

NEO+ Extension 4500L

LDA NEO+ Extension 4500L is an extension unit of the LDA NEO+ system certified according to EN 54-16.

This unit allows scaling the NEO+ system up to 4 additional zones as it includes 4 differentiated amplification channels, class D, up to 500W @4Ω per channel.

It includes a triple IP port for IP ring connection with the NEO8060+ main controller unit, AES67 digital audio communication, as well as control and supervision.

It has dual amplification outputs, for A+B or class A connection, and input for backup amplification channel configuration. Includes analogue priority audio input.

The NEO Configurator software allows to configure the equipment remotely and creates events to perform actions in the system according to the status of: input level, date and time, UDP command, GPIO or from the MPS-8Z, MPS-8Z+ microphones and VAP Series.

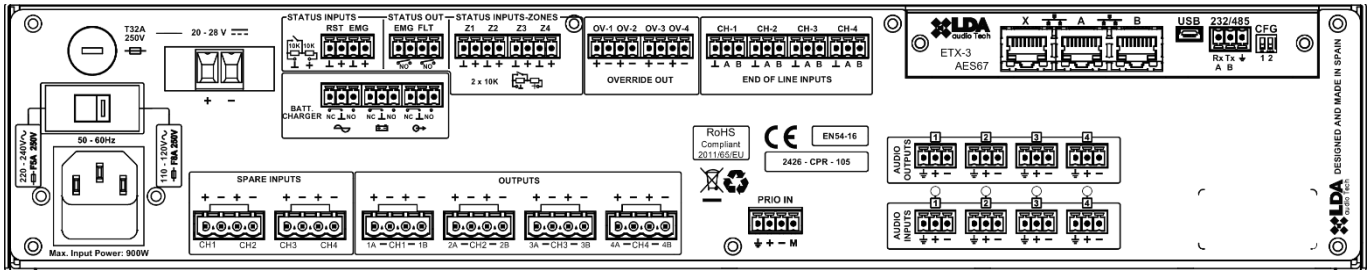
General features:

- 4 class D amplifiers up to 500W for 4Ω low impedance lines.
- 4 pre-amplified audio outputs for connection of external PA amplifiers.
- DSP: 7-band input/output parametric equalizer, loudness, LDA sound enhancer, independent volume controls for each I/O channel and audio filters.
- Triple Ethernet port: for AES67 IP Audio, remote control and supervision, and for scaling the system with NEO-Extension+ in daisy-chain mode with FlexNet technology up to 1024 zones, 128 devices.
- Control for up to 16 LDA AT6 attenuators.
- 6 contact closures supervised with the central fire alarm panel.



NEO+ Extension 4500L

Rear view:



Technical specifications:

MODEL	NEO+ EXTENSION 4500L
Reference	LDANE04500LES03
Power supply	110-120V / 220-240V~ 50/60 Hz
Power consumption	900 W max / 200 W at 1/8 output power / 40W Standby
Frequency response	40 – 20.000 Hz +/-3 dB
Signal-to-noise ratio	>100 dB TYP, A-weighted
Distortion factor	<0,1% TYP -10dBv
Gain adjustment per channel	-100 dB -0 dB, 1 dB steps
DSP	Integrated. 48 kHz, 24 bits - 344 MIPS
Flexnet/ AES67	3 x FlexNet redundant (loop mode)/ Ethernet 10/100 Mbits. Female RJ-45
Audio inputs	4 x balanced audio 1 Vrms. 10 kΩ, 3 Pin, Euroblock type
Pre-amp audio outputs	4 x balanced audio 1 Vrms. 100 Ω, 3 Pin, Euroblock type
Rec. Audio/ctrl. Outputs	1 x balanced audio, 1 Vrms. 10 KΩ / 0 – 5V DC output 10 KΩ, 4 Pin, Euroblock type
ATT control	4 x override 24 VDC, 4 x 40 mA, 2 Pin, Euroblock type (4 pin connector)
Emergency control inputs	6 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)
Amplifier	4 channels up to 500Wrms @4Ω, 4 channels up to 250Wrms @8Ω (Total max 1000Wrms) Class D. Load Min. 4Ω
Speaker outputs	8 (4 managed double lines) x 70/100 V. 2 Pin, Euroblock type (2 pin connector)
Loop inputs for loudspeakers	8 (4 double) x free voltage contact closure inputs, 3 Pin, Euroblock type.
Spare amplifier inputs	4 x 500 W @4Ω, 2 Pin, Euroblock Type (4 pin connector)
Protection	Over-temperature, DC voltage, Infrasonic, short-circuit, slow start, overload, startup check.
Emergency power input	1 x 20 - 28V DC, 32A, fused, 2 Pin, Euroblock type
Emergency power status inputs	3 x NO - NC, 3 Pin, Euroblock type
Operating condition	-5 °C to +45 °C / 23 °F to 113 °F 5% to 95% Relative humidity (no condensation)
Finish	Front: Fe, Grey RAL 7016 Back: Fe, Black RAL 9005 Case: Al, Black RAL 9005
Weight	9,8 kg / 21,61 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