

RTI-AMP-4-125 - 4 Channel 125W 8Ω, 2 Channel 70/100V 250W DSP Matrix Amplifier

The AMP-4-125 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 half-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-4-125 accepts four analog inputs (balanced and unbalanced) and one stereo S/PDIF digital input, delivering four low impedance mono channels (or two low impedance stereo zones) at 125W per channel, or two 70V/100V mono channels at 250W per channel.

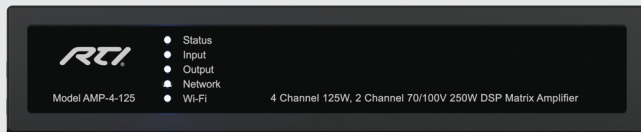
For setup, the RTI web GUI offers effortless browser-based configuration of the installed system. DSP configuration options include multi-zone setup, input mixing, priority and ducking, restrictions, input and output EQ, S/PDIF output routing, high-pass filtering, speaker presets, delay, Wall-S1 controller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

Key Features

- Four analog audio source input channels (balanced or unbalanced) and one digital input (S/PDIF).
- Two Lo-Z stereo or four Lo-Z mono output zones, two Hi-Z mono output zones, or a 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 four 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 sold separately).

Included in the Box

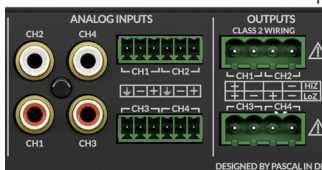
RTI-AMP-4-125, power cord, 6-pin Phoenix input connectors (2), 4-pin Phoenix output connectors (2), 8-pin Phoenix GPIO socket connector (1), adhesive rubber feet (4).



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



Balanced / Unbalanced Audio Inputs and Zone Outputs



Specifications

Power	
Total System Power	500 W
Output Power — Lo-Z (4Ω/8Ω)	4 x 125 W (4Ω / 8Ω)
Output Power — Hi-Z (70V/100V)	2 x 250 W (70V / 100V*)
PowerShare (up to)	2 x 250 W (across all channels)
Power Consumption (full load)	150 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	4x RCA (Unbalanced Stereo) 4x 6-pin Pheonix Connectors (Balanced Stereo)
Digital Input	1x Coax
Digital Output	1x Coax
Analog Output	2x 4-pin Pheonix Connector
Control	
IP	1x RJ45
GPIO	1x 8-pin Pheonix Connector
Physical / Dimensions	
Dimensions (H x W x D)	mm: 44 x 220 x 319 inches: 1.7 x 8.7 x 12.6
Weight	2.8 kg (6.2 lbs)
Rack Format	½ Rack, 1U
Operating Temperature	0 – 40 °C (32 – 104 °F)

* 100V line mode is rated at -1 dB (= 90 V)
Specifications subject to change without notice.
Mass & dimensions are approximate

Features



2 Sources / 4 Channels

Two analog audio source inputs (balanced or unbalanced), 1 digital input.



2 Zones

Choose between standard stereo zones or a 70V/100V sound system.



Full Matrix

Distribute two audio source inputs to two zones, expandable to more zones by daisy-chaining multiple AMP-4-125 units.



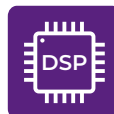
Powerful Stereo Output

125W power output per channel for stereo zones.



Powerful 70V/100V Output

250W per channel for 70/100V zones.



Built-In DSP

Configure and optimize DSP and matrix settings with the intuitive web user interface.



Ultra-Efficient

Cool Power® Class D amplifier technology ensures efficient heat dissipation and low power consumption.



Audio Source Versatility

Use either analog or digital audio sources or a combination of both.



Control

Control the unit with an RTI or 3rd party control system via IP, or use the GPIO control for controller for volume, standby, mute, or trigger functions.



Mounting Options

Supports free-standing installation with rack-mount kit (sold separately) and adhesive rubber feet.