen controller for accessing all your multimedia sources as well as lighting, climate, and other functions. The TSR-302 handheld remote puts wireless touch screen control in the palm of your hand, moving effortlessly from room to room to control audio and anything else you desire. Crestron also offers the ability to control anything and everything from an iPhone, iPad, or Android™ mobile device.[1]

**Great Integration**

Cresnet® connectivity allows for easy integration with any Crestron system. Built-in Cresnet distribution provides a convenient termination point for keypads, RF gateways, and other devices. Four Cresnet ports are included on each C2N-AMP-4X100, with 5 Watts of Cresnet power available per port.

**Contact your Crestron representative to discover all the amazing possibilities available for a complete, fully-integrated multiroom audio distribution and control solution.**

## SPECIFICATIONS

### Audio

**Features:** 6x4 stereo matrix switcher, 4-channel audio processor, 4-channel stereo power amplifier, input compensation, amp bridging, fault detection and protection
**Input Signal Types:** Stereo analog line (unbalanced)
**Output Signal Types:** Stereo speaker level

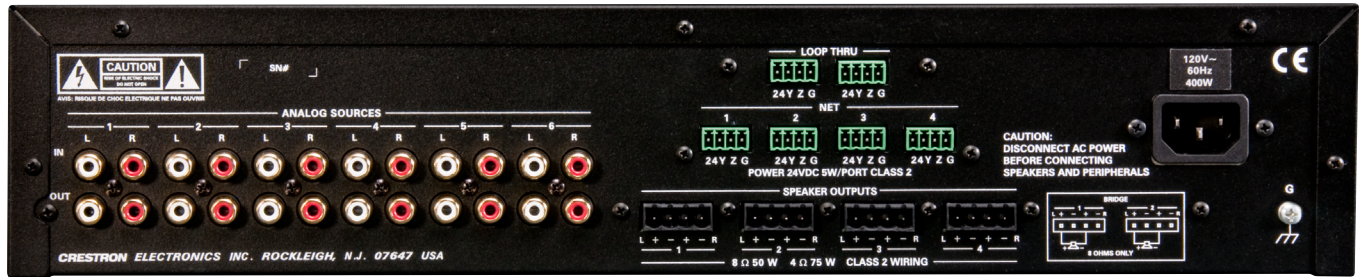Adjustments – typical of 6 stereo inputs (ANALOG SOURCES 1 – 6):
   **Input Compensation:** ±10.0 dB per input

Adjustments – typical of 4 stereo room outputs (SPEAKER OUTPUTS 1 – 4):
   **Volume Control:** -80 to +20 dB
   **Mute:** -100dB

**C2N-AMP-4X100 – Rear View**

**Bass Control:**  ±12dB @ 100Hz, 2 dB steps
**Treble Control:**  ±12dB @ 10kHz, 2 dB steps
**Loudness Compensation:**  On/Off
**Balance Control:**  Left/right adjustable
**Mono Summing:**  Selectable

Performance – typical of 4 stereo amplified outputs (SPEAKER OUTPUTS 1 – 4):

**Output Power:**  50 Watts per channel at 8 Ohms;
            75 Watts per channel at 4 Ohms;
            150 Watts per channel at 8 Ohms bridged
**Frequency Response:**  20 Hz to 20 kHz ±1 dB
**THD+N:**  0.4%, 1 kHz, 50W @ 8 Ohms
**S/N Ratio:**  103 dB, 20 Hz to 20 kHz, A-weighted
**Stereo Separation:**  >70dB

## Communications

**Cresnet®:**  Cresnet slave, provides Cresnet distribution and power for four room keypads

## Connectors

**ANALOG SOURCES L/R IN 1 – 6:**  (12) RCA female comprising (6) unbalanced stereo line-level audio inputs;
Maximum Input Level: 2 Vrms;
Input Impedance: 10k Ohms

**ANALOG SOURCES L/R OUT 1 – 6:**  (12) RCA female comprising (6) unbalanced stereo loop-thru outputs;
Paralleled with inputs, connect to additional C2N-AMP-4X100 units or other audio preamplifier/receiver

**SPEAKER OUTPUTS L/R 1 – 4:**  (4) 4-pin 5mm detachable terminal blocks;
Power amplifier outputs;
Wire Size: Terminals accept up to 14 AWG

