

Tektronix Delivers USB 2.0 Bus Analysis Solutions for the Embedded Design Engineer

New Module Delivers Packet-level Automatic Trigger, Decode and Search for Bench Oscilloscopes

BEAVERTON, Ore., December 9, 2009 - Tektronix, Inc., a leading worldwide provider of test, measurement and monitoring instrumentation, today announced the DPO4USB module for triggering and analysis on USB serial buses – an industry first for bench oscilloscopes which start at less than \$10,500. The DPO4USB module addresses a key challenge facing today's embedded design engineer – the explosion of USB buses both for system-to-system and chip-to-chip communications. The new module complements the MSO/DPO4000 Series oscilloscopes and automates key measurement and analysis tasks on USB 2.0 low-speed, full-speed and high-speed buses, enabling engineers to more quickly troubleshoot and debug their designs for a faster time to market.

The DPO4USB module addresses the needs of designers integrating USB 2.0 buses into products ranging from toys to medical equipment and industrial systems to digital cameras and video recorders. Designers need tools that can help them decode and debug these buses efficiently. The DPO4 USB module instantly decodes the protocol, presenting the acquired waveforms and decoded data packets time-aligned on the oscilloscope display, and provides the ability to automatically trigger on and then search for specific packet level content.

“Today's engineer is facing a changing design landscape – USB 2.0 communication buses that were once found only in computer applications are now found in a wide variety of embedded applications. Designers want solutions that simplify complex measurements and debug tasks, allowing them to focus their efforts on innovation and problem-solving,” said Roy Siegel, General Manager, Mid-range Oscilloscope Product Line, Tektronix. “We are committed to providing the bench instruments required by embedded designers to speed and simplify debug of their complex designs. We are proud to offer this new capability on our lower cost bench oscilloscopes which will help more engineers across multiple industries achieve faster time to market.”

USB Module Automates Complex Tests to Simplify Debug

The versatile oscilloscopes in the MSO/DPO4000 Series have earned a reputation as productivity leaders thanks to unique features like Digital Phosphor Technology for discovering glitches and infrequent events, over 125 trigger combinations including setup and hold violations, and the Wave Inspector™ search/navigation toolset as well as the integrated protocol-specific analysis modules and more. The new DPO4USB module adds to this feature set and transforms the host oscilloscope into a powerful acquisition, display, and analysis solution for validating and troubleshooting USB 2.0 buses.

The DPO4USB serial triggering and analysis module, like other Tektronix serial bus application modules, is a debug tool that delivers unsurpassed insight into serial bus behavior. For USB 2.0 low-speed and full-speed data rates, it triggers on user-defined packet content and then displays the results as time-correlated waveforms and data packets. For all USB 2.0 data speeds including high-speed, the module enables the oscilloscope to automatically decode packet streams, showing critical information like SYNC, handshake packets, token packets, data packets and more. Using the oscilloscope's standard Wave Inspector tools, designers can search packet-level content and mark points of interest, and then navigate among these with the Next and Previous keys and the Pan/Zoom controls.

Pricing and Availability

The new application module is compatible with Tektronix oscilloscopes in the MSO4000 Series (three

models) and the DPO4000 Series (three models). For high-speed USB 2.0 support, a 1 GHz model is required. U.S. MSRP list price for the DPO4USB serial triggering and analysis module is \$1,500 and will be available for purchase on December 9, 2009 .

Tektronix USB Solutions

Tektronix offers a range of USB measurement and analysis solutions, from decode of bus data to physical layer and compliance test, for USB 2.0, USB 3.0 and Wireless USB . To learn more, visit www.tektronix.com/usb.

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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, computing and advanced technologies. Headquartered in Beaverton, Oregon, Tektronix has operations in 19 countries worldwide. Tektronix' Web address is www.tektronix.com.

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