quickstart guide
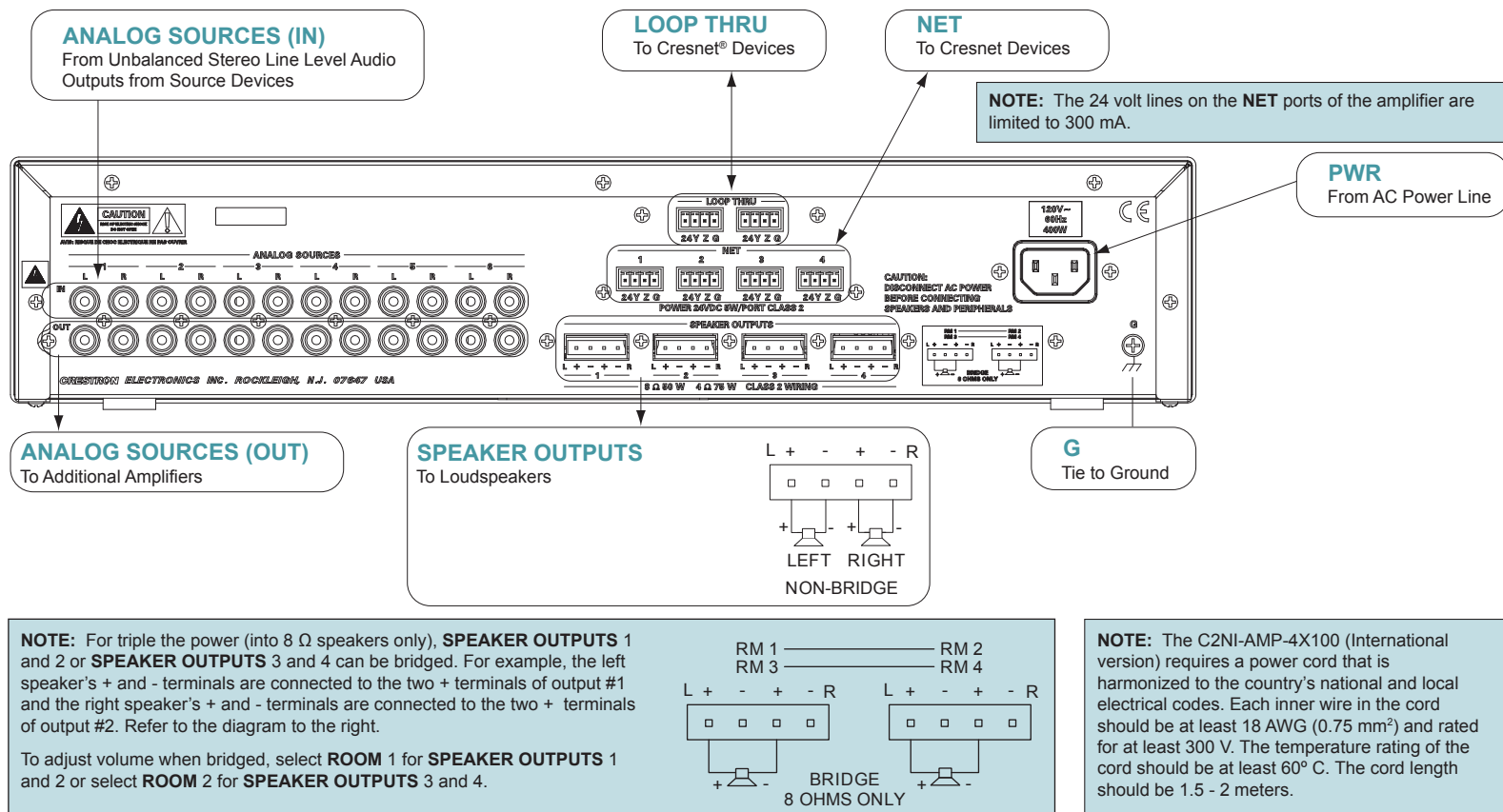
1 Hardware Hookup

Make the necessary connections as called out in the diagram below. Connect power last.

ANALOG SOURCES (IN)
From Unbalanced Stereo Line Level Audio Outputs from Source Devices

LOOP THRU
To Cresnet® Devices

NET
To Cresnet Devices

NOTE: The 24 volt lines on the **NET** ports of the amplifier are limited to 300 mA.

PWR
From AC Power Line

ANALOG SOURCES (OUT)
To Additional Amplifiers

SPEAKER OUTPUTS
To Loudspeakers

L +   -   +   - R

LEFT   RIGHT
NON-BRIDGE

G
Tie to Ground

NOTE: For triple the power (into 8 Ω speakers only), **SPEAKER OUTPUTS** 1 and 2 or **SPEAKER OUTPUTS** 3 and 4 can be bridged. For example, the left speaker's + and - terminals are connected to the two + terminals of output #1 and the right speaker's + and - terminals are connected to the two + terminals of output #2. Refer to the diagram to the right.

