

DAV4x500: Four Channels Digital Amplifier Volt Constant



MAIN FEATURES

- ✦ Four channels Class-D Low-Z amplification
- ✦ Two Channels High-Z 100V Constant Volt
- ✦ Software selectable
- ✦ Local analog audio input selection
- ✦ Built-in DSP digital processor
- ✦ Network TCP/IP control for multiple device management
- ✦ Support multiple on-line mode: USB, TCP/IP, RS232, RS485
- ✦ Real-time remote monitoring of power amplifier working status
- ✦ Support balanced XLR input
- ✦ Support stereo, bridge, mono free matrix mode, one-button switching

4 channels, power output per channels	
	DVA4x500
4 Ohm	500W
8 Ohm	300W
Bridge	1000W / 100* V

DAV4x500 4 Channel Digital Amplifier with DSP

The DAV is a Class-D, Hi-Z and Low-z power amplifier designed for both commercial and industrial public address applications and small professional sound systems.

The integrate SHARC® DSP and network control offers remotely monitor status of power amplifier, compression Controller, limiter, noise gate, parametric equalization, matrix routing, delay and other DSP functions in real time.

The simple software interface allows an easy setup and operation. Also provides a variety of connection methods ensure its good configuration and expandability, suitable for various applications, such as performance centre, theatre, gallery, hotel, conference centre, shopping centre, retail store, restaurant, etc.

General Specifications

Amplifier topology	Class-D
Number of channels	Four
Total Power output	4x500 W @4Ω; or 2x1000 W @8Ω bridge / 2 x 1000 W @100V, 2x600W @70 V line bridged
Audio inputs	4x Analogue, and Optional 4xDante™ (factory fitted option)
Digital Signal Processing	DSP SHARC® processing on all inputs and outputs
Control & monitoring	TCP/IP, USB, RS485, RS232, GPIO - Volt-free relay and contact closure port

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Audio Performance

Frequency response, 4 Ω load	+/- 0.5dB, 20Hz to 20kHz @8Ω load
Total harmonic distortion, THD	<0.1% typical, 1kHz signal, full power
Inter-channel crosstalk worst case combination	Better than -70dB at 1kHz
Maximum analogue input level	+16dBu (4.9V) => +6dB

Digital Signal Processing

Resolution	24 bit
Sample rate	48 kHz
Input processing	Input signal routing, gain, sensitivity level, Polarity, Mute, Noise Gate EQ: 31 x PEQ / HPF / LPF
Output processing	Source, delay, gain, polarity, Mute, crossover filters, Limiters, Out Compressor EQ: low shelf, 10xPEQ / HPF / LPF
Preset management	30 presets for loudspeaker settings

Power Output

Power Specification	DVA4x500
4Ω nominal load, per channel	500 W
8Ω nominal load, per channel	300 W
Bridge, per channel pair, 8Ω nominal load	1000 W
70V / 100V line operation /two channel line bridged	600 W/1000 W; 70V/100V
Impedance	4-16 ohm, DSP Selectable

Protections Systems

System protection	Speaker protection
Startup delay	Limiter
Excessive temperature	DC Offset protection
Main voltage: Over / Under voltage protection	Excessive HF energy (VHF) limiter
Power circuit breaker	
Fan operation at correct speed	
Monitoring	
Temperature	
Power	
Current	
Voltage	
Each driver impedance	
Protection limiting for each output	

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Physical

Cooling	Two fans intelligent control
Analogue IN and LINK	4x female XLR, Input Phoenix pluggable terminal block, Link Phoenix terminal block
Amplifiers output	4x two (black and red) binding post terminal
Main input connector	IEC connector
Dante™ Primary and Secondary	2x Shielded RJ45
Relay output & contact closure input	Phoenix pluggable terminal block
Front panel display	320 x 320 IPS LCD
Front panel encoders	One, idented, velocity sensitive
Front panel push buttons	Four for Mute and Escape
LED indicators	Power on
Enclosure	Standard 19" 1U (44,5x300)mm (11.81" deep)
Net Weight	3,6kg (7.93 lbs)