

DDA43A / DDA43D

Commercial-Grade IP Network Class D Amplifier with DSP & Optional Dante



Description

The DDA43A and DDA43D are 4-channel DSP digital power amplifiers rated at 4×450W into 4Ω / 4×300W into 8Ω, with bridged operation delivering 2×900W into 8Ω. They feature dual-mode operation supporting both low-impedance and 70V/100V constant-voltage speaker systems (bridged 2×612.5W @ 70V / 2×900W @ 100V). These amplifiers enable real-time remote monitoring of all operational parameters and full DSP configuration. The integrated DSP processor includes noise gating, matrix mixing, parametric equalization, crossover filtering, signal delay and dynamic compression. With 4-channel Dante network audio support, they are ideal for diverse commercial and institutional installations.

Features

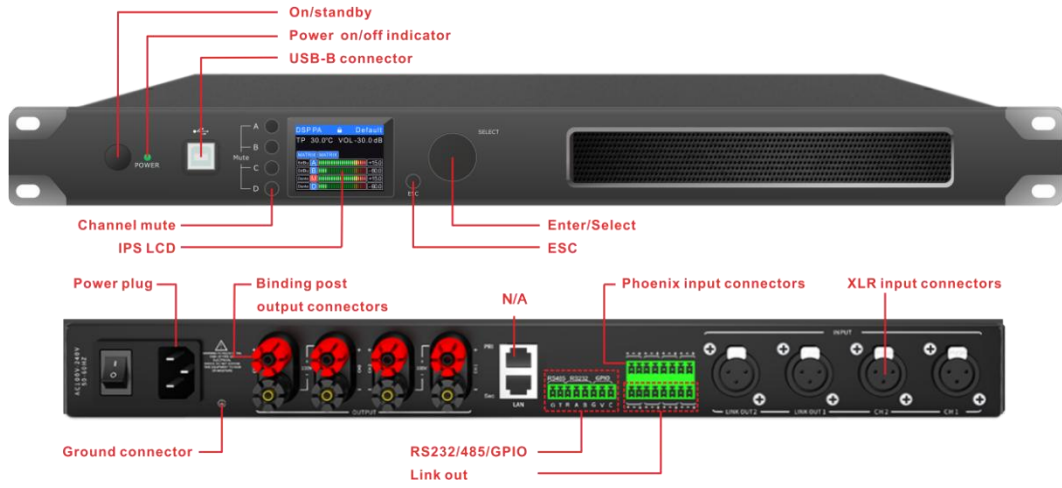
- 4-channel Dante network audio interface (DDA43D model exclusive)
- Independent 0dBu/6dBu input sensitivity adjustment per channel
- Remote standby and paging amplifier control
- High-resolution color IPS LCD display
- Professional balanced XLR audio inputs and heavy-duty binding post speaker outputs
- Flexible operating modes: stereo, bridged mono, parallel mono and free matrix mixing
- Comprehensive control options: USB, RJ45 Ethernet (TCP/IP), configurable RS232/RS485 central control, and GPIO external expansion interface
- Compatible with Mconsole PC software and TCON mobile app for network control
- Universal dual-mode output supporting 100V/70V constant voltage and 8Ω/4Ω low impedance

Specifications

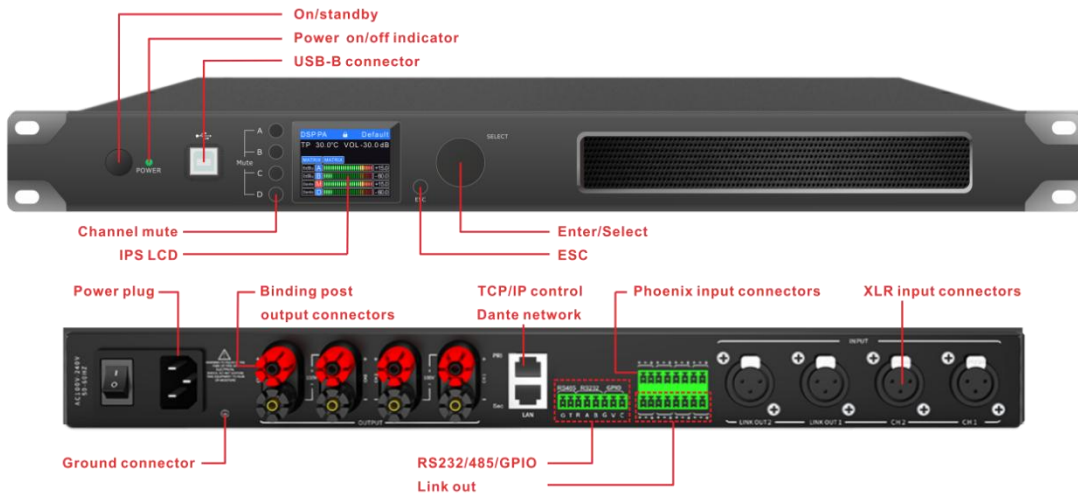
Model	DDA43A	DDA43D (Dante)
Input PEQ	15 PEQS	
Output PEQ	10 PEQS	
Crossover	Butterworth 6~48, Bessel 12~48, Linkwitz-Riley 12~48	
Delay	Input Delay:4*100ms / Output Delay:4*20ms	
Output Compressor	Knee, Threshold, Attack, Ratio, Release	
Output Limiter	Threshold -90~21dBu、Release 1~2895ms	
DSP Presets	30 (No.1 for default preset)	
Control port	TCP/IP, USB, RS485, RS232, GPIO	
Network Specification	2*RJ45, TCP/IP, 1000base-T/100base-TX	
Channel	4	
Power	4*300W@8Ω 4*450W@4Ω	
Bridge Power	2*900W@8Ω	
100V	Bridge, Power: 2*900W	
70V	Bridge, Power: 2*612.5W	
Input Interface	Balance 4*XLR	
Output Interface	4*Binding post	
Cooling Mode	2*fans intelligent control	
Gain	6dBu: 30dB (29.5 times); 0dBu: 36dB (31.1 times)	
Maximum Input Level	0dB Sens. LV: 8dBu (1.94V); 6dB Sens. LV: 14dBu (3.88V)	
SNR	6dBu:97dB; 0dBu:97dB	
Frequency Response	20Hz ~ 20kHz (±0.5dB)@1W to full power, 8Ω	
THD+N	<1%@1W-full power	
Sample Rate	48K/24bit	
Channel Isolation	<-70dB	
Work Mode	Stereo, Bridge, Mono, free Matrix	
Remote Control	Standby, Call, DSP functions	
Amplifier Monitor	Temperature, Power, Current and Voltage	
Constant Pressure and Resistance	100V, 70V, 8Ω, 4Ω	
DANTE Function	-	4 channels
Display	320x240pixel, 2inch IPS LCD	
Protection Mode	DSP limiter, high temperature, DC, high frequency, short circuit, back EMF, peak current limiter, Back EMF, Surge current limiter, startup delay, power circuit breaker protection, power over voltage/under voltage protection	
PC Software	Mconsole	
Net weight	4kg	
Device size	483mm*305mm*44.5mm	
Power Supply	VAC100~240 50/60Hz	

Front / Rear Panel

DDA43A



DDA43D



Product Dimension

