

Tektronix and NEC Electronics America Collaborate on First Public Demonstration of Complete SuperSpeed USB Test Solution at CES 2009

Two Companies Join Forces to Advance an Emerging Serial Standard and Highlight Test Solutions

BEAVERTON, Ore., January 26, 2009 – Tektronix, Inc., a leading worldwide provider of test, measurement and monitoring instrumentation, collaborated with NEC Electronics America, Inc. on the first public showing of NEC Electronics' new SuperSpeed USB (USB 3.0) device prototypes at the 2009 Consumer Electronics Show. NEC Electronics, a global leader in the design and production of integrated circuits, worked with Tektronix to prove that its new silicon components meet the requirements of the emerging SuperSpeed USB standard. The working USB 3.0 demonstration featured NEC Electronics' USB 3.0 PHY test chip and was the industry's first receiver and transmitter demonstration based on the USB 3.0 Rev1.0 specification.

Stringent interoperability standards, and positive proof of compliance with them, are hallmarks of today's successful high speed serial bus architectures. With data rates reaching 5 Gb/s, SuperSpeed USB performance enters the realm of other cutting-edge protocols such as PCI Express® 2.0 and SATA Gen 3. Testing is a complex measurement challenge that must be answered with instruments having exceptional performance and flexibility, as well as tools that provide speed and simplify setup tasks, measurement steps, and analysis. The Tektronix SuperSpeed USB solution is the first toolset to meet all the transmitter and receiver test requirements outlined in the SuperSpeed USB specification.

"As a leading supplier of USB and PCI Express technologies, NEC Electronics offers all of the building blocks required to develop the next-generation of USB technology, and we are pleased to work with one of the leaders in test and measurement equipment like Tektronix to foster development of the emerging SuperSpeed USB standard," said Kats Nakazawa, general manager, digital consumer and connectivity strategic business unit, NEC Electronics America. "Tektronix provides the SuperSpeed USB ecosystem with much needed test equipment to aid implementation and acceptance of the SuperSpeed USB technology."

"The SuperSpeed USB collaboration between Tektronix and NEC Electronics America puts our commitment behind the new standard," said Ian Valentine, general manager, Technology Solutions Group, Tektronix. "Our tools worked on the front lines with NEC Electronics' America's designers, supporting the development of an emerging technology and giving the designers an efficient way to test their silicon for compliance as their devices evolved through the design process."

Tektronix Solution Helps Designers Prepare for SuperSpeed USB Compliance

Production SuperSpeed USB interface ICs are expected to arrive in early 2010. Today, designers anxious to incorporate the new technology into their products are concerned about ensuring their physical layer (PHY) design conforms to the USB specification. The Tektronix USB Testing Solution is a complete toolset for this job.

The Tektronix SuperSpeed USB compliance solution is built on a foundation of instruments — real-time and sampling oscilloscopes, logic analyzers and more — that offer measurement performance that meets the demands of high speed serial protocols. The DSA71254 real-time oscilloscope, for example, delivers bandwidth five times that of the serial signal's clock rate. This is the "fifth harmonic" that is so critical to eye diagram analysis. Similarly, the AWG7122B arbitrary waveform generator provides complex waveforms containing stresses that mimic the degrading effects of transmission paths to support receiver testing. These hardware tools are paired with expert software applications such as the DPOJET Jitter and Eye Diagram Analysis Tool and SerialXpress Advanced Jitter Generation Tool to provide designers the tools they need to verify and debug their designs.

About Tektronix

Tektronix is a leading supplier of test, measurement, and monitoring products, solutions and services for the communications, computer, and semiconductor industries - as well as military/aerospace, consumer electronics, education and a broad range of other industries worldwide. With 60 years of experience, Tektronix enables its customers to design, build, deploy, and manage next-generation global communications networks, advanced and pervasive technologies. Headquartered in Beaverton, Oregon, Tektronix has operations in 19 countries worldwide. Tektronix' Web address is www.tektronix.com.

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