AC403D

Description

The Plus Audio 4 × 300W DSP Amplifier is a multifunctional four-channel network DSP power amplifier designed for professional sound reinforcement across both fixed installation and commercial audio environments. Delivering 300W per channel at 8Ω, it combines flexible amplification with advanced DSP processing and network-based control.

Built-in DSP provides comprehensive signal processing for precise system optimisation, including compressor, expander, limiter, noise gate, parametric EQ, matrix routing, and delay functions. Configuration and monitoring can be managed through the intuitive web interface or the integrated colour LCD display, providing convenient access to system settings and real-time amplifier status.

With standard four-channel AES67 network audio and optional Dante™ connectivity, the amplifier integrates easily into modern networked audio systems. Support for both low-impedance and constant-voltage operation, including 8Ω, 4Ω, 70V, and 100V configurations, provides the flexibility required for a wide range of professional installations.

The amplifier supports multiple operating modes, allowing users to switch between bridge and matrix configurations to suit different system requirements. Input gain can be adjusted from 26–44 dB, while the integrated FIR processing provides 4 × 2048-tap filters for accurate phase and system optimisation.

Network control is provided via TCP/IP, enabling multi-device management and remote power control. Integration with Mconsole 3.0 allows connected amplifiers to be identified and accessed directly through the web interface, simplifying configuration and management of larger audio systems.

A wide-range 100–240V power supply, configurable startup states, and real-time monitoring of amplifier operating status ensure dependable operation and convenient system management across professional audio applications.

Meta Fields

Features :

- 4 × 300W output at 8Ω

- Standard 4-channel AES67 network audio
- Optional Dante™ network audio
- Built-in DSP processor
- Compressor, expander, limiter, noise gate, parametric EQ, matrix routing, and delay
- Standard FIR processing with 4 × 2048-tap filters
- Constant-voltage and low-impedance operation: 100V / 70V / 8Ω / 4Ω
- Freely configurable bridge and matrix operating modes
- Adjustable amplifier gain from 26–44 dB
- Integrated colour LCD display
- Real-time remote monitoring of amplifier operating status
- Remote power on/off control
- TCP/IP network control for multi-device management
- Web-based configuration and control
- Amplifier identification through the Web interface
- Mconsole 3.0 integration with direct device access via hyperlink
- Configurable power-up status: Power On / Standby
- Wide-range 100–240V power supply

Specification :

Amplifier Channels	4
Output Power	4 × 300W @ 8Ω / 4 × 600W @ 4Ω
Bridged Power	2 × 900W @ 8Ω
Minimum Load	4Ω per channel / 8Ω bridged
100V Output	100V
70V Output	70V
Input Connectors	4 × Phoenix terminal inputs
Output Connectors	2 × speakON
Link Output	Phoenix terminal LINK OUT
Maximum Input Level	19dBu / 6.904V
Gain	26–44dB
Input Impedance	20kΩ
SNR	95dB
Frequency Response	20Hz–20kHz (±0.5dB) @ 1W, 8Ω
THD+N	<1% @ 1W to full power
Channel Separation	<−78dB @ 1kHz, 0dBu
Damping Factor	150
CMRR	>60dB @ 1kHz, 0dBu
Sampling Rate	96kHz / 24-bit
Audio Sources	Analogue, AES67, optional Dante™, pink noise, white n sine wave
Dante™	Optional 4-channel Dante™
DSP Matrix	4 × 4 matrix

Input EQ	15-band parametric EQ
Output EQ	10-band parametric EQ
Speaker EQ	15-band parametric EQ
Crossover	Butterworth & Bessel: 6–48dB/oct; Linkwitz-Riley: 12–4
Input Delay	4 × 2000ms
DSP Output Delay	4 × 2000ms
Speaker Delay	4 × 200ms
Compressor	Soft knee, threshold, attack, compression ratio, release
Limiter	Threshold −90dBu to 8.2dBu; release 1–2895ms
Noise Gate	Threshold −90dBu to 0dBu; attack/release 1–2895ms
DSP Presets	80 preset slots
Operating Modes	Bridge, Free Matrix
Constant-Voltage / Low-Impedance	100V / 70V / 8Ω / 4Ω
Control	Ethernet / TCP/IP
Network	100Base-TX / RJ45
Remote Control	Power on, standby, DSP monitoring
Amplifier Monitoring	Temperature, power, voltage, current
Display	320 × 240 pixel IPS colour display
Cooling	Intelligent temperature-controlled fan
Protection	Audio limiter, over-temperature, DC, high frequency, sl circuit, back EMF, peak current limiter, inrush current li power-on delay, circuit breaker, over/under-voltage pro
Power Supply	100–240V AC, 50/60Hz
Dimensions	483 × 305 × 44.5mm
Net Weight	3.9kg
Gross Weight	5kg
Package Dimensions	527 × 447 × 93mm