

4-Zone Amplifier Installation and Setup Guide



Supported Models

- C4-8AMP1-B 4-Zone Amplifier

Box Contents

- Control4® 4-Zone Amplifier
- IEC Power Cable
- 4-Zone Amplifier Installation and Setup Guide (this document)

Important Safety Instructions

1. Read and keep these instructions.
2. Heed all warnings and follow all instructions for this product in this and other Control4® documents included with or related to this product.
3. Improper use of this product may result in potential electric shock.
4. Do not use this product near water.
5. Never spill liquid of any kind on this product.
6. Clean this product only with a damp or dry cloth. Do not use liquid cleaners or aerosol cleaners to clean the product.
7. Install this product according to the manufacturer's instructions.
8. Install this product according to the National Electrical Code ANSI/NFPA 70 and the prevailing local codes and requirements.
9. This product is designed for IT power systems with phase-to-phase voltage 120V, 240V, or 277V.
10. This product should be operated with the type of power indicated on the marked label. If you are not sure of the type of power available, consult your Control4 dealer or local power company.
11. Slots and openings on a cabinet rack, and components used with this product are provided for ventilation, reliable operation, and protection from overheating of the product. These slots and openings must not be blocked or covered.
12. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
13. Never push objects of any kind into this product through cabinet slots because they may touch dangerous voltage points or short out parts that could result in a fire or electric shock.
14. Only use the attachments and accessories included with this product or recommended by Control4.
15. Do not allow anything to rest on the power cord. Do not install or place this product where people will walk on the cord.
16. Do not use extension cords with any products in a Control4 system.
17. If applicable, unplug this product during lightning storms or when unused for long periods of time.
18. This product must be installed by qualified professionals only.
19. Do not attempt to service this product yourself except as noted in this guide. Opening or removing covers of internal components may expose you to dangerous voltage points or other risks.
20. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged or frayed in any way; for example, a power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into this product, this product has been exposed to rain or moisture, this product does not operate normally, or this product has been dropped.

Requirements and Specifications

- Ensure that your home network wiring is in place before starting your system setup. The 4-Zone Amplifier is controlled through 10/100 Ethernet networking.

WARNING! To reduce the risk of fire, do not install this device in a cabinet that is smaller than 20" wide x 20" deep x 12" high. If you do, the device may overheat.

Product Specifications

Feature	Description
C4-4AMP1-B	4-Zone Amplifier
Communications:	Ethernet 10/100 networking
Connections:	4 stereo inputs, two of which can be digital; 4 sets of amplifier outputs
Dimensions:	4" x 17" x 16"
Display:	LCD screen
Power requirements:	100-240 VAC, 50-60 Hz
Shipping weight:	Approximately 16 lbs.

WARNING! Do not expose the apparatus to dripping or splashing. Do not place objects filled with liquids near the apparatus.

AVERTISSEMENT ! N'exposez pas l'appareil à l'égoutture ou à l'éclaboussement. Ne placez pas les objets remplis de liquides près de l'appareil.

WARNING! Setzen Sie den Apparat nicht Bratenfett oder dem Spritzen aus. Setzen Sie nicht die Gegenstände, die mit Flüssigkeiten nahe dem Apparat gefüllt werden.

WARNING! To reduce the risk of fire or electrical shock, do not expose this apparatus to rain or moisture.

AVERTISSEMENT ! Pour réduire le risque du feu ou de choc électrique, n'exposez pas cet appareil à la pluie ou à l'humidité.

WARNING! Um die Gefahr des Feuers oder des elektrischen Schlages zu verringern, setzen Sie diesen Apparat nicht Regen oder Feuchtigkeit aus.

IMPORTANT! Using this product in a manner other than outlined in this document voids your warranty. Further, Control4 is NOT liable for any damage incurred with the misuse of this product. See "Limited 2 Year Warranty."

