

PRESS RELEASE

Lynx Achieves Near-Zero Latency for Thunderbolt and PCI Express Products

Latency of less than one millisecond roundtrip latency attainable with latest offering

COSTA MESA, CA ~ OCTOBER 6, 2015 Lynx Studio Technology has released new firmware and driver sets for the Aurora and Hilo Thunderbolt converters and the AES16e, E44 and E22 PCI Express cards. A comprehensive reevaluation of Lynx firmware and software design has yielded an industry-leading, verifiable latency standard. Actual measurements of the Lynx AES16e in Windows and the Aurora 16 TB Thunderbolt model in Mac OSX show 0.95 millisecond roundtrip latency at a sample rate of 96 kHz, 32 sample buffer. Similar tests showed 2.2 millisecond roundtrip latency at 44.1 kHz and a 32 sample buffer.

“Latency is a critical factor to consider when selecting DAW hardware and software. Our goal has always been to minimize latency in order to provide our customers with optimal performance particularly when doing overdubs,” explained Bob Bauman, Lynx cofounder and Chief Hardware Engineer. “Recently we decided to do another review of latency in systems using our hardware and the latest DAW software. After analyzing the data we collected, we found ways we could tweak the hardware to reduce latency even further. These tweaks involved low-level adjustments to PCI Express bus transactions and fine-grain buffering controls. The latest version of firmware implements these changes.”

“Our goal was to minimize latency at every step in the audio chain. The results speak for themselves,” stated Lynx cofounder and Chief Software Engineer David A. Hoatson. “For instance, the E44 PCI Express Card at 48 kHz with a 32 sample buffer has an input latency of 0.958 ms and an output latency of 0.917 ms for a round trip latency of 1.875 ms. At 96 kHz those numbers are reduced to 0.448 ms input, 0.417 ms for a round trip latency of 0.865 ms. At 192 kHz the input latency is 0.219 ms and the output latency is 0.208 ms for a round trip latency of 0.427 ms.”

This is a free download from the Lynx Studio Technology website and is available for all Aurora and Hilo converters using the LT-TB Thunderbolt card, AES16e, E44 and E22 PCI Express cards.

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Lynx Studio Technology, Inc. designs and manufactures professional audio products for applications such as audio production, delivery, and testing for recording studios, project studios, post production studios, home studios, and live concert settings. Utilizing cutting-edge technology to create the highest quality products at a good value to the customer, Lynx is focused on “linking” the professional audio world with computers by utilizing their many years of experience in both hardware design and device driver coding. This complementary expertise is borne out in reliable products that not only have great specifications, but are also shipped with extremely stable and well-tested drivers. Support for Windows and Macintosh platforms are standard for all products.