

Digital Inputs extension card for NXAMPmk2

The NXAEDT adds both AES/EBU and Dante™ inputs to NXAMPmk2 Powered Controllers.

NXAEDT main features

- 4 channels of Dante™ inputs with Switched/Redundant mode and 44.1 kHz to 96 kHz digital audio support.
- 2 channels of AES/EBU inputs with buffered outputs and 44.1 kHz to 96 kHz digital audio support.
- Highly flexible 4 ports gigabit switch with 4 different configuration modes.
- Remote control ports configurable as separate network or from the Dante™ network.

This extension card is compatible with NXAMPmk2 Powered Digital controllers NEXO.

State-of-the-art Dante™ connectivity

The heart of the NXAEDT is its network connectivity compatible with the industry standard Dante™ digital audio over IP network protocol.

The NXAEDT can receive up to four different network streams from the same or different Dante™ sources, using 24 bits resolution. The Dante™ network sampling frequency can be 44.1, 48, 88.2 or 96 kHz for maximum compatibility.

Both Switched mode and Redundant mode are supported.

AES/EBU with buffered output

AES/EBU digital audio format is also widely use in the professional industry, and the NXAEDT accepts this format as well.

Thus the NXAMPmk2 fitted with an NXAEDT can use Analog, AES/EBU or Dante™ inputs. Advanced fallback mode setup allows to automatically switch from one kind of input to the other depending on the status of the digital input.

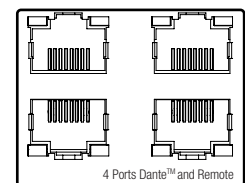
The AES/EBU input can receive a stereo signal with a 24 bits resolution and a 44.1, 48, 88.2 or 96 kHz sampling frequency.

The AES/EBU buffered output with a fail safe relay is useful for the daisy chain of several AES/EBU devices.

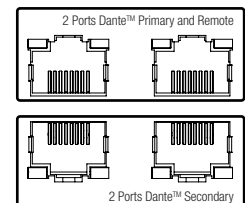
Flexible gigabit switch

The NXAEDT integrates a four ports gigabit ethernet switch that can be easily configured from the Dante™ Controller software. Four separate modes are available.

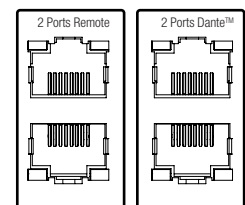
The “Switched” mode is the simplest one : The four ethernet ports are connected together.



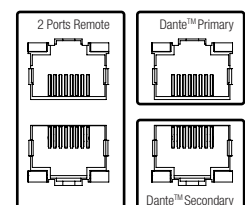
The “Redundant” mode splits the switch in two separate networks : 2 ports are connected to the primary, 2 ports are connected to the secondary.



The “Switched, Remote port isolated” offers 2 ports for the remote control of the NXAMPmk2 and 2 ports for a separate Dante™ network.



The “Redundant, Remote port isolated” offers 2 ports for the remote control of the NXAMPmk2, 1 Dante™ Primary network port, 1 Dante™ Secondary network port.



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.

DIGITAL AUDIO 1 INPUT FORMAT

Digital Audio Type	Dante™ networks
Media type	Standard TCP/IP over minimum 100 Mb / recommended 1 Gb ethernet network
Number of channels	4 Channels from up to 4 different Dante™ devices
Resolution	24 Bits
Sample Rate	44.1, 48, 88.2 Or 96 kHz
Latency	0.25 ms to 5.0 ms (typical 1 ms)

DIGITAL AUDIO 2 INPUT FORMAT

Digital Audio Type	AES/EBU
Media type	110 Ohms 3 wires twisted pair with XLR connector
Number of channels	2
Resolution	24 Bits
Sample Rate	44.1, 48, 88.2 or 96 kHz
Latency	<0.07 ms

REMOTE CONTROL FORMAT

Network format	Standard TCP/IP
Device addressing	Automatic, based on IP address with Zeroconf

FRONT PANEL FEATURES

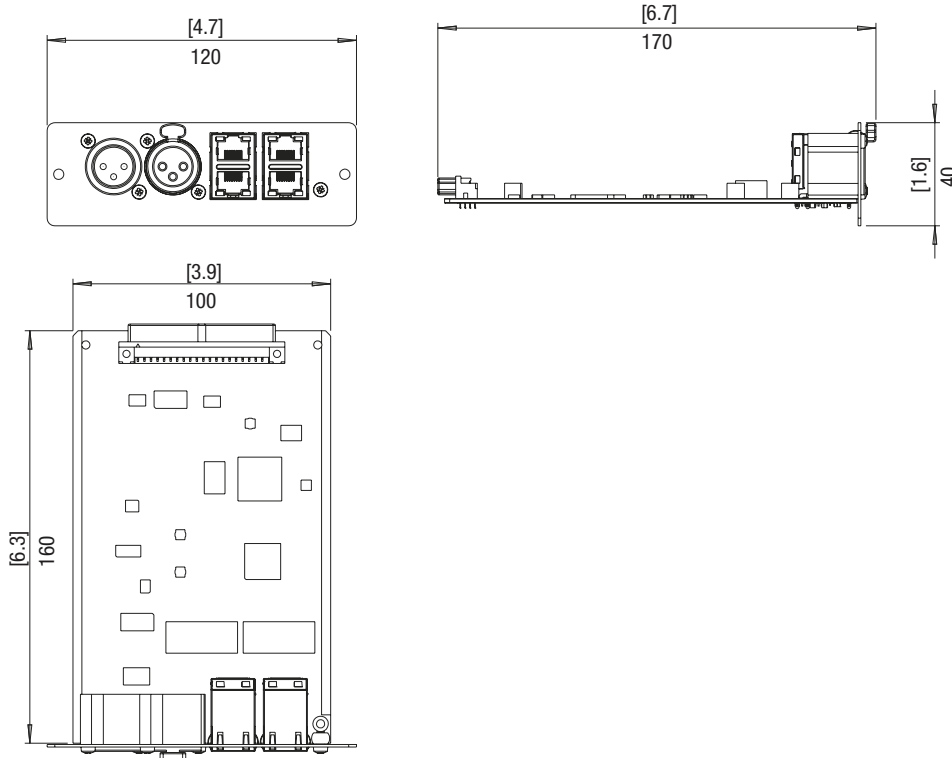
Digital audio 1 input/link connectors	4 Shielded 1 Gb RJ45 connectors
Digital audio 2 input/link connectors	1 XLR-F and 1 XLR-M buffered output with fail safe relay
LEDs on network ports	Link/Activity (Green) and Gigabit (Orange)

GENERAL SPECIFICATIONS

Height x Width x Depth (Net)	40mm x 120mm x 170mm (1.6" x 4.7" x 6.7")
Height x Width x Depth (Gross)	56mm x 166mm x 225mm (2.2" x 6.5" x 8.9")
Weight (Net)	160 g
Weight (Gross)	300 g
Operating temperature range	0° C - 40° C (32° F - 104° F)
Storage temperature range	-20° C - 60° C (-4° F - 140° F)

SYSTEM OPERATION

Compatible Host	NXAMPmk2 Powered TD Controllers
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LIMITED WARRANTY

NEXO loudspeakers and electronics are covered against defects in workmanship or materials for a period of five (5) 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, prepaid, 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.