**LOOP THRU:**  (2) 4-pin 3.5mm detachable terminal blocks;
Cresnet slave ports, paralleled;
Connect to control system and additional C2N-AMP-4X100 units

**NET 1 – 4:**  (4) 4-pin 3.5mm detachable terminal blocks;
Cresnet distribution ports, paralleled;
Connect to keypads and other Cresnet devices;
Maximum Cresnet Power per Port: 5 Watts (210 mA @ 24 Volts DC)

**120V~60Hz 400W (US/North America):**  (1) IEC 60320 C14 main power inlet; Mates with removable power cord (included)

**230V~50/60Hz 400W (International):**  (1) IEC 60320 C14 main power inlet; Mates with removable power cord (not included)

**G:**  6-32 screw, chassis ground lug

## Controls & Indicators

**SOURCE 1 – 6:**  (6) pushbuttons and green LEDs, select input source for routing
**ROOM 1 – 4:**  (4) pushbuttons and green LEDs, select output zone for routing and volume adjustment
**VOL ▲/▼:**  (2) pushbuttons, adjusts audio volume for selected output
**FAULT:**  (1) red LED, indicates a Temperature, DC, or Over Current fault condition
**NET:**  (1) amber LED, indicates communication with Cresnet system
**PWR:**  (1) green LED, indicates AC line power supplied and turned on
**On/Off:**  (1) rocker switch, turns unit on and off

## Power Requirements

**Main Power (US/North America):**  400 Watts @ 120 Volts AC, 60 Hz
**Main Power (International):**  400 Watts @ 230 Volts AC, 50/60 Hz
**Cresnet Power Usage:**  none
**Available Cresnet Power:**  5 Watts @ 24 Volts DC per each of four NET ports

## Environmental

**Temperature:**  41° to 104°F (5° to 40°C)
**Humidity:**  10% to 90% RH (non-condensing)
**Heat Dissipation:**  173.5 BTU/hr

## Enclosure

**Chassis:**  Metal with black finish, vented sides, fan-cooled
**Front Panel:**  Plastic, black with polycarbonate label overlay

## Dimensions

**Height:**  3.60 in (92 mm)
**Width:**  16.89 in (429 mm)
**Depth:**  13.64 in (347 mm)

## Weight

20.0 lbs (9.0 kg)

## MODELS & ACCESSORIES

### Available Models

**C2N-AMP-4X100:**  4 Room Audio System
**C2NI-AMP-4X100:**  4 Room Audio System - International Version, 230V

### Available Accessories

**CBL Series:**  Crestron® Certified Interface Cables
**AUD-EXT Series:**  Audio over CAT5 Extenders
**CRESNET-NP:**  Cresnet® Control Cable, Non-Plenum
**CRESNET-P:**  Cresnet® Control Cable, Plenum-Rated
**CRESNET-HP-NP:**  Cresnet® "High-Power" Control Cable, non-plenum

Notes:

1.  Item(s) sold separately.

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 or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com

16.89 in
(42.9 cm)

13.64 in
(34.64 cm)

TOP VIEW

LEFT SIDE VIEW

RIGHT SIDE VIEW

FRONT VIEW

3.6 in
(9.13 cm)

4 ROOM AUDIO SYSTEM

SOURCE

FAULT

VOL

ROOM

PWR

NET

C2N-AMP-4X100

16.890

REAR VIEW

CAUTION

LOOP THRU

24Y Z G    24Y Z G

NET

1    2    3    4

24Y Z G    24Y Z G    24Y Z G    24Y Z G

POWER 24VDC SW/PORT CLASS 2

ANALOG SOURCES

SPEAKER OUTPUTS

1    2    3    4    5    6

L R L R L R L R L R L R

IN

OUT

CRESTRON ELECTRONICS INC. ROCKLEIGH, N.J. 07647 USA

L + + − R   L + + − R   L + + − R   L + + − R

1    2    3    4

8 Ω 50 W   4 Ω 75 W   CLASS 2 WIRING

120V~
50Hz
400W

CAUTION:
DISCONNECT AC POWER
BEFORE CONNECTING
SPEAKERS AND PERIPHERALS