DATA SHEET TESIRA® AMP-450BP 4-CHANNEL POE+ CONFERENCING AMPLIFIER



The AMP-450BP is a four-channel PoE+ (IEEE 802.3at Class 4, 30W) conferencing amplifier for use in Tesira® systems. Suitable for air handling spaces, the amplifier can even be mounted directly to the back of a desono[™] C-IC6 loudspeaker, minimizing the cabling requirements. Each AMP-450BP comes with an optional mechanical enclosure to protect electrical connections and comply with typical code requirements for above-ceiling installations. The AMP-450BP includes an internal limiter, and is capable of providing 3 watts of continuous power to all four channels. The Tesira AMP-450BP 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 output channels are software configurable, including selectable power versus channel count. The amplifier serves as a dedicated endpoint in a Tesira System, making installations easier to design, support, and maintain. The AMP-450BP 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 PoE+ conferencing amplifier shall be capable of being attached directly to the back of a desono™ C-IC6 ceiling speaker. 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-450BP.

TESIRA AMP-450BP SPECIFICATIONS

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

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