

By GeorgePetersen

DSP Amplifiers

Amplifiers keep getting smarter, offering more features and improved connectivity, while at the same time becoming more compact, energy efficient and more reliable than their predecessors. We decided to take a look at the top-of-the-line offerings in designs offering onboard DSP and found a bountiful harvest. It should be noted that some companies offer powering packages designed for specific loudspeakers, but here, we’re spotlighting general-purpose amps that can be used with a wide variety of models and applications. All prices are MSRP list and URL’s are provided for more information.

Ashly Audio nX Series



Top Model: nXp 3.04
Class: Class-D
Channels: 4
Power/channel: 2,000 Watts @ 4 ohms
Bridgeable: Yes; four into two channels.
Dimensions (HxWxD): 3.5 x 19 x 16.84”
Weight: 28 pounds
I/O: Euroblock 3.5mm, TRS/XLR inputs; Speakon outs.
Networking: Ethernet control; optional Cobranet or Dante and AES3 digital input.
DSP: 32-bit SHARC, with dynamics, gain, EQ, 2x4 or 4x4 matrix mixer, crossover, delay, metering and signal generator functions.
MSRP: \$6,635
ashly.com

Hoellstern Amplifiers Delta Series



Top Model: Delta 12.2-DSP
Class: Class-D
Channels: 2
Power/channel: 4,400 Watts @ 4 ohms
Bridgeable: Yes; four into two channels.
Dimensions (HxWxD): 3.5 x 19 x 11.8”
Weight: 22 pounds
I/O: XLR inputs (in/thru); Speakon outs.
Networking: RS-485 network (and RS-232 interface).
DSP: Konfigurator2 software includes loudspeaker management setups for major brands — Adamson, Alcons, d&b, Danley, EAW, JBL, L-Acoustics, Nexco, etc.
MSRP: \$7,100
hoellstern.com

Lab.gruppen PLM Series



Top Model: PLM20000Q
Class: Class-TD
Channels: 2-input; 4-output
Power/channel: 4,400 watts @ 4 ohms
Bridgeable: Yes
Dimensions (HxWxD): 3.5 x 19 x 18.1”
Weight: 37 pounds
I/O: XLR inputs (AES and analog); Speakon or binding post outs.
Networking: Ethernet, Dante.
DSP: Two Lake Processing modules, each with delays, crossovers, EQ and limiting, including Lake Mesa EQ and LimiterMax protection.
MSRP: \$12,500
labgruppen.com

Behringer iNUKE Series



Top Model: iNUKE NU6000 DSP
Class: Class-D
Channels: 2
Power/channel: 3,100 Watts @ 4 ohms
Bridgeable: No
Dimensions (HxWxD): 3.5 x 19 x 12.9”
Weight: 11.9 pounds
I/O: TRS/XLR inputs; Speakon outs.
Networking: USB port for remote access to DSP functions.
DSP: Delay, crossover, 8-band parametric & 2-band dynamic EQ, peak limiter.
MSRP: \$749
behringer.com

Crest Audio Pro-LITE Series



Top Model: Pro-LITE 2.0 DSP
Class: Class-D
Channels: 2
Power/channel: 540 Watts @ 4 ohms
Bridgeable: Yes
Dimensions (HxWxD): 3.5 x 19 x 10.5”
Weight: 11.6 pounds
I/O: TRS/XLR inputs; Speakon outs.
Networking: USB port for external DSP access.
DSP: Delay, parametric EQ, limiters, crossovers, high-pass filter, HF driver EQ, Waves MaxxBass harmonic enhancer.
MSRP: \$699
crestaudio.com

Peavey IPR Series



Top Model: IPR² 7500-DSP
Class: Class-D
Channels: 2
Power/channel: 2,020 Watts @ 4 ohms
Bridgeable: Yes
Dimensions (HxWxD): 3.5 x 19 x 17”
Weight: 14.6 pounds
I/O: TRS/XLR inputs; Speakon outs.
Networking: No
DSP: Delay, parametric EQ, crossovers, high-pass filter, limiter, HF driver EQ, Waves MaxxBass harmonic enhancer.
MSRP: \$1,299
peavey.com

Powersoft K Series



Top Model: K20
Class: Class-D
Channels: 2
Power/channel: 5,200 Watts @ 4 ohms
Bridgeable: Yes
Dimensions (HxWxD): 1.75 x 19 x 18.7”
Weight: 26.5 pounds
I/O: XLR inputs (analog and AES3 digital); Speakon outs.
Networking: RS-485 interface; Ethernet option and control/monitoring via Armonia Pro Audio Suite software.
DSP: DSP option adds power and peak limiters, delays, crossovers, high-pass filters, bandpass filters, input/output EQs.
MSRP: \$9,070
powersoft-audio.com

Crown I-Tech Series



Top Model: I-Tech 4x3500HD
Class: Class-I (BCA)
Channels: 4
Power/channel: 2,400 Watts @ 4 ohms
Bridgeable: Yes; four into two channels.
Dimensions (HxWxD): 3.5 x 19 x 17”
Weight: 29 pounds
I/O: XLR inputs (analog and AES); Speakon or binding post outs.
Networking: CobraNet, HiQnet and Ethernet; USB for preset loading
DSP: Onboard 24-bit/192 kHz BSS OmniDriveHD™ DSP, Sweep Load Monitoring and system diagnostics.
MSRP: \$12,350
crownaudio.com

Electro-Voice TG Series



Top Model: TG7
Class: Class-H
Channels: 2
Power/channel: 2,500 Watts @ 4 ohms
Bridgeable: Yes
Dimensions (HxWxD): 3.5 x 19 x 20”
Weight: 32 pounds
I/O: XLR inputs; binding post and Speakon outs.
Networking: Optional
DSP: Optional RCM-26 IRIS-Net DSP and control module.
MSRP: \$5,371
electrovoice.com

QSC PLD Series



Top Model: PLD 4.5
Class: Class-D
Channels: 4
Power/channel: 1,250 Watts @ 4 ohms
Bridgeable: Yes, four into two or one channel.
Dimensions (HxWxD): 3.5 x 19 x 16”
Weight: 22 pounds
I/O: XLR inputs; Speakon outs.
Networking: USB port for (Mac/PC) Amplifier Navigator software.
DSP: RMS and peak limiters, crossovers, parametric EQ, filters, delays and Intrinsic Correction™ for speaker array/horn non-linearity compensation.
MSRP: \$2,933
qsc.com

Yamaha TXn Series



Top Model: TX6n
Class: Proprietary EEEngine
Channels: 2
Power/channel: 2,750 Watts @ 4 ohms
Bridgeable: Yes
Dimensions (HxWxD): 3.5 x 19 x 18.15”
Weight: 35.3 pounds
I/O: XLR analog (AES optional); Speakon and binding post outs.
Networking: RJ-45 port; optional EtherSound and CobraNet cards.
DSP: Limiters, crossovers, delays, input and output parametric EQs, filters, horn compensation EQ.
MSRP: \$4,839
yamahaproaudio.com