

# LINUS5-C Data Sheet

## LINUS5-C

4-Channel Loudspeaker  
Management Amplifier



The LINUS5-C is a 4-channel loudspeaker management amplifier with networking and DSP, delivering 5000 W total RMS power in a lightweight 19-inch / 2U package.

Offering four output channels, the LINUS5-C is an efficient and compact amplifier solution that occupies just 2 rack spaces, incurs a reduced cost, and has a reduced weight when compared to previous 4-channel amplifier solutions.

The exceptional power of the LINUS5-C class-D output stage topology ensures maximum headroom and optimal system performance for installed CODA Audio systems. This amplifier technology is combined with SHARC floating-point processing. This DSP 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 performance.

The LINUS5-C 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, LINUS5-C is suitable for monitor systems, delay systems, and zoned systems. Factory presets for compatible CODA Audio systems (D-Series, G300/G500, CoRAY, HOPS8, TiRAY, OMNIO5, U-Subs) are included, 10 user preset slots are available.

### LINUS5-C Features

- ⊕ High output power (5000 W RMS total)
- ⊕ SHARC floating point DSP @ 96 kHz
- ⊕ LiNET-C – 4x freely configurable digital audio signals over a CAT5 cable
- ⊕ LINUS Control Ethernet interface provides network control and monitoring of amplifiers
- ⊕ Advanced IIR and linear-phase FIR filters
- ⊕ Efficient Class D design for superior sound performance
- ⊕ Lightweight power supply for 100 V / 115 V / 230 V



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### GENERAL

Number of output channels	4
Output stage	Class D
Internal samplerate / bit-depth	96 kHz / 24 bit
Signal-to-noise ratio (22 Hz - 20 kHz, 4 $\Omega$ - analogue input)	>112 dB (unweighted) >115 dB (A-weighted)
Signal-to-noise ratio (22 Hz - 20 kHz, 4 $\Omega$ - digital input)	> 114 dB (unweighted) > 117 dB (A-weighted)
Frequency response (8 $\Omega$ load, with CLEAR preset)	20 Hz-20 kHz = (+0.5 dB / -1.0 dB)
THD+N (4 $\Omega$ load @ 120 W output power)	20 Hz-17 kHz = < 0.1%
Latency (input to loudspeaker output)	min. 2.70 ms AES/EBU input min. 2.00 ms Analogue input
Protection circuits	Inrush current limiter, Thermal limiter, Output DC, SMPS over-current, Output overload
LED indicators	Mute status, Limit, 0 dB, Signal, Protection, Ethernet control active, Digital signal locked, Power on
Ethernet connection	1x 10 Mbps RJ45

### AC MAINS

AC mains input connector	Neutrik 32A powerCON®
AC mains input voltage** (230 V internal jumper setting)	180 V = Minimum 230 V = Nominal 264 V = Maximum
AC mains input voltage** (115 V internal jumper setting)	85 V = Minimum 115 V = Nominal 132 V = Maximum
AC mains frequency	47 - 63 Hz

Power consumption* (1/4 power = 150 W @ 4 $\Omega$ to represent typical music signal)	Amplifier in standby = 27 W Amplifier idle = 115 W Amplifier 1/4 power = 851 W
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\*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	Analogue & AES/EBU
An. input impedance (balanced)	30 k $\Omega$
Max. input level (an. differential)	+15 dBu / 4.36 Vrms
Input connections	4x XLR3 Analogue IN / 1x RJ45 Analogue IN (4x CH) / 1x RJ45 Analogue LINK (4x CH) / 1x RJ45 Digital IN (4x CH) / 1x RJ45 Digital Link (4x CH)
Supported digital input formats (Internal SRC)	32 kHz / 44.1 kHz / 48 kHz / 88.2 kHz / 96 kHz / 176.4 kHz / 192 kHz

### OUTPUT

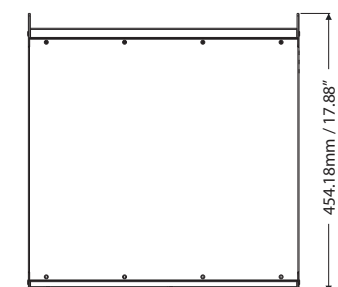
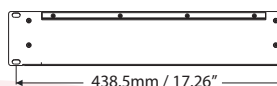
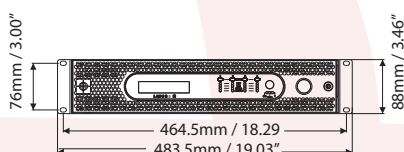
RMS output power* (20 Hz - 20 kHz, THD < 0.1%) (All channels driven)	400 W @ 8 $\Omega$ / 700 W @ 4 $\Omega$ 900 W @ 2.7 $\Omega$ / 1250 W @ 2 $\Omega$
Peak output power* (20 Hz - 20 kHz, 6 dB Crest Factor) (All channels driven)	900 W <sub>pk</sub> @ 8 $\Omega$ / 1600 W <sub>pk</sub> @ 4 $\Omega$ 1700 W <sub>pk</sub> @ 2.7 $\Omega$ / 1600 W <sub>pk</sub> @ 2 $\Omega$
Max. output voltage*	+/- 85 V <sub>pk</sub>
Max. output current*	+/- 38 A <sub>pk</sub>
Damping factor (8 $\Omega$ load, 1 kHz & below)	> 400
Min. output load	2 $\Omega$ nom
Power output connections	2x Neutrik NL4 speakON® 1x Neutrik NL8 speakON®

### THERMAL

Operating temperature	+5°C to 55°C / 41°F to 131°F
Thermal output (BTU/h)	307.09 = Idle / 665.37 = 20% / 1207.90 = 50% / 2108.70 = 100%
Thermal output (kWh)	0.090 = Idle / 0.195 = 20% / 0.354 = 50% / 0.618 = 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	10.7 kg / 23.6 lbs
Shipping weight	13.0 kg / 28.7 lbs



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