





- 1 Rack Fits All
- Optimum flexibility
- Universal platform
- Dante, AES3 and Analog inputs
- 4U Customized Rack

OVERVIEW

NEXT-proaudio has developed a unified rack solution N-RAK, designed for optimum performance flexibility and setup simplicity. The new rack was configured to interface seamlessly allowing multiple configurations for the entire NEXT-proaudio's product range. Consisting in a family of 5 different models, N-RAK 6, N-RAK 12, N-RAK 20, N-RAK40, N-RAK80, all the N-RAKS are equipped with Powersoft amplifiers, featuring DanteTM audio networking functionality (optionally on N-RAK20, N-RAK40, N-RAK80).

N-RAK was created as a universal platform developed to facilitate cross-rental between NEXT-proaudio's Users worldwide and to ensure compatibility with the cabling standard of the systems.

The N-RAK has Dante (optional on models 20, 40 and 80), AES3 and Analog inputs for multiple connections, making the setup process greatly simplified and much more efficient than the former LA Rack. With the Powersoft amplifiers already built in and no assembly required, it's an easy-to-configure, all-in-one amplifier solution that eliminates the process of building amp racks. The N-RAK touring rack offers an advanced rack solution for all NEXTproaudio' systems covering signal and power distribution in a plug-and-play touring package.

The N-RAK versatility extends to delivery as well, since its dimensions were projected to allow easy shipment on European trucks, sea containers and other transportation modes.

The fully equipped N-RAK module comprises a 4U

Customized rack with 2 Powersoft T604 (N-RAK12) or 1 Powersoft T604 (N-RAK6) or a 6U Customized Rack with 2 Powersoft X8 (N-RAK80) or 1 Powersoft X8 (N-RAK40) or 1 Powersoft X4 (N-RAK20); 2U Audio Distribution Panel in the front; and 2U Power Distribution Panel in the back.

