



## RTI-AMP-4-125D

### 4 Channel 125W 8Ω, 2 Channel 70V/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-SI controller configuration, RTI-AMP-IWC Multizone control, sine wave generation, and more.

#### Key Features

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

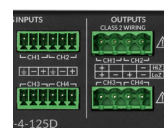
## AUDIO DISTRIBUTION



#### 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 70V/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)<br>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<br>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

### 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 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.