GRÄF+MEYER

NEO+

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

This unit allows scaling the NEO+ system up to 4x500W (250Wrms) additional zones as it includes 4 differentiated amplification channels, class D, up to 1000W @100V per channel. Reaching a total amplification power of the unit of 2000W @100V.
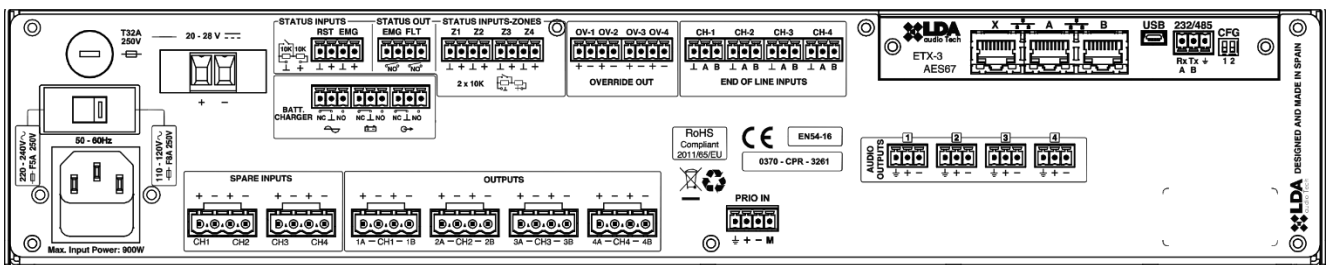
It includes a triple IP port for IP ring connection with the NEO8060+ main controller unit, AES67 digital audio communication, as well as control and supervision.

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 (included) allows to configure the equipment remotely and creates events to perform actions in the system according to the status of: input level, UDP command, GPIO or from the MPS-8Z, MPS- 8Z+ microphones.

General features:

- 4 class D amplifiers up to 1000W amplifiers on 100V/70V lines. Total power of the unit 2000W on 100V/70V 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 loop mode with FlexNet technology up to 1024 zones, 128 devices.
- 8 Overrides 24V/40mA.
- Supervised Input contacts EMG, RST and 4 programmable contacts for integration with Fire Alarm Systems.
- Supervised speakerlines (4 a/b speakerlines).

Technical specification:

Modell	NEO4500+
Power supply	110-120V / 220-240V~ 50/60 Hz
Power consumption	900 W max / 200 W at 1/8 output power / 40W Standby

GRÄF & MEYER GMBH | RINGSTR. 1 | 66459 KIRKEL | GERMANY | T +49 6841 93493 - 0
INFO@GPLUSM.DE | WWW.GPLUSM.DE | WWW.LDA-AUDIOTECH.DE

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Frequency response	20 – 20.000 Hz +/-3 dB (70 – 20.000 Hz con filtro paso alto 70Hz)
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
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. 100 Ω / 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 1000W of audio (Total max 2000W of audio), 4 channels up to 500Wrms (Total max 1000Wrms) Class D @70 /100V. Load Min. 40Ω / 20Ω
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 @ 70 or 100 V, 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 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	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"