

# DATA SHEET

## TESIRA® AMP-8175R

### 8-CHANNEL, 175W AMPLIFIER



Tesira® AMP-8175R is an AVB/TSN enabled, digital networked, eight-channel amplifier capable of delivering 175 watts per channel. The AMP-8175R functions as an integrated part of a Tesira audio system that is configured through the Tesira configuration software. The front panel OLED display allows for adjustments such as channel mute or all mute and provides feedback on overall status and channel performance. The digital amplifier features impedance monitoring, as well as dual AVB/TSN connections for network redundancy. Two optional rear panel input slots can be used for analog failover or as an expander utilizing Tesira EX-MOD cards. The AMP-8175R is best suited for training rooms, lecture halls, performing arts, houses of worship or other applications where sound distribution or reinforcement is needed.

#### BENEFITS

- Receives an audio signal from anywhere on the Tesira system
- Optional expander slot can be used for analog failover or as an expander
- Optional analog failover allows signal flow even if the the digital audio stream is interrupted
- Dual ports for network redundancy

#### FEATURES

- Eight channels; 175W per channel
- Impedance monitoring
- Dual AVB ports
- Bridgeable channels
- Optional I/O expander card slot
- Optional analog failover
- Front panel OLED display with capacitive touch navigation
- Supports port authentication via IEEE 802.1X
- Configurable via Tesira software
- Front panel control of individual and chassis-wide mutes/levels
- Rack mountable (2RU)
- CE marked, UL listed, and RoHS compliant
- Covered by Biamp Systems' five-year warranty

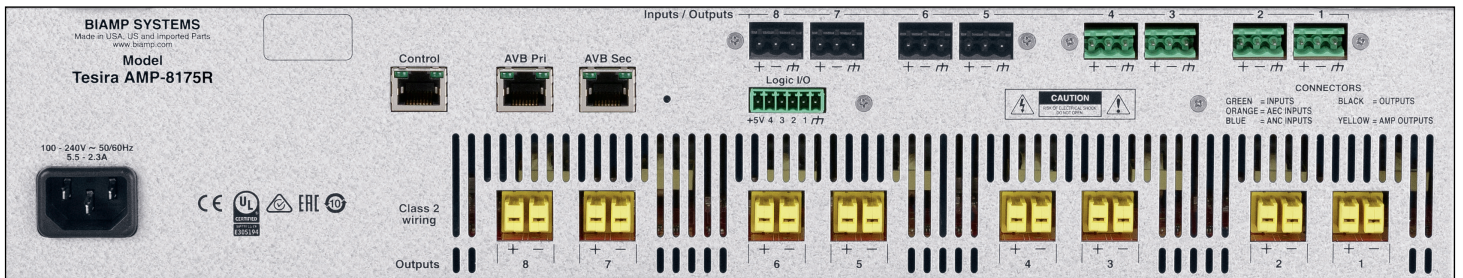
## ARCHITECTS & ENGINEERS SPECIFICATION

The digital amplifier shall be designed exclusively for use with Tesira® systems. The digital amplifier shall support AVB digital audio with redundant network connection on RJ-45 connectors. The digital amplifier shall provide 8 output channels rated for 175W each of maximum power into an 8-ohm load. The digital amplifier shall include a slot for installation of 4-channel analog audio card for use as analog failover or as analog inputs and outputs to the Tesira network. The digital amplifier shall be equipped with an RJ-45 Ethernet port for control connection to third party control systems and configuration. The digital amplifier shall support port authentication via IEEE 802.1X. The digital amplifier shall provide front panel LED identification of device power, status, alarm, activity, and system-wide alarms. The digital amplifier shall provide front panel OLED display for device information. The digital amplifier shall provide capacitive touch buttons for the navigation of menus in the OLED display and control of mute states and individual channel levels. The digital amplifier shall provide multicolor LED identification of signal, faults, analog failover, and mute. The digital amplifier shall be rack mountable and provide monitoring information to the DSP system including warnings and faults. The digital amplifier shall be CE marked, UL listed and shall be compliant with the RoHS directive. Warranty shall be 5 years. The digital amplifier shall be Tesira AMP-8175R.

## TESIRA AMP-8175R SPECIFICATIONS

<b>Number of Channels:</b>	8	<b>Dual AVB/TSN Input:</b>	RJ-45 (CAT-5 or higher) inputs; primary and secondary
<b>Maximum Rated Output:</b>		<b>Optional Analog Cards:</b>	Tesira EX-MOD cards: EIC-4, EIOC-4, EOC-4
<b>Single Channel, 4Ω, 8Ω:</b>	175W		
<b>Bridged, 8Ω:</b>	350W	<b>Environmental:</b>	
<b>Minimum Operational Load:</b>	2Ω	<b>Ambient Operating Temperature Range:</b>	32 - 104° F (0 - 40° C)
<b>Frequency Response (20Hz-20kHz):</b>	± 1dB	<b>Humidity:</b>	0-95% relative humidity (non-condensing)
<b>THD+N (20Hz-20kHz, @ rated power):</b>	< 0.3%	<b>Altitude:</b>	0-10,000 ft (0-3000m) MSL
<b>Dynamic Range (20Hz-20kHz):</b>	> 100dB	<b>Compliance:</b>	
<b>Balanced Input Impedance (Analog Failover Inputs):</b>	8 kΩ		FCC Part 15B (USA)
<b>Current Draw (100-240VAC 50/60Hz):</b>	5.5-2.3A		CE Marked (Europe)
<b>Cooling:</b>	Variable speed fan		UL and C-UL listed (USA and Canada)
<b>Overall Dimensions:</b>			RCM (Australia)
<b>Height:</b>	3.5 inches (89mm)		EAC (Eurasian Customs Union)
<b>Width:</b>	19 inches (483mm)		CCC (China)
<b>Depth:</b>	17.4 inches (441mm)		KCC (Korea)
<b>Weight:</b>	20.6 lbs (9.3 kg)		RoHS Directive (Europe)

## TESIRA AMP-8175R BACK PANEL



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