

PoE++ Amplifier Series

Dante-AES67 solution

The PoE++ Amplifier Series leverages the higher power 802.3bt PoE++ standard (60W port power) to power two amplifier models, the AV20-2-LZ (20W x 2 @ 4/8Ω) and the CVA40-1-CV (40W x 1 @ 70V/100V). These compact amplifiers are designed to be single cable solutions for small to medium sized 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 audio 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. Readily available and inexpensive CAT 5e/6 cabling, networked audio and quick installation, make this amplifier series an essential problem solver.



AV20-2-LZ

STEWART AUDIO
The Difference is Hear

PoE++ Series

AV20-2-LZ-D	20W x 2 @ 4/8Ω
CVA40-1-CV-D	40W x 1 @ 70V/100V

Features:

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

Applications:

- Dante audio networks
- Hospitality Installations
- Classrooms
- Conference Rooms
- Healthcare
- Medium+ zone sound reinforcement

PoE++ Amplifier Series

AV20-2-LZ
CVA40-1-CV

20W x 2 @ 4/8Ω
40W x 1 @ 70V/100V

Output Power*

- AV20-2-LZ ----- ■ 20W_{RMS} x 2 @ 4/8Ω
- CVA40-1-CV ----- ■ 40W_{RMS} x 1 @ 70V/100V

Frequency Response

- AV20-2-LZ (+/-1dB) ----- ■ 20 Hz - 20 kHz (4/8Ω),
- CVA40-1-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

- AV20-2-LZ ----- ■ >90dB
- CVA40-1-CV ----- ■ >88dB

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

- >85dB

Noise floor

- AV20-2-LZ ----- ■ -110dBV
- CVA40-1-CV ----- ■ -95dBV

Amplifier Class -----

- D

Input Connector (Dante 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) -----

- 802.3bt compliant PoE++ Switch, mid-span injector* (60W port power) or Cisco UPOE switches

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) AV20-2-LZ, 1.0 lbs (0.45 kg) CVA40-1-CV

Certifications -----

- Plenum UL 2043, FCC, CE

Warranty -----

- 3 years parts and labor

*Functions with 802.3af/at 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