

DDA23 / DDA23D

Networked IP Digital Amplifier with Integrated DSP and Dante



Description

The DDA23 and DDA23D are multi-purpose networked DSP digital amplifiers supporting both low-impedance and constant-voltage operation. They deliver 2×450W into 4Ω, 2×300W into 8Ω, or 1×900W into 8Ω in bridged mode, with additional 70V/100V distributed line outputs. These amplifiers enable real-time remote status monitoring and allow users to configure comprehensive DSP processing including compression, limiting, gating, parametric equalization, matrix mixing and signal delay. With user-friendly software interfaces that simplify setup and operation, plus flexible connectivity options for superior configurability and expandability, they are ideal for diverse installation environments.

Features

- Optional dual-channel Dante network audio interface (DDA23D model)
- Multi-mode speaker outputs: 70V/100V constant voltage or 4-8Ω low impedance
- Power ratings: 2×450W into 4Ω; 2×300W into 8Ω; bridged mono operation 1×900W into 8Ω, 1×900W into 100V, 1×612.5W into 70V
- Onboard digital signal processing (DSP) engine
- Comprehensive control options: USB, TCP/IP, RS232 and RS485
- The working status of amplifier could be monitored remotely in real time
- Professional audio inputs: XLR balanced and RCA unbalanced
- Flexible operating modes: stereo, bridged, mono and free matrix, with one-touch mode switching
- Selectable input sensitivity: 0dBu or 6dBu, adjustable via software interface or front-panel LCD display
- Universal AC power input: 180V-260V

Specifications

Model	DDA23	DDA23D (Dante)
Input Volume	Mute, phase, level detection	
Input EQ	5-band PEQ	

Input Noise Gate	Attack time 1~2895ms, release time 1~2895ms, threshold level -120dBu~-60dBu
DSP Matrix	2*2 matrix
Output EQ	9-band PEQ
Crossover	Butterworth、Bessel、Linkwitz slope 6~24
Output Delay	2*16ms
Output Compressor	Soft knee, threshold level, attack time, compression ratio, release time
Output Limiter	Threshold level -90dBu~21dBu, release time 1~2895ms
Output Volume	Mute, phase, level detection
DSP Preset	30 preset points
Control Method	Ethernet, USB, RS485, RS232
Network Specification	TCP/IP, 1000base-T/100base-TX, RJ45
Number of Channel	2
Power	2*300W@8Ω 2*450W@4Ω
Bridge Power	1*900W@8Ω
100V	Bridge, Power: 1*900W
700V	Bridge, Power: 1*612.5W
MIN. Output Impedance	4Ω each channel, 8Ω in bridge mode
Input Interface	Balanced input 2*XLR; single-ended input 2*RCA
Output Interface	2*Spoken; terminal
Cooling	Dual fan intelligent control
Gain	6dBu sensitivity: 30dB (29.5 times); 0dBu sensitivity: 36dB (31.1 times)
MAX. Input Level	8dBu (1.94V)
SNR	6dBu sensitivity: 94dB; 0dBu sensitivity: 94dB
Frequency Response	20Hz ~ 20kHz (±0.5dB)@1W, 8Ω
THD+N	<0.1%@1W to full power
Sampling Rate	48K/24bit
Channel Isolation	<-70dB
Working Mode	Stereo, bridge, mono, free matrix
Remote Control	Power-on, standby, DSP monitor
Amplifier Monitor	Temperature, power, voltage, current
Constant Voltage and Constant Resistance	100V, 70V, 8Ω, 4Ω
DANTE Function	- 2 Channels
Display Screen	320*240 pixel, IPS color LCD screen
Audio Source Topology	XLR Line-out
Protection	Audio limiter, high temperature, DC, high frequency, short circuit, back EMF, peak current limiter, surge current limiter, startup delay, power circuit breaker protection, over voltage/under voltage protection
PC Software	The software can control media matrix, audio processor, DSP amplifier, active DSP module
Weight	3kg
Dimensions	483*300*44.5
Power Supply	Voltage input (180/264V AC)