Digital Power Amplifier

Model List

- DA 8842 | 4 x 200W DSP Matrix Amplifier
- DA 8844 | 4 x 400W DSP Matrix Amplifier
- DA 8846 | 4 x 600W DSP Matrix Amplifier
- DA 8848 | 4 x 800W DSP Matrix Amplifier

Product Introduction

The DA 8842, DA 8844, DA 8846, and DA 8848 are powerful audio management centers equipped with 8 analog inputs and outputs, alongside four-channel Class-D amplifiers with PFC switching power supplies. These models feature advanced audio processing capabilities, including 48V phantom power, 8-band parametric EQ, noise suppression, and extensive delay and limiting options. The built-in USB sound card supports playback, recording, and video conferencing, while the Ethernet control interface allows for seamless integration with local networks and mobile devices. The intuitive PC software interface ensures easy configuration and real-time monitoring of all audio parameters, making these devices ideal for professional audio environments.

Key Features

- Integrated 8x8 analog audio matrix with four-channel Class-D power amplification and PFC switching.
- Amplifier output power options from 4x200W (DA 8842) up to 4x800W (DA 8848) at 8Ω.
- 48kHz sampling rate with 24-bit quantization and 110dB input/output dynamic range.
- 8 balanced Phoenix port inputs and outputs with independent 48V phantom power per channel.
- Advanced DSP processing including 8-band parametric EQ, noise suppression, delay, and limiting.
- Built-in USB sound card for audio playback, recording, and video conferencing integration.
- Ethernet control interface for network integration and real-time monitoring via PC software.
- Input gain adjustable from 0 to 48dB in 6dB increments with 5.4KΩ balanced impedance.
- Intelligent fan speed control for heat dissipation in a 1U rack-mountable chassis.
- Wide operating voltage range of 100–265VAC, 50/60Hz with weights from 3.6kg to 4.3kg.

DA 8842

DA 8844

DA 8846

DA 8848

Software Included

For further specifications or application details, please contact us. Specifications may change without prior notice. Technical modifications reserved.

Digital Power Amplifier

Technical Specification

	DA 8842	DA 8844	DA 8846	DA 8848
Sampling Rate	48kHz, ±100ppm	48kHz, ±100ppm	48kHz, ±100ppm	48kHz, ±100ppm
Quantization Number	24 bits	24 bits	24 bits	24 bits
Frequency Response	(20~20kHz): ±0.5dB	(20~20kHz): ±0.5dB	(20~20kHz): ±0.5dB	(20~20kHz): ±0.5dB
System Delay	Phantom Power Supply: +48V/10mAmax	Phantom Power Supply: +48V/10mAmax	Phantom Power Supply: +48V/10mAmax	Phantom Power Supply: +48V/10mAmax
Maximum Level	+18dBu	+18dBu	+18dBu	+18dBu
Input Gain	0/6/12/18/24/30/36/42/48 dB	0/6/12/18/24/30/36/42/48 dB	0/6/12/18/24/30/36/42/48 dB	0/6/12/18/24/30/36/42/48 dB
Input Channels	8 balanced Phoenix ports	8 balanced Phoenix ports	8 balanced Phoenix ports	8 balanced Phoenix ports
Output Channels	8 balanced Phoenix ports	8 balanced Phoenix ports	8 balanced Phoenix ports	8 balanced Phoenix ports
Input Dynamic Range	110dB	110dB	110dB	110dB
Output Dynamic Range	110dB	110dB	110dB	110dB
Input Impedance (Balanced)	5.4KΩ	5.4KΩ	5.4KΩ	5.4KΩ
Output Impedance (Balanced)	600Ω	600Ω	600Ω	600Ω
Channel Isolation	@1kHz: 108dB	@1kHz: 108dB	@1kHz: 108dB	@1kHz: 108dB
Total Harmonic Distortion + Noise	0.002%@+4dBu	0.002%@+4dBu	0.002%@+4dBu	0.002%@+4dBu
Working Power Supply	AC220V, 50Hz	AC220V, 50Hz	AC220V, 50Hz	AC220V, 50Hz
Amplifier Stereo 8 Ohms Load	200W x 4	400W x 4	600W x 4	800W x 4
Amplifier Stereo 4 Ohms Load	420W x 4	660W x 4	930W x 4	1290W x 4
Bridge Mode 8 Ohms Load	900W x 2	1400W x 2	-	-
Bridge Mode 4 Ohms Load	1650W x 2	2550W x 2	-	-
Sensitivity	1V	1V / 1.4V / 2.0V / 2.4V	1V / 1.4V / 2.0V / 2.4V	1V / 1.4V / 2.0V / 2.4V
Input Impedance (Amplifier)	Balanced input 20K, Unbalanced input 10K	Balanced input 20K, Unbalanced input 10K	Balanced input 20K, Unbalanced input 10K	Balanced input 20K, Unbalanced input 10K
THD Total Harmonic Distortion (Amplifier)	0.02%	0.02%	0.02%	0.02%
Conversion Rate	40V/USEC	40V/USEC	40V/USEC	40V/USEC
Signal to Noise Ratio	98dB	98dB	98dB	98dB
Damping Coefficient	>400	>400	>400	>400
Heat Dissipation Mode	Intelligent fan speed	Intelligent fan speed	Intelligent fan speed	Intelligent fan speed
Operating Voltage Range	100-265VAC, 50/60Hz	100-265VAC, 50/60Hz	100-265VAC, 50/60Hz	100-265VAC, 50/60Hz
Dimensions (W x H x D)	484 x 44 x 383 mm	484 x 44 x 383 mm	484 x 44 x 383 mm	484 x 44 x 383 mm
Weight	3.6 kg	3.8 kg	4.1 kg	4.3 kg

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