

IPX 4800



Compact 4,800-Watt 2-Channel DSP-Controlled Power Amplifier

Product Features

Compact 4,800-Watt, 2-channel amplifier with DSP control for touring applications

Low mains current draw with proven IDEEA technology for power conservation

Highly advanced DSP with FIR and 40 real-time multi-slope parametric EQs

50 user presets for system configuration and setup

Networked control via touchscreen user interface

AES3 and analog inputs with redundant failover

Renowned Speaker Protect Limiter (maxSPL) for optimal speaker match and protection

4-channel input mixer for multi-input mixing and switching

Backlit display with navigation buttons and encoder for front panel setup

Horizontal output VU meters on display in operating mode

Binding post and industry standard twist-lock speaker connectors

Universal power supply supports 100 - 240 V at 50 or 60 Hz

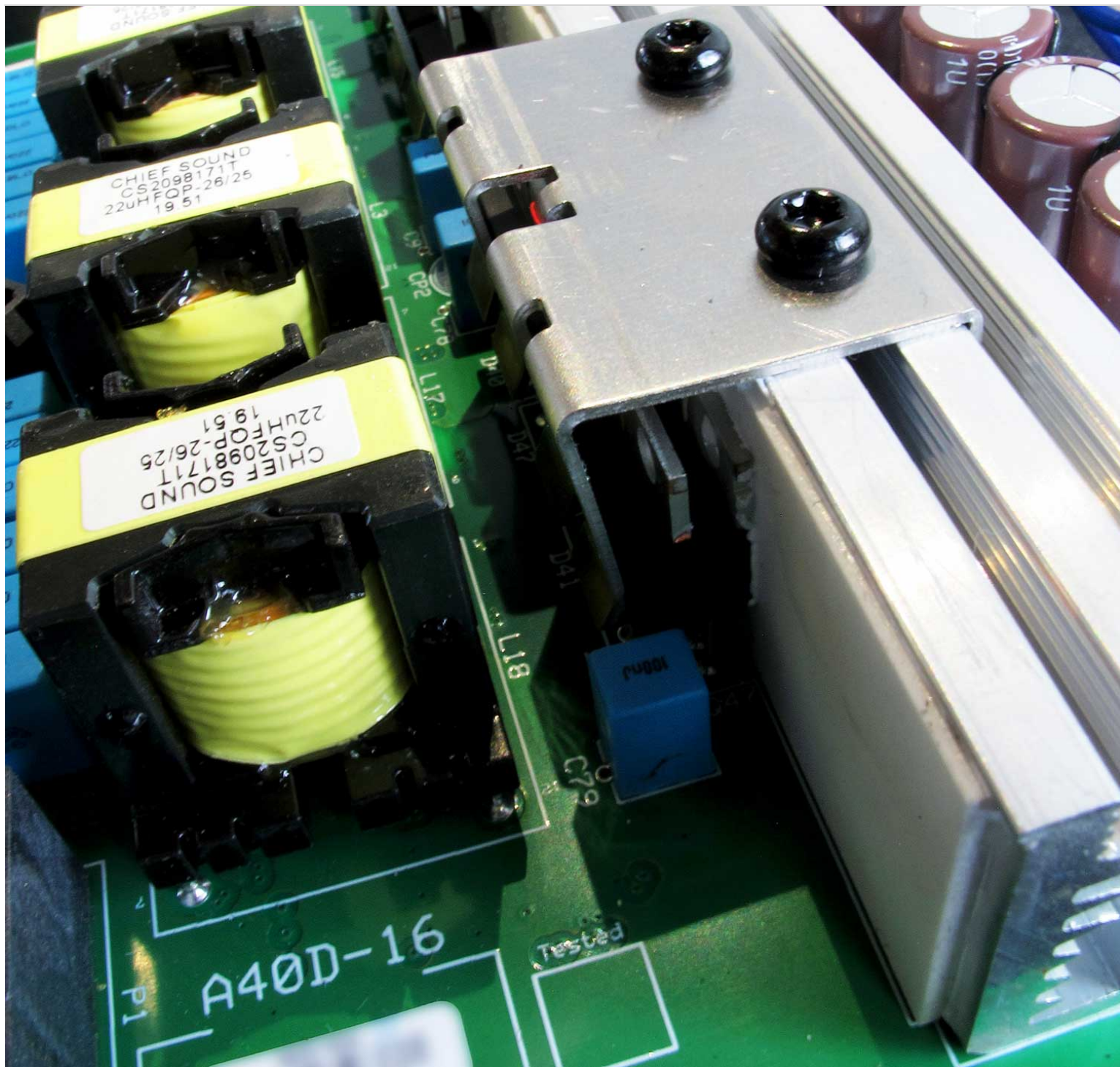
Fast network setup with auto-discovery and identification of amplifiers

FIR-X mode Create speaker presets with FIR and IIR filters for single and multi-way loudspeakers



IPX SERIES

High power density, competitive cost and power consumption efficiency make IPX 4800 the ideal compact yet powerful amp solution whether for permanent installations, portable corporate AV systems, or live PA setups.



