



RTI-AMP-4-125D

4 Channel 125W 8Ω, 2 Channel 70/100V 250W DSP Matrix Amplifier with Dante

The AMP-4-125D 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-4-125D accepts four analog inputs (balanced and unbalanced), one stereo S/PDIF digital input, and four channels of Dante network audio, 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.

The integrated Dante™ audio networking module enables seamless transport of uncompressed, low-latency digital audio over standard IP networks. 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 inputs (balanced or unbalanced), one digital input, and 4x4 Dante networking. Outputs configurable as four Lo-Z or two Hi-Z.
- 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.
- Integrated Dante™ audio networking for lossless, low-latency audio distribution over standard IP infrastructure.
- 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-4-125D, 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).

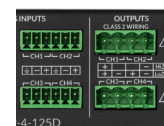
AUDIO DISTRIBUTION



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



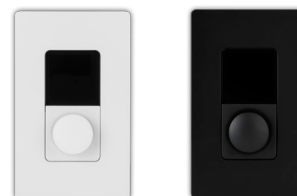
Balanced Audio Inputs and Zone Outputs



Unbalanced Audio Inputs



Compatible Products



RTI-AMP-IWC-W | RTI-AMP-IWC-B



RTI-AMP-IWC-W-EU | RTI-AMP-IWC-B-EU



AUDIO DISTRIBUTION RTI-AMP-4-125D

4 Channel 125W 8Ω, 2 Channel 70/100V 250W DSP Matrix Amplifier with Dante

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 Ch 1-2 & Ch 3-4)
Power Consumption (full load)	150 W
Power Ratings	1% THD @ 120 Vac and 230 Vac
Power Supply	URECT™ 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
Network Audio Protocol	Dante / AES67 (Audinate®)
Dante Audio Channels	Up to 4 in x 4 out audio channels over standard IP network

PORTS

Analog Input	4x RCA (Unbalanced Stereo) 4x 6-pin Phoenix Connectors (Balanced Stereo)
Digital Input	1x Coax
Digital Output	1x Coax
Analog Output	2x 4-pin Phoenix Connector

CONTROL

IP	1x RJ45
GPIO	1x 8-pin Phoenix 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	2.0 kg (4.4 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 and Ch 3-4.

Specifications subject to change without notice.

Mass & dimensions are approximate

FEATURES

4 Analog Inputs, 1 Digital Input / 4 Outputs with 4x4 Dante

Four analog audio inputs (balanced or unbalanced), one digital input, and 4x4 Dante networking. Outputs configurable as four Lo-Z or two Hi-Z.

2 Zones

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

Full Matrix

Distribute four audio source inputs to up to four zones, with the ability to expand to additional zones by daisy-chaining multiple AMP-4-125D units.

Dante™ Audio Networking

Transmit and receive uncompressed, low-latency audio over standard IP networks using Audinate's industry-leading Dante protocol. Integrates seamlessly with any Dante-enabled device.

Powerful Stereo Output

Delivers 125W power output per channel for stereo zones.

Powerful 70V/100V Output

Provides 250W per channel for 70V/100V zones.

Built-In DSP

Easily configure and optimize DSP and matrix settings through the intuitive web user interface.

Ultra-Efficient

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

Audio Source Versatility

Seamlessly integrate with RTI or third-party control systems via IP, or use GPIO control for volume, standby, mute, or trigger functions.

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.