IMPORTANT ! Employer ce produit en quelque sorte autre que décrit dans ce document vide votre garantie. De plus, Control4 n'est pas responsable d'aucun dommage encouru avec l'abus de ce produit. Voyez que « a limité la garantie de 2 ans. »

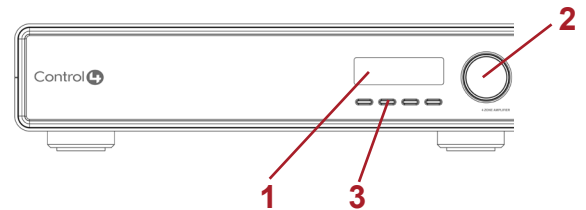
WICHTIG! Das Verwenden dieses Produktes in gewissem Sinne anders als umrissen in diesem Dokument hebt Ihre Garantie auf. Weiter ist Control4 NICHT für irgendeine Beschädigung verantwortlich, die mit der Fehlanwendung dieses Produktes genommen wird. Sehen Sie, daß „begrenzte eine 2 Jahr-Garantie.“

Features and Benefits

- Receives up to four (4) stereo inputs with full audio switching on inputs.
- Outputs four (4) stereo class D amplified channels at 60 W per channel at 8 ohms or at 120 W per channel at 4 ohms (not all channels driven simultaneously).
- Adjustable gain, treble, and bass for each zone.
- Master Volume Control for all outputs.
- Device chassis is two (2) standard rack spaces and rack mountable using three (3) standard rack spaces configuring to EIA 19" rack standards. The optional Control4 Rack Mount Kit (C4-4URMK-B) provides ½ U spacing above and below the chassis. If the Control4 Rack Mount Kit is not used, allow ½ rack space above and below the chassis for ventilation.
- Communicates via Ethernet 10/100 networking.

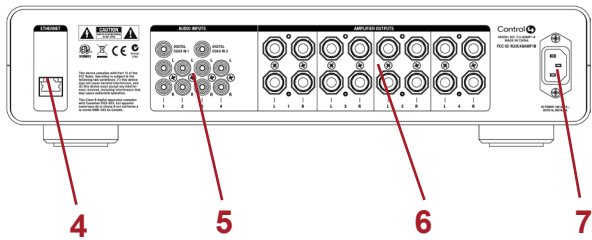
Front and Rear Panel Descriptions

Front Panel



- 1 **Front Display (LCD)**— LCD for displaying or setting 4-Zone Amplifier settings and navigating system menus. Used to view or modify audio source routing and zone settings for gain, bass, and treble. The display also shows zone activity.
- 2 **Select Dial**— Rotate to scroll through list items and options displayed on the LCD. Press to make selections.
- 3 **Buttons**—Provides access to menu options displayed on the LCD.

Back Panel



- 4 **Ethernet Port**—RJ-45 for a 10/100 BaseT Ethernet connection.
- 5 **Audio Inputs 1-4**—RCA jacks for four (4) audio sources. Inputs 1 and 3 can be set up for analog or digital sources. Inputs 2 and 4 are for analog sources only.
- 6 **Amplifier Outputs 1-4**—5-way binding post pair up to four (4) stereo class-D-amplified zones.
- 7 **Power Plug Port**—For use with a standard IEC equipment power cord. Use the supplied power cord or ensure the power cord you are using is at least 18 AWG or larger.

Install the 4-Zone Amplifier

This device operates as part of the Control4 home system which requires physical and logical connections to function as designed.

This section describes how to set up the physical connections required for the Multi Channel Amplifier and all of the devices associated with it. To set up the logical connections required, refer to *Control4 Composer Pro User Guide*.

WARNING! Connecting speaker wires or input cables while the 4-Zone Amplifier is powered, may cause shock and could damage the amplifier. Unplug the power cord before making connections.

AVERTISSEMENT! Les fils se reliant de haut-parleur ou les câbles entrés tandis que l'amplificateur 4-Zone est actionné, peuvent causer le choc et pourraient endommager l'amplificateur. Débranchez le cordon de secteur avant d'établir des rapports.

WARNUNG! Anschließenlautsprecherdrähte oder eingegebene Kabel, während der Verstärker 4-Zone angetrieben wird, können Schlag verursachen und könnten den Verstärker beschädigen. Trennen Sie das Netzanschlusskabel, bevor Sie Beziehungen herstellen.

WARNING! Do not bridge outputs. The outputs on the C4-8AMP1-B cannot be bridged. Do not connect black terminals together or to ground. The black terminals are not at ground potential; connecting them together or to ground can damage the amplifier.

AVERTISSEMENT! Ne jetez pas un pont sur les sorties. Les sorties sur le C4-8AMP1-B ne peuvent pas pont. Ne mettez pas les bornes noires ensemble ou à la terre. Les bornes noires ne sont pas au potentiel au sol ; les mettre ensemble ou à la terre peuvent endommager l'amplificateur.

