



## DIGITAL TD CONTROLLER NXAMP4x4

### NXAMP4x4

#### Powered TD controllers

Ultra flexible true four channels digital processing and amplification solution offering a perfect match to any NEXO speakers.

#### NXAMP4x4 mains features

- Among the industry's most powerful four channels amplifiers.
- Cost effective integration of command, control, protection and amplification of all NEXO speakers systems.
- Lighter and requires less rack space than conventional amplifier-processor systems.
- Eliminates unnecessary A/D conversion.
- Optional Dante™ and Ethersound™ network cards.

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#### Sophisticated interleaved

NXAMP technology is far more complex than a bundled power amplifier and loudspeaker controller. Significant DSP innovations allows multiple digital sense lines to protect at the same time the amplifier and the connected speakers.

#### Power Supplies : The sinews of war

First the NXAMP4x4 uses a unique dual mains cord, feeding the power supplies with nearly twice the power than most audio amplifiers today, still being extremely easy to connect to any mono or multiple phases mains.

To absorb this enormous quantity of current the NXAMP4x4 reveals four independent high power full resonant power supplies working in opposite phase, thus cancelling noise and lowering EMC.

#### Clean and Cool EEEngine

NXAMP4x4 uses a ferocious custom components based power amplifier design, the ultimate evolution of the Yamaha's EEEngine technology, offering the sonic purity of conventional class AB but a heat dissipation equaling the class D.

#### NXstream Technology on the road

Not only the two dual-core DSPs are taking care of the amplifier protection and optimization, but they also redefine the processing standard of NEXO proprietary loudspeaker management technology to a higher sonic performance and reliability level.

#### Full-featured firmware

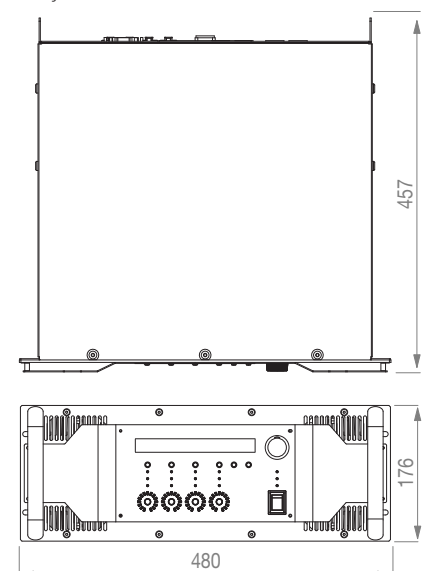
With useful features such as full computerless front panel operation, on the fly independent loudspeaker per output selection or load monitoring trough

GPIO or Ethersound™ network for safety installation, the ruggedized NXAMP4x4 is an ideal partner in all situation.

#### Part of the NXAMP Universal Rack



Together with the DPU (Digital Patching Unit) and the DMU (Digital Meters Unit), the NXAMP4x4 is part of the NXAMP Universal Rack, the interchangeable standard of power amplifiers for Nexo systems.



# NXAMP4x4

## Data Sheet

# NEXO

### DIGITAL TD CONTROLLER NXAMP4x4

NEXO is one of the world's leading sound reinforcement loudspeaker manufacturers. Founded in 1979, the company is dedicated to crafting practical solutions with solid engineering. Each new design begins with a proprietary sophisticated computer simulation process that allows every parameter to be extensively modeled and simulated, leading to breakthrough cost and performance gains. NEXO's comprehensive product line includes loudspeakers, analogue and digital control electronics and amplification; all designed to deliver consistent sound quality and long term reliability for a broad range of applications.

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#### POWER SPECIFICATIONS FOR NXAMP4x4

Number of channels	4x amplifiers channels, 2 by 2 bridgeable
Max. output voltage (no load)	4x 200 Volts
Max. output power (4 channels mode /8 Ohms load per channel)	4x 1900 Watts
Max. output power (4 channels mode /4 Ohms load per channel)	4x 3300 Watts
Max. output power (4 channels mode /2 Ohms load per channel)	4x 4000 Watts
Max. output power (2 channels mode /8 Ohms load per channel)	2x 6800 Watts
Max. output power (2 channels mode /4 Ohms load per channel)	2x 8000 Watts
Power consumption (Standby)	20 Watts
Power consumption (Idle)	120 Watts

