NEO Extension 8250

LDA NEO Extension 8250 is an extension unit for the EN 54-16 PA/VA system NEO.

This extension unit scales the NEO system with 8 more zones as it includes 8 class D power amplifier channels of 250W at 100V or 70V.

Audio is transmited from the main unit to this extension unit via a daisy-chain connection by Flexnet and using audio over Ethernet. Therefore it guarantees maximum audio quality and integrity in the signal.
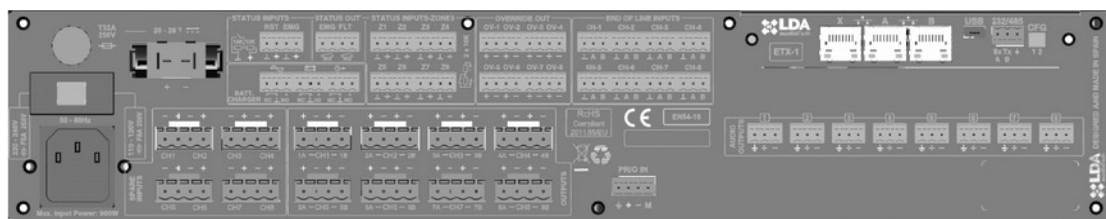
The NEO Extension is fully configurable with the NEO-Configurator software (included with NEO). It is possible to configure remotely the unit as part of th whole NEO system and create events to perform actions in the system triggered by conditions of: input level, date&time, UDP command, a GPIO or button from MPS microphone.

General features:

- 8 class D amplifiers of 250W for 70 or 100V lines

- 8 pre-amp outputs for external PA amplifiers connection.

- DSP: 7-band input/output Parametric Equalizer, loudness, LDA sound enhancer, independent volume control per each output channel and audio filters.

- Triple Ethernet port: for Digital Audio Cobranet, remote control and supervision, and for escalating the system with NEO-Extensions in redundant daisy-chain mode with Flexnet technology (up to 1024 zones).

- Control for up to 32 attenuators LDA AT6.

- Integrated frontal loudspeaker for monitoring.

- 12 supervised contact relays for integration with Fire Alarm Control Panel.

Rear View

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Technical Specifications:

Model	NEO8250E
Power supply	110-120V / 220-240V~ 50/60Hz.
Power consumption	900W max / 200W at 1/8 output power/ 40W Standby
Frequency response	80 - 20.000Hz +/-3dB
Signal to noise ratio	>98dB, A-weighted
Distorsion factor	<0,05% under 60268-3
Gain adjustment per channel	-100dB -0dB, 1dB steps
DSP	Integrated. 48 kHz, 24 bits - 344 MIPS
FlexNet (Conbranet+Control)	3 x FlexNet Redundant (automatic switching), Ethernet10/100Mbits. Female RJ-45
Pre-amp Audio Outputs	8 x Balanced audio 1Vp, 0,707Vrms. 100 Ω, 3Pin, Euroblock Type
Rec. Audio / Ctrl. Outputs	1 x Balanced audio, 1Vp, 0,707Vrms. 100 Ω / 0 - 5V DC output 100 Ω, 4Pin, Euroblock Type
ATT Control	8 x Override 24V DC, 8 x 40mA, 2 Pin, Euroblock Type (4 pin connector)
Emergency Control Inputs	10 x 0 - 5V DC, Monitored inputs, 2 Pin, Euroblock Type (4 pin connector)
Emergency Control Outputs	2 x Relay contact Isolated Output, NO, Max 60V DC 130mA, 2 Pin Euroblock Type (4 pin connector)
Amplifier	8 x 250W Class D (8 x125Wrms) @ 70/100V. Min. load per channel: 40 Ω
Speaker Outputs	16 (8 dual managed lines) x 70 /100V. 2 Pin, Euroblock Type (4 pin connector)
Speaker Loop Input	16 (8 dual) x No Voltage Contact inputs, 3 Pin, Euroblock Type.
Spare Amplifier Inputs	8 x 250Wrms @ 70/100V 1, 2 Pin, Euroblock Type (4 pin connector)
Protection	Over-temperature, DC, infrasonic, short circuit, slow start-up, overload. Start-up test.
Emergency Power Input	1 x 20 - 28V DC, 20A, Fused (20A), 2 Pin, Euroblock Type (2 pin connector)
Emergency Power Status Inputs	3 x NO - NC, 3 Pin, Euroblock Type
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	15 Kg / 33,07 lb
Dimensions (W x H x D)	483mm x 88mm x 455mm / 19" x 3,46" x 18"
Accessory	2 x Rack mounting, Male Euroblock connectors, installation screws, 4 x Rubber foot, 1 x Power cable 2m / 6,56ft (EU Type), 1 x Ethernet Cable 2m / 6,56ft.