CZA-1300 AMPLIFIER
QUICK START GUIDE

AUDIO ENHANCEMENT +
Est. 1978

Power Indicator   Unit Status   GPIO Status

Power Over Ethernet   RMT Ctrl   XD   Line Out   Discrete Outputs   Speaker Out   AC Voltage Select   AC Power In

USB Port   WPA-70x   Reboot   Line Out Level   Line In   Line In Level   Discrete Inputs   RS-232   Power Switch
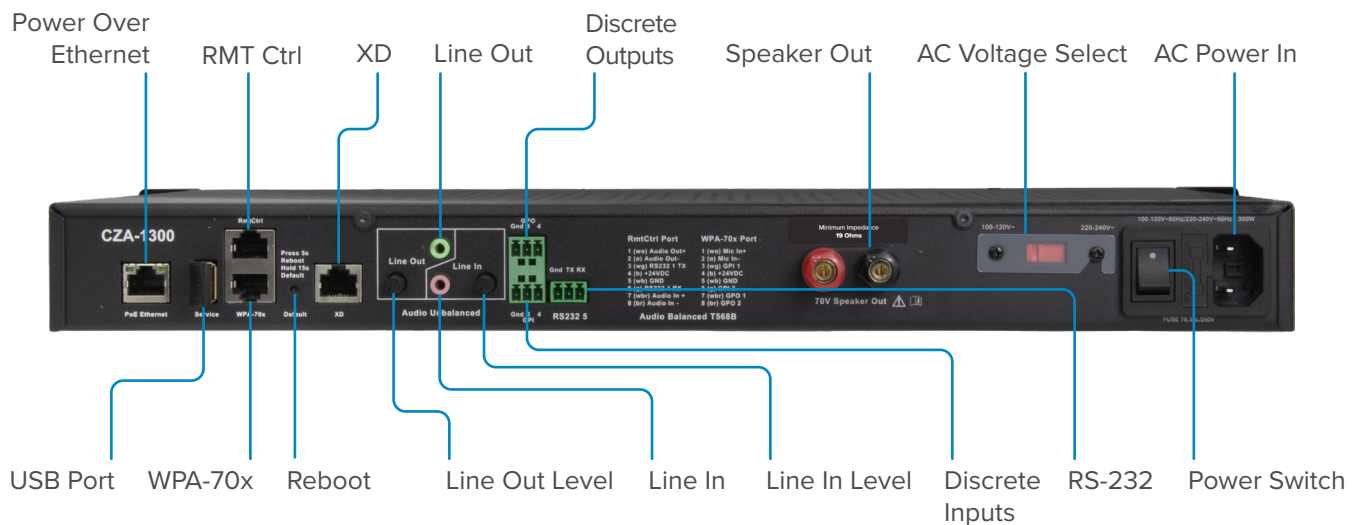
FUNCTIONS

The CZA-1300 Amplifier is a fully integrated 70 V amplifier designed to integrate seamlessly with the EPIC (Education Paging & Intercom Communications) System® platform and provide audio in large areas like cafeterias, gymnasiums, and hallways. This is a network connected amplifier which facilitates paging and emergency notifications as part of the EPIC System. It is easy-to-use, easy-to-install, and has a simple user interface. When used in conjunction with an Uninterruptible Power Supply (UPS), paging will remain operational during emergencies. This unit can be installed as part of the SAFE (Signal Alert For Education) System®. It can also be connected to an XD Receiver and used as an intercom for full duplex audio.

GENERAL PURPOSE IO

- (4) Discrete Inputs

- (4) Discrete Outputs

SERIAL COMMUNICATION

- (2) RS-232 Connections

AUDIO

- (1) Unbalanced Audio In with level adjustment

- (3) Balanced Audio In (Remote Port and WPA Port)

- (1) Unbalanced Audio Out with level adjustment

- (1) Balanced Audio Out (Remote Port)

- (1) Amplified 70 V Speaker Audio Out (Minimum Impedance load 19 Ω)

REMOTE POWER

- (3) 24 V Out (Remote Port, WPA Port and XD Port)

POWER

- Power over Ethernet Port – Used to drive electronics other than the amplifier (PoE 802.11 af)

- AC Power In – Used to power the amplifier

INTERFACES

REMOTE PORTS (RMTCTRL)

- Audio Out (Balanced)

- Audio In (Balanced)

- RS-232

- 24 V DC

WALL PLATE AUDIO (WPA) PORT

- Connects to the WPA

  º Input 1

  º Input 2

  º Output 1

  º Output 2

IO OUTPUT PORT

- Output 3

- Output 4

IO INPUT PORT

- Input 3

- Input 4

XD

- Connects to an XD Receiver

USB PORT

- For service only

LEDS

Power LED:

- Green – Operational

- Yellow – Standby

- Red – PoE Power Only (power cord not connected or physical power switch on rear panel is turned off)

- Blue – AC Power Only

- Off – No Power

Status LED:

Ready

- Red – Booting and getting an IP address

- Green – Connected To An Ethernet Port And Operational

Activity

- Red – Event Is Active

GPIO

- Blue – Output Is Closed

- Yellow – Input Is Closed

- White – Both Input And Output Are Closed

3.5 MM AUDIO

- Line In (Unbalanced)

- Line Out (Unbalanced)

SPEAKER CONNECTION

- 70 V Speaker Out

ETHERNET

- Power Over Ethernet

POWER

- Reset Button

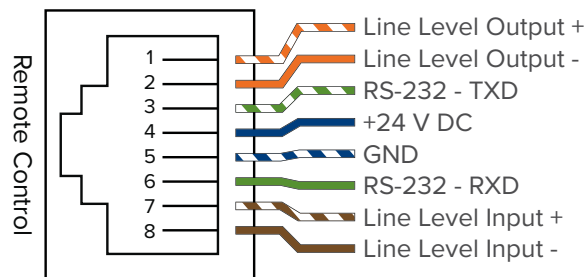- AC Input Power Select

- AC Power Switch

PROCESS

1. Physically install components in the room such as Speakers and/or AV Touch Wall Control.

2. Confirm dongle is connected to USB port.

3. Verify Input power is selected correctly. In the US, set to 100 V – 120 V.

4. Turn the Amplifier on by toggling the power switch.

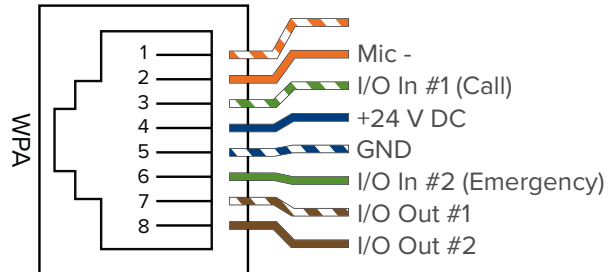5. Start EPIC System, update the firmware, and continue the setup up using the EPIC System software.

EPIC System setup information can be found at AudioEnhancement.com/Downloads, or by clicking the following link: EPIC 2.5 Admin Manual

CONNECTOR DETAILS

RMTCTRL PORT

Remote Control

Pin	Signal
1	Line Level Output +
2	Line Level Output -
3	RS-232 - TXD
4	+24 V DC
5	GND
6	RS-232 - RXD
7	Line Level Input +
8	Line Level Input -

WALL PLATE AUDIO

WPA

Pin	Signal
1	Mic -
2	I/O In #1 (Call)
3	+24 V DC
4	GND
5	
6	I/O In #2 (Emergency)
7	I/O Out #1
8	I/O Out #2

GPO – GENERAL PURPOSE OUTPUT

- Pin 1 – GND

- Pin 2 – GPO 3

- Pin 3 – GPO 4

GPI – GENERAL PURPOSE INPUT

- Pin 1 – GND

- Pin 2 – GPI 3

- Pin 3 – GPI 4

RS-232

- Pin 1 – GND

- Pin 2 – TX

- Pin 3 – RX

CONFIGURATION

1. Start EPIC System.

2. Update the firmware.

3. Continue setup using the EPIC System Software.

TROUBLESHOOTING

REBOOT

Press and hold the *Reboot* button for 5 seconds.

FACTORY RESET PROCEDURE

Press and hold until the *Activity Indicator* flashes green (10 seconds) and then release.

RESCUE MODE

Press and hold until the *Activity Indicator* illuminates red (15 seconds) and then release. Or disconnect PoE power, press and hold the *Reboot* button while applying PoE power.

SIP NOT CONNECTED

Verify that the SIP settings are correct on the device. Try pushing SIP settings from the *Configure* tab on EPIC System again. Pushing settings from the *Devices List* does not push SIP settings.

NO AUDIO

If there is no audio going through the speakers (bells, paging, intercom, teacher microphone), check the audio output to see if there is any audio passing through there. This can be done by connecting a pair of wired headphones to the *Audio Out* port of the CZA-1300 and playing audio through the amplifier. If you hear audio through the headphones, it is most likely not a problem with the CZA-1300 and related to the speakers or speaker wiring.

Please check to see that AC Power is applied and that the *AC Power Switch* is activated. There is also a fuse accessible through the *AC Power In* connector that should be checked.

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