To adjust volume when bridged, select **ROOM** 1 for **SPEAKER OUTPUTS** 1 and 2 or select **ROOM** 2 for **SPEAKER OUTPUTS** 3 and 4.

RM 1 ——————— RM 2
RM 3 ——————— RM 4

L +   -   +   - R   L +   -   +   - R

BRIDGE
8 OHMS ONLY

NOTE: The C2NI-AMP-4X100 (International version) requires a power cord that is harmonized to the country's national and local electrical codes. Each inner wire in the cord should be at least 18 AWG (0.75 mm^2) and rated for at least 300 V. The temperature rating of the cord should be at least 60º C. The cord length should be 1.5 - 2 meters.

2 Attach the Labels

Use the included labels and inserts to prepare the C2N(I)-AMP-4X100:

1. Locate the **SOURCE** and **ROOM** label inserts included with the unit (**SOURCE** insert has space for six labels, **ROOM** insert has room for four labels).

2. Apply the peel-and-stick labels in the appropriate positions on the inserts, being careful to match label positions to what is configured in the programming software. For neatest appearance, when applying a label, cover the white guidelines on the insert. First and last labels cover one line each; labels in between cover lines on their left and right sides.

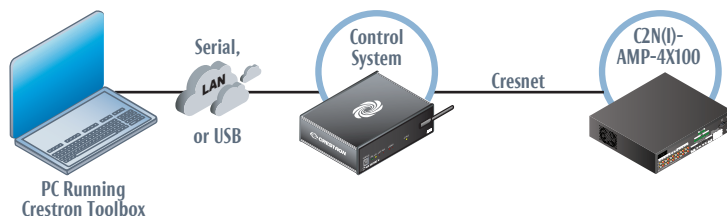For Regulatory Compliance information, refer to the latest version of Doc. 7289.

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3 **Establish Communication**

Use Crestron Toolbox™ to communicate with the C2N(I)-AMP-4X100. Refer to the Crestron Toolbox help file for details.

There is a single method of communication: Indirect communication.

> **NOTE:** Required for setting the Net ID and loading firmware.

Serial, or USB · LAN · Control System · Cresnet · C2N(I)-AMP-4X100

PC Running Crestron Toolbox

The **NET** port on the C2N(I)-AMP-4X100 connects to the control system via Cresnet:

1. In Crestron Toolbox, click **Tools** | **System Info**.

2. Click the ✎ icon.

3. For *Connection Type*, select *Cresnet ID*. In the *Through* drop-down menu, select the control system that is connected to the device.

4. Click **OK**. Communications are confirmed when the device information is displayed.

4 **Net ID**

The Net ID of the C2N(I)-AMP-4X100 has been factory set to **33**. The Net IDs of multiple C2N(I)-AMP-4X100 devices in the same system must be unique. Net IDs are changed from a personal computer (PC) via Crestron Toolbox (refer to "Establish Communication" in section ❸).

5 **Operation**

Turn the Amplifier On or Off

To turn the amplifier on, move the front panel switch to the **ON** position.

To turn the amplifier off, move the front panel switch to the **OFF** position.

Select a Source

To select a source for distribution, press the desired **SOURCE** button. If a room is connected to the selected source, its LED lights.

> **NOTE:** If a room is in *Volume Control* mode, press a **SOURCE** button to exit the mode.

Select a Room

Once a source is selected, press any **ROOM** button that is to receive the selected source. The room is connected to the selected source and its LED lights.

To remove a room from the selected source, press the **ROOM** button of a connected room. The LED turns off.

> **NOTE:** If a room is in *Volume Control* mode, press a **ROOM** button to exit the mode.
>
> **NOTE:** If the outputs of the C2N(I)-AMP-4X100 are bridged, the **ROOM 1** button acts in unison with the **ROOM 2** button and the **ROOM 3** button acts in unison with the **ROOM 4** button. Similarly, the **ROOM 1** LED acts in unison with the **ROOM 2** LED and the **ROOM 3** LED acts in unison with the **ROOM 4** LED.

Volume Control Mode

The volume level of a connected room can be controlled when the room is in *Volume Control* mode. To switch to *Volume Control* mode:

1. Press and hold the **ROOM** button of the room to be controlled for 2 seconds.

   - Press ▼ or ▲ to change the volume in 1 dB increments.

   - Hold ▼ or ▲ for more than 1 second, to ramp the volume up or down in 1 dB/0.1 second increments.