#### INPUT TO POWER OUT SPECIFICATIONS

Frequency response	+0.5 dB from 10 Hz to 20 KHz
Input impedance / Max. level	20 K $\Omega$ / +28 dBu
Dynamic range / TDH + N	105 dB unweighted / Typical 0.1% on a flat setup
Latency	500 us on a flat setup
A to D Converters	Audio and current/voltage sense lines : 24 bits @ 48 KHz
Processing	Two dual-core 24 bits fixed point DSP with 56 bits accumulator

#### BACK PANEL FEATURES

Analog audio inputs	4x balanced analogue inputs on XLR3 with a second XLR3 for link
Power outputs	4x Neutrik Speakon NL-4 outputs
RS232 port	1x DB-9 connector for firmware upgrade and accessories connection
GPIO port	1x DB-25 connector with 5x Global Purpose Inputs and 8x Global Purpose Outputs
Expansion slot	For networking audio cards, 4x digital audio inputs and remote control
Mains sockets	2x Neutrik Powercon NAC3 (2x 16 A) or NAC3-HC (2x 32 A) depending on model

#### USER INTERFACE AND CONTROLS

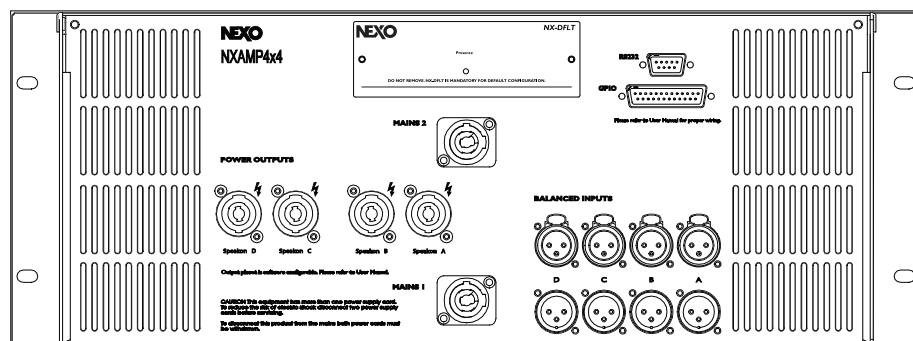
Front panel buttons and knobs	On/Off Mains switch, Select Wheel, 2x Menu buttons, 4x Select and 4x Mute buttons
Display	40 characters by 2 lines LCD display with LED backlight.
Global status display	Power, Standby and Amp Protect LEDs.
Speakers/Amp status display	Per channel, output current sensing, speaker protection and channel soft clip.

#### DIMENSIONS AND CERTIFICATIONS

Dimensions	4U 19" Rack - 457 mm (18") Depth
Weight	24.5 Kg (49 lbs) net
Electrical Safety Certification	cULus, CB (CE)
EMC Certification	CE, FCC
Green status	Compliant with ROHS directive

#### ORDERING INFORMATION

NXAMP4x4 (for 110/120 V mains)	NX.AMP4x4U	(1 x NXAMP4x4U, 1 x Quick Start, 2 x US power cords)
NXAMP4x4 (for 220/240 V mains)	NX.AMP4x4C	(1 x NXAMP4x4C, 1 x Quick Start, 2 x CH power cords)
NXAMP4x4 (dual voltage mains)	NX.AMP4x4W	(1 x NXAMP4x4W, 1 x Quick Start)
NXAMP4x4 handles kit	NX.AMP4x4-HAND	(2 x NXAMP4x4 handles w screws)



#### LIMITED WARRANTY

NEXO loudspeakers and electronics are covered against defects in workmanship or materials for a period of two (2) years from the original date of purchase. At the option of NEXO the defective item will be repaired/replaced with no charge for materials/labour. The item is to be adequately packaged and dispatched, pre-paid, to a NEXO authorised distributor/service centre. Unauthorised repair shall void the warranty. The NEXO warranty does not cover cosmetics or finish and does not apply to any items which in NEXO's opinion have failed due to used abuse, accidents, modifications or any type of misuse. All images and text herein are the property of NEXO SA, and deemed accurate, although specifications are subject to change without notice.