AURORA 8

Lynx STUDIO TECHNOLOGY

AURORA 8

■ world-class analog to digital and digital to analog conversion ■

Aurora 8 offers the same pristine, open audio quality as the Aurora 16 in a more affordable 8 channel format.

The Aurora™ line of digital audio converters from Lynx Studio Technology offers unprecedented audio quality and control in single-rack space eight and sixteen channel models. The Aurora 8 features 192 kHz analog to digital and digital to analog conversion with front panel control of all routing and sample rate options. Extended functions in Aurora are accessible via computer with the Lynx AES16/AES16e audio cards or Lynx LT expansion cards. The rear panel has Clock and MIDI In and Out connectors and an LSlot bay, for the optional use of other audio interfaces.

Aurora also avoids some of the limitations that other pro level converters have. Aurora does not have a noisy fan, does not lose channel count at higher sample rates and does not require costly analog and digital modules to achieve the unit's full channel count.

Several interfaces allow Aurora to be used in a number of different configurations. The LT-TB offers Thunderbolt™ connectivity for Mac or PC computers. LT-HD allows Aurora to be recognized by and controlled from an Avid® ProTools|HD®, HD Native, HDX system. 16 channels of ADAT Lightpipe I/O is made available with the LT-ADAT. LT-MADI allows up to four Aurora converters to send and receive up to 64 MADI channels. The LT-USB is a USB 2.0 device for up to 16 I/O channels. And Lynx AES16 and AES16e allow connection to a wide range of Windows and Macintosh computers.

Aurora can be used with virtually any audio content. Equalization and limiting functions, which can color or alter the sound, have not been added. Lynx's design provides accurate conversion, clear clean audio, wide imaging – the sound you put into Aurora is the sound that you get out of Aurora.

Aurora converters are preconfigured for three voltages. Aurora 115 volt models are available in the US, Canada, Mexico and Brazil. The 100 volt models are available in Japan only. 230 volt units are available throughout the rest of the world through authorized distributors and retailers.

AURORA 8 USB and HD Models

The Aurora 8 also can be purchased with the LT-USB or LT-HD cards preinstalled for a savings of $200 (if purchased separately). The Aurora 8HD converter is ready for ProTools|HD systems, for HD systems from versions 7.2 to HDX. All 8 analog and 8 digital channels are available. The Aurora 8-USB model offers 8 channels of 192 kHz I/O using your computers USB 2.0 or 3.0 ports. The Aurora 8TB offers 16 I/O channels via Thunderbolt for PC or Mac computers.

- Simultaneous 8 Channel Analog I/O and 8 Channel AES/EBU I/O
- 24 Bit / 192 kHz Mastering Quality A/D and D/A conversion
- 192 kHz AES/EBU I/O Supporting Single and Dual Wire Modes
- Single Rack Space Configuration
- Extensive Remote Control Capability via Lynx AES16, LT cards and MIDI
- On-board 16 Channel Digital Mixer Provides Flexible I/O Routing
- Word clock I/O with Lynx SynchroLock™ Sample Clock Technology
- Digital I/O DB-25 connectors follow Yamaha pinout protocol
- Analog I/O DB-25 connectors follow Tascam pinout protocol
- RoHS compliant
- Available in 100V, 115V and 230V models

SPECIFICATIONS

Analog I/O

Aurora 8	Eight inputs and eight outputs
Type	Electronically balanced or unbalanced,
Level	+4 dBu nominal / +20 dBu max. or
	-10 dBV nominal / +6 dBV max

Input Impedance

Balanced mode:	24k Ω
Unbalanced mode:	12k Ω

Output Impedance

Balanced mode:	100 Ω
Unbalanced mode:	50 Ω
Output Drive	600 Ω impedance, 0.2 μF capacitance
A/D and D/A Type	24-bit multi-level, delta-sigma

Analog In Performance

Frequency Response	20 Hz - 20 kHz, +0/-0.1 dB
Dynamic Range	117 dB, A-weighted
Channel Crosstalk	-120 dB maximum, 1 kHz signal, -1 dBFS
THD + N	-108 dB (0.0004%) @ -1 DBFS
	-104 dB (0.0006%) @ -6 DBFS
	1 kHz signal, 22 Hz - 22 kHz BW

Analog Out Performance

Frequency Response	20 Hz - 20 kHz, +0/-0.1 dB
Dynamic Range	117 dB, A-weighted
Channel Crosstalk	-120 dB max., 1 kHz signal, -1 dBFS
THD + N	-107 dB (0.00045%) @ -1 DBFS
	-106 dB (0.00050%) @ -6 DBFS
	1 kHz signal, 22 Hz - 22 kHz BW

Digital I/O

Number / Type

Aurora 8	8 inputs and 8 outputs
24 bit AES/EBU	format, transformer coupled

Channels

Aurora 8	8 in/out in single-wire mode
	4 in/out in dual-wire mode

Sample Rates

All standard rates and variable rates up to
192 kHz in both single-wire and dual-wire modes

On-board Digital Mixer (via AES16/AES16e/LT-USB)

Type	Hardware-based, low latency
Routing	Ability to route any input to any
	or multiple outputs
Mixing	Up to four input or playback signals
	mixed to any output, 40-bit precision

Connections

Digital I/O Ports

25-pin female D-sub connectors

Port A: channels 1-8 I/O

Yamaha pinout standard

Analog I/O Ports

25-pin female D-sub connectors.

Analog In 1-8

Analog Out 1-8

Tascam pinout standard

External Clock

75-ohm BNC word clock input and output

MIDI

One input and one output. For control and progamming only.

5-pin female DIN connectors

Remote Control Options

Function

Controls all I/O, levels, monitoring, routing

Method

Using AES16/AES16e or MIDI

General

AC Power

100 / 115 / 230 VAC, 70 watts

Size

1.75" H x 19" W x 9" D

Shipping Weight

12 pounds

Certifications

CE and FCC Class B EMI, CE Product Safety

LSlot™ Expansion Port

Compatibility

Supports Lynx LSlot expansion cards

Channels

Up to 16 input and 16 output simultaneously
at up to 192 kHz sample rate

Optional Interface Cards for LSLOT

LT-ADAT

Provides ADAT Optical I/O

LT-HD

Provides interface for Avid®

ProTools | HD® , HD Native, HDX systems

LT-MADI

Provides up to 64 MADI I/O channels

LT-USB

Provides up to 16 I/O channels, USB 2.0

LT-TB

Provides up to 16 I/O channels per Aurora 8.

Six can be used on a single Thunderbolt port