

DT2004

2-Channel 30W @ 4 Ω Mini Dante Network Power Amplifier



Description

This compact Class D mini digital power amplifier features dual Dante audio inputs, with built-in support for flexible operating modes including bridge connection, stereo/mono output switching and independent digital volume control.

The unit offers two power supply options: PoE+ or DC adapter. It delivers $2 \times 30\text{ W}$ per channel into $4\ \Omega$ or $8\ \Omega$ speaker loads, and supports bridge mode to provide $1 \times 60\text{ W}$ of single-channel output into $8\ \Omega$ for higher power demand scenarios.

This amplifier is widely deployed in commercial and institutional venues such as classrooms, small meeting rooms, lecture halls, bars and taverns.

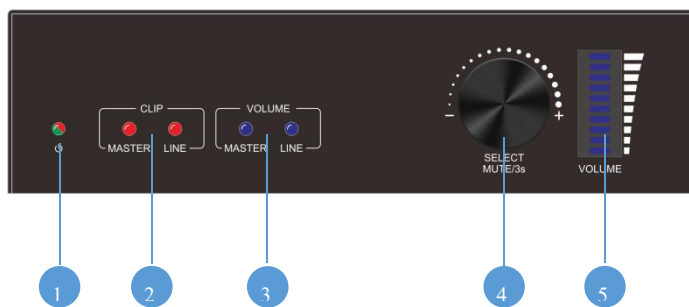
Features

- This 2-channel compact Dante power amplifier supports independent output volume adjustment.
- Stereo operating mode: delivers $2 \times 30\text{ W}$ rated output per channel into $4\ \Omega$ or $8\ \Omega$ speaker loads.
- Bridge operating mode: supports $1 \times 60\text{ W}$ single-channel output into an $8\ \Omega$ load to meet higher power demands.
- Full device management and parameter configuration through professional Dante Controller software.
- Equipped with one auxiliary line-level output (Line Out) port for signal cascading or extended connectivity.
- Supports RS-232 serial control protocol and remote power trigger function, enabling seamless integration with third-party control systems.
- Dual power supply options: DC 24V / 2.71A adapter power, or IEEE 802.3at standard PoE+ power supply via Ethernet cable.

Specifications

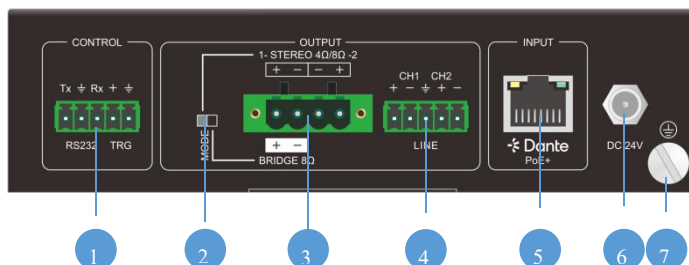
Model	DT2004
Audio Input	
import	1 x Dante
Enter Connector	1 RJ45 port
Audio Output	
output	1 x Power amplifier, 1 x Stereo audio
Output Connector	1 x Pluggable terminal (5P,3.81 mm) 1 x Pluggable terminal (4P,5.08 mm)
Audio Input Parameters	
Dante import	24-bit uncompressed, with optional sampling rates of 44.1 kHz, 48 kHz, or 96 kHz
Main Output Parameters	
output impedance	4/8Ω speaker output
rated power output	Stereo output: 2x30W@4Ω or 2x30W@8Ω Bridge output: 1 x 60 W @ 8 Ω
frequency response	20Hz ~ 20kHz, ± 3dB
noise-signal ratio (SNR)	DC Power:>85 dB (A-weighted)
Total Harmonic Distortion + Noise (THD+N)	At 1/8 rated power output, the value is <0.05%; at normal power output, it is 0.5%. The LPF has a cutoff frequency of 20 kHz and a notch depth of 3 dB.
Line Output Performance	
Rated output level	1.0Vrms ± 0.5dB
Maximum Output Level	The voltage level is 3 V = 16 dB, which exceeds the nominal signal level of -10 dBV (316 mV) for standard electrical circuits.
frequency response	20Hz ~ 20KHz, ± 3dB
noise-signal ratio (SNR)	>85 dB (A-weighted), bandwidth: 20 Hz to 20 kHz
Total Harmonic Distortion + Noise (THD+N)	<0.05% (-80 dB)
Crosstalk Isolation	>70dB
Regular	
Amplifier Type	D class
source	DC 24V 2.71A IEEE 802.3at Type 2, PoE+
AC Power Consumption	18 W @ 1/8 maximum output level 85 W @ maximum output level
working temperature	-10°C ~ +55°C
storage temperature	-25°C ~ +70°C
Storage Humidity	10% - 90%
Size (W*H*D)	166mm x 44mm x 160mm
net weight	895g

Front Panel



order number	name	description
①	power light	Green when on; red when in standby.
②	CLIP pilot lamp	The light turns red when the main audio or line audio output is distorted or overloaded.
③	VOLUME Indicator Light	Displays blue to indicate the knob controls main or circuit output.
④	Volume knob	<ul style="list-style-type: none"> Turn the knob to increase or decrease volume; Short press to switch volume control for audio output: main or line output; Hold down for 3 seconds to mute/unmute the main output and line outputs.
⑤	Volume Indicator Light	Show current volume level

Rear Panel



order number	name	description
①	Control Port	<ul style="list-style-type: none"> RS232: Connects to a PC to control the device by sending RS232 commands. TRG: Detects volume level to control the unit's startup or standby mode.
②	MODE	DIP switch for selecting stereo/bridge mode
③	primary output	One 5.08 mm 4-pin terminal for amplifier output, connected to the speaker
④	line output	One 3.81 mm five-pin terminal for two-channel balanced/unbalanced audio output
⑤	Dante	One RJ45 port for Dante network connectivity, supporting PoE+ power delivery (PD)
⑥	DC 24V	DC 24V 2.71A adapter power supply interface
⑦	Ground wire connection terminal	Connect the ground wire.