AURORA 8   AURORA 16
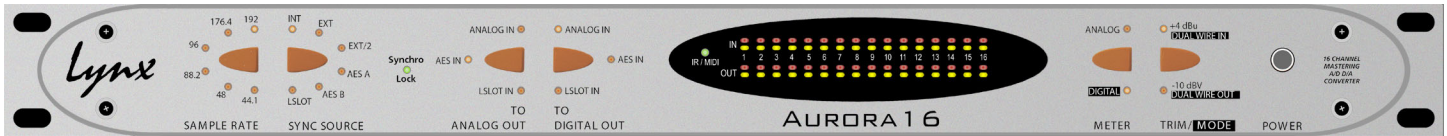
○ **Aurora 8: Simultaneous 8 Channel Analog I/O and 8 Channel AES/EBU I/O**

○ **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 Firewire®, ADAT®, and Future Interface Options**

○ **On-board Digital Mixer Provides Flexible I/O Routing**

○ **Word clock I/O with Lynx SynchroLock™ Jitter Reduction 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 192kHz. 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.

The LSlot expansion port accepts cards that provide compatibility with current and emerging digital interface standards, including Firewire, ADAT, and others. In addition to soon-to-be released LSlot cards, the LSlot port is compatible with existing Lynx LStream cards including the LS-ADAT and LS-AES.

Lynx's proprietary SynchroLock™ jitter reduction technology, from the AES16, is also included. This exclusive feature provides extreme jitter reduction of up to 3000:1, allowing Aurora to output an extremely clean clock output for driving the digital audio system.

All analog and digital connections use DB25 connectors with industry standard pinouts which are compatible with off-the-shelf cables from manufacturers such as Mogami, ProCo, Hosa and others.

LYNX AURORA 16 AND AURORA 8 SPECIFICATIONS

ANALOG I/O

Aurora 8	Eight inputs and eight outputs
Aurora 16	Sixteen inputs and sixteen outputs
Type	Electronically balanced or unbalanced,
Level	+4 dBu nominal / +20 dBu max. or
	-10 dBV nominal / +6 dBV max
Input Impedance	Balanced mode: 24 Ω
	Unbalanced mode: 12 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
	Aurora 16 - 16 inputs and 16 outputs
	24 bit AES/EBU format, transformer coupled
Channels	16 in/out in single-wire mode
	8 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

LSLOT™ EXPANSION PORT

Compatibility	Supports Lynx LSlot and LStream expansion cards
Channels	Up to 16 input and 16 output simultaneously @192 kHz sample rate

ON-BOARD DIGITAL MIXER (VIA AES16)

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
Status	Peak levels to -114 dB on all inputs and outputs

CONNECTIONS

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

REMOTE CONTROL OPTIONS

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

GENERAL

AC Power	110 / 115 / 230 VAC, 70 watts
Size	1.75" H x 19" W x 9" D
Shipping Weight	10 pounds
Certifications	CE and FCC Class B EMI, CE Product Safety

OPTIONAL INTERFACE CARDS FOR LSLOT

LS-ADAT	Provides 16-channel at 48 kHz, 8-channel at 96 kHz, 4-channel at 192 kHz ADAT Optical I/O
LS-AES	Provides 8-channel at 96 kHz or 4-channel at 192 kHz AES/EBU or S/PDIF digital I/O
LT-FW800	LSlot card. 16-channel Firewire I/O connection
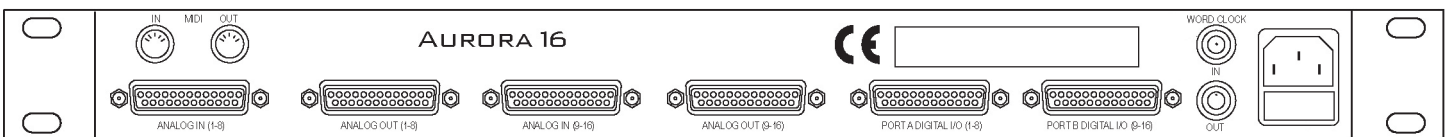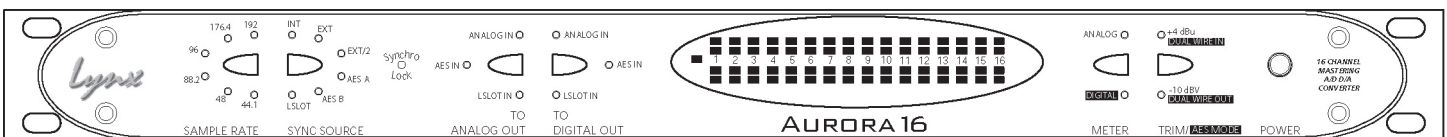
Preliminary specifications subject to change.