

# Lina System Specifications

# Lina Network DAC Specifications

<b>Product Dimensions / Weight</b>	121.5mm (H) x 220mm (W) x 339mm (D) 7.4kg
<b>Shipping Dimensions / Weight</b>	320mm (H) x 360mm (W) x 530mm (D) / 10.3kg
<b>Finish</b>	Black machined aluminium with crystal LED display
<b>Electronics</b>	<ul style="list-style-type: none"><li>• dCS Ring DAC and Digital Processing Platform on flex ridged PCB</li><li>• Stream Unlimited S800</li><li>• Automatic voltage switching</li></ul>
<b>Digital Inputs</b>	<ul style="list-style-type: none"><li>• 2 x AES/EBU on 3 pin XLR 44.1-384kS/s</li><li>• 1 x S/PDIF BNC Coax 44.1-192kS/s</li><li>• 1 x S/PDIF on RCA 44.1-192kS/s</li><li>• 1 x Toslink 44.1-96kS/s</li><li>• 1 x USB Type B 44.1-384kS/s, PCM and DSD, DSDx2 in Async Mode</li><li>• 1 x USB Type A connector for mass storage devices (navigated using Mosaic)</li></ul>
<b>Analogue Outputs</b>	<ul style="list-style-type: none"><li>• 1 x stereo pair 3 pin balanced XLR</li><li>• 1 x stereo pair unbalanced RCA</li></ul>
<b>Network Interface</b>	RJ-45 connector
<b>Streaming Compatibility</b> Supports the following platforms and services:	<ul style="list-style-type: none"><li>• UPnP</li><li>• Qobuz</li><li>• Deezer</li><li>• Tidal</li><li>• Internet Radio</li><li>• Spotify</li><li>• Apple AirPlay 2 (support at 44.1 or 48kS/s)</li><li>• RoonReady</li></ul>
<b>Sample frequencies and formats</b> Supports the following audio formats and sample rates	<ul style="list-style-type: none"><li>• 44.1-384kHz</li><li>• DSD 64, 128</li><li>• Native DSD + DoP (input dependent)</li><li>• FLAC, WAV, AIFF, MQA</li></ul>

<b>Upsampling</b>	Multi-stage DXD oversampling with switchable DSD
<b>Word Clock</b>	<ul style="list-style-type: none"><li>• 2 x Word Clock inputs on 75 <math>\Omega</math> BNC connectors</li><li>• Will lock to 44.1-192kHz</li></ul>
<b>Filters</b>	<ul style="list-style-type: none"><li>• PCM mode: 2 filters + MQA</li><li>• DSD mode: 4 progressive filters</li></ul>
<b>Crossfeed Settings</b>	<ul style="list-style-type: none"><li>• Standard crossfeed</li><li>• dCS Enhanced crossfeed (E1)</li><li>• dCS Enhanced crossfeed (E2)</li></ul>
<b>Power</b>	<ul style="list-style-type: none"><li>• IEC inlet &amp; power switch on rear panel</li><li>• 90-120v &amp; 220-240v, 50/60Hz nominal</li><li>• Automatic voltage switching</li><li>• Power synchronised with other dCS control link products (RJ45)</li></ul>
<b>Frequency Response (set to filter 1)</b>	<ul style="list-style-type: none"><li>• <math>F_s = 44.1</math> or <math>48\text{kS/s}</math> <math>\pm 0.1\text{dB}</math>, 10Hz-20kHz</li><li>• <math>F_s = 88.2</math> or <math>96\text{kS/s}</math> <math>\pm 0.1\text{dB}</math>, 10Hz-20kHz -3dB @ &gt;38kHz</li><li>• <math>F_s = 176.4</math> or <math>192\text{kS/s}</math> <math>\pm 0.1\text{dB}</math>, 10Hz-20kHz -3dB @ &gt;67kHz</li><li>• <math>F_s = 352.8</math> or <math>384\text{kS/s}</math> <math>\pm 0.1\text{dB}</math>, 10Hz-20kHz -3dB @ &gt;100kHz</li><li>• DSD64 <math>\pm 0.1\text{dB}</math>, 10Hz-20kHz -3dB @ &gt;90kHz</li><li>• DSD128 <math>\pm 0.1\text{dB}</math>, 10Hz-20kHz -3dB @ &gt;100kHz</li></ul>
<b>Residual Noise (6v output setting)</b>	<ul style="list-style-type: none"><li>• 16-bit data: Better than -96dB0, 20Hz-20kHz unweighted</li><li>• 24-bit data: Better than -113dB0, 20Hz-20kHz unweighted</li></ul>
<b>Spurious Responses</b>	Better than -105dB0, 20Hz-20kHz
<b>L-R Crosstalk</b>	Better than -115dB0, 20Hz-20kHz
<b>Included with your Lina Streaming DAC</b>	<ul style="list-style-type: none"><li>• 1 x mains cable</li><li>• 2 x XLR [0.5m]</li><li>• 1 x Ethernet cable [2m]</li><li>• 1 x Power Link cable [0.5m]</li></ul>

# Lina Master Clock Specifications

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

# Lina Headphone Amplifier Specifications

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

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**Included with your Lina  
Headphone Amplifier**

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