



DIGITAL TD CONTROLLER μNXAMP4x1

4 channel Powered TD Controller, in 1U height.

The new generation of NEXO Powered TD Controllers offers high power and processing capacities in a compact case.

μNXAMP4x1 main features

- Speaker controller and four channels of power amplifier.
- Four high-end Balanced Analog inputs and four Dante™ or AES67 input.
- Four channel high-efficiency Class-D amplifiers , 4 x 1000 Watts/4 ohms.
- Universal Power Supply (100~240 Volts) using PFC technology for best efficiency and smooth current drawn.
- Color LCD display gives essential information while the native ethernet port offers seamless integration with NeMo remote control software.

The μNXAMP4x1 combines advanced signal processing, inherited from our flagship NXAMPmk2, coupled with a state-of-the-art four channel Class-D amplifiers, a robust universal power supply with PFC and a native Dante™ connectivity.

Road proof Power Supply

With its continuous usable mains voltage range from 100 to 240 Volts, the μNXAMP4x1 can be used worldwide and run on all kinds of power generator. Its power supply uses a PFC (Power Factor Correction) technology, ensuring that the efficiency of the power conversion is always at its best, while the current drawn is smoothed and spike-free to limit the stress on the mains network.

Flexible audio input system

The μNXAMP4x1 has four high-end analog inputs and four Dante™ or AES67 network audio inputs, all with an automatic analog fallback possibility. Routing from inputs to processing channels is setup from our remote control software NeMo.

Extended computing capacities

With its two multicore DSPs inherited from the NXAMPmk2, the μNXAMP4x1 is ready for years of new algorithms and compatibility with the latest generation software.

Flexible Class-D amplifier design

The four high-efficiency Class-D amplifiers channels can be bridged in serial (which is the classic "bridge" mode of power amplifiers) but also in parallel (to support lower output impedance) or both (tiling the four channels into a unique massive 4000 Watts output). The various mode are configurable from the software and does not need external adaptors.

User Interface and remote software

Essential information (like level meters, IP address,...) are clearly displayed on the display, while NeMo remote control software makes all DSP parameters easy to monitor or to set-up.

Touring and Installation versions

Based on the same platform the μNXAMP4x1 is available either with Touring or with Installation connectors.

The Touring version uses the industry standard XLR connectors for each analog input and speakON 4 connectors for each power amplifier output.



Back panel of the μNXAMP4x1-T (Touring version)

The install version uses WAGO connectors (3.5 mm pitch for the input / 7.6 mm pitch for the output) with lateral locking levers and Push-in CAGE CLAMP® toolless connection.



Back panel of the μNXAMP4x1-I (Install version)

Optimized stand-by mode

The power consumption of the μNXAMP4x1 in stand-by mode reaches the exigence of the ENERGY STAR certification while offering several wake-up mode from network command to audio level detection or front panel button press.

This ensure that the stand-by power consumption is precisely tailored to the specific need of each use case.

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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 μNXAMP4x1

Number of channels	4x channels, 2x channels or 1x channel
Max. output voltage (no load)	4x 135 Volts
Max. output power (4 channels mode /8 Ohms load per channel)	4x 750 Watts
Max. output power (4 channels mode /4 Ohms load per channel)	4x 1000 Watts
Max. output power (4 channels mode /2 Ohms load per channel)	4x 750 Watts
Max. output power (2 channels bridge mode /8 Ohms load per channel)	2x 2000 Watts
Max. output power (2 channels bridge mode /4 Ohms load per channel)	2x 1500 Watts
Max. output power (2 channels parallel mode /8 Ohms load per channel)	2x 800 Watts
Max. output power (2 channels parallel mode /4 Ohms load per channel)	2x 1500 Watts
Max. output power (2 channels parallel mode /2 Ohms load per channel)	2x 2000 Watts
Max. output power (1 channel bridge parallel mode /8 Ohms load)	1x 3000 Watts
Max. output power (1 channel bridge parallel mode /4 Ohms load)	1x 4000 Watts
Max. output power (1 channel bridge parallel mode /2 Ohms load)	1x 3000 Watts
Power consumption (Standby)	5 Watts
Power consumption (Idle)	20 Watts

INPUT TO POWER OUT SPECIFICATIONS

Frequency response	+/-1 dB from 10 Hz to 20 kHz
Input impedance / Input Sensitivity	20 KΩ / +13 dBu
Dynamic range / TDH + N	110 dB unweighted / Typical 0.01% on a flat setup
Latency	580 us on a flat setup
Audio AD and DA Converters	24 bits @ 96 kHz
Processing	2 x multicore 64 bits processing DSPs

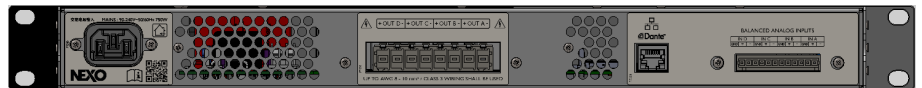
BACK PANEL FEATURES (TOURING VERSION)

Analog audio inputs	4x balanced analogue inputs on XLR3
Digital audio inputs	4x DANTE™ inputs from the remote control RJ45 port
Power outputs	4x Neutrik Speakon NL-4 outputs
Remote control	1x Ethernet 100 Mb on RJ45 connector
Mains sockets	1x IEC C13 with lockable power cord



BACK PANEL FEATURES (INSTALL VERSION)

Analog audio inputs	4x balanced analogue inputs on WAGO 2734-1112 with Push-in CAGE CLAMP®
Digital audio inputs	4x DANTE™ inputs from the remote control RJ45 port
Power outputs	4x outputs on WAGO 831-1108 with Push-in CAGE CLAMP® (up to 10 mm² cable)
Remote control	1x Ethernet 100 Mb on RJ45 connector
Mains sockets	1x IEC C13 with lockable power cord



USER INTERFACE

Front panel buttons and knobs	One stand-by power switch with led ring
Display	1.8 inches diagonal color TFT display, resolution 128 x 160

MAINS REQUIREMENTS

Mains voltage	Universal Power Supply with Active PFC 100 - 240 Volts (50/60 Hz)
Power consumption 1/4 max. 2 Ohms	1200 Watts

DIMENSIONS AND CERTIFICATIONS

Dimensions	1U 19" Rack, 502 mm (20") depth, 10 kg (22 lbs)
Electrical safety certification	cETLus, CB (CE), CCC, PSE, KC
EMC certification	CE, FCC
Green status	Compliant with ROHS & REACH directive

*Various Stand-by mode can be configured to minimize power consumption depending on use case.

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/labor. The item is to be adequately packaged and dispatched, pre-paid, to a NEXO authorized distributor/service center. Unauthorized 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.