

Lina System Specifications

Lina Network DAC Specifications

Product Dimensions / Weight

121.5mm (H) x 220mm (W) x 339mm (D) 7.4kg

Shipping Dimensions / Weight

320mm (H) x 360mm (W) x 530mm (D) / 10.3kg

Finish

Black machined aluminium with crystal LED display

Electronics

- dCS Ring DAC and Digital Processing Platform on flex rigid PCB
- Stream Unlimited S800
- Automatic voltage switching

Digital Inputs

- 2 x AES/EBU on 3 pin XLR 44.1-384kS/s
- 1 x S/PDIF BNC Coax 44.1-192kS/s
- 1 x S/PDIF on RCA 44.1-192kS/s
- 1 x Toslink 44.1-96kS/s
- 1 x USB Type B 44.1-384kS/s, PCM and DSD, DSDx2 in Async Mode
- 1 x USB Type A connector for mass storage devices (navigated using Mosaic)

Analogue Outputs

1 stereo balanced pair on 2x 3-pin male XLR connectors (pin 2 = hot, pin 3 = cold). These outputs are electronically balanced and floating, the signal balance ratio at 1 kHz is better than 40dB. Output impedance is 3Ω, maximum load is 600Ω (a 10kΩ - 100kΩ load is recommended).

1 stereo unbalanced pair on 2x RCA Phono connectors. Output impedance is 52Ω, maximum load is 600Ω (a 10kΩ - 100kΩ load is recommended).

Output levels are 0.2V, 0.6V, 2V, or 6V rms for a full-scale input, set in the menu.

Network Interface

RJ-45 connector

Streaming Compatibility

Supports the following platforms and services:

- UPnP
- Qobuz
- Deezer
- Tidal
- Internet Radio
- Spotify
- Apple AirPlay 2 (support at 44.1 or 48kS/s)
- RoonReady

Sample frequencies and formats

Supports the following audio formats and sample rates

- 44.1-384kS/s up to 24 bits
- DSD/64, DSD/128
- Native DSD + DoP (input dependent)
- FLAC, WAV, AIFF, MQA

Upsampling

Multi-stage DXD oversampling with switchable DSD Upsampling (1-bit 2.822 or 3.07MS/s) and DSDx2 Upsampling (1-bit 5.644 or 6.14MS/s).

Word Clock

- 2 x Word Clock inputs on 75 Ω BNC connectors
- Will lock to 44.1-192kHz

Filters

- PCM mode: up to 6 filters give different trade-offs between the Nyquist image rejection and the phase response
- DSD mode: 4 filters progressively reduce out-of-audio band noise level, plus Filter 5 which has an improved transient response

Crossfeed Settings

- Standard crossfeed
- dCS Enhanced crossfeed (E1)
- dCS Enhanced crossfeed (E2)

Power

- IEC inlet & power switch on rear panel
- 90-127V / 220-240V, 50/60Hz, consumption 30W
- Automatic voltage switching
- Power synchronised with other dCS control link products (RJ45)

Frequency Response (set to filter 1)

- $F_s = 44.1$ or 48kS/s +/-0.1dB, 10Hz-20kHz
- $F_s = 88.2$ or 96kS/s +/-0.1dB, 10Hz-20kHz -3dB @ >38kHz
- $F_s = 176.4$ or 192kS/s +/-0.1dB, 10Hz-20kHz -3dB @ >67kHz
- $F_s = 352.8$ or 384kS/s +/-0.1dB, 10Hz-20kHz -3dB @ >100kHz
- DSD64 +/-0.1dB, 10Hz-20kHz -3dB @ >90kHz
- DSD128 +/-0.1dB, 10Hz-20kHz -3dB @ >100kHz

Residual Noise (6v output setting)

- 16-bit data: Better than -96dB0, 20Hz-20kHz unweighted
- 24-bit data: Better than -113dB0, 20Hz-20kHz unweighted

Spurious Responses

Better than -105dB0, 20Hz-20kHz

L-R Crosstalk

Better than -115dB0, 20Hz-20kHz

Included with your Lina Streaming DAC

- 1 x mains cable
- 2 x XLR [0.5m]
- 1 x Ethernet cable [2m]
- 1 x Power Link cable [0.5m]

Lina Master Clock Specifications

Clock Type	Grade 1 Master Clock, with oven-controlled crystal oscillators
Product Dimensions / Weight	121.5mm (H) x 220mm (W) x 339mm (D) / 7kg
Shipping Dimensions / Weight	TBC
Finish	Black machined aluminium
Clock Accuracy	Better than +/-1 ppm when shipped over an ambient temperature range of +5°C to +45°C
Startup Time	Typically 10 minutes to rated accuracy
Word Clock Outputs	<ul style="list-style-type: none">• 2 x independently buffered TTL-compatible output on 75Ω BNC connectors• Output 1: fixed at 44.1kHz• Output 2: fixed at 48kHz
Power Link (synchronising on/off state with other products)	2 x RJ45
Power	<ul style="list-style-type: none">• 90-120v & 220-240v, 50/60Hz nominal• Consumption 10W
Included with your Lina Master Clock	1 x Mains cable [2m] 1 x Power Link cable [0.5m] 2 x BNC [0.5m]

Lina Headphone Amplifier Specifications

Product Dimensions / Weight	121.5mm (H) x 220mm (W) x 356mm (D) / 7.5kg
Shipping Dimensions / Weight	320mm (H) x 360mm (W) x 530mm (D) / 9kg
Finish	Black machined aluminium
Electronics	<ul style="list-style-type: none">• Pure analogue design• Automatic voltage switching
Analogue Inputs	<ul style="list-style-type: none">• 1 x stereo pair unbalanced RCA, input impedance 48kΩ• 1 x stereo pair unbuffered balanced XLR, input impedance 16kΩ• 1 x stereo pair buffered balanced XLR, input impedance 96kΩ
Headphone Outputs	<ul style="list-style-type: none">• 1 x dual 3-pin balanced XLR, right and left channel• 1 x single 4-pin balanced XLR• 1 x single 1/4" (6.35mm) headphone jack
Power Link (synchronising on/off state with other products)	2 x RJ45
Power	90-120v & 230-240v, 50/60Hz nominal
Frequency Response	1Hz-100kHz better than +0/-3dB
THD+N	<0.005% @ 1kHz 6V rms balanced output into 30 Ω (80kHz bandwidth)
Channel Separation	Balanced input to balanced output into 30 Ω . Better than 100dB @ 1kHz. Better than 80dB, 20Hz–20kHz.
Signal to Noise Ratio	110dB 20Hz-20kHz A-weighted (referenced to 6V rms balanced input and output)

Power Output

- 2x Balanced 2W into 30Ω
- 2x Balanced 0.48W into 300Ω
- 2x Unbalanced 1.6W into 30Ω
- 2x Unbalanced 0.2W into 300Ω

**Included with your Lina
Headphone Amplifier**

- 1 x mains cable [2m]
- 1 x Power Link cable [0.5m]