AURORA (n)

(n)ext Generation Mastering AD/DA Converter

32 CHANNELS
Dante - Pro Tools HD - Thunderbolt

24 CHANNELS
Dante - Pro Tools HD - Thunderbolt

16 CHANNELS
Dante - Pro Tools HD - Thunderbolt - USB

8 CHANNELS
Dante - Pro Tools HD - Thunderbolt - USB

Lynx AURORA$^{(n)}$ converter/interfaces

Unique Aspects About *Lynx* :

- **Design** – Aurora$^{(n)}$ is a high quality dedicated AD/DA converter designed to offer the best possible AD/DA conversion at all sample rates without compromise or coloration at a fair price. In other words – the Aurora provides extreme value and performance.

- **Transparent audio** – Signal coloration is additive and can kill an otherwise pristine mix.   On a single track it may not be noticeable, but becomes problematic when using/mixing multiple audio tracks or generations. That's why a colored mix begins to collapse while the transparent mix has space, definition and a level of realism and detail that is simply unattainable with converters that add color and distortion. Transparency matters! Lynx's hallmark sonic transparency is the reason why you'll find Lynx converters being used in the most mission-critical audio applications and in the world's finest audio recording facilities. From testing audio for high-end audio manufacturers to high-performance engineering applications at Boeing, XM Radio, and multiple medical device companies, Lynx converters have been specified for their uncanny ability to convert signals without adding any artifacts or color. For audio engineers and producers seeking the most pristine recordings and mixes Lynx is the converter of choice at facilities like Dolby's new mega complex of audio research, Skywalker Sound, NPR, Apple Music and the Smithsonian Institute.   Lynx converters pass the most stringent tests to become the converters of choice for these discerning customers. Precision matters more than ever with these customers and there is no place for even the slightest coloration or degradation of signal.

- **Full Windows and OSX compatibility** – Lynx is one of the few converter/interface brands that offers fully functional cross-platform compatibility at even the highest sampling rates.   Just ask your customer support network. We can't predict the future, but it's possible that Apple may continue to provide less options for pro audio connectivity in their line. Lynx is well positioned to support you regardless of your platform choice. Lynx is one of the few brands that develops drivers in house hence the enhanced windows compatibility and overall stability.

- **Honest and qualified specifications** – We go to great pains to provide specifications that accurately represent the entire audio signal chain – not *just* the converter chip. The figures we publish error on the conservative side to ensure each unit that leaves our facility will ***meet or exceed*** these values. Specifications have zero credibility if they are not qualified with testing parameters (signal level, frequency, bandwidth,…). It's easy to find a sweet spot during testing that provides an extremely low distortion measurement for example and publish that value, but that is not a real-world condition and is not what we do at Lynx.

- **Reliability** – Lynx is well known as the brand with one of the lowest failure rates in the industry. We design and build all our electronics in southern California under the most stringent tolerances.

- **Superior product support** – Lynx has built its reputation as the premier converter/interface company by having one of the best product support teams in the business. Our team is quick, responsive and well-armed to tackle just about any issue that may arise especially when it involves interfacing with other brands of gear.

Unique Aspects of the **AURORA**$^{(n)}$ models:

- **Discrete Converter Array** – Some manufacturers use multiple converters on a single chip. While that is one way to fit many converter channels in a single rack space while lowering costs, it comes at a steep cost in performance as well. At Lynx, the analog signal path for each channel has been designed as a self-contained and shielded circuit. Each channel pair has its own dedicated conversion device. This has *huge* sonic advantages by significantly reducing crosstalk and distortion while increasing dynamic range and performance as a whole.

- **Hilo Converter Technology (HCT)** – Design and technology borrowed from the design of the Hilo is used to significantly improve specifications and transparency over previous models while attaining Hilo-like performance. (see accompanying specification sheet)

- **Available in 8, 16, 24 or 32 channels of high performance conversion all in a single rack-space**

- **Future-Proof Design:**
  - **Configurable I/O**
    - **Add Channels** - Start with eight, sixteen or twenty four channels and later add additional groups of eight channels for up to thirty two total.
    - **Add Modules** –
      - Available now - the LM-DIG (AES digital I/O module) & LM-PRE4 (preamp module)
      - Coming Soon - analog summing module
      - More modules are being designed now for future release.
    - **Add Connection Method –** Thunderbolt, DANTE, ProTools|HD or USB via LSlot Cards
  - **Add Functionality –** Via firmware updates. Just as we have for Hilo and Aurora we will continue improve the Aurora$^{(n)}$'s functionality and build in new feature sets.

- **Micro SD Recorder/Player** – up to 32-channels of real-time 192K recording and playback via on-board device. A 256GB card will provide 8.3 hours of 32 channel/96K record/playback. Samsung has announced a 1TB card and the Aurora$^{(n)}$ will support up to a 2TB card when available. This means you can record **66.3 hours** of 32ch/96K audio on a 2TB card!

