

LINUS10 2-Channel Loudspeaker Management Amplifier



The LINUS10 is a dual-channel loudspeaker management amplifier with networking and comparator, delivering 10000 W of clean power in a lightweight 19-inch / 2U package.

The exceptional power of the LINUS10 ensures maximum headroom and optimal system performance for all CODA Audio touring systems. This amplifier technology is combined with dual SHARC floating-point processors. This DSP features vast processing power which enables the integration of sophisticated audio algorithms for the most exacting results. The advanced signal processing includes IIR and phase-linear FIR filters for perfect linearity and superior sound performance as well as look-ahead and frequency dependent limiters for increased system headroom.

The LINUS10 contains two 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, LINUS10 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-optimizing, closed feedback-loop in which the LINUS10 provides the precise amount of power required by the driver to accurately reproduce the original audio signal.

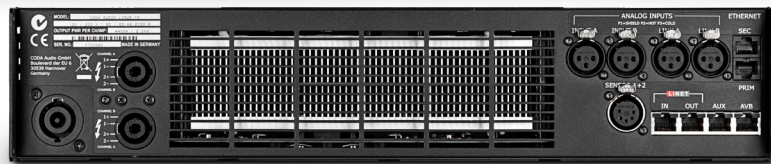
The LINUS10 contains presets for use with CODA Audio loudspeaker systems, enabling quick setup time and providing the utmost in audio clarity and performance. In addition to FOH system control, LINUS10 is suitable for monitor systems, delay systems, and zoned systems.

The LINUS10 contains ports for use with LiNET Master, to transmit and receive up to 8 digital audio signals with low latency across very long distances (300 m or more using CAT5; even longer using CAT7 cables) with an additional built-in redundant network for increased reliability even in failover conditions.

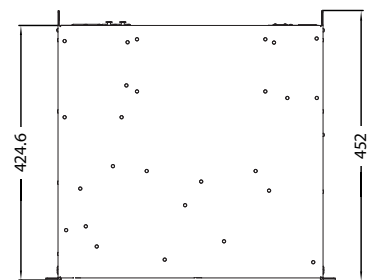
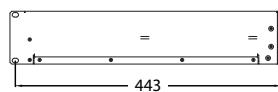
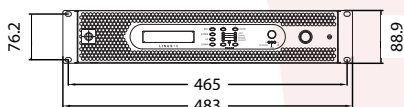
LINUS10 Features

- ⊕ SHARC floating point DSP @ 96 kHz
- ⊕ LiNET – 8x freely configurable digital audio signals over a CAT5 cable
- ⊕ 2 dynamic comparators for use with CODA Audio sensor controlled subwoofers
- ⊕ Advanced IIR and linear-phase FIR filters
- ⊕ True Class H design for superior sound performance
- ⊕ Switched-mode power supply with automatic selection for 115 V or 230 V

LINUS10 Data Sheet



LINUS10	
Channels	2 inputs (analog, LiNET routable to any of the 2 outputs)
PHYSICAL	
Net weight	13 kg / 28.7 lb
Shipping weight	15.95 kg / 35.2 lb
Dimensions (W x H x D)	483x88.9x453 mm / 19x3.5x17.8"
Shipping Dim. (W x H x D)	610x130x540 mm / 24x5.1x21.3"
AUDIO	
Input impedance (balanced)	12 k Ω
Max Input level (balanced, THD 1%)	+21 dBu / 8.69 Vms
Output noise (analogue input)	< -107 dB (unweighted) / -110 dB (A-weighted)
Output noise (digital input)	< -116 dB (unweighted) / -119 dB (A-weighted)
Frequency response (@ 8 Ω load, w/o preset setting)	20 Hz – 20 kHz (0/-1 db)
THD+N, IMD (20 Hz – 20 kHz)	< 0.01%, 8 Ohms P/2
SMPTE (20 Hz - 20 kHz)	< 0.01%, 8 Ohms P/2
Damping Factor (@ 8 Ω load, 1 kHz and below)	> 400
DSP	
Inputs	2x
Outputs	2x
Processor	Analog Devices SHARC DSP
Sampling rate	96 kHz / 32 bit floating point
Presets	110 Factory and 20 User presets
OUTPUT POWER	
Peak power	6 dB Crest Factor on each channel, tolerance dependent (+/-1.25%)
8 Ω	2x 2500 W
4 Ω	2x 4900 W
2 Ω	2x 5300 W
RMS POWER	
8 Ω	2x 2300 W
4 Ω	2x 4000 W
2 Ω	2x 5100 W
Output Circuitry	Class H
FRONT PANEL	
Power on/off switch	yes
Display	yes
Mute buttons	each channel
Menu buttons	provide front panel control
Signal, Clip, Protect LEDs	each channel
Comparator LEDs	2x disconnected sensor (red)
Input signal detection LEDs	analog, LiNET
Ethernet LED	yes
Standby LED	yes
REAR PANEL	
Balanced analog inputs	2x XLR / F
Link analog signal	2x XLR / M
LiNET input	RJ45
LiNET daisy-chain link	RJ45
LINUS Control (User interface)	RJ45 (Ethernet)
LINUS Control (daisy-chain link)	RJ45 (Ethernet)
Dante input	n/A
AUX	RJ45
Sensor inputs	XLR / F - 5-Pol
Amplifier outputs	2x NL4
Mains	Neutrik™ PowerCon 32A
MAINS POWER DUAL VOLTAGE SMPS WITH AUTOMATIC VOLTAGE SELECTION	
230 V	180-267 V (47-63 Hz)
120 V	70-134 V (47-63 Hz)



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