

LINUS6.4 Data Sheet

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4-Channel Installation DSP Amplifier
with Loudspeaker Management



The LINUS6.4 is a four-channel DSP networkable installation amplifier delivering 4 x 1500 W of clean power in a convenient and lightweight 19"/1U package.

Advanced Class D-IC discrete power stages with DC-coupled DACs, together with a high-efficiency SMPS with PFC to provide unrivalled power density and minimal thermal dissipation.

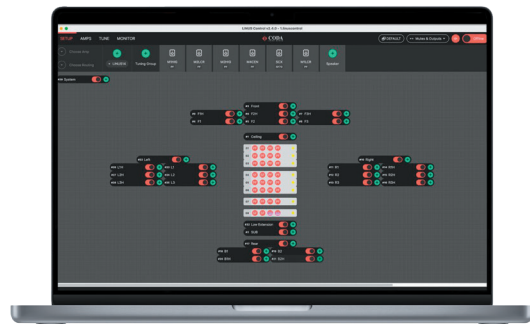
The innovative PCB layout design integrates DSP, four amplifiers, and SMPS on a single PCB for enhanced sound quality, pinpoint control, and rugged protection.

The audio inputs are selectable, you can choose between analog, LiNET, Dante digital audio network and simply and easily route to any of the four outputs via the input matrix.

The advanced DSP processor enables the integration of sophisticated audio algorithms including phase linear DS-FIR filters, these provide perfect linearity and superior sound performance, plus advanced look-ahead and frequency-dependent limiters. The end result is increased system headroom and sonic fidelity, even under heavy use conditions.

LINUS6.4 Features

- ⊕ 4x 1500 W @ 2Ω or 2x 3000 W@ 4Ω or 1x 3000 W@ 4Ω + 2x 1500 W@ 2Ω
- ⊕ Powers either 70/100V and low impedance loudspeakers
- ⊕ 4 balanced analogue inputs
- ⊕ LiNET – 8x freely configurable digital audio signals over CAT5e
- ⊕ Dante redundant (LINUS 6.4-iD only)
- ⊕ PoE on the control port, in case of mains power loss, the control section still functions
- ⊕ Phoenix inputs and outputs
- ⊕ Configurable GPIO
- ⊕ Front panel IPS display (240x240 pixels)
- ⊕ LINUS Control – full network control and monitoring of amplifiers over Ethernet
- ⊕ Optimised factory presets for CODA Audio loudspeaker systems
- ⊕ 5-year warranty



LINUS Control



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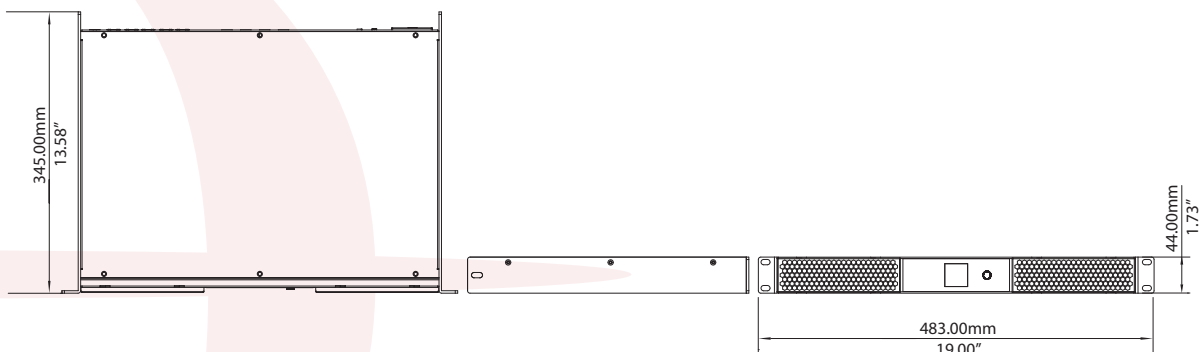


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GENERAL	
Number of output channels	4
Output stage	Class D-IC
Internal samplerate / bit-depth	48 kHz / 64 bit
Signal-to-noise ratio (22 Hz - 20 kHz, 4 Ω - analog input)	>105 dB (unweighted) >108 dB (A-weighted)
Signal-to-noise ratio (22 Hz - 20 kHz, 4 Ω - digital input)	>113 dB (unweighted) >116 dB (A-weighted)
Frequency response (8 Ω load, with CLEAR preset)	20 Hz - 20 kHz = (+0.3 dB / -0.2 dB)
THD+N & IMD (4 Ω load @ 1/2 output power)	20 Hz - 20 kHz = < 0.05%
Latency (input to loudspeaker output)	Min. 2.70 ms AES/EBU input Min. 2.00 ms Analog input
Protection circuits	Inrush current limiter Thermal limiter Output DC SMPS over-current Output overload
LED indicators	Mute status Limit Signal Protection Ethernet control Power on
Ethernet connection	1 x 100 Mbps RJ45 Control 2 x 1000Mbps RJ45 Dante™
AC MAINS	
AC mains input connector	IEC
AC mains voltage (nominal)**	100 V - 240V AC
AC mains voltage (maximum)**	90V - 264V AC
AC mains frequency	47 - 63 Hz
Power consumption* (1/4 power = 200 W @ 4Ω to represent typical music signal)	Amplifier in standby <= 8 W Amplifier idle <= 23 W Amplifier ¼ power = 1000 W

*typical values - some variation may exist due to component intolerances
 ** voltage range should not be exceeded. Amp. output power will degrade below nominal voltage & increase above

INPUT	
Input sources	Analog, LiNET & Dante™
An. input impedance (balanced)	44 kΩ
Max. input level (an. differential)	+21 dBu / 8.7 Vrms
Input connections	4x Phoenix 1840379 Analog 1x RJ45 LiNET IN (8x CH) 1x RJ45 LiNET LINK (8x CH) 2x RJ45 Dante IN (4x CH/optional)
Supported digital input formats (Internal SRC)	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, 12dB Crest Factor)	500 W @ 8 Ω 800 W @ 4 Ω 1500 W @ 2 Ω 1600 W @ 8 Ω bridged 3000 W @ 4 Ω bridged (2ch BTL, 2ch SE)
Peak output power* (20 Hz - 20 kHz, 12 dB Crest Factor)(all channels driven)	1000 W @ 8 Ω / 1600 W @ 4 Ω 3000 W @ 2 Ω 3200 W @ 8 Ω bridged 6000 W @ 4 Ω bridged (2ch BTL, 2ch SE)
Max. output voltage*	+/- 90 V pk SE +/- 180 V pk BTL
Max. output current*	+/- 50 A pk
Damping factor (8 Ω load, 1 kHz & below)	2500
Min. output load	2 Ω nom SE 4 Ω nom BTL
Power output connections	2x PHOENIX 4P (Connector supplied with amplifier)
THERMAL	
Operating temperature	+5°C to +55°C 41°F to 131°F
Thermal output (BTU/h)	85.3 = Idle 700 = 20 % 1621 = 50 % 3156 = 100 %
Thermal output (kWh)	0.025 = Idle 0.205 = 20 % 0.475 = 50 % 0.925 = 100 %
Cooling	2x thermally controlled fans Hot air expelled at rear
PHYSICAL	
Dimensions (W x H x D)	483 x 44 x 345 mm / 19" x 1.73" x 13.58" (IU) (size including back mounting ears)
Shipping dimensions (W x H x D)	600 x 63 x 400mm / 23.62" x 2.48" x 15.75"
Net weight	5.75 kg / 12.68 lbs.
Shipping weight	6 kg / 13.23 lbs.



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