

7XL

HIGH-PERFORMANCE 700 WATTS PER CHANNEL AMPLIFIER WITH INTEGRATED DSP



THE IDEAL SOLUTION FOR OUTDOOR AUDIO AMPLIFICATION

700 WATTS PER CHANNEL POWER AMPLIFIER WITH INTEGRATED DSP

The **NEAR 7XL** Power Amplifier was carefully designed and optimized expressly to suit high-performance outdoor audio systems. It is a highly flexible digital 2-channel amplifier that delivers 700 watts per channel into 4/8 Ohms and 70/100 Volts.

The 7XL's unique array of digital features allows integrators to configure it for any combination of outdoor speakers and subwoofers. Beyond its amplification power, the 7XL allows any input to be routed to any output. Inputs A or B (or A+B) can be routed to either Amplifier Output A or B or Line Output.

The 7XL uses a direct-drive, transformer-less design for maximum damping factor and precise bass control. Two separate Class-D power amplifier modules, each with its own dedicated PFC/Switched-Mode power supply, are crafted onto one chassis in a unique dual-mono configuration,

allowing each channel to operate independently in low-impedance mode (4/8 Ohms) or high-impedance mode (70V/100V distributed).

Considering its complex design, the 7XL is remarkably easy to set up and use. NEAR has thoughtfully programmed-in up to 16 DSP presets, perfectly crossed-over, equalized and power limited for the most common combinations of NEAR speakers. These are easily accessed and set via front-panel control. More advanced users can access the full array of DSP features through a GUI (Graphic User Interface) by using a laptop with the supplied Ethernet cable.

The 7XL Power Amplifier will be available later this year. For more information, please contact **NEAR** today at (855) 350-6327 or visit our website at www.nearspeakers.com.

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FEATURES

- High power output: 2 x 700W @ 4/8 ohms or 70V/100V
- Universal power: Two Switched-Mode power supplies with active PFC (Power Factor Correction) and wide range input
- Class D amplifier output stages with efficiency up to 90%
- Protection: Self-limiting and shutdown protection circuitry including Clip, Over-current, Over/Under voltage, Output DC and Over-temperature
- Line output circuit for use in driving additional power amplifiers or as other line level devices
- Excellent sonic performance with 24bit high-end converters coupled with 48kHz/24-bit DSP sample rate
- Very low-noise, highly efficient fan cooling system
- NEAR custom DSP engine:
 - 5 band parametric equalization per input channel
 - 7 band parametric equalization per output channel
 - Each band can be switched to Bell, Low/High Shelving, Low/High-Pass and Notch filtering
- Crossover filters with slopes from 6dB/Octave up to 48dB/Octave including Butterworth, Bessel, Linkwitz-Riley types
- Each input features an adjustable RMS Compressor, including variable ratio and knee. Each output features a variable Peak Limiter.
- Adjustable Delay time up to 960ms for every input and up to 540ms for every output channel
- Ethernet interface connection for system setup, monitoring and control via intuitive GUI for the integrator/user
- Storage for 16 pre-sets for system configurations
- Front panel interactive LCD display for local access and configuration via encoder and button
- Flexible transformer-less output Speaker Drive mode settings for low-impedance or high-impedance applications

SPECIFICATIONS

POWER & AMPLIFIER

Number of Channels.....	2
Dynamic Power (6dB Crest Factor).....	2 x 700W
Output Circuitry.....	Class D
THD @ Rated power 4 ohms (1kHz).....	0.02% (1W), 0.05% (60W), 0.08% (100W)
S/N Ratio (20K BW).....	104dB ref. 70V, full power
Frequency Response.....	20Hz – 20kHz, -1.5dB (1W, 4 ohm to 8 ohm load)
Damping Factor.....	>120 (4 ohms/1kHz input signal)
Power Supplies.....	2 independent Switched-Mode power supplies with PFC (Power Factor Correction)
Operating Range.....	100-240 VAC (50Hz/60Hz)
Consumption/Current draw @ 230VAC.....	51W/0.55A /170 BTU/hr (idle); 11.8W/0.15A /40 BTU/hr (standby)
Protections.....	Clip, Over-Current, Over/Under Voltage, Output DC and Over-Temperature
Analog Input.....	2 x XLR electronically balanced, 2 x RCA Unbalanced
Analog Output.....	2 x Amplifier BTL, 1 x XLR electronically balanced, 1 x RCA unbalanced

GENERAL

Dimensions.....	19" W x 3.5" H x 15-1/2" D (483mm x 89mm x 394mm) - 2RU
Weight, Net/Shipping.....	20 lbs. (9 Kg) / 30 lbs. (13.6 Kg)

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