



Powered TD Controller for all NEXO Speaker Series.

The latest generation of firmware for the acclaimed range of NXAMPs introduces new key functionalities, support for a new extension board and the latest version of NEMO, the proprietary iPad-based remote control solution.

NXAMP main features

- Nexo's proprietary speaker processor technology matched with the most powerful power amplifier ever developed by Yamaha.
- Two models (NXAMP4x1 and NXAMP4x4) support the entire range of NEXO Speaker Series.
- Extended connectivity and remote control through its expansion slot, including Ethersound™ networks, Dante™ networks and now AES/EBU.
- Unique hardware accessories : the Digital Meter Unit (DMU) and Digital Patching Unit (DPU).
- iPad based remote control solution for both touring and fixed installation needs.

NEXO
www.nexo.fr

Since its introduction in 2007, the NXAMP has continuously evolved, with both new firmware releases and new accessories to meet the growing demand from the market.

Flexible Inputs system

The NXAMP is a true four inputs / four outputs system, offering several digital input options (with analog fallback) through its expansion slot.

The NXES104 (Ethersound™ card for NXAMP) was the first extension card released, still popular today, mainly in critical applications like evacuation systems, which draw on Nexo's experience with stadium networks.

The NXDT104 (Dante™ card for NXAMP) was released to coincide with Yamaha's delivery of native-speaking Dante™ consoles, allowing all audio system parts (console, stagebox, amplifiers) to be connected on the same network.

Today the NXAE104 (AES/EBU card for NXAMP) offers connectivity to the most universal digital audio links on audio equipment, at a competitive price.

The card continues to offer state-of-the-art characteristics, with sample rate converters (44.1 to 96 KHz) on both AES inputs, AES out link with buffer and hardware bypass, plus 2 x ports switches for easy daisy-chaining of ethernet-based remote control between amplifiers.

State-of-the-Art signal processing

The NXAMP is in line with Nexo's 20-year-old history of advanced signal processing; it is the latest in a range of proprietary Digital TDcontrollers (NX241, NX242, NX242ES4,...).

One of the unique features of the NXAMP is the Matched Linear Acoustic Phase. All Nexo cabinets supported by the NXAMP will share the same acoustic phase, allowing Nexo speakers to be mixed and matched and the phase to stay linear from 20 to 20 KHz.

NEMO control and monitoring software

NEMO is Nexo's remote control software that can be run from any IOS device (iPod, iPhone, iPad), allowing control from anywhere in the venue.

NEMO is able to manage combinations of NXAMPs equipped with different expansion cards;

Firmware v4.0

This fourth generation of firmware for NXAMP introduces several new functionalities, principally a new User EQ (8 bands of EQ per Channel). Together with NEMO, the User EQ is a fantastic tool for tuning the system from amongst the audience.



DIGITAL TD CONTROLLER NXAMP

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 NXAMP

	NXAMP4x1	NXAMP4x4
Number of channels	4x amplifiers channels, 2 by 2 bridgeable	
Max. output voltage (no load)	4x 105 Volts	4x 200 Volts
Max. output power (4 channels mode /8 Ohms load per channel)	4x 600 Watts	4x 1900 Watts
Max. output power (4 channels mode /4 Ohms load per channel)	4x 900 Watts	4x 3300 Watts
Max. output power (4 channels mode /2 Ohms load per channel)	4x 1300 Watts	4x 4000 Watts
Max. output power (2 channels mode /8 Ohms load per channel)	2x 1800 Watts	2x 6800 Watts
Max. output power (2 channels mode /4 Ohms load per channel)	2x 2600 Watts	2x 8000 Watts
Power consumption (Standby)	10 Watts	20 Watts
Power consumption (Idle)	100 Watts	150 Watts

INPUT TO POWER OUT SPECIFICATIONS

Frequency response	+0.5 dB from 10 Hz to 20 KHz
Input impedance / Max. level	20 K Ω / +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 / 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 Menus 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	3U 19" Rack	4U 19" Rack
Depth	457 mm (18")	457 mm (18")
Weight	16.5 Kg (36 lbs)	24.5 Kg (54 lbs)
Electrical safety certification	cULus, CB (CE)	
EMC certification	CE, FCC	
Green status	Compliant with ROHS directive	

EXTENSION CARDS SPECIFICATIONS

	NXES104	NXDT104	NXAE104
Audio format	Ethersound™	Dante™	AES/EBU
Remote control	Ethersound™ based	IP (UDP) based	IP (UDP) based
Number of input channels	4	4	4
Resolution / Sample rate	24 bits / 48 KHz	24 bits / 48 KHz	24 bits / 44.1 ~96
Audio Connectors	2 x Ethercon™	2 x Ethercon™	3 x XLR
Additional port	1 x RJ45	1 x RJ45	2 x RJ45
Power supply	2 W from NXAMP	3 W from NXAMP	2 W from NXAMP
Dimensions & weight	120 x 160 x 40 mm (NXAMP slot) - 200 g		
EMC certification	CE, FCC, ICES	CE, FCC	CE, FCC
Green Status	ROHS and REACH		

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 use 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.