

[AN008]



ADVANCED  
NETWORK DEVICES

## Line-Out Audio Interface

Version 2.0

8/29/2017

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U.S.A

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## Static Electric Warning



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Complete Support Site with User Guides & Help: <http://www.anetdsupport.com/>  
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## OVERVIEW

All AND devices can output line-level audio signals, except the IPSCM unit, which does not offer access to the line-out signal. The output level is  $2V_{pp}$ .

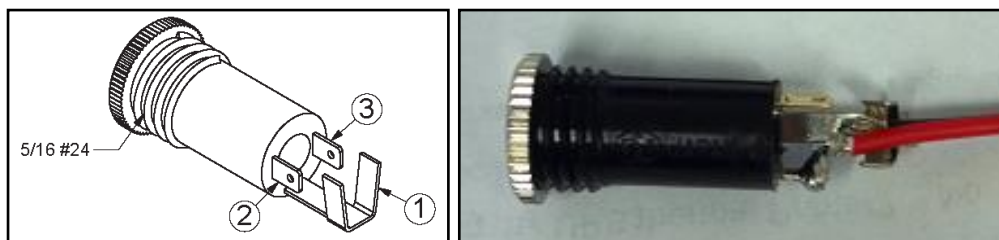
## PROCEDURES

You can use the following two-wire cable (or similar) to establish a physical connection between an AND device and the line-level destination. In the case of a ZONEC2 unit, you can use an RCA cable in place of the custom cable specified below.

Line Out Audio Cable Build of Materials		
Manufacturer/Part #	Qty	Description
Molex 50-57-9002	1	Two-position .100" connector housing
Molex 16-02-1125	2	Gold finished female terminal connectors
Alpha Wire 1172C	1	22 AWG, 2 conductor, PVC insulated stranded wire, or similar
CUI SR-3501 or CUI SP-3501	1	3.5mm female jack or male plug connector

### 1. Cable Assembly

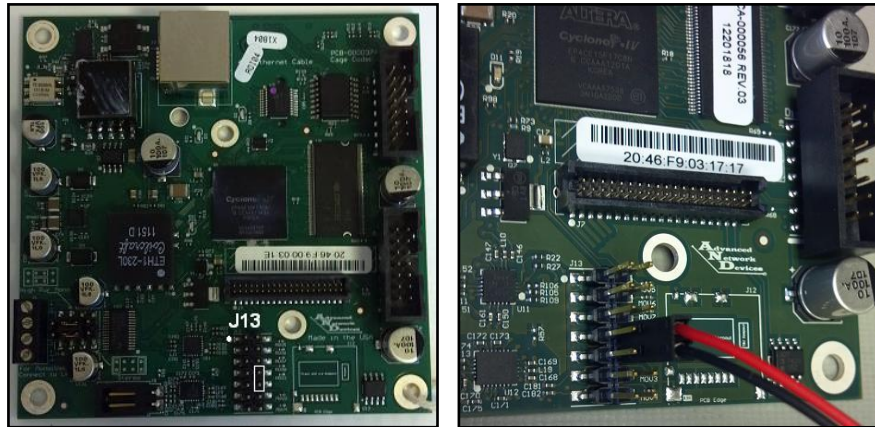
- a. Cut the appropriate length of cable (Alpha Wire 1172C) for the installation.
- b. Strip one end of the cable and crimp a female terminal connector (Molex 16-02-1125) to each wire, using a Molex crimper # 64016-0201.
- c. Slide the two female connectors into the connector housing (Molex 50-57-9002). The connector will snap into place when it is inserted properly.
- d. Strip the other end of the cable and attach the red wire to terminal 2 (left channel audio) of the female jack and black wire to terminal 1 (ground) of the jack (CUI SR-3501). See Figures 1 and 2.
- e. If using the male plug (CUI SP-3501), attach the red wire to the tip terminal (left channel) and the black wire to ground terminal.



**Figure 1 and 2 – 3.5mm female jack connections**

## 2. AND Device Connections

Plug the two position .100" connector housing end of the cable onto pins 8 and 10 of the J13 header on the bottom edge of the square controller board in the device, as shown in Figures 3 and 4. The black wire (ground) goes to pin 10, and the red wire to pin 8.



**Figures 3 and 4 – Connection to controller board**

## 3. External Audio Destination

Connect the line in of the audio destination into the 3.5 mm female jack or male plug cable assembly. For ZONEC2, use an RCA cable, or 2-wire pair of speaker wire.

## 4. Testing and Adjustment

- a. Power on the AND device and the external audio destination.
- b. Set the volume output of the audio destination to 75% of the max volume.
- c. Configure the AND device volume. If using the device's web page, select **Device Settings** → **Audio**. Set *Speaker Volume* to 8.0. For a configuration file:

```
<SIPConfig
  volume="8.0"
/>
```

- d. Reboot the speaker.
- e. Send audio to the AND device, and verify the audio broadcasts at reasonable levels at the destination output. Adjust the volume settings accordingly.

Web Page Device Settings	
Line-Out Parameters	Description
Speaker Volume	Sets the volume of the speaker, as well as the line-out audio signal. <i>Range: 0.0 - 10.0</i>

Configuration File Settings (Using SIPConfig Tag)		
Configuration File Parameter	Correlation to web page settings	Value Range
volume	Speaker Volume	0.0 - 10.0