

SERENIX PROFESSIONAL AUDIO

SR-AMP-DSP41000

4-in/4-out network DSP power amplifier — 1000W×4 @8Ω, Dante-ready, 4.3" touchscreen control.

SR-AMP-DSP41000 is a 4-in/4-out network DSP power amplifier integrating a full DSP processing engine, a 4.3" capacitive touchscreen display, and flexible signal routing. It accepts Analog, AES3, or Dante network input, with source priority and automatic backup switching between them, and drives constant-resistance 8Ω/4Ω or constant-voltage 100V/70V loads from the same chassis.

Standard FIR automatic linear magnitude and phase correction gives installers a powerful way to tune loudspeakers, while real-time monitoring of power, current, voltage, temperature and impedance is shown directly on the display. RJ45, USB, RS232/RS485 and GPIO connectors let the free Mconsole PC software — or a third-party control system — identify, monitor and remotely switch devices on/off.



4 CH

IN / OUT

1000W×4

@ 8Ω

1600W×4

@ 4Ω

105dB

SNR

4.3"

TOUCH DISPLAY

FEATURES

01

Dante-Ready with Analog Backup

Dante network audio input option with automatic Dante-Analog backup, plus AES3 digital input.

03

Universal Load Support

Switchable 100V / 70V / 8Ω / 4Ω operation with free setting of power and voltage limits.

02

Built-In DSP with FIR Tuning

Standard FIR automatic linear magnitude and phase correction for precise loudspeaker alignment.

04

Full Real-Time Monitoring

4.3" colour touchscreen shows temperature, power, voltage, current and impedance live, per channel.

SPECIFICATIONS

Amplifier Channels	4
Output Power @ 8Ω	1000W × 4
Output Power @ 4Ω	1600W × 4 (bridge 2×3200W)
100V Output Power	Bridge mode, 100V (2×max 1250W)
70V Output Power	70V (4×max 1225W)
Max. Output Voltage	89V
Max. Output Current	20A
Min. Load per Channel	4Ω
Input Connector	4× XLR
Output Connector	4× SpeakON, 4× binding post
Max. Input Level	20dBu / 7.75V
Sensitivity	12dBu / 6dBu / 0dBu (selectable gain)
SNR	105dB @ 12dBu, 1kHz
Frequency Response	20Hz–20kHz (±0.5dB) @ 1W, 8Ω
THD+N	<1% @ 1W, 8Ω
Sampling	48kHz / 24-bit
Dante (Option)	4 input channels
Display	4.3" IPS touchscreen
PC Control Software	Mconsole
Power Requirement	AC 180–264V, 50/60Hz
Net Weight / Dimensions	12.35kg, 485 × 460 × 90mm
Gross Weight / Packing	16.4kg, 590 × 585 × 165mm

All figures are nominal, per manufacturer data.

PROTECTIONS

DSP limiter, high temperature, DC, high frequency, short circuit
Back EMF, peak & surge current limiter
Startup delay, power circuit breaker protection
Power over-voltage / under-voltage protection

CONNECTIVITY

Network: RJ45, Dante (option)
Control: USB, RS232, RS485, GPIO
Signal Priority: Analog / AES3 / Dante, auto backup

APPLICATIONS

- Sports Stadiums
- Colleges & Universities
- Meeting Rooms
- Shopping Malls
- Hotels
- Airport Terminals