WARNUNG! Überbrücken Sie nicht Ausgänge. Die Ausgänge auf dem C4-8AMP1-B können nicht überbrückt werden. Schließen Sie schwarze Anschluß nicht zusammen oder an Boden an. Die schwarzen Anschluß sind nicht am Grundpotential; sie Boden zusammen oder an anschließen kann den Verstärker beschädigen.

1. Connect up to four (4) audio source devices (such as a controller, tuners, or CD or tape players) to the audio input jacks.
Note: Inputs 1 and 3 can be set up for analog or digital sources.
2. Connect speakers to the audio output jacks. Tighten the binding posts to ensure a good electrical connection to the speaker wires (even if you are using banana plugs).
3. Use a standard 10/100 Base T Ethernet cable to connect the Ethernet port on the amplifier to your network.
4. Connect the power cord provided to the back of the amplifier and to the power outlet. Once the power cord is connected, the amplifier should power up.

Set Up Logical Connections

You must configure the 4-Zone Amplifier in the Composer project in order to control, navigate, and use the amplifier as designed.

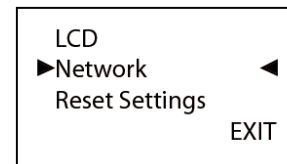
Create logical connections in Composer. For instructions, refer to the *Control4 Composer Pro User Guide*.

Configure Network Settings

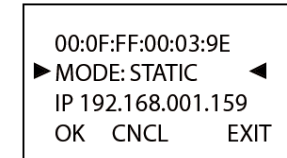
The 4-Zone Amplifier, by default, uses DHCP to obtain a network IP address.

If the local area network does not support DHCP, you can configure the switch to use a Static IP address instead:

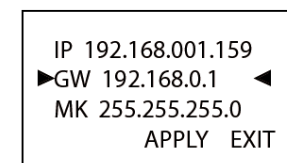
- 1 Press **Config**.
- 2 Using the Select Dial, scroll down to Network and press the **Select Dial** to view the Network menu.



- 3 Press the Select Dial to edit your setting. Rotate the dial to choose Static IP.



- 4 Press OK (or press the Select Dial).
- 5 Edit the IP, GW, and MK fields for the Static IP network. Use the Select Dial to select a line, then press the dial. (Scroll down to see GW and MK.)

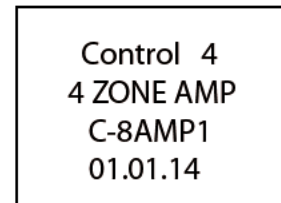


Use the Select Dial to scroll the number up or down and edit as needed, then press the Select Dial to move to the next field within the number.

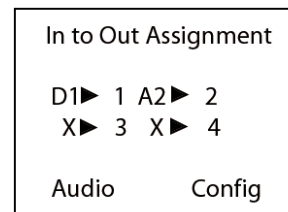
View Output Assignments

When you complete the physical connections and logical connections (in Composer), you can view or change your setup in the 4-Zone Amplifier front display.

When you first power up the 4-zone amplifier, a System Status screen similar to the following one appears momentarily.



The System Status screen is then replaced by the In to Out Assignments screen. The screen shows 4 output zones and any assigned input sources (such as Input 1 as shown in the following screen).



The menu buttons on the front panel provide access to the following screens:

- **Audio:** Displays audio settings and allows some control of inputs, outputs, and tone controls.
- **Config:** Displays current settings and allows for some configuration of the LCD and Network settings and reset to factory defaults.

Note: After leaving the Audio or Config menu and returning to the In to Out Assignments screen, you may need to wait for the screen to load before selecting another menu.

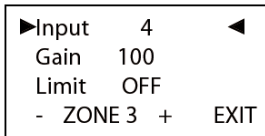
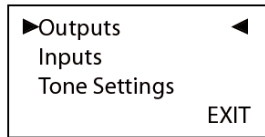
Manage Amplifier Output Zones

View or Change Output Settings

To view or change source settings:

- 1 On the In to Out Assignments screen, press the **Audio** button and select **Outputs**.

The output settings of the default output screen (the last output screen accessed) are displayed.



