LINUS14/14D Data Sheet





- Very high output power 4x 3500 W @ 4 Ω
- Integrated DSP, network and amplifier solution
- Advanced IIR and linear phase FIR filters
- LINUS Control network control and monitoring of amplifiers over Ethernet
- Efficient Class D-IC design for superior sound performance
- DANTE™ and LiNET 8x freely configurable digital audio signals over CAT5 cables
- 4 dynamic comparators for use with CODA Audio Sensor Controlled subwoofers
- SMPS with automatic selection 115 V/230 V
- Factory presets: AiRAY, ViRAY, N-RAY, TiRAY, CoRAY, APS Series, N-APS Series, HOPS Series, CUE Series, G-Series, D-Series, SC Subs, U-Subs



The LINUS14/14D is a four channel DSP networkable amplifier and comparator delivering 4x 3500 W of clean power in a light weight 19″/2U package. The 4 audio inputs are selectable from analog, AES3, LiNET digital audio or DANTE™ and are routable to any of the 4 outputs.

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 various protection limiters for increased system headroom and secure system performace.

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.

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-optimising, 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.

LINUS Control - CODA's intuitive system management software provides the user a fast and flexible graphical interface for everything from system configuration and tuning, to control and system monitoring. It is optimised for both Mac OS and Windows, including tablet and native interfaces.



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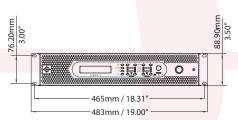


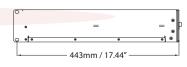


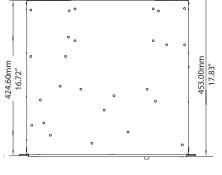
LINUS14/14D

| 4 |
|---|
| Class D-IC |
| 96 kHz / 24 bit |
| >108 dB (unweighted) >111 dB (A-weighted) |
| > 116 dB (unweighted) > 119 dB (A-weighted) |
| 20 Hz-20 kHz = (+0.0 dB / -1.0 dB) |
| 20 Hz-20 kHz = < 0.005% |
| min. 2.70 ms AES/EBU input min. 2.00 ms Analog input |
| Inrush current limiter, Thermal limiter, Output DC, SMPS over-current, Output overload |
| Mute status, Limit, Signal, Protection, Ethernet control active, Digital signal locked, Dante™ Power on |
| 2x 100 Mbps RJ45 Control 1x 100 Mbps RJ45 Dante™ |
| |
| Neutrik 32A powerCON® |
| 180 V = Minimum - 230 V = Nominal 265 V = Maximum |
| 90 V = Minimum - 115 V = Nominal 132 V = Maximum |
| 47 - 63 Hz |
| Amplifier in standby = 17.6 W Amplifier idle = 191 W Amplifier 1/4 power = 3200 W |
| ** voltage range should not be exceeded. |
| |

| INPUT | |
|--|--|
| Input sources | Analog & AES/EBU & Dante™ |
| An. input impedance (balanced) | 12 kΩ |
| Max. input level (an. differential) | +18 dBu / 6.15 Vrms |
| Input connections | 4x XLR3 Analog IN / 2x XLR5 Sensor IN / 1x RJ45 LINET IN (8x CH) / 1x RJ45 LINET LINK (8x CH) / 1x RJ45 Dante™ IN (4x CH) / 1x RJ45AUX |
| Supported digital input formats (Internal SRC) | 32 kHz / 44.1 kHz/ 48 kHz/ 88.2 kHz / 96 kHz / 176.4 kHz / 192 kHz |
| OUTPUT | |
| RMS output power* (20 Hz - 20 kHz, THD < 0.01%) (All channels driven) | 1800 W @ 8 Ω / 3500 W @ 4 Ω 4400 W @ 2.7 Ω / 4500 W @ 2 Ω |
| Peak output power* (20 Hz - 20 kHz, 6 dB Crest Factor) (all channels driven) | 3600 W _{pk} @ 8 Ω / 7000 W _{pk} @ 4 Ω 6500 W _{pk} @ 2.7 Ω / 5200 W _{pk} @ 2 Ω |
| Max. output voltage* | +/- 170 V _{pk} |
| Max. output current* | +/- 52 A _{pk} |
| Damping factor (8 Ω load, 1 kHz & below) | > 2500 |
| Min. output load | 2Ω nom / 2.7Ω - Sensor Control |
| Power output connections | 2x Neutrik NL4 speakON® 1x Neutrik NL8 speakON® |
| THERMAL | |
| Operating temperature | +5°C to 55°C / 41°F to 131°F |
| Termal output (BTU/h) | 679.02 = Idle / 2470.39 = 20% / 5159.16 = 50% / 9635.88 = 100% |
| Thermal output (kWh) | 0.199 = Idle / 0.724 = 20% / 1.512 = 50% / 2.824 = 100% |
| Cooling | 2x thermally controlled fans Hot air expelled at rear |
| PHYSICAL | |
| Dimensions (W x H x D) | 483.5x88x454mm / 19x3.4x17.8" |
| Shipping dimensions (W x H x D) | 675x130x560 mm / 26.5x5.1x22" |
| Net weight | 14.75 kg / 32.5 lbs |
| Shipping weight | 17.5 kg / 38.6 lbs |







CODA AUDIO GmbH

Boulevard der EU 6, 30539 Hannover, Expo Park, Germany E-Mail: contact@codaaudio.com Website: www.codaaudio.com



