

## RTI-AMP-8-125 - 8 Channel 125W 8Ω, 4 Channel 70/100V 250W DSP Matrix Amplifier

The AMP-8-125 power amplifier delivers configurable and reliable high-performance audio power amplification for commercial and hospitality applications requiring a mix of low-impedance and high-impedance outputs. Featuring a compact 1U full-rack design, this DSP-enabled Class-D amplifier supports low-impedance 4Ω to 16Ω loudspeakers and high-impedance 70V/100V transformer-coupled loudspeakers. The AMP-8-125 accepts eight analog inputs (balanced and unbalanced) and one stereo S/PDIF digital input, delivering eight low impedance mono channels (or four low impedance stereo zones) at 125W per channel, or four 70V/100V mono channels at 250W per channel.

For setup, the RTI web GUI offers effortless browser-based configuration of the installed system. DSP configuration options include multi-zone setup, input mixing, priority and ducking, restrictions, input and output EQ, S/PDIF output routing, high-pass filtering, speaker presets, delay, Wall-S1 controller configuration, RTI-AMP-IWC Multizone control, sine wave generation, and more.

### Key Features

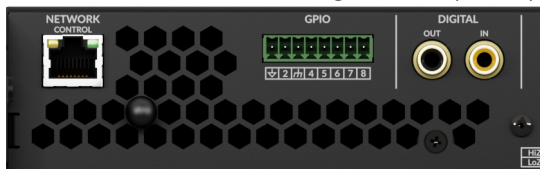
- Eight analog audio source input channels (balanced or unbalanced) and one digital input (S/PDIF).
- Four Lo-Z stereo or eight Lo-Z mono output zones, four Hi-Z mono output zones, or any mix of Lo-Z and Hi-Z zones.
- A Class D amplifier provides a robust and clear audio experience with 125 Watts @ 4Ω/8Ω per channel or 250 Watts @ 70V/100V per channel.
- Daisy-chain multiple amplifiers to expand the number of zones by distributing up to eight audio inputs or zones.
- Built-in DSP allows fine-tuning of acoustic characteristics for each zone.
- Easy configuration via LAN or Wi-Fi.
- Offers IP and GPIO control options.
- Free-standing installation or rack-mount (rack-mount kit sold separately).

### Included in the Box

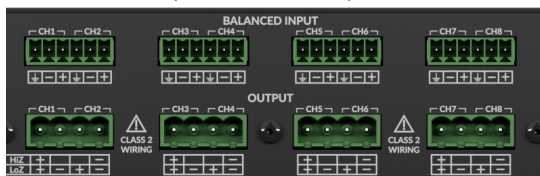
RTI-AMP-8-125, power cord, 6-pin Phoenix input connectors (4), 4-pin Phoenix output connectors (4), 8-pin Phoenix GPIO socket connector (1), rack-mount kit (1), adhesive rubber feet (4).



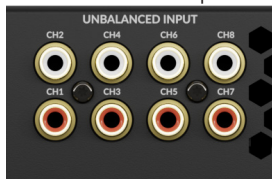
Ethernet Port, GPIO Control, and Digital Audio Input/Output



Balanced Audio Inputs and Zone Outputs



Unbalanced Audio Inputs



## Specifications

Power	
Total System Power	1,000 W
Output Power — Lo-Z (4Ω/8Ω)	8 x 125 W (4Ω / 8Ω)
Output Power — Hi-Z (70V/100V)	4 x 250 W (70V / 100V*)
PowerShare (up to)	4 x 250 W (across Ch 1-2, Ch 3-4, Ch 5-6, Ch 7-8)
Power Consumption (full load)	300 W
Power Ratings	1% THD @ 120 Vac and 230 Vac
Power Supply	UREC™ universal switch-mode PSU with PFC and standby converter
Operating Voltage / Frequency	Universal Mains — 100-240 VAC ~ 50/60 Hz
Standby Consumption	< 0.6 W
Audio	
Amplifier Class / Output Circuitry	UMAC™ Class D — full bandwidth PWM modulator with ultra-low distortion
Output Voltage	70Vp / 140Vpp unloaded   Bridged: 140Vp / 280Vpp unloaded
Signal-to-Noise Ratio	> 106 dB (A-weighted, 20 Hz-20 kHz, 8Ω load)
THD+N (typical)	< 0.05% (20 Hz-20 kHz, 8Ω load, 3 dB below rated power)
Frequency Response	20 Hz-20 kHz (+0 / -0.8 dB, 8Ω load, 3 dB below rated power)
Protection Circuits	Short Circuit, DC, Undervoltage, Temperature, Overload
Ports	
Analog Input	8x RCA (Unbalanced Stereo) 4x 6-pin Pheonix Connectors (Balanced Stereo)
Digital Input	1x Coax
Digital Output	1x Coax
Analog Output	4x 4-pin Pheonix Connector
Dante® Audio	1x RJ45
Control	
IP	1x RJ45
GPIO	1x 8-pin Pheonix Connector
Physical / Dimensions	
Dimensions (H x W x D)	mm: 44 x 440 x 319 inches: 1.7 x 17.3 x 12.6
Weight	3.8 kg (8.4 lbs)
Rack Format	½ Rack, 1U
Operating Temperature	0 - 40 °C (32 - 104 °F)




\* 100V line mode is rated at -1 dB (= 90 V)

\*\* PowerShare operates independently across Ch 1-2, Ch 3-4, Ch 5-6, and Ch 7-8.

Specifications subject to change without notice.

Mass & dimensions are approximate

## Features

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**8 Sources / 8 Channels**  
 Eight analog audio source inputs (balanced or unbalanced) and one digital input.
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**8 Zones**  
 Choose between four standard stereo zones, eight mono zones, four 70V/100V zones, or any mix of Lo-Z and Hi-Z zones.
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**Full Matrix**  
 Distribute eight audio source inputs to up to eight zones, with the ability to expand to additional zones by daisy-chaining multiple AMP-8-125 units.
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**Powerful Stereo Output**  
 Delivers 125W power output per channel for stereo zones.
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**Powerful 70V/100V Output**  
 Provides 250W per channel for 70V/100V zones
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**Built-In DSP**  
 Easily configure and optimize DSP and matrix settings through the intuitive web user interface.
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**Ultra-Efficient**  
 Cool Power® Class D amplifier technology ensures efficient heat dissipation and low power consumption.
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**Audio Source Versatility**  
 Supports a combination of analog and digital audio sources for flexibility.
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**Control**  
 Seamlessly integrate with RTI or third-party control systems via IP, or use GPIO control for volume, standby, mute, or trigger functions.
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**Mounting Options**  
 Supports free-standing installation with rack-mount kit (sold separately) and adhesive rubber feet.