

LINUS-V1804 Data Sheet

LINUS-V1804

4 Channel DSP Amplifier with
Loudspeaker Management
for Mobile Applications



The LINUS-V1804 is a four-channel touring-grade power amplifier developed using CODA Audio's latest amplifier topology. In a compact 2U enclosure, it combines high output capability with very low distortion characteristics for professional sound reinforcement applications.

The V1804 delivers 3000 W per channel into a minimum 4 ohm load, providing sufficient power for demanding portable and small touring systems. Its output capability, sonic accuracy and system flexibility allow it to drive any CODA loudspeaker up to APS-Pro.

The amplifier features a new DSP architecture, enabling future firmware updates and long-term system adaptability. Dual high-efficiency SMPS with PFC support universal 100–240 V mains operation.

Analogue and LiNET inputs are standard, with Dante available on the V1804-D model.

Integrated loudspeaker presets—excluding sensor-controlled subwoofers and large-format line arrays—are stored onboard and accessed through the 320 × 240 pixel touchscreen.

Amplifier control is available via the LINUS Control App, or through networked operation using LINUS Control Software for complete system management.

Designed for professional touring environments, the LINUS-V1804 is backed by a five-year guarantee. Firmware updates ensure the amplifier remains current with new presets and specialist functionality.

Power that punches above its size. Control that fits in your pocket.

LINUS-V1804 Features

- ⊕ 4x 3000 W@ 4Ω
- ⊕ 4 balanced analogue XLR inputs
- ⊕ LiNET – 8x freely configurable digital audio signals over CAT5e
- ⊕ Dante redundant (LINUS V1804D only)
- ⊕ PoE on the control port, in case of mains power loss, the control section still functions
- ⊕ Configurable GPIO
- ⊕ Front panel IPS Touchscreen 240x320
- ⊕ LINUS Control – full network control and monitoring of amplifiers over Ethernet
- ⊕ LINUS App – full amplifier control and monitoring via mobile device using internal wi-fi hotspot
- ⊕ Optimised factory presets for all CODA Audio loudspeaker systems (except ViRAY, CiRAY, AiRAY and sensor subwoofers)



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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
User interface	IPS Touchscreen 240x320 Mute / Status / Limit / Signal / Protection / Ethernet / Power on / Mains voltage Front panel control of audio parameters: Preset / Delay / Mute / Snapshot / Standby
Ethernet connection	2 x 100 Mbps RJ45 Control (1 port accepts PoE 802.3af backup power for DSP) 2 x 1000 Mbps RJ45 Dante™ (Redundant)

AC MAINS

AC mains	32A powerCON®
AC mains input connector	100 V – 240 V AC with PFC
AC mains voltage (nominal)**	90 V – 264 V AC Amplifier in standby = 16 W
AC mains voltage (maximum)**	Amplifier idle = 40 W Amplifier ¼ power = 3000 W
AC mains frequency	47 – 63 Hz

*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 E&OE

INPUT

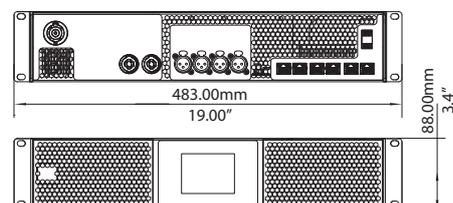
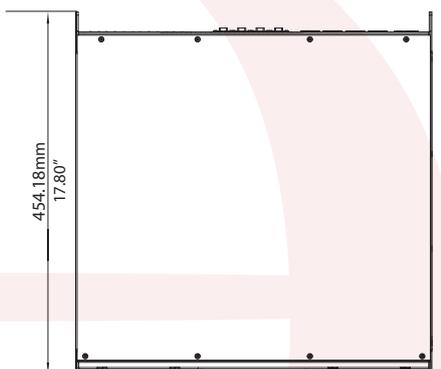
Input sources	Analog & LINET & DANTE™ (optional)
An. input impedance (balanced)	20 kΩ
Max. input level (an. differential)	+21 dBu
Input connections	4 x XLR Female 1 x RJ45 LINET IN (8 x CH) 1 x RJ45 LINET LINK (8 x CH) 2 x RJ45 DANTE IN (4 x CH) (optional)

OUTPUT

RMS output power* (20 Hz - 20 kHz, THD <0.01%) (all channels driven, 12 dB Crest Factor)	1600 W @ 8 Ω 3000 W @ 4 Ω
Peak output power* (20 Hz - 20 kHz, 6 dB Crest Factor) (all channels driven)	3200 W @ 8 Ω 6000 W @ 4 Ω
Max. output voltage*	+/- 180 V pk
Max. output current*	+/- 40 A pk
Damping factor (8 Ω load, 1 kHz & below)	>2500
Min. output load	4 Ω per channel
Power output connections	2 x SpeakON® 4 pole
THERMAL	
Operating temperature	+5°C to +55°C 41°F to 131°F
Thermal output (BTU/h)	170.6 = Idle 1400 = 20 % 3248 = 50 % 6312 = 100 %
Thermal output (kWh)	0.05 = Idle 0.41 = 20 % 0.95 = 50 % 1.85 = 100 %
Cooling	2 x thermally controlled fans. Hot air expelled at rear.

PHYSICAL

Dimensions (W x H x D)	483.5 x 88 x 454.18 mm / 19" x 3.4" x 17.8" (2U)
Shipping dimensions (W x H x D)	675 x 130 x 560 mm (0.049 m³) / 26.5" x 5.1" x 22"
Net weight	11.85kg / 26.12 lbs
Shipping weight	14.75 kg / 32.52 lbs.



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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