- **All new SynchroLock-2 high-performance sample clock technology** – Next generation of SynchroLock sample clock technology provides a whopping 300,000:1 reduction in jitter, 5 second lock time, extremely low jitter, and excellent absolute accuracy. Word clock I/O provides one input and three outputs on BNC connectors.

- **Two separate audiophile-grade headphone outs –** each with its own volume control.

- **Low noise, no fan, single rack-space design –** with improvements in heat dissipation and efficiency the 32 channel Aurora$^{(n)}$ radiates much less heat than its 16 channel predecessor. Like all Lynx converter/interfaces since it is silent so you can keep it in the same room that you are recording in with no need for isolation since there is no annoying fan noise.

- **Road ready rack reinforced chassis –** Aroura's have become the converter of choice for track playback and recording on some of the biggest touring shows and productions around the world. The Aurora$^{(n)}$ is designed to withstand the rigors of the road with new robust rack-to-chassis reinforcements.

- **Universal power supply – built in (no wall-warts)**

- **480 X 128 TFT Display** – This all new display is designed to our specs to ensure you can see every piece of critical data from just about any viewing angle.

- **Designed and built in Southern California, USA**

Lynx Converter Line Up

	Aurora	Aurora$^{(n)}$	*Hilo*	E22/E44
Line In				
THD+N				
1kHz, -1dBFS, 22-22kHz filter	-108 dB	-113dB	-114 dB	-111 dB
Dynamic Range				
A-weighted, -60dBFS signal	117 dB	119dB	121 dB	117 dB
Frequency Response Deviation				
20Hz - 20kHz band	± 0.10dB	± 0.01 dB	± 0.01 dB	± 0.05 dB
Crosstalk				
1kHz, -1dBFS	-120 dB	-130dB	-140 dB	-128 dB
Full Scale Trim Settings	+6dBV, 20dBu	+6dBV, 20dBu	+ 0dBV, +2dBV, +4dBV, +6dBV, +18dBu, +20dBu, +22dBu, +24dBu	+20dBu or variable +8.23dBu to +24dBu
Line Out				
THD+N				
1kHz, -1dBFS, 22kHz filter	-107 dB	-108dB	-109 dB	-108 dB
Dynamic Range				
A-weighted, -60dBFS signal	117 dB	120dB	121 dB	120 dB
Frequency Response Deviation				
20Hz - 20kHz band	±0.10dB	±0.025dB	± 0.02 dB	± 0.05 dB
Crosstalk				
1kHz, -1dBFS	-120 dB	-130dB	-135 dB	=E15-130 dB
Full Scale Trim Settings	+6dBV, 20dBu	+6dBV, 20dBu	+ 0dBV, +2dBV, +4dBV, +6dBV, +18dBu, +20dBu, +22dBu, +24dBu	+20dBu or variable +8.23dBu to +24dBu
Headphone Out				
THD+N				
1kHz, -1dBFS, 22-22kHz filter	N/A	-107dB	-107 dB	N/A
Dynamic Range				
A-weighted, -60dBFS signal	N/A	120dB	121 dB	N/A
Frequency Response Deviation				
20Hz - 20kHz band	N/A	±0.025dB	± 0.02 dB	N/A
Crosstalk				
1kHz, -1dBFS	N/A	-120dB	-130 dB	N/A
Output Level	N/A	+18.4dBu maximum	+19dBu maximum	N/A

	Aurora$^{(n)}$ 8	Aurora$^{(n)}$ 16	Aurora$^{(n)}$ 24	Aurora$^{(n)}$ 32
Analog Inputs	1 x DB25	2 x DB25	3 x DB25	4 x DB25
Analog Outputs	1 x DB25	2 x DB25	3 x DB25	4 x DB25
Digital Inputs	With Optional AES3/ADAT Module (Summer Availability)	With Optional AES3/ADAT Module (Summer Availability)	With Optional AES3/ADAT Module (Summer Availability)	With Optional AES3/ADAT Module (Summer Availability)
Digital Outputs	With Optional AES3/ADAT Module (Summer Availability)	With Optional AES3/ADAT Module (Summer Availability)	With Optional AES3/ADAT Module (Summer Availability)	With Optional AES3/ADAT Module (Summer Availability)
MIDI I/O	None	None	None	None
Rack Spaces	1U	1U	1U	1U
Depth	10" (25.4 cm)	10" (25.4 cm)	10" (25.4 cm)	10" (25.4 cm)
Width	19" (48.3 cm)	19" (48.3 cm)	19" (48.3 cm)	19" (48.3 cm)
Height	1.75" (4.5 cm)	1.75" (4.5 cm)	1.75" (4.5 cm)	1.75" (4.5 cm)
Weight	8 lbs. (3.6 kg)	8.2 lbs. (3.7 kg)	8.3 lbs. (3.8 kg)	8.4 lbs. (3.6 kg)

All specifications are subject to change without notice

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LYNX STUDIO TECHNOLOGY
20TH ANNIVERSARY
PRECISION CRAFTED IN CALIFORNIA
ESTABLISHED 1998