

Lina DAC X Specifications

Product Dimensions / Weight

122mm / 4.80" (H) x 444mm / 17.48" (W) x 356mm / 14.02" (D).
Allow extra depth for cable connectors • 14KG / 30.86lbs

Finish

Black or silver painted machined aluminium with crystal LED display

Electronics

- dCS Ring DAC and Digital Processing Platform on flex-rigid PCB
- StreamUnlimited Stream800
- Automatic mains voltage switching

Digital Inputs

- 2 x AES/EBU on 3 pin XLR 44.1-192kS/s
- Used as a Dual AES pair (1+2), supports sample rates up to 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 Asynchronous 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

Ethernet interface on RJ45 connector

Streaming Compatibility

Supports the following platforms and services:

- | | |
|----------|------------------|
| • UPnP | • QQ Music |
| • Qobuz | • Internet Radio |
| • Deezer | • Spotify |
| • Tidal | • Roon Ready |

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	<ul style="list-style-type: none"> • 2x Word Clock Inputs on 75Ω BNC connectors, sensitive to TTL levels. • Accepts standard Word Clock signals at 44.1, 48, 88.2, 96, 176.4 or 192kHz.
Filters	<ul style="list-style-type: none"> • PCM mode: up to 6 filters per sample rate give different trade-offs between the Nyquist image rejection and the transient response • DSD mode: 4 filters progressively reduce out-of-audio band noise level, plus Filter 5 which has an improved transient response
Crossfeed Settings	<ul style="list-style-type: none"> • Standard crossfeed • dCS Expanse 1 (E1) • dCS Expanse 2 (E2)
Power	<ul style="list-style-type: none"> • IEC inlet & power switch on rear panel • 90-127V / 220-240V, 50/60Hz, consumption 30W • Automatic voltage switching • Power synchronised with other dCS Power Link products (RJ45)
Frequency Response (set to filter 1)	<ul style="list-style-type: none"> • $F_s = 44.1$ or $48\text{ks/s} \pm 0.1\text{dB}$, 10Hz-20kHz • $F_s = 88.2$ or $96\text{ks/s} \pm 0.1\text{dB}$, 10Hz-20kHz -3dB @ >38kHz • $F_s = 176.4$ or $192\text{ks/s} \pm 0.1\text{dB}$, 10Hz-20kHz -3dB @ >67kHz • $F_s = 352.8$ or $384\text{ks/s} \pm 0.1\text{dB}$, 10Hz-20kHz -3dB @ >100kHz • DSD64 $\pm 0.1\text{dB}$, 10Hz-20kHz -3dB @ >90kHz • DSD128 $\pm 0.1\text{dB}$, 10Hz-20kHz -3dB @ >100kHz
Residual Noise (6v output setting)	<ul style="list-style-type: none"> • 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 DAC X	<ul style="list-style-type: none"> • Power cable • 2x XLR cable (0.5m) • Ethernet cable • Power Link cable • Welcome letter • Safety & Compliance guide • Display cleaning cloth • Remote control