

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 V908D 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)

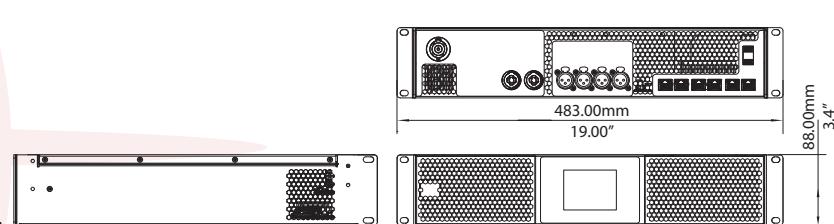
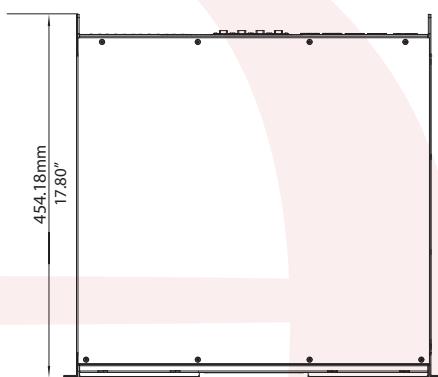
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GENERAL		INPUT	
Number of output channels	4	Input sources	Analog & LINET & DANTE™ (optional)
Output stage	Class D-IC	An. input impedance (balanced)	20 kΩ
Internal samplerate / bit-depth	48 kHz / 64 bit	Max. input level (an. differential)	+21 dBu
Signal-to-noise ratio (22 Hz - 20 kHz, 4 Ω - analog input)	>105 dB (unweighted) >108 dB (A-weighted)	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)
Signal-to-noise ratio (22 Hz - 20 kHz, 4 Ω - digital input)	>113 dB (unweighted) >116 dB (A-weighted)	OUTPUT	
Frequency response (8 Ω load, with CLEAR preset)	20 Hz - 20 kHz = (+0.3 dB / -0.2 dB)	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
THD+N & IMD (4 Ω load @ 1/2 output power)	20 Hz - 20 kHz = < 0.05%	Peak output power* (20 Hz - 20 kHz, 6 dB Crest Factor) (all channels driven)	3200 W @ 8 Ω 6000 W @ 4 Ω
Latency (input to loudspeaker output)	Min. 2.70 ms AES/EBU input Min. 2.00 ms Analog input	Max. output voltage*	+/- 180 V pk
Protection circuits	Inrush current limiter Thermal limiter Output DC SMPS over-current Output overload	Max. output current*	+/- 40 A pk
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	Damping factor (8 Ω load, 1 kHz & below)	>2500
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)	Min. output load	4 Ω per channel
AC MAINS		Power output connections	2 x SpeakON® 4 pole
AC mains	32A powerCON®	THERMAL	
AC mains input connector	100 V - 240 V AC with PFC	Operating temperature	+5°C to +55°C 41°F to 131°F
AC mains voltage (nominal)**	90 V - 264 V AC Amplifier in standby = 16 W	Termal output (BTU/h)	170.6 = Idle 1400 = 20 % 3248 = 50 % 6312 = 100 %
AC mains voltage (maximum)**	Amplifier idle = 40 W Amplifier ¼ power = 3000 W	Thermal output (kWh)	0.05 = Idle 0.41 = 20 % 0.95 = 50 % 1.85 = 100 %
AC mains frequency	47 - 63 Hz	Cooling	2 x thermally controlled fans. Hot air expelled at rear.
AC MAINS		PHYSICAL	
AC mains	32A powerCON®	Dimensions (W x H x D)	483.5 x 88 x 454.18 mm / 19" x 3.4" x 17.8" (2U)
AC mains input connector	100 V - 240 V AC with PFC	Shipping dimensions (W x H x D)	675 x 130 x 560 mm (0.049 m³) / 26.5" x 5.1" x 22"
AC mains voltage (nominal)**	90 V - 264 V AC Amplifier in standby = 16 W	Net weight	11.85kg / 26.12 lbs
AC mains voltage (maximum)**	Amplifier idle = 40 W Amplifier ¼ power = 3000 W	Shipping weight	14.75 kg / 32.52 lbs.
AC mains frequency	47 - 63 Hz		

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



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