

DDA403

Multi-Function Network DSP Digital Power Amplifier



Description

The DDA403 multi-function network DSP digital power amplifier features real-time remote monitoring of amplifier status and remote configuration of various DSP functions, including compressors, expanders, limiters, noise gates, parametric EQ, matrix routing, and delay processing. Its intuitive web-based interface provides users with a simple and efficient setup and operation experience, making it suitable for a wide range of applications. It is ideal for performing arts centers, theaters, stadiums, hotels, conference centers, shopping malls, retail stores, and restaurants.

Features

- Standard with 4-channel AES67; DANTE network audio optional.
- TCP/IP network control for centralized management of multiple devices.
- Remote power on/off control.
- Equipped with a color LCD display.
- Built-in DSP digital processor.
- Supports TCP/IP connection mode.
- Real-time remote monitoring of amplifier operating status.
- WEB interface supports on-site amplifier identification.
- Supports free switching between bridge mode and matrix mode.
- Adjustable amplifier gain from 26dB to 44dB via WEB interface or color LCD screen.
- Standard FIR processing with support for 4 × 2048 taps.
- Configurable power-on status: Power On / Standby.
- Supports constant voltage and constant impedance outputs: 100V, 70V, 8Ω, and 4Ω.
- WEB-based control; devices can be identified through Mconsole 3.0 software with direct hyperlink access to the WEB interface.
- Wide voltage operation: 100–240VAC.

Specifications

Model	DDA403
Input Sources	Analog, DANTE (optional), AES67, AES3, Pink Noise, White Noise, Sine Wave
Input Volume Control	Mute, Phase, Level Detection
Input EQ	15-band Parametric EQ
Input Noise Gate	Attack Time: 1–2895ms; Release Time: 1–2895ms; Threshold: -90dBu to 0dBu
DSP Matrix	4*4 matrix
DSP Output EQ	10-band Parametric EQ
Input / Speaker Crossover	Butterworth & Bessel slopes: 6–48dB; Linkwitz slopes: 12–48dB
Delay	Input Delay: 4×2000ms; DSP Output Delay: 4×2000ms
Speaker Delay	4*200ms
Speaker EQ	15-band Parametric EQ
Input / Speaker Compressor	Soft Knee, Threshold, Attack Time, Compression Ratio, Release Time
Speaker Limiter	Threshold: -90dBu to 8.2dBu; Release Time: 1–2895ms
Output Volume Control	Mute, Phase, Level Detection
DSP Presets	80 Presets
Control Method	Ethernet
Network Protocol	TCP/IP, 100base-TX, RJ45
Channels	4
Power	4*300W@8Ω, 4*600W@4Ω
Bridge Power	2*900W@8Ω
Minimum Output Impedance	4Ω per channel; 8Ω in bridge mode
Input Connectors	4× Phoenix Terminal Inputs
Output Connectors	Speakon ×2
Cooling	Intelligent Fan Cooling
Gain	26-44dB
Maximum Input Level	19dBu (6.904V)
S/N Ratio	95dB
Frequency Response	20Hz ~ 20kHz (±0.5dB)@1W, 8Ω
THD+N	<1% @1W to full power
Sampling Rate	96K/24bit
Channel Separation	<-78dB @1KHz, 0dBu
Damping Factor	150
CMRR	>60dB @1KHz, 0dBu
Input Impedance	20KΩ
Operating Modes	Bridge Mode, Free Matrix Mode
Remote Control	Remote Power On, Standby, DSP Monitoring
Amplifier Monitoring	Temperature, Power, Voltage, Current
Constant Voltage / Impedance	100V, 70V, 8Ω, 4Ω
DANTE (Optional)	4-channel DANTE
Display Screen	320×240 pixels, IPS hard screen, color display
Audio Source Topology	Phoenix Terminal LINK OUT
Protection	Audio Limiter, Over-temperature, DC, High Frequency, Short Circuit, Back EMF,

Peak Current Limiter, Inrush Current Limiter, Power-on Delay, Circuit Breaker Protection, Power Over/Under Voltage Protection

Net Weight

3.9kg

Gross Weight

5kg

Product Dimensions

483×305×44.5 mm

Package Dimensions

527×447×93 mm

Power Supply

AC 100~240V, 50Hz/60Hz

Front / Rear Panel

Front Panel



Rear Panel

