

DATA SHEET

TESIRA® AMP-450P

4-CHANNEL PoE+ CONFERENCING AMPLIFIER



The AMP-450P is a four-channel PoE+ (IEEE 802.3at Class 4, 30W) conferencing amplifier for use in Tesira® systems. The output channels are software configurable, including selectable power versus channel count. PoE+ power allows the AMP-450P to be placed wherever you need it. Suitable for air handling spaces, the amplifier can be located close to ceiling speakers if desired. The AMP-450P includes an internal limiter, and is capable of providing 3 watts of continuous power to all four channels. The Tesira AMP-450P is also capable of operating in a burst mode to handle peak signals, providing up to 50 watts (4Ω load) or 30 watts (8Ω load) per channel. The amplifier serves as a dedicated endpoint in a Tesira system, making installations easier to design, support, and maintain. The AMP-450P is ideal for TesiraFORTÉ®-equipped conference rooms or other applications where sound reinforcement is needed.

FEATURES

- Four channels; 3 watts of continuous power per channel
- Burst mode to handle peak signals in accordance with ANSI/CTA-2006-B; supports up to 50 watts (4Ω load) or 30 watts (8Ω load) per channel
- Powered by PoE+ (IEEE 802.3at Class 4, 30W)
- Class D amplifier topology
- Fanless operation
- Includes internal limiter function
- Software-selectable power versus channel count
- Evaluated to the requirements of UL 2043 and is suitable for use in air handling spaces
- LED indicators for power and amplifier status
- Configurable via Tesira software
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' five-year warranty

ARCHITECTS & ENGINEERS SPECIFICATION

The PoE+ conferencing amplifier shall be designed exclusively for use with Biamp® Tesira® systems. The PoE+ conferencing amplifier shall provide control data and digital audio over AVB via an RJ-45 connector. The PoE+ conferencing amplifier shall provide four software-configurable output channels of 3 watts of continuous power per channel into a 4-ohm load and an 8-ohm load. The PoE+ conferencing amplifier shall also provide burst power of 50 watts per channel into a 4-ohm load, and 30 watts per channel into an 8-ohm load in accordance with ANSI/CTA-2006-B. Burst mode will operate in accordance with U.S. Patent 10404218. The PoE+ conferencing amplifier shall be powered by PoE+ (IEEE 802.3at Class 4) and shall be suitable for use in air handling spaces in accordance with UL 2043. The signal processing of the PoE+ conferencing amplifier shall be configurable via the Tesira design software including, but not limited to: volume control, filters, compressor/limiting, delay, speaker equalization and output sensitivity. The PoE+ conferencing amplifier shall be CE marked, UL listed, and shall be compliant with the RoHS directive. Warranty shall be five years. The PoE+ conferencing amplifier shall be Tesira AMP-450P.

TESIRA AMP-450P SPECIFICATIONS

| | | | |
|---|---|----------------------------|---|
| Network Connection: | RJ-45 with Ethernet cable (Cat 5e and above) | Power: | PoE+ (IEEE 802.3at Class 4 , 30W) |
| Number of Channels: | 4 | Indicators: | Power Indicator (Green/Yellow/Red LED) Amp Status Indicator (Green/Yellow/Red LED) |
| Connectors: | 4-pin 5.08 mm Phoenix connectors | Overall Dimensions: | |
| Amplifier Topology: | Class D | Height: | 1.2 inches (30mm) |
| Burst Power Output (per ANSI/CTA-2006-B @ 1kHz): | | Width: | 7.7 inches (195mm) |
| 4Ω (per channel): | 50W | Depth: | 4.7 inches (120mm) |
| 8Ω (per channel): | 30W | Weight: | 1.5 lbs (0.7 kg) |
| Continuous Power Output: | | Environmental: | |
| Single Channel Driven (4Ω, 8Ω): | 15W | Ambient Operating | |
| Dual Channel Driven, (4Ω, 8Ω): | 7W | Temperature Range: | 32 - 104° F (0 - 40° C) |
| Four Channel Driven, (4Ω, 8Ω): | 3W | Humidity: | 0-95% relative humidity (non-condensing) |
| THD+N (20Hz-20kHz, at continuous power): | < 0.3% | Altitude: | 0-10,000 ft (0-3000m) MSL |
| Frequency Response (20Hz-20kHz): | ± 1dB | Compliance: | FCC Part 15B (USA) UL and C-UL listed (USA and Canada) CE Marked (Europe) KCC (Korea) RoHS Directive (Europe) |
| Dynamic Range (20Hz-20kHz BW): | > 90dB | | Evaluated to the requirements of UL 2043 and is suitable for use in air handling spaces |
| Minimum Operational Load: | 4Ω | | |
| Intermodulation distortion (SMPTE): | <0.3% | | |
| Cross Talk (channel to channel @ 1kHz): | < -90dB | | |
| Cooling: | Convection | | |

TESIRA AMP-450P BACK PANEL



OPTIONAL ACCESSORIES



BPAK
Backpack adapter kit



Seismic Cable Adapter
Cable adapter for
PoE amp plenum boxes



TB-1
Tile bridge for
PoE amp plenum boxes



Plenum Box 12x12
Chicago compliant plenum box



C5E-10-P, C5E-25-P
10ft and 25ft pre-terminated
plenum rated Cat 5e cables

Biamp and Tesira are either trademarks or registered trademarks of Biamp Systems, LLC in the United States and other countries. Other product names referenced may be trademarks or registered marks of their respective owners and Biamp Systems is not affiliated with or sponsored by these companies.