   If the maximum volume or minimum volume is reached, all of the front panel LEDs blink three times.
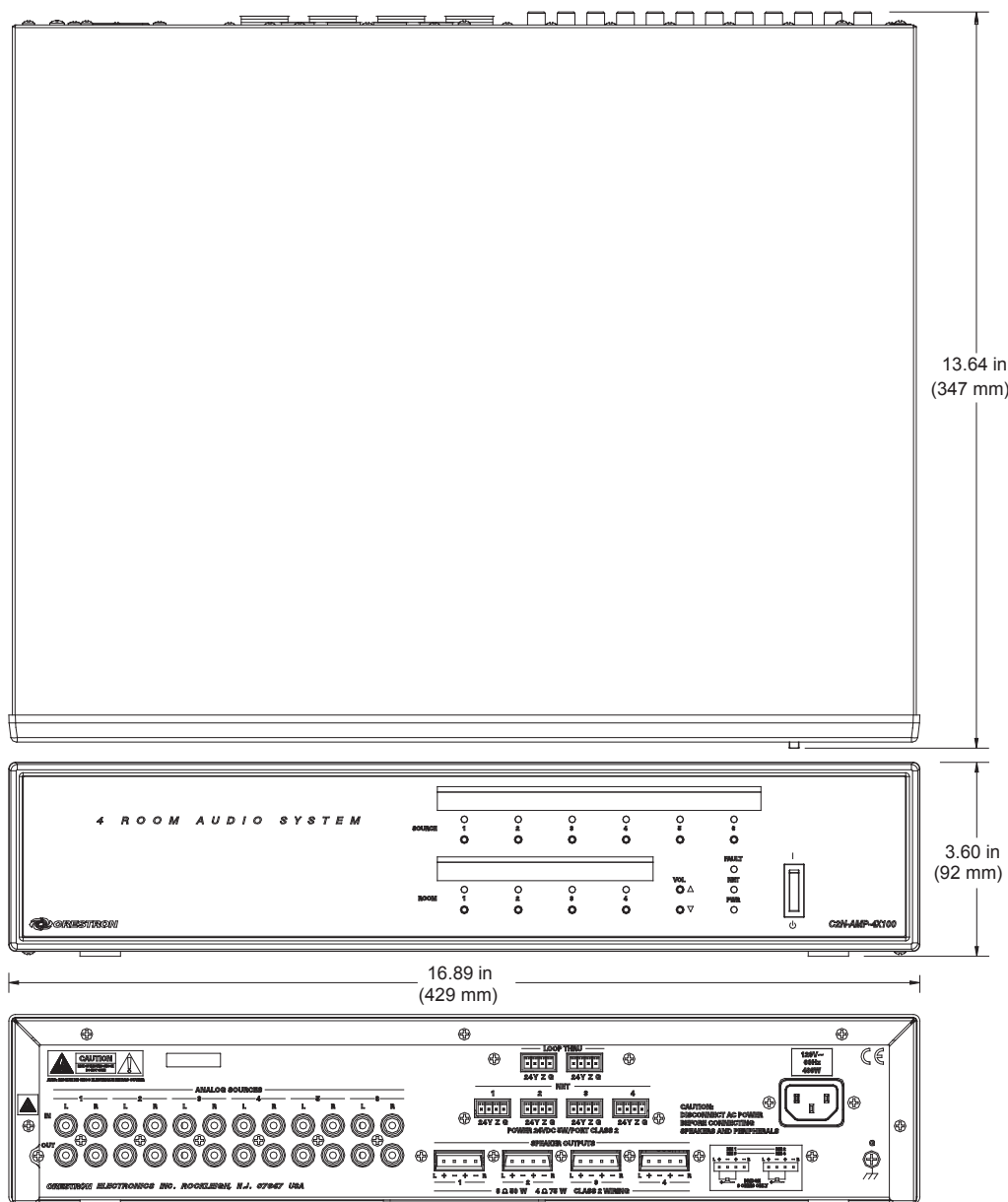
2. Press the **ROOM** button again to exit *Volume Control* mode.

   If ▼ or ▲ is not pressed for 10 seconds, the amplifier automatically exits *Volume Control* mode.

C2N(I)-AMP-4X100

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6 Dimensions

13.64 in
(347 mm)

3.60 in
(92 mm)

16.89 in
(429 mm)

C2N(I)-AMP-4X100

7 Specifications

SPECIFICATION	DETAILS
Audio	
Controls	Volume, Balance, Bass, Treble, Loudness, Mute, Mono, Input Compensation
Volume Gain Range	-80 dB to +20 dB, 1 dB steps
Mute	-100 dB (electronic)
Input Compensation	±10 dB
Bass Gain Range	±12 dB @ 100 Hz, 2 dB steps
Treble Gain Range	±12 dB @ 10 kHz, 2 dB steps
Frequency Response	20 Hz to 20 kHz ±1.0 dB
S/N Ratio	103 dB, 20 Hz to 20 kHz, A-weighted
THD + N	0.8%, 20 Hz to 20 kHz
Stereo Separation	>70 dB
Power Requirements	
Main Power	120 volts ac, 60 Hz (C2N-AMP-4X100) 230 volts ac, 50/60 Hz (C2NI-AMP-4X100)
Available Network Power	5 watts per each **NET 1-4** connection (no power on "Loop-Thru"); 24 volts dc
Environmental	
Temperature	41° to 122° F (5° to 50° C)
Humidity	10% to 90% RH (non-condensing)
Heat Dissipation	174 Btu/h
Dimensions	
Height	3.60 in (92 mm)
Width	16.89 in (429 mm)
Depth	13.64 in (347 mm)
Weight	20.0 lb (9.0 kg)

3

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