



# PRODUCT DATA

## 192 kHz Mastering Quality A/D D/A Converter

- Aurora 8: Simultaneous 8 Channel Analog I/O and 8 Channel AES/EBU I/O
- Aurora 16: Simultaneous 16 Channel Analog I/O and 16 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, IrDA and MIDI
- LSlot™ Expansion Slot for Current and Future Interface Options
- On-board Digital Mixer Provides Flexible I/O Routing
- Word clock I/O with Lynx SynchroLock™ Sample Clock Technology

Aurora 16 and Aurora 8 are 16 and 8 channel 24 bit /192 kHz analog-to-digital/digital-to-analog converters in a single-space rack-mount case. Representing Lynx Studio Technology's first rack-mount product, Aurora was developed using the next generation of Lynx acclaimed conversion technology and rock-solid digital interface circuitry. Both units are identical in features and specifications except for the number of I/O channels.

Aurora provides professional I/O interfaces for ease of installation in most studios and live sound applications. The analog I/O is electronically balanced and supports both +4dBu and -10dBV nominal levels. The AES digital I/O is transformer coupled and is capable of driving 500 feet of cable at 192 kHz. Both dual and single wire AES channel modes are supported.

Aurora's ergonomically designed front panel provides easy access to important controls and signal status. Unique to this product class, Aurora also offers extensive remote control capability. All front panel features as well as other low-level options can be controlled from the Lynx AES16 digital interface card on Windows and Macintosh platforms, a Pocket PC or laptop via infrared, MIDI, or an LSlot interface card. Multiple remote set-up configurations can be stored and recalled.

The on-board 32-channel digital mixer provides extensive routing and mixing options. Acting as a powerful patch bay style digital router, Aurora can easily route signals between analog and digital inputs on a channel-by-channel basis. Mixing capability on each output also provides flexible zero latency monitoring.

Lynx's proprietary SynchroLock™ sample clock technology is also included, an exclusive feature that provides 3000:1 jitter attenuation for external clock signals. The SynchroLock clock generator's output is an extremely low jitter clock source that drives the converters inside of Aurora and is available as an output for studio synchronization of other digital devices.

The LSlot expansion port accepts cards that provide compatibility with current and emerging digital interface standards. All analog and digital connections use DB25 connectors with industry standard pinouts which are compatible with off-the-shelf cables from manufacturers such as Lynx, Mogami, ProCo, Hosa and others.

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# LYNX AURORA 16 AND AURORA 8 SPECIFICATIONS

## ANALOG I/O

<b>Aurora 8</b>	Eight inputs and eight outputs
<b>Aurora 16</b>	Sixteen inputs and sixteen outputs
<b>Type</b>	Electronically balanced or unbalanced,
<b>Level</b>	+4 dBu nominal / +20 dBu max. or -10 dBV nominal / +6 dBV max
<b>Input Impedance</b>	Balanced mode: 24 Ω Unbalanced mode: 12 Ω
<b>Output Impedance</b>	Balanced mode: 100 Ω Unbalanced mode: 50 Ω
<b>Output Drive</b>	600 Ω impedance, 0.2 μF capacitance
<b>A/D and D/A Type</b>	24-bit multi-level, delta-sigma

## ANALOG IN PERFORMANCE

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

## ANALOG OUT PERFORMANCE

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

## DIGITAL I/O

<b>Number / Type</b>	Aurora 8: 8 inputs and 8 outputs Aurora 16: 16 inputs and 16 outputs 24 bit AES/EBU format, transformer coupled
<b>Channels</b>	Aurora 8: 8 in/out in single-wire mode 4 in/out in dual-wire mode Aurora 16: 16 in/out in single-wire mode 8 in/out in dual-wire mode
<b>Sample Rates</b>	All standard rates and variable rates up to 192 kHz in both single-wire and dual-wire modes

## ON-BOARD DIGITAL MIXER (VIA AES16)

<b>Type</b>	Hardware-based, low latency
<b>Routing</b>	Ability to route any input to any or multiple outputs
<b>Mixing</b>	Up to four input or playback signals mixed to any output, 40-bit precision
<b>Status</b>	Peak levels to -114 dB on all inputs and outputs

## CONNECTIONS

<b>Digital I/O Ports</b>	25-pin female D-sub connectors Port A: channels 1-8 I/O Port B: channels 9-16 I/O (Aurora 16 only) Yamaha pinout standard
<b>Analog I/O Ports</b>	25-pin female D-sub connectors. Analog In 1-8 Analog In 9-16 (Aurora 16 only) Analog Out 1-8 Analog Out 9-16 (Aurora 16 only) Tascam pinout standard
<b>External Clock</b>	75-ohm BNC word clock input and output
<b>MIDI</b>	One input and one output. Standard opto-isolated, 5-pin female DIN connectors

## REMOTE CONTROL OPTIONS

<b>Function</b>	Controls all I/O, levels, monitoring, routing and setting recall
<b>Method</b>	AES16: With PC or Macintosh IrDA: For compatible Pocket PCs and laptops. MIDI: Selected MIDI devices

## GENERAL

<b>AC Power</b>	110 / 115 / 230 VAC, 70 watts
<b>Size</b>	1.75" H x 19" W x 9" D
<b>Shipping Weight</b>	12 pounds
<b>Certifications</b>	CE and FCC Class B EMI, CE Product Safety

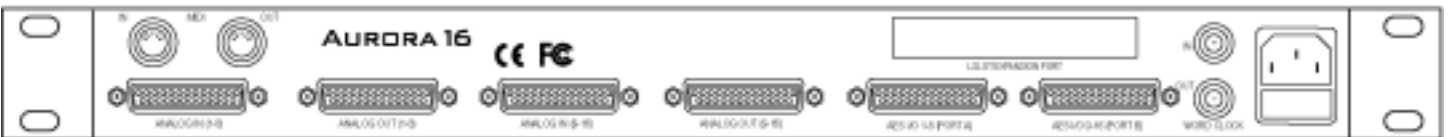
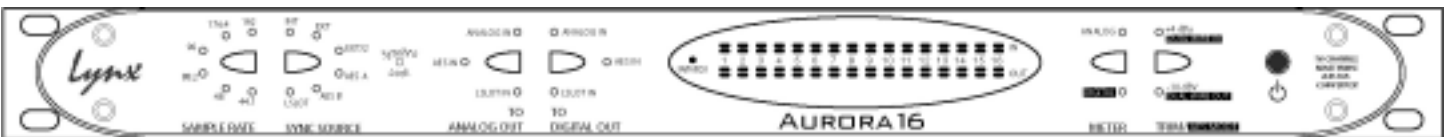
## LSLOT™ EXPANSION PORT

<b>Compatibility</b>	Supports Lynx LSlot expansion cards
<b>Channels</b>	Up to 16 input and 16 output simultaneously at up to 192 kHz sample rate

## OPTIONAL INTERFACE CARDS FOR LSLOT

<b>LT-ADAT</b>	Provides 16-channel at 48 kHz, 8-channel at 96 kHz, 4-channel at 192 kHz ADAT Optical I/O
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Please check the Lynx Studio technology web site for updates on upcoming LSlot devices.



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