Tektronix Newsroom

Tektronix Adds to Industry-Leading Performance Mixed Signal Oscilloscope Family

New MSO/DPO70000DX Series Enhances Mixed Signal Performance and Probing Capability Out to 33GHz, Offers Upgrade Path as Needs Change

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BEAVERTON, Ore., July 23, 2013 /PRNewswire/ -- Tektronix, Inc., the world's leading manufacturer of oscilloscopes, today introduced the new MSO/DPO70000DX Series of performance oscilloscopes that feature models with 23GHz, 25GHz, and 33GHz bandwidth and enhanced tools for debugging digital and analog circuits. The company also announced the world's fastest and lowest noise oscilloscope probe with 33GHz bandwidth and industry leading sensitivity for low-voltage, high-speed serial and RF signals.

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(Logo: http://photos.prnewswire.com/prnh/20130103/SF36616LOGO-b)

With the new MSO70000DX mixed signal oscilloscopes, Tektronix continues to expand the industry's deepest portfolio of MSO's from 70MHz all the way up to 33GHz in analog bandwidth. With 16 digital channels provided on all Tektronix MSO's, engineers are connecting and observing a greater amount of their design's electrical behavior at one time, which shortens debug cycles and system validation. This enables design teams to complete electronic design characterizations on schedule. The new MSO70000DX instruments provide an industry-best 80 picosecond timing resolution on its 16 digital channels. This enables engineers to get accurate feedback on logic or protocol performance for serial buses like USB, I^2C, and SPI in real-time while performing analog validation of high speed DDR memory on the 4 high-bandwidth channels.

"DDR4 expands the reach of leading-edge memory technology into the performance server marketplace," said Mian Quddus, chairman of JEDEC. "JEDEC applauds the introduction of tools that simplify the validation of these server platforms and ensure these designs will reach customers sooner and with greater reliability."

With the addition of the 33GHz P7600 series TriMode™ probe; Tektronix has the highest bandwidth probing system on the market. The industry leading TriMode™ probing system gives engineers a single probe setup for differential, single ended and common mode measurements for more value from each scope channel.

"Debugging the latest high-speed serial buses requires high-performance and the flexibility of analog and digital inputs," said Brian Reich, general manager, Performance Oscilloscopes, Tektronix. "For engineers working with PCIe3, M-PHY, SuperSpeedPlus USB, and LPDDR3 or DDR4 memory, the 70000DX series delivers the necessary bandwidth along with integrated debugging tools and award-winning innovations such as Visual Trigger to help ensure that projects stay on track and on budget."

More Performance and Value

Compared to the previous 70000D series oscilloscopes, new MSO/DPO70000DX models offer improved performance and capabilities at overall greater value. Moreover, the new models offer customers a variety of upgrade options to preserve investments as needs change including bandwidth upgrades, product conversions and trade-up programs. For example, the analog-only DPO70000DX versions provide options to add digital

channels as needs change via a customer-installable kit.

The MSO models are available with 23GHz, 25GHz, and 33GHz bandwidth and include iCapture™ simultaneous digital-analog acquisition capability, unique to Tektronix performance MSOs and logic analyzers. This feature allows the engineer to