ELECTRONICS

Digital Power Amplifier



Audio Performance D2SP Digital Amplifier Plate



The D2SP digital amplifier plate represent an industry first. Never before has the installation industry been offered a premier line of power amplifiers with this level of flexibility and power density. The D2SP integrates light-weight power supply and high power sonically transparent class D amplifiers with full system monitoring and a fully featured networked 24 bit 96KHz DSP processing platform provided onboard as standard.

The D2SP are designed to provide a solution rather than be just a component in a system.

Above the D2SP digital amplifier plate sounds superb, and this is not just our opinion. We realise that innovative designs and production techniques are of little value if audio performance is compromised. Sonics are the heart of AP's philosophy and we set extremely high standards for ourselves.

The D2SP contains two 1'250W channels of class D amplification channels.

Each amplifier channels contains a complete 96KHz digital loudspeaker management and control subsystem.

The amplifier DSP platform is in no way compromised, containing as it

does an extremely powerful stateof-the-art floating point SHARC based DSP engine.

Critical components in the audio path, so important to the sound quality, have been selected with great care and after extensive listening tests.

A simple PC connection allows customers to manipulate DSP parameters so as to optimise the performance and develop settings for particular applications.

These settings are stored in the amplifier so a PC is not necessary for operation.

The amplifier also has the capability to recall up to four different sets of settings by the means of rear panel contact closure inputs.

The D2SP is network-able as standard; there are no expensive options to purchase. AP's widely used PodWare PC application provides real-time control and monitoring functions to either single units or whole networks of products.

Sophisticated micro-processor controlled amplifier protection systems continuously monitor all aspects of performance to assure the unit and drivers are always working within their safe operating areas.

FEATURES

Two 1'250W @ 2 Ω

Bridgable Channels $2'500W @ 4 \Omega$

70/100V Line Capability

96KHz DSP with Real-Time Monitoring

Live Networked Control & Monitoring

Factory presets for all AP non-powered loudspeaker products







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D2SP Specifications

AUDIO

Max. Input Level + 20 dBu

PROTECTION

Brownout Automatic protection & recovery

Mains Inrush current limiting

DC fault Shut down power cycle to recover

INDICATORS

Per Channel Signal, -10dB, Limit

Per Channel pair Power, Protect, Bridge, Remote, User DSP defeat

CONTROLS PER CHANNEL PAIR

Front panel DSP defeat (can be disable), Power switch

Rear panel Two contact closure inputs

Monitoring facilities Input signal level, Output signal level, Output current level, Temperature, Limiteur operation,

Protection system operation, Driver impedance.

AMPLIFIER SECTION

Output power RMS program, 20Hz - 20KHz, all channels driven

Slew rate > 80V/us Efficiency > 90% typical

POWER SUPPLY

Input Voltage 115V / 230V nominal +/- 10%

Input voltage selection Automatic

PHYSICAL

 Height
 442mm

 Width
 198mm

 Depth
 80mm

 Weight
 3 Kg

CONNECTIONS

Mains Neutrik POWERCONTrue1

Output (per channel) Neutrik SPEAKON NL4

Network Input & Link RJ45 Auxiliary facilities RJ45