



RTI-AMP-8-125D

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

The AMP-8-125D 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 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-8-125D accepts eight analog inputs (balanced and unbalanced), one stereo S/PDIF digital input, and four channels of Dante network audio, 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.

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-SI controller configuration, RTI-AMP-IWC Multizone control, sine wave generation, and more.

Key Features

- Eight analog audio source input channels (balanced or unbalanced), one digital input (S/PDIF), and four channels of Dante network audio.
- 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.
- 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 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).

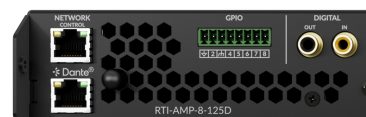
Included in the Box

RTI-AMP-8-125D, power cord, 6-pin Phoenix input connectors (4), 4-pin Phoenix output connectors (4), 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-8-125D

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

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	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	8x RCA (Unbalanced Stereo) 4x 6-pin Phoenix Connectors (Balanced Stereo)
Digital Input	1x Coax
Digital Output	1x Coax
Analog Output	4x 4-pin Phoenix Connector
Dante Audio	1x RJ45

CONTROL

IP	1x RJ45
GPIO	1x 8-pin Phoenix 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 (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, Ch 3-4, Ch 5-6, and Ch 7-8.

Specifications subject to change without notice.

Mass & dimensions are approximate

FEATURES

8 Sources / 8 Channels + Dante

Eight analog audio source inputs (balanced or unbalanced), one digital input, and four channels of Dante network audio.

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.

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-8-125D 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

Supports analog, S/PDIF digital, and Dante network audio sources for maximum flexibility.

Control

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

Mounting Options

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