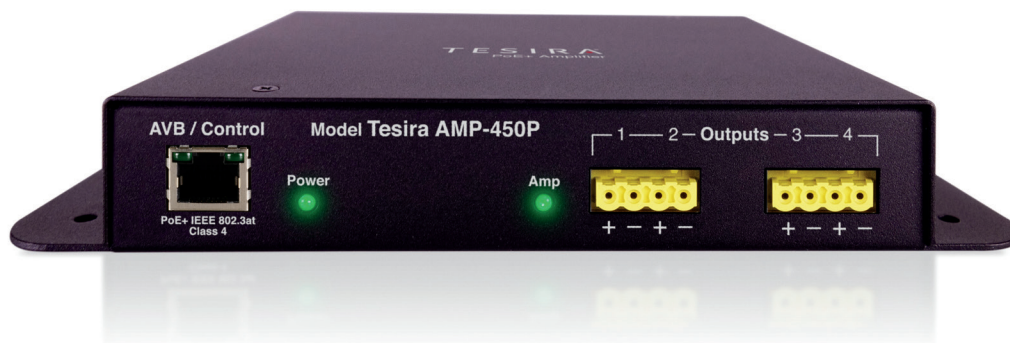


DATA SHEET

TESIRA® AMP-450P

4-CHANNEL POE+ CONFERENCING AMPLIFIER



The AMP-450P is a four-channel PoE+ 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
- PoE+ powered
- 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+ amplifier shall be designed exclusively for use with Biamp® Tesira® systems. The PoE+ amplifier shall provide control data and digital audio over AVB via an RJ-45 connector. The PoE+ 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+ 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. The PoE+ amplifier shall be powered by Power-over-Ethernet (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+ 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+ amplifier shall be CE marked, UL listed, and shall be compliant with the RoHS directive. Warranty shall be five years. The PoE+ amplifier shall be Tesira AMP-450P.

TESIRA AMP-450P SPECIFICATIONS

Network Connection:	RJ-45 with Ethernet cable (Cat 5e and above)	Power:	IEEE 802.3at Class 4
Number of Channels:	4	Indicators:	Power Indicator (Green/Red LED) Amp Status Indicator (Green/Red LED)
Amplifier Topology:	Class D	Overall Dimensions:	
Burst Power Output (ANSI/CTA-2006-B):		Height:	1.2 inches (30mm)
4Ω (per channel):	50W	Width:	7.7 inches (195mm)
8Ω (per channel):	30W	Depth:	4.7 inches (120mm)
Continuous Power Output:		Weight:	TBD
Single Channel Driven (4Ω, 8Ω):	15W	Environmental:	
Dual Channel Driven, (4Ω, 8Ω):	5W	Ambient Operating 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:	
Dynamic Range (20Hz-20kHz):	TBD		FCC Part 15B (USA)
Minimum Operational Load:	4Ω		UL and C-UL listed (USA and Canada)
Intermodulation distortion (SMPTE):	<0.3%		CE Marked (Europe)
Cross Talk (channel to channel @ 1kHz):	<-90dB		RoHS Directive (Europe)
Cooling:	Convection		Evaluated to the requirements of UL 2043 and is suitable for use in air handling spaces

TESIRA AMP-450P BACK PANEL