Muscles Meet Mind

The IPX 4800 is our most powerful amplifier in the IPX series, making it perfect for larger venues. Delivering 2 x 2400 W at 4 ohms, IPX 4800 packs reliable power and performance into a single rack space and fills the gap for driving larger, more power-hungry subs. But raw muscle power is not enough. At the heart of the IPX platform, you'll find a cutting-edge DSP engine equipped with up to 40 real-time, multi-slope parametric EQs along with adjustable gain, input, and output delay – and both high- and low-pass filters adjustable to any frequency.

The DSP also provides extensive protection for your loudspeaker system in the form of the innovative software-controlled Speaker Protect Limiter. You can configure this with ease from within the IPX Controller software.



Take Control at the Rack. Or Anywhere.

You can access all setup parameters for input mixing, DSP features and limiter settings on the front panel, using two navigation buttons, a rotary encoder, and the backlit display. Individual channel mute buttons are also available, and up to 50 user-defined presets may be stored on-board.



The Fast and The Foolproof – One and the Same!

Most likely, you also want to take advantage of the advanced, Ethernet-based networked monitoring and control features. Network configuration is fast and foolproof due to automatic discovery and identification of all connected amplifiers. The sleek GUI is designed for touch-based devices and enables quick grouping of amplifiers along with intuitive setup and preset storage of all DSP parameters.



Flexible I/O and Conversion Features

With AES3 digital inputs standard, IPX 4800 connects directly to digital console stage boxes, or accepts AES input along with on-board sample rate conversion between all commonly used sample frequencies within the digital domain, eliminating a D-A/A-D conversion cycle. You can also combine various IPX series amplifiers to fit the need of the venue, whether it's a stadium or convention center. Additionally, AES3 inputs can be set for automatic fail-over to analog (perfect redundancy solution for keeping the show going, or in case of installations – maintaining system integrity for mission-critical PA/VA system applications). Further, input mixing is available for all four inputs, and at the power output end, connections are available on binding posts or industry-standard twist-locking speaker connectors.



IPX Controller

At the heart of IPX Series is the intuitive and fast GUI of the IPX Controller software, giving you powerful hands-on control over just about every aspect of DSP performance for each device on the network. IPX Controller is available for PC and Mac, and it was designed from the ground up with touchscreen operation in mind. Quite simply, IPX Controller gives you an edge when it comes to tuning your system for perfection.



Supercharged DSP Power

IPX Series boasts a state-of-the-art DSP engine equipped with up to 40 real-time, multi-slope parametric EQs along with adjustable gain and input and output delay, as well as both high- and low-pass filters adjustable to any frequency. This makes IPX Series akin to a standalone digital audio processor – with the added bonus of 2 powerful and pristine amplifier channels on the side!



Pro Performance at Prosumer Price Points

With extensive functionality and professional features being married with competitive cost, IPX Series amplifiers are equally (and perfectly) suited for permanent installations, portable AV systems, or for driving live monitors. In short, wherever performance and reliability cannot be compromised, yet your budget is tight, IPX Series is a universal solution that sits smack in the middle of the performance/price sweet spot.



Specification

Maximum Output Power*

2 Ω per channel, stereo	2400 W
4 Ω per channel, stereo	2400 W
8 Ω per channel, stereo	1200 W

Controls

Front	Power switch DSP section rotary push-encoder Buttons for Menu, Back, Mute (per channel)
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System

Number of channels	2
Output voltage	140 V peak / 100 Vrms / 42.2 dBu
Input sensitivity for maximum output voltage	6 dBu
Output current	35 Arms
Output circuit type	Class-D
THD+N	< 0.1%, 20 Hz - 20 kHz @ 1 W < 0.05% @ 1 kHz, 1 dB below clip
Output noise	-64 dBu, A-weighted
Signal-to-noise	> 106 dB
Channel crosstalk	> 80dB @ 1 kHz
Frequency response	10 Hz to 20 kHz, +0.5/-1 dB 5 Hz to 40 kHz, -3 dB
Common mode rejection (CMR)	> 50 dB
Gain (all DSP controls set to 0 dB)	36.2 dB

Indicators

Power	Red LED
Limit, per channel	Red LED
Signal / mute, per channel	Green/Red LED

*Independent of limiters and driver protection circuits