

DATA SHEET

TESIRA® AMP-4175R

4-CHANNEL, 175W AMPLIFIER



The Tesira® AMP-4175R is an AVB/TSN enabled, digital networked, four-channel amplifier delivering 175 watts per channel. The AMP-4175R functions as an integrated part of a Tesira audio system that is configured through the Tesira configuration software. The AMP-4175R amplifier serves as a dedicated endpoint making installations easier to design, support and maintain. 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 AMP-4175R features impedance monitoring, as well as dual AVB/TSN connections for network redundancy. An optional rear panel input slot can be used for analog failover or as an expander utilizing Tesira EX-MOD cards. The AMP-4175R is best suited for training rooms, lecture halls, performing arts, houses of worship or other applications where sound distribution or reinforcement is needed.

BENEFITS

- Functions as an integrated part of a Tesira networked media system
- Receives an audio signal from anywhere on the AVB/TSN network
- Optional expander slot can be used for analog failover or as an expander
- Optional analog failover allows signal flow even if there's a loss of the AVB/TSN audio stream
- Dual AVB ports for network redundancy

FEATURES

- Four channels; 175W per channel
- Impedance monitoring
- Configurable via Tesira software
- Dual AVB ports
- Bridgeable channels
- Optional analog failover
- Optional I/O expander card slot
- Front panel OLED display with capacitive touch navigation
- Front panel control of individual and chassis-wide mutes/levels (defeatable)
- 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 amplifier shall support AVB digital audio with redundant network connection on RJ-45 connectors. The amplifier shall provide 4 output channels rated for 175W each of maximum power into an 8-ohm load. The amplifier shall include a slot for installation of 4-channel analog audio card for use as analog failover sources or as analog inputs and outputs to the Tesira network. The amplifier shall be equipped with an RJ-45 Ethernet port for control connection to third party control systems and configuration. The amplifier shall provide front panel LED identification of amplifier power, status, alarm, activity, and system-wide alarms. The amplifier shall provide front panel OLED display for amplifier information. The amplifier shall provide capacitive touch buttons for the navigation of menus in the OLED display and control of amplifier-wide mute states and individual channel levels. The amplifier shall provide multicolor LED identification of signal, faults, analog failover, and mute. The amplifier shall provide individual capacitive touch buttons for mute and un-mute of each amplifier channel. The amplifier shall be rack mountable (2RU) and provide monitoring information to the DSP system including warnings and faults. The amplifier shall be CE marked, UL listed and shall be compliant with the RoHS directive. Warranty shall be 5 years. The digital network amplifier shall be Tesira AMP-4175R.

SPECIFICATIONS

Number of Channels:	4	Cooling:	Variable speed fan
Maximum Rated Output, Single Channel Driven, 4Ω, 8Ω:	175W	AVB/TSN Input:	RJ-45 (CAT-5 or higher) inputs; primary and secondary
Minimum Operational Load:	2Ω	Optional Analog Failover:	Tesira EX-MOD cards: EOC-4, EIC-4, EIOC-4, EEC-4
THD + N (20Hz-20kHz, @ rated power):	<0.3%	Environmental:	
Frequency Response (20Hz-20kHz):	± 1dB	Ambient Operating Temperature Range:	18-108° F (-8 - 42° C)
Dynamic Range:	>100dB 10Hz - 20kHz	Humidity:	0 - 95% non-condensing
Balanced Input Impedance (Analog Failover Inputs):	8 kΩ	Altitude:	0-10,000 Feet (0-3000 Meters)
Power Consumption (100-240VAC 50/60Hz):	TBD	Compliance:	UL and C-UL listed (USA and Canada) FCC Part 15B (USA) CE Marked (Europe) RCM (Australia) EAC (Eurasian Customs Union) RoHS Directive (Europe) CCC (China) KCC (Korea)
Overall Dimensions:			
Height:	3.5 inches (89mm)		
Width:	19 inches (483mm)		
Depth:	17.4 inches (441mm)		
Weight:	20.6 lbs (9.3 kg)		

TESIRA AMP-4175R BACK PANEL

