NEO+

LDA NEO+ is a compact EN 54-16 certified PA/VA system that ensures a fast, safe and controlled emergency evacuation.

NEO+ represents a cost-effective voice evacuation and public address system due to its cutting-edge features, excellent audio quality and flexibility in just 2U: 8 class D amplifiers, 5 audio inputs, 7x8 audio matrix (1024 zones), touch screen, AES67, etc.

With the NEO Configurator software, it is possible to configure the equipment remotely and create events to perform actions in the system triggered by conditions of: input level, date & time, UDP command, GPIO or from the MPS-8Z and MPS-8Z+ microphones and the VAP-1.
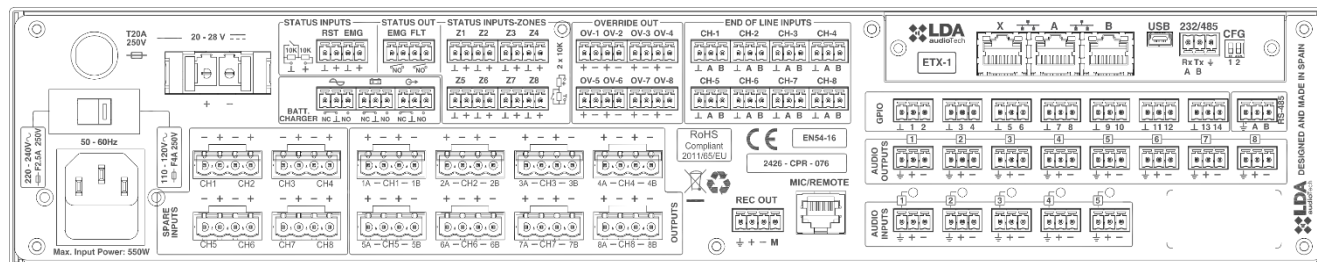
General features:
- Redundant controller.
- 5 audio inputs.
- 8 class D amplifiers for 100V/70 V lines:
  - 8 class D amplifiers of 120 W per channel.
- Audio Matrix 8x8 (up to 1024 zones).
- 8 pre-amp outputs.
- ACSI port:
  - Up to 32 ACSI devices connected with CAT5 UTP cable.
- ACSI Net:
  - Up to 128 ACSI Net devices
  - 32x128 (up to 4096 ACSI v2 devices)
  - Up to 16 simultaneous channels
- DSP: 7-band parametric input/output equalizer, loudness, LDA sound enhancer, independent volume controls per each input and output channel and audio filters.
- Triple configurable Ethernet port: FlexNet technology integrating IP Layer 3 AES67 Digital Audio, remote control and supervision, scaling the system with NEO Extensions in loop mode (up to 1024 zones and 128 devices).
- 4,3" frontal touch screen with access control.
- 4 GB of internal memory for pre-recorded messages.
- Integrated emergency microphone.
- Control for up to 32 attenuators LDA AT-6.
- Integrated frontal loudspeaker for monitoring.
- 24 GPIO ports (10 supervised for integration with fire alarm control panel).

Voice alarm/emergency features:
- EN 54-16 and EN-60849 certified.
- Detection and indication of failure in all emergency functions.
- Integration with fire alarm control panels.
- Pre-recorded evacuation messages.
- Phased evacuation.
- Manual control of emergency states with access control.
- Recording output in emergency state.
- Emergency log.
- Loudspeaker line supervision.
- A+B connection (16 lines).
- Backup amplifier connection: 7+1 (120 W channels)

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Rear view:

Technical specifications:

MODEL	NEO+
Reference	LDANEO8060S03
Power supply	110-120V / 220-240V~ 50/60 Hz
Power consumption	550 W max / 100 W at 1/8 output power
Frequency response	70 – 20.000 Hz +/-2 dB
Signal to noise ratio	>95 dB, A-weighted
Distortion factor	<0,5% -10dB
Gain adjustment per channel	-100 dB -0 dB, 1 dB steps
Dsp	Integrated. 48 kHz, 24 bits - 344 MIPS
Flexnet/ aes67	2 x FlexNet redundant (loop mode)/ Ethernet 10/100 Mbits. Female RJ-45
Audio inputs	5 x balanced audio 1 Vrms. 10 KΩ, 3 Pin, Euroblock type
Lda acsi bus	1 x balanced audio 1 Vrms. 10 KΩ, Female RJ-45, max distance 1000m / 3280,8ft @20~28V DC <400mA
Pre-amp audio outputs	8 x balanced audio 1 Vrms. 100 Ω, 3 Pin, Euroblock type
Rec. Audio / ctrl. Outputs	1 x balanced audio, 1 Vrms. 100 Ω / 0 – 5 VDC output 100 Ω, 4 Pin, Euroblock type
Att control	8 x override 24 VDC, 8 x 40 mA, 2 Pin, Euroblock type (4 pin connector)
Emergency control inputs	10 x 0 – 5 VDC, monitored inputs, 2 Pin, Euroblock type (4 pin connector)
Emergency control outputs	2 x relay contact isolated output, NO, max 60 VDC 130 mA, 2 Pin Euroblock type (4 pin connector)
General control (gpio)	14 x Control I/O, 0 - 5 V, 100 Ω, 3 Pin, Euroblock type
Virtual matrix	128 mics x 1024 zones
Amplifier	8 x 120W class D (60Wrms) 100/70 V. Min load 166 Ω/channel. Max load 840 W
Speaker outputs	16 (8 A+B class A configurable lines) x 70/100 V. 2 Pin, Euroblock type (4 pin connector)
Speaker loop input	16 (8 dual) x no voltage contact, 3 Pin, Euroblock type, for line fault detection, Isolators
Spare amplifier inputs	8 x 120 W at 70 or 100 V, 2 Pin, Euroblock Type (4 pin connector)
Protection	Over-temperature, infrasonic, short circuit, slow start-up, overload, start-up test
Emergency power input	1 x 20 - 25V DC, 20A, fused, 2 Pin, Euroblock type
Emergency power status inputs	3 x NO - NC, 3 Pin, Euroblock type
Display	TFT 480x272 4,3" with Touch Panel
Operating condition	-5 ºC to +45 ºC / 23 ºF to 113 ºF 5% to 95% Relative humidity (no condensation)
Finish	Front: Fe, Grey RAL 7016 Back: Fe, Black RAL 9005 Case: Al, Black RAL 9005
Weight	13.5 kg / 29.76 lb
Dimensions (w x h x d)	483 mm x 88 mm x 455 mm / 19" x 3.46" x 18"
Accessory	2 x rack mounting, male Euroblock connectors, installation screws, 4 x rubber foot, 1 x power cable 2 m / 6.56 ft (EU Type), 1 x Ethernet cable 2 m / 6.56 ft