

Lynx ONE

Studio / Broadcast Interface

- Stereo 24-bit Analog Inputs and Outputs
- AES/EBU and S/PDIF Digital I/O at Sample Rates up to 96 kHz
- Pro Level Balanced Analog I/O
- Two Smart, Deeply Buffered MIDI Ports
- Low Jitter, Highly Adjustable Sample Clock
- Software Controlled Mixer Provides Simple Setup and Flexible Routing
- Supports Simultaneous Four Channel Recording and Playback
- External Word Clock and AES/EBU Sync
- Windows and Macintosh Drivers, Pro Quality Cables Included

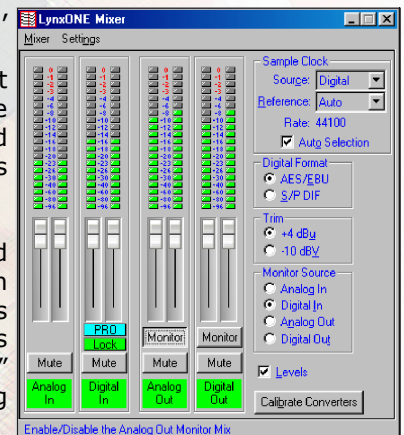
A staple in broadcast, mastering and recording facilities worldwide, the LynxONE is a proven standard for professional-grade computer-based audio. Integrating digital audio and MIDI into a half-size PCI card, LynxONE provides music and production professionals with an exceptional sounding, high performance audio production tool at an affordable price.

The LynxONE is the perfect "front-end" for any studio quality audio or MIDI workstation. Whether the application requires uncompromising analog I/O, bit-perfect digital I/O, or 32 channels of low-latency MIDI, LynxONE is up to the task. LynxONE's compatibility with all popular audio editing and MIDI sequencing software allows users to choose their own working environments. Applications include critical audio recording and editing, broadcast, CD mastering, restoration, audio for video, music composition, and MIDI sequencing.

Supporting both AES/EBU and S/PDIF formats, LynxONE provides direct connectivity to any studio device with digital I/O. LynxONE also has extensive compatibility with the major recording, mastering, MIDI sequencing and production applications. With its low-jitter on-board sample clock, LynxONE is well suited as a clock source for your entire studio.

The analog and digital inputs and outputs on LynxONE can be used simultaneously to provide up to four channels of recording and playback, with the selection of either the analog or digital inputs as the monitor source. This signal can be mixed with playback audio on either the analog or digital outputs or both simultaneously. In addition, LynxONE can be used for "stand-alone" A/D or D/A conversion. Because mixing is performed in hardware, recording input-to-output delay is extremely low.

All of this would be meaningless without LynxONE's pristine audio quality. With full range 20 Hz to 20 kHz frequency response, its dynamic range is >106 dB on the analog inputs and outputs. Professional usage is further enhanced with the professional quality cables that are included with LynxONE. Analog and digital inputs and outputs use high quality XLR connections, with four 5-pin MIDI connectors and two BNC connectors for clock I/O.



Complete software control is provided with the LynxONE Mixer, which permits keyboard and mouse control of volume, sample clock generator, digital I/O format, analog trim, and input monitoring.

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PRODUCT DATA

LYNXONE SPECIFICATIONS

ANALOG I/O

Number / Type	Two inputs and two outputs / cross-coupled electronically balanced or unbalanced XLR connectors on L1Audio cable
Level	+4 dBu nominal /+20dBu max. or -10dBV nominal / +6dBV max., 600 Ω load on outputs
Input Impedance	Balanced mode: 24 k Ω Unbalanced mode: 12 k Ω
Output Impedance	Balanced mode: 100 Ω Unbalanced mode: 50 Ω
Output Drive Capability	600 Ω impedance 0.16 μ F capacitance
A/D and D/A Type	Crystal Semiconductor, 24-bit 128X oversampling, delta-sigma
Sample Rates	8 kHz to 50 kHz, including all standard rates with high-resolution adjustment
Bit Depth	8, 16, 24 or 32 bit file types
On-board Buffer Size	8 Kbytes X 2, for L/R input and output

ANALOG PERFORMANCE

(MEASURED IN 24-BIT MODE WITH CARD INSTALLED IN COMPUTER)

Frequency Response	20 - 20 kHz, +0/-0.35 dB
Dynamic Range	>106 dB, A-wtd., analog in or analog out using -60 dBFS measurement method
Signal-to-Noise	>99 dB, A-wtd., analog in to analog out
Channel Crosstalk	<-103 dB, analog in to analog out 1 kHz signal @ -1 dBFS
Input THD+N	0.0022% typical, 1 kHz signal @ -1 dBFS, 22 - 22 kHz BW, analog input to digital output
Output THD+N	0.0015% typical, 1 kHz signal @ -1 dBFS, 22 - 22 kHz BW, digital input to analog output

DIGITAL I/O

Number / Type	One input and one output / AES/EBU or S/PDIF format, transformer coupled XLR connectors on L1Audio cable
Sample Rates	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
Bit Depth	8, 16, 24 or 32 bit file types
On-board Buffer Size	8 Kbytes X 2, one each for input and output

MIDI I/O

Number / Type	Two ports each with input and output / Standard opto-isolated, 5-pin female DIN connectors on MIDI/Clock cable
Buffer Size	64 bytes, receive and transmit

CLOCK I/O

Number	External: one BNC input and output on MIDI/Clock cable Internal: one input and output on board-mounted headers
Level / Impedance	TTL / 75 Ω
Type	Input: word clock, 256X word clock, 13.5 and 27 MHz video clocks Output: word clock

CONNECTIONS

Audio Port	Bracket-mounted 25-pin female D-sub connector for L/R analog in, L/R analog out, digital in and out
MIDI/Clock Port	Bracket-mounted 15-pin high-density female D-sub connector for MIDI port 1 in and out, MIDI port 2 in and out, clock in and out

CABLES

Audio (included)	Six foot, 25-pin male D-sub to (3) male XLR and (3) female XLR connectors, shielded twisted pair cabling
MIDI/Clock (included)	Two foot, 15-pin high-density male D-sub to (4) 5-pin female DIN connectors with shielded twisted pair cabling and (2) female BNC connectors with 75 Ω coaxial cabling

SOFTWARE

Windows Drivers	Windows 95 / 98 / ME / NT / 2000 / XP: MME, ASIO 2.0, and DirectSound
Macintosh Driver	ASIO 2.0 for OS9
Mixer Application Controls	Level meters, volume, mute, input monitoring, sample clock control, digital I/O format, analog trim, converter calibration

GENERAL

PCI Bus	Version 2.1 compliant, Transfer rate: up to 132 Mbytes/sec, 5 volt signaling
Power	+5V @ 400 mA, +12V @ 220 mA -12V @ 95 mA
Size	5.0" H X 7.4" W X 0.75" D (half-size PCI card)
Shipping Weight	2.7 pounds with cables
Certifications	CE and FCC Class B



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