



## FEATURES:

- Integrated DSP, network, comparator and amplifier solution
- 4x 3500W @ 4 Ohm
- Class D-IC amplifiers for superior sound performance
- SMPS with automatic selection for 115 V or 230 V
- SHARC floating point DSP @ 96 kHz
- 4 balanced analogue inputs
- LiNET – 8x freely configurable digital audio signals over a CAT5 cable
- DANTE - audio network
- 4 dynamic comparators for use with Coda Audio sensor controlled subwoofers
- Advanced IIR and linear phase FIR filters
- LINUS LIVE - Network Control and Monitoring of amplifiers over Ethernet
- Factory presets for all Coda Audio loudspeaker systems
- 6 years warranty



## DESCRIPTION:

The LINUS14 is a four channel DSP, Network, Comparator and Amplifier delivering 4x 3500W of clean power in a light weight 19"/2U package. The 4 audio inputs are selectable from Analog, LiNET digital audio or DANTE audio network and are routable to any of the 4 outputs via the input matrix.

**LINUS 14 ENGINE** - the class D-IC output stage topology delivers audiophile sonic accuracy with enormous headroom providing significant improvement of the system performance in dynamics and transparency.

**LINUS CORE** – the SHARC floating point DSP processor ensures tremendous processing power enabling the integration of sophisticated audio algorithms. The advanced signal processing includes IIR and phase linear FIR filters for perfect linearity and superior sound performance as well as advanced look-ahead and frequency dependent limiters for increased system headroom and sonic fidelity under heavy use conditions.

**LiNET** – is a robust, redundant audio transport solution that transmits digital audio over a standard CAT5 cable. Up to 8 digital audio signals can be sent to each amplifier via LiNET, buffered and sent to the next unit via the LiNET link out for daisy chaining. The signal routing inside the LINUS8 can be done remotely or using the pushbuttons on the front panel.

**DANTE** - transmit digital audio over an Ethernet based network.

**COMPARATOR** - the LINUS14 provides integrated feedback loop control for sensor controlled subwoofers. The unit has four sensor inputs connected to two 5-pol Neutrik XLR input. The comparator's electronic circuit loop measures the voice coil movement and adjusts the amplifier driving voltage and/or current to correct any driver inaccuracy. It is a closed feedback-loop and therefore self-optimizing system in which the driver confirms precisely the power it needs to produce exactly the original audio signal. The key advantage is a very extended and controlled

# LINUS14

4 Channel DSP Amplifiers



response. Any distortion produced by the driver or the enclosure is instantly corrected by the feedback.

**AUX** – integrated evacuation message contact in accordance with DIN EN 60849.

**LINUS LIVE** – Ethernet based graphical user interface for fast and flexible system configuration, tuning and control.

**APPLICATIONS** – Containing factory presets for all Coda Audio loudspeaker systems LINUS14 offers a flexible solution for touring, permanent installation, corporate AV and portable applications.

## SPECIFICATIONS:

### General

Channels	4 inputs (Analog, LiNET, DANTE) routable to any of the 4 outputs
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### Audio

Input impedance	12k balanced
Max Input level	+18 dBu
Output noise (analog input)*	< -108 dB (unweighted) / -111 dB (A-weighted)
Output noise (digital input)*	< -116 dB (unweighted) / -119 dB (A-weighted)
Frequency response	(20 Hz - 20 kHz) + /-0.2 dB at 4 Ohms
THD+N, IMD (20 Hz-20 kHz)	< 0.005%, 4 Ohms P/2
Damping Factor	> 10.000 @ 1 kHz / 8 Ohm

### DSP

Inputs	4x
Outputs	4x
Processor	Analog Devices SHARC DSP
Sampling rate	96 kHz / 32 bit floating point
Presets	110 Factory and 20 User presets

Output power	2 Ohm	4 Ohm	8 Ohm
RMS	5.200 W	3.500 W	1.800 W
6 dB Crest Factor	7.400 W	4.800 W	3.600 W

### Front panel

Standby on/off switch	yes
Display	yes
Mute buttons	each channel
Menu buttons	provide front panel control
Signal, Limit, Protect LEDs	each channel
Comparator LEDs	4x disconnected sensor (red)
Input signal detection LEDs	Analog, LiNET, Dante
Ethernet LED	yes
Standby LED	yes

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4 Channel DSP Amplifiers



## Rear panel

Balanced analog inputs	4 x XLR / F
LiNET input	RJ45
LiNET daisy-chain link	RJ45
LINUS LIVE (User interface)	RJ45 (Ethernet)
LINUS LIVE daisy-chain link	RJ45 (Ethernet)
Dante input	RJ45
AUX	RJ45
Sensor inputs	2x XLR/F - 5Pol
Amplifier outputs	2x NL4, 1 x NL8
Mains	Neutrik™ Powercon 32A

## Mains power Dual voltage SMPS with automatic voltage selection

230V	165 - 264V (47-63 Hz)
120V	85 - 132V (47-63 Hz)

## Physical

Net weight:	14.75 kg / 32.5 lbs
Shipping weight:	17.25 kg / 38 lbs
Dimensions (W x H x D)	483 x 88.9 x 453 mm (19" x 3.5" x 17,8")
Shipping Dim. (W x H x D)	680 x 130 x 560 mm (0.049 m <sup>3</sup> ), (26.7" x 5.1" x 22")

\* All channels driven, 1 kHz, >1% THD @VAC



## LINUS T-RACK 12 CHANNEL TOURING RACK

- 3x LINUS14 amplifier in a 10U heavy-duty rack
- Delivers 12x 3500W @ 4 Ohm
- Integrated shock-mount suspension system for maximum protection
- Integrated rigging hardware for flown or ground stacked
- Rear mounted power distribution (optional switchable: US / EU)
- Selectable inputs: Analog, AES over Ethernet, LiNET, DANTE
- Outputs on NL4, NL8 (Socapex optional available)
- 5-pol XLR comparator inputs for use with Coda Audio sensor controlled subwoofers
- All inputs and outputs are at the front for easy workflow
- Expandable - rack to rack internal cabling allows to joint two or more racks together
- Sliding doors for quick access
- Protection grill on the rear for connectors protection
- Can drive all CODA loudspeaker systems
- Compatible to LINUS20 / 40 and M-RACK



## LINUS M-RACK COMPACT 4 CHANNEL RACK

- One LINUS14 amplifier in a 3U case
- Deliver 4x 3500W @ 4 Ohm
- Requires only 16A / 230V (or 32A / 110V)
- Selectable inputs: Analog, AES over Ethernet, LiNET, DANTE
- Outputs on NL4, NL8
- 5-pol XLR comparator inputs for use with Coda Audio sensor controlled subwoofers
- All connectors at the front for easy workflow
- Sliding door for quick access
- Protection grill on the rear for connectors protection
- Can drive all CODA loudspeaker systems
- Fully compatible to LINUS T-RACK