- **Input (number):** If an input source is assigned, the Input source number is displayed (1-4).
- **Gain (setting):** Supported range: 0 - 100 (-100 to 0 dB).

Note: The gain setting cannot be larger than the volume limit.

- **Limit:** Set a volume limit. Options are 0-100 or off.
- **Exit:** Returns to the In to Out Assignments screen.

- 2 (Conditional) View a different output number. If the output screen you want to view is not displayed, use the - or + button to select a different screen.
- 3 (Optional) Change an output setting:
 - a Using the Select dial, highlight the Input, Gain, Limit, or Limit field and then press the Select dial to enter edit mode.
 - b Turn the **Select** dial or use the **Up** and **Down** buttons to set a new number, and then press the dial to save the setting.
 - **Input:** Off, 1-4
 - **Limit:** Off, 0-100

View Tone Settings

To view tone settings:

- 1 From the Audio screen, press the **Tone Settings** button.
- 2 View the following settings.
 - **Bass Gain:** Supported range: -12 to +12 dB
 - **Treb Gain:** Supported range: -12 to +12 dB
- 3 Press the Select dial to enter edit mode.
- 4 Rotate the dial to change the setting. Press the dial to save the new setting and exit edit mode. To exit without saving, choose Cancel.

View or Change Input Settings

- 1 On the In to Out Assignments screen, press the **Audio** button and select **Inputs**.
- 2 From the Output screen, press the **Inputs** button to display the assigned Input screen (similar to the following screen).

From here you can change the Gain setting and view whether digital is enabled or disabled (inputs 1 and 3 only).

- **Outputs:** To toggle back to the Output screen
- **Exit:** To return to the In to Out Assignments

- 3 (Optional) Change the Gain on an input source to balance unequal source levels by reducing the levels of any louder sources: Use the Select dial to highlight, select, and change this setting. This sets the input attenuation. Supported range is -6 to 0 dB.
- 4 Use the - or + button to switch to a different input zone.
- 5 Press the **Exit** button to return to the In to Out Assignments screen.

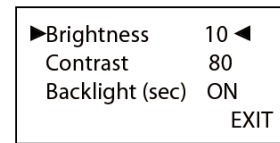
View Network Settings

- 1 On the In to Out Assignments screen, press **Config** button and select **Network**.
- 2 To edit these settings, see "Configure Network Settings."
- 3 Press the **Back** button to return to the In to Out Assignments screen.

Set Display Preferences

To set your viewing preferences for the front display:

- 1 On the In to Out Assignments screen, press the **Config** button and select **LCD**.



- 2 Use the buttons or the Select dial to choose a setting to change. When you press the Select button (or press the dial), you enter edit mode.
- 3 In edit mode, use the buttons or Select dial to change the highlighted setting. Press the **OK** button (or press the dial) to save the change and exit edit mode.
 - **Brightness:** Supported range: 0-100
 - **Contrast:** Supported range: 0-100
 - **Backlight Timeout:** Supported settings are
 - Off (always off)
 - 5 to 90 seconds (default is 60 seconds)
 - On (always on)
- 4 Press the **Exit** button to return to the In to Out Assignments screen.

Options Available in Composer

The following options are available in Composer Pro:

- **Volume curve:** The volume curve default follows the Control4 speaker-point volume curve. The volume curve can be changed to match the V1 curve using Composer.
- **5-band parametric equalizer:** A 5-band parametric equalizer is available in Composer for tighter output control.
- **Inputs Locked:** Locks all Inputs to their corresponding Outputs (1:1, 2:2, 3:3, 4:4).
- **Power Save Enable:** The Amp will go into a power saving stand by mode when not in use

Regulatory Compliance

The 4-Zone Amplifier complies with the standards described in this section for North America and Canada.



IMPORTANT! Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

North America

FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of this device.

Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas causer d'interférences nuisibles et (2) cet appareil doit accepter toute interférence reçue, y compris les interférences qui peuvent causer un mauvais fonctionnement du dispositif.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This product has been tested to the requirements of, and shown to be in compliance with, the following requisite standard:

Industry Canada

This Class B digital apparatus complies with Canada ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Limited 2-Year Warranty

For complete warranty information, including details on consumer legal rights as well as warranty exclusions, visit www.control4.com/warranty.

Recycling

For information on recycling, please go to www.control4.com/recycling.



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