

# PoE+ Amplifier Series

## Dante-AES67 solution

The PoE+ Amplifier Series leverages the higher power 802.3at PoE+ standard (30W port power) to power two amplifier models, the AV8-2-LZ (8W x 2 @ 4/8Ω) and the CVA16-1-CV (16W x 1 @ 70V/100V). These compact amplifiers are designed to be single cable solutions for smaller zones where local power may or may not be available. This amplifier series leverages the ubiquitous nature of existing CAT 5e/6 cable in zones and also the inexpensive process of pulling new cable to zones. It creates an opportunity to reduce labor costs with a single, reliable, twisted pair cable that carries power and data where you need it. Simply plug the PoE+ CAT 5e/6 cable into the amplifier, wire the speakers and route audio and repeat for the next zone. The plenum rating and compact size, allow this amplifier series to be placed in the air handling space, closets, the equipment rack or any other convenient space. The confluence of readily available and inexpensive CAT 5e/6 cabling, Dante networked audio and quick installation, make this amplifier series an essential problem solver.



CVA16-1-CV

**STEWART AUDIO**  
The Difference is Hear

## PoE+ Series

AV8-2-LZ-D	8W x 2 @ 4/8Ω
CVA16-1-CV-D	16W x 1 @ 70V/100V

### Features:

- Single cable Dante/AES67 solution
- 4/8Ω and 70V/100V models
- Plenum rated
- Dante™ / AES67 network interface
- Compact flanged enclosure for easy mounting under tables, closets & plenum

### Applications:

- Dante/AES67 audio networks
- Hospitality Installations
- Classrooms
- Conference Rooms
- Medical applications
- Small zone sound reinforcement

# PoE+ Amplifier Series

AV8-2-LZ  
CVA16-1-CV

8W x 2 @ 4/8Ω  
16W x 1 @ 70V/100V

## Output Power\*

AV8-2-LZ -----	■ 8W <sub>RMS</sub> x 2 @ 4/8Ω
CVA16-1-CV -----	■ 16W <sub>RMS</sub> x 1 @ 70V/100V

## Frequency Response

AV8-2-LZ (+/-1dB) -----	■ 20 Hz - 20 kHz (4/8Ω),
CVA16-1-CV (+0dB, -3dB) -----	■ 100 Hz - 20 kHz (70V/100V)

## THD+N @ full frequency and power -----

■ <0.3%

## THD+N @ 1kHz and full power -----

■ <0.05%

## Signal-to-Noise Ratio

AV8-2-LZ -----	■ >90dB
CVA16-1-CV -----	■ >88dB

## Channel-to-Channel Separation (Crosstalk) -----

■ >85dB

## Noise floor

AV8-2-LZ -----	■ -110dBV
CVA16-1-CV -----	■ -95dBV

## Amplifier Class -----

■ D

## Input Connector (Dante/AES67 Audio & DC) -----

■ RJ-45

## Output Connectors -----

■ 5mm Euro Block

## LED Indicators (on RJ-45 connector) -----

■ Green – Connectivity, Flashing Amber - Activity

## Power Supply (via RJ-45 connector) -----

■ 802.3at compliant PoE+ Switch or mid-span injector\*  
(30W port power)

## Construction -----

■ Aluminum Enclosure

## Mounting -----

■ Flange Mount Enclosure

## Cooling -----

■ Convection-Cooling (No Fans)

## Dimensions (height, width, depth) -----

■ 1.2"(31mm) H x 6.7"(170mm) W x 4.31"(110mm) D

## Weight -----

■ 0.6 lbs (0.3kg) AV8-2-LZ, 1.0 lbs (0.45 kg) CVA16-1-CV

## Certifications -----

■ Plenum UL 2043, FCC, CE

## Warranty -----

■ 3 years parts and labor

\*Functions with 802.3af switches with lower power output

## Single Cable Solution

CAT5e/6 - PoE+ power & Dante



- No long speaker cable runs
- Labor savings
- No local power outlet required
- Plenum rated
- Convenient

**STEWART AUDIO**  
The Difference is Hear

14335 Cuesta Court Ste C  
Sonora CA 95370  
TEL: 209.588.8111  
[www.stewartaudio.com](http://www.stewartaudio.com)