



**ADVANCED**  
NETWORK DEVICES

## External Speaker Interface

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3820 NORTH VENTURA DR.

ARLINGTON HEIGHTS, IL 60004

U.S.A

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## Static Electric Warning



## TROUBLESHOOTING AND ADDITIONAL RESOURCES

User Support: <https://www.anetd.com/user-support/>  
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## OVERVIEW

Most AND display devices\* include a second 8-ohm speaker output.

Note that the existing audio power distributes between the two speakers in the stereo mode; it does not double the output power of the device. The second 8-ohm speaker should be rated at 10W or greater continuous power, with a sensitivity around 95dB or better.

### Second Speaker Wiring Distance Recommendations

#20 (AWG) wire      25 feet max

#18 (AWG) wire      35 feet max

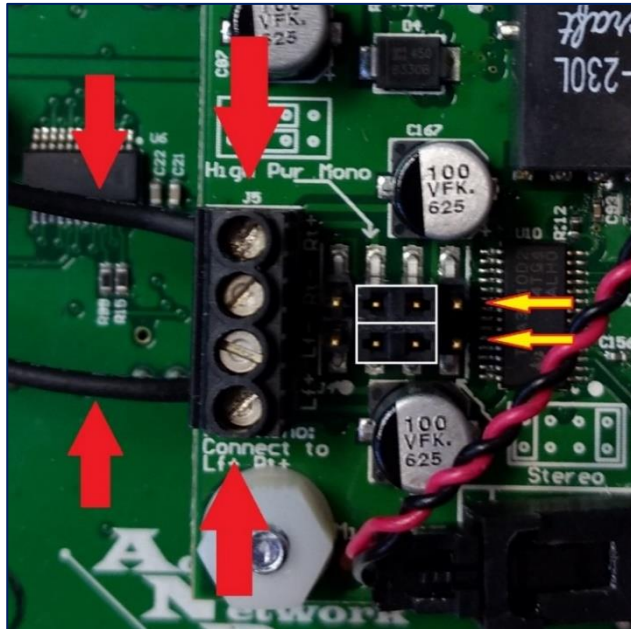
#16 (AWG) wire      50 feet max

**Warning: You must disconnect power to the device before making any changes.**

*\*The IPSWS-SM-O and ZONEC2 units do not support a second speaker. Additionally, the IPCDS-RWB-U and IPSIGNL-RWB include two speakers from the factory, and therefore have no additional speaker outputs.*

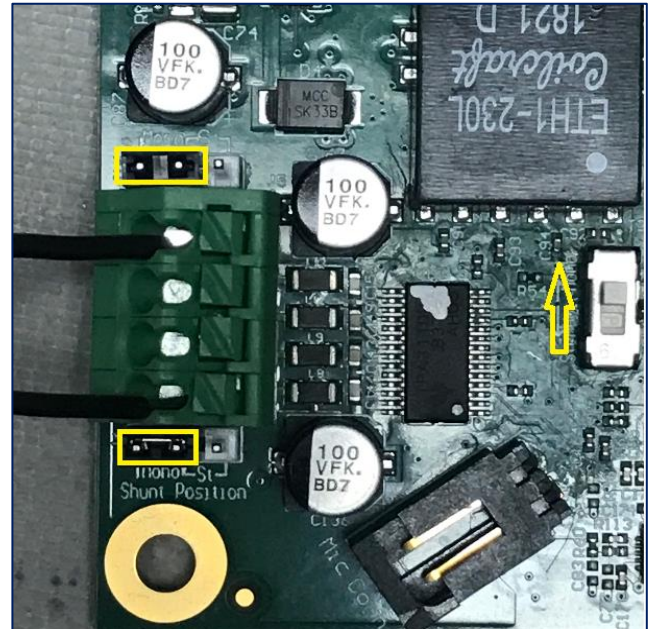
## SINGLE SPEAKER CONNECTION ON LED DISPLAY DEVICES

By default, the included speaker connects on the main controller board as a mono output.



PCA-000056-10 Board Mono Connections

- Speaker wires attached to the outside terminals (1 and 4) of J5
- Header Jumpers (outlined in white) placed horizontal and on the center pins (indicated by yellow arrows)



