

LINUS14/14D Data Sheet

LINUS14/ 14D

4-Channel Loudspeaker
Management Amplifier



The LINUS14/14D is a 4-channel high-power loudspeaker management amplifier with networking and DSP, delivering 3500 W RMS per channel (at 4 Ω) in a lightweight 19-inch / 2U package.

The immense power of the LINUS14/14D class D-IC output stage topology ensures maximum headroom and sonic accuracy. This amplifier technology is combined with SHARC floating-point processing that features vast processing power which enables 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 look-ahead and frequency dependent limiters for increased system headroom.

The LINUS14/14D contains four comparator inputs for use with CODA Audio sensor-controlled subwoofers and bass extension modules. Receiving a real-time measurement of diaphragm movement from the loudspeaker's integrated velocity sensor, LINUS14/14D compares it with the input audio signal and adjusts the amplifier driving voltage and/or current, correcting any driver inaccuracy. This comparator functionality creates a self-optimizing, closed feedback loop in which the LINUS14/14D provides the precise amount of power required by the driver to accurately reproduce the original audio signal.

The LINUS14/14D contains presets for use with CODA Audio loudspeaker systems, enabling quick setup time and providing the utmost in audio clarity and performance. In addition to FOH system control, LINUS14/14D is suitable for monitor systems, delay systems, and zoned systems. 110 factory presets for compatible CODA Audio systems are included, 20 user preset slots are available.

The LINUS14/14D contains a port for use with a DANTE audio network and ports for LiNET, to transmit and receive up to 8 digital audio signals with low latency across very long distances with an additional link output for daisy-chaining multiple LiNET-equipped units.

LINUS14/14D Features

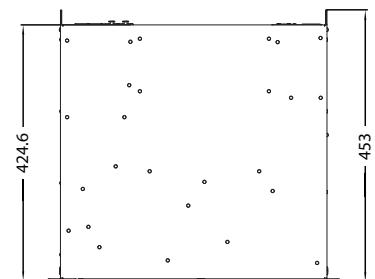
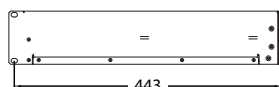
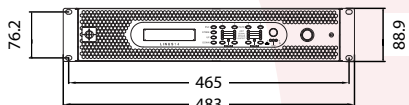
- ⊕ Very high output power (4x 3500W @ 4 Ohm)
- ⊕ SHARC floating point DSP @ 96 kHz
- ⊕ DANTE and LiNET – 8x freely configurable digital audio signals over CAT5 cables
- ⊕ 4 dynamic comparators for use with CODA Audio sensor controlled subwoofers
- ⊕ LINUS Control Ethernet interface provides network control and monitoring of amplifiers
- ⊕ Advanced IIR and linear-phase FIR filters
- ⊕ Efficient Class D-IC design for superior sound performance
- ⊕ Switch-mode power supply for 115 V / 230 V with automatic voltage selection



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Channels	4 inputs (analog, LiNET, DANTE) routable to any of the 4 outputs
PHYSICAL	
Net weight	14.75 kg / 32.5 lb
Shipping weight	17.6 kg / 38.8 lb
Dimensions (W x H x D)	483x88.9x453 mm / 19x3.5x17.8"
Shipping Dim. (W x H x D)	675x140x560 mm / 26.6x5.1x22"
AUDIO	
Input impedance (balanced)	12 k Ω
Max Input level (balanced, THD 1%)	+18 dBu / 6.15 Vms
Output noise (analogue input)	< -108 dB (unweighted) / -111 dB (A-weighted)
Output noise (digital input)	< -116 dB (unweighted) / -119 dB (A-weighted)
Frequency response (@ 8 Ω load, w/o preset setting)	20 Hz – 20 kHz (0/-1 db)
THD+N, IMD (20 Hz – 20 kHz)	< 0.005%, 4 Ohms P/2
SMPTE (20 Hz - 20 kHz)	n/A
Damping Factor (@ 8 Ω load, 1 kHz and below)	> 2500
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	
Peak power	6 dB Crest Factor on each channel, tolerance dependent (+/-1.25%)
8 Ω	4x 3600 W
4 Ω	4x 7000 W
2 Ω	4x 5200 W
RMS POWER	
8 Ω	4x 1800 W
4 Ω	4x 3500 W
2 Ω	4x 2600 W
Output Circuitry	Class D
Power on/off switch	yes
Display	yes
Mute buttons	each channel
Menu buttons	provide front panel control
Signal, Clip, Protect LEDs	each channel
Comparator LEDs	4x disconnected sensor (red)
Input signal detection LEDs	analog, LiNET, Dante
Ethernet LED	yes
Standby LED	yes
REAR PANEL	
Balanced analog inputs	4x XLR / F
Link analog signal	n/A
LiNET input	RJ45
LiNET daisy-chain link	RJ45
LINUS Control (User interface)	RJ45 (Ethernet)
LINUS Control (daisy-chain link)	RJ45 (Ethernet)
Dante input	RJ45
AUX	RJ45
Sensor inputs	2x XLR / F - 5Pol
Amplifier outputs	2x NL4, 1x NL8
Mains	Neutrik™ PowerCon 32A
MAINS POWER DUAL VOLTAGE SMPS WITH AUTOMATIC VOLTAGE SELECTION	
230 V	165-264 V (47-63 Hz)
120 V	85-132 V (47-63 Hz)



CODA AUDIO GmbH

Boulevard der EU 6, 30539 Hannover, Expo Park, Germany

E-Mail: contact@codaaudio.com Website: www.codaaudio.com

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