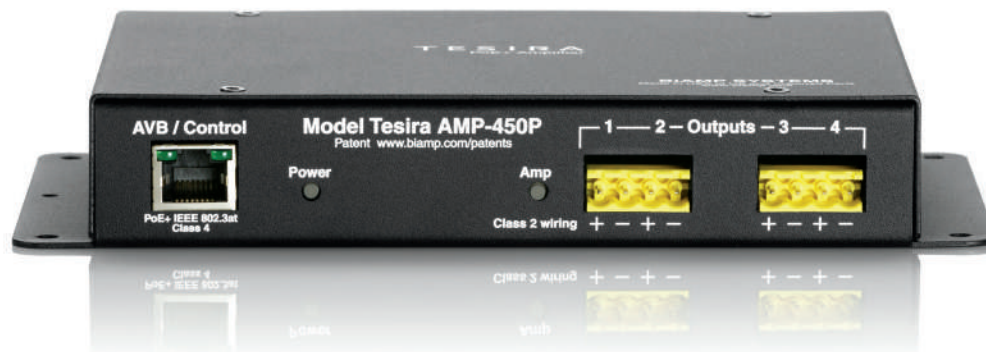


# DATA SHEET

## TESIRA® AMP-450P

### 4-CHANNEL POE+ CONFERENCE 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. 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

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

## TESIRA AMP-450P BACK PANEL