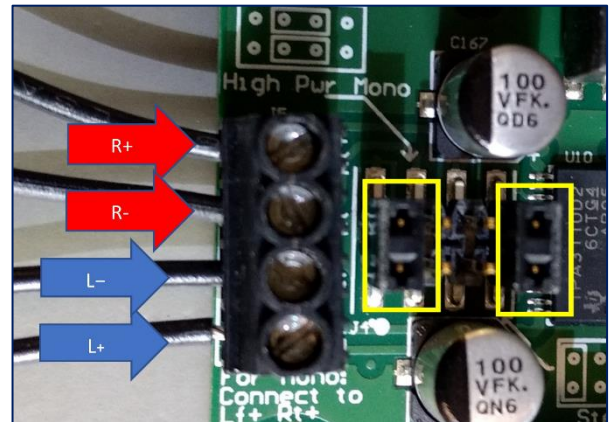
PCA-000056-11 Board Mono Connections

- Speaker wires attached to the outside terminals (1 and 4) of J5
- Header Jumpers (outlined in yellow) on the left-most pins of J4 and J16
- Verify switch SW1 set in the upper position (indicated by yellow arrow)

## TWO SPEAKER CONNECTION ON LED DISPLAY DEVICE (PCA-000056-10)

To use a second speaker with the PCA-000056-10 card

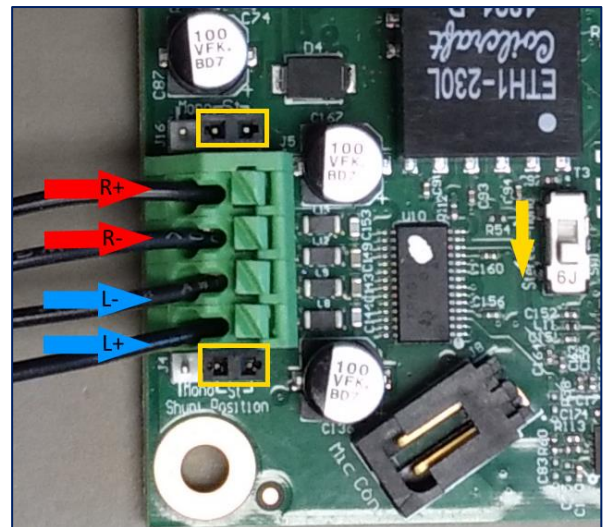
- Attach speaker wires as pairs to top two terminals (1 and 2 with red arrows) and bottom two terminals (3 and 4 with blue arrows) of J5
- Place header jumpers vertical and on outside pins (outlined in yellow)



## TWO SPEAKER CONNECTION ON LED DISPLAY DEVICE (PCA-000056-11)

To use a second speaker with the PCA-000056-11 card

- Attach speaker wires as pairs to top two terminals (1 and 2 with red arrows) and bottom two terminals (3 and 4 with blue arrows)
- Place the header jumpers on the right most pins of J4 and J16 (as indicated by the yellow boxes)
- Verify switch SW1 is in the lower position (shown by the yellow arrow)

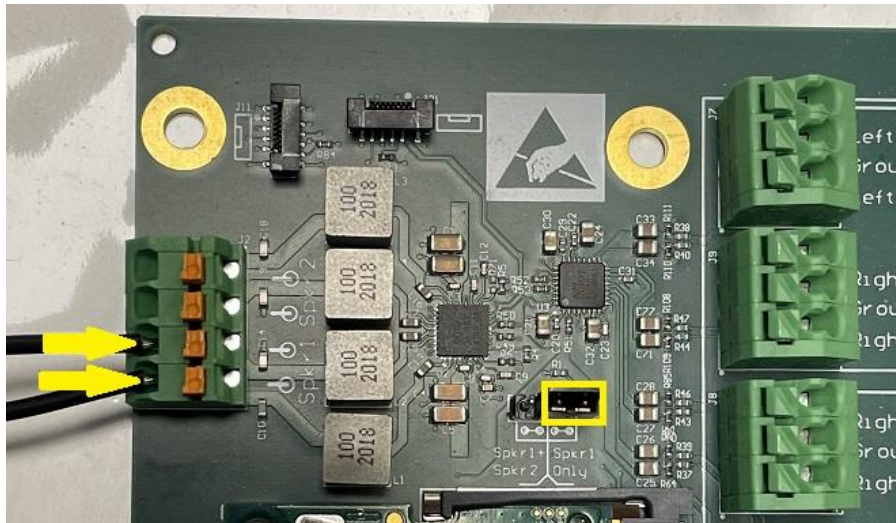




## SINGLE SPEAKER CONNECTION FOR LCD DISPLAY DEVICES

By default, the included speaker connects to the controller board in an LCD device as a mono output.

- Speaker wire pair is connected to the bottom two terminals of J2 as shown by yellow arrows.
- Header jumper (outlined in yellow) is placed on the two rightmost pins of J23 as shown.



## TWO SPEAKER CONNECTION FOR LCD DISPLAY DEVICES

To use a second speaker with an LCD display device:

- Attach the second speaker wire pair to the top two terminals of J2 as shown by blue arrows.
- Move the header jumper (outlined in yellow) to the two leftmost pins of J23 as shown.