TECHNICAL SPECIFICATIONS

Frequency Response: 20Hz - 20kHz (±0.5dB) @ 1W, 8 Signal to Noise Ratio: >110dB (20Hz - 20kHz, A weighted) Crosstalk: -70dB @ 1kHz General 8 Number of Channels: 8 AC Main Power 5 Single Channel Mode (2): 8 x 1250W Single Channel Mode (4): 8 x 1500W Single Channel Mode (8): 8 x 1500W Bridge Mode (8): 4 x 3000W Bridge Mode (8): 4 x 3000W Max Output Voltage / Current: 145Vpeak / 50Apeak Thermal Power Supply: Power Supply: Universal, regulated switch mode Operating Voltage: 90V - 264V Audio 110-14. THD+N: <0.1% (typical < 0.5%) IMD: <0.1% (typical < 0.5%) IMD: <0.1% (typical < 0.5%) Input Impedance: 20k balanced Damping Factor: >5000 @ 8, 20Hz - 500Hz DSP Input Equalizer: Initers: TruePower™, RMS voltage, RMS current, Peak imiter Construction Environ Dimensions (WxHxD): 600mm x 530mm x 800mm <th>Audio Performance</th> <th></th>	Audio Performance	
Crosstalk: -70dB @ 1kHz General Number of Channels: 8 AC Main Power Single Channel Mode (2): 8 × 1250W Single Channel Mode (2): 8 × 1250W Single Channel Mode (4): 8 × 1500W Single Channel Mode (8): 8 × 1500W Bridge Mode (4): 4 × 3000W Bridge Mode (8): 4 × 3000W Max Output Voltage / Current: 145Vpeak / 50Apeak Thermal Power Supply: Power Supply: Universal, regulated switch mode Operating Voltage: 90V - 264V Audio THD+N: THD+N: <0.1% (typical < 0.5%)	Frequency Response:	20Hz - 20kHz (±0.5dB) @ 1W, 8
General Number of Channels: 8 AC Main Power Single Channel Mode (2): 8 x 1250W Single Channel Mode (4): 8 x 1500W Single Channel Mode (8): 8 x 1500W Bridge Mode (4): 4 x 3000W Bridge Mode (8): 4 x 3000W Bridge Mode (8): 4 x 3000W Max Output Voltage / Current: 145Vpeak / 50Apeak Thermal Power Supply: Power Supply: Universal, regulated switch mode Operating Voltage: 90V - 264V Audio THD+N: THD+N: <0.1% (typical < 0.5%)	Signal to Noise Ratio:	>110dB (20Hz - 20kHz, A weighted)
Number of Channels: 8 AC Main Power Single Channel Mode (2): 8 × 1250W Single Channel Mode (4): 8 × 1500W Single Channel Mode (8): 8 × 1500W Bridge Mode (4): 4 × 3000W Bridge Mode (8): 4 × 3000W Bridge Mode (8): 4 × 3000W Max Output Voltage / Current: 145Vpeak / 50Apeak Thermal Power Supply: Power Supply: Universal, regulated switch mode Operating Voltage: 90V - 264V Audio THD+N: THD+N: <0.1% (typical < 0.5%)	Crosstalk:	-70dB @ 1kHz
AC Main Power Single Channel Mode (2): Single Channel Mode (4): Single Channel Mode (4): Single Channel Mode (8): Single Channel Mode (9): Single	General	
Single Channel Mode (2):8 × 1250WSingle Channel Mode (4):8 × 1500WSingle Channel Mode (8):8 × 1500WBridge Mode (4):4 × 3000WBridge Mode (8):4 × 3000WMax Output Voltage / Current:145Vpeak / 50ApeakThermalPower Supply:Universal, regulated switch modeOperating Voltage:90V - 264VAudio1100000000000000000000000000000000000	Number of Channels:	8
Single Channel Mode (4): 8 × 1500W Single Channel Mode (8): 8 × 1500W Bridge Mode (4): 4 × 3000W Bridge Mode (8): 4 × 3000W Max Output Voltage / Current: 145Vpeak / 50Apeak Thermal Power Supply: Power Supply: Universal, regulated switch mode Operating Voltage: 90V - 264V Audio THD+N: THD+N: <0.1% (typical < 0.5%)	AC Main Power	
Single Channel Mode (8): 8 x 1500W Bridge Mode (4): 4 x 3000W Bridge Mode (8): 4 x 3000W Max Output Voltage / Current: 145Vpeak / 50Apeak Thermal Power Supply: Power Supply: Universal, regulated switch mode Operating Voltage: 90V - 264V Audio THD+N: THD+N: <0.1% (typical < 0.5%)	Single Channel Mode (2):	8 x 1250W
Bridge Mode (4): 4 x 3000W Bridge Mode (8): 4 x 3000W Max Output Voltage / Current: 145Vpeak / 50Apeak Thermal Power Supply: Power Supply: Universal, regulated switch mode Operating Voltage: 90V - 264V Audio THD+N: <0.1% (typical < 0.5%)	Single Channel Mode (4):	8 x 1500W
Bridge Mode (8): 4 x 3000W Max Output Voltage / Current: 145Vpeak / 50Apeak Thermal Power Supply: Universal, regulated switch mode Operating Voltage: 90V - 264V Audio THD+N: <0.1% (typical < 0.5%) IMD: <0.1% (typical < 0.5%) IMD: <0.1% (typical < 0.5%) IMD: <0.1% (typical < 0.5%) Input Impedance: 20k balanced Damping Factor: >5000 @ 8, 20Hz - 500Hz DSP Input Equalizer: Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass Limiters: TruePower™, RMS voltage, RMS current, Peak limiter	Single Channel Mode (8):	8 x 1500W
Max Output Voltage / Current: 145Vpeak / 50Apeak Thermal Power Supply: Universal, regulated switch mode Operating Voltage: 90V - 264V Audio 4udio THD+N: <0.1% (typical < 0.5%)	Bridge Mode (4):	4 x 3000W
Thermal Power Supply: Universal, regulated switch mode Operating Voltage: 90V - 264V Audio THD+N: <0.1% (typical < 0.5%)	Bridge Mode (8):	4 x 3000W
Power Supply: Universal, regulated switch mode Operating Voltage: 90V - 264V Audio THD+N: THD+N: <0.1% (typical < 0.5%)	Max Output Voltage / Current:	145Vpeak / 50Apeak
Operating Voltage: 90V - 264V Audio 7HD+N: THD+N: <0.1% (typical < 0.5%)	Thermal	
Audio THD+N: <0.1% (typical < 0.5%)	Power Supply:	Universal, regulated switch mode
THD+N: <0.1% (typical < 0.5%)	Operating Voltage:	90\/ - 264\/
IMD: <0.1% (typical < 0.5%)		900 - 2040
Input Impedance: 20k balanced Damping Factor: >5000 @ 8, 20Hz - 500Hz DSP Input Equalizer: Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass Limiters: TruePower™, RMS voltage, RMS current, Peak limiter Construction		300 - 2040
Damping Factor: >5000 @ 8, 20Hz - 500Hz DSP Input Equalizer: Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass Limiters: TruePower™, RMS voltage, RMS current, Peak limiter Construction	Audio	
DSP Input Equalizer: Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass Limiters: TruePower™, RMS voltage, RMS current, Peak limiter Construction	Audio THD+N:	<0.1% (typical < 0.5%)
Input Equalizer: Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass Limiters: TruePower™, RMS voltage, RMS current, Peak limiter Construction Construction	Audio THD+N: IMD:	<0.1% (typical < 0.5%) <0.1% (typical < 0.5%)
peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass Limiters: TruePower™, RMS voltage, RMS current, Peak limiter Construction	Audio THD+N: IMD: Input Impedance:	<0.1% (typical < 0.5%) <0.1% (typical < 0.5%) 20k balanced
Peak limiter Construction	Audio THD+N: IMD: Input Impedance: Damping Factor:	<0.1% (typical < 0.5%) <0.1% (typical < 0.5%) 20k balanced
	Audio THD+N: IMD: Input Impedance: Damping Factor: DSP	<0.1% (typical < 0.5%) <0.1% (typical < 0.5%) 20k balanced >5000 @ 8, 20Hz - 500Hz Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass,
Dimensions (WxHxD): 600mm x 530mm x 800mm	Audio THD+N: IMD: Input Impedance: Damping Factor: DSP Input Equalizer:	<0.1% (typical < 0.5%) <0.1% (typical < 0.5%) 20k balanced >5000 @ 8, 20Hz - 500Hz Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass TruePower™, RMS voltage, RMS current,
	Audio THD+N: IMD: Input Impedance: Damping Factor: DSP Input Equalizer: Limiters:	<0.1% (typical < 0.5%) <0.1% (typical < 0.5%) 20k balanced >5000 @ 8, 20Hz - 500Hz Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass TruePower™, RMS voltage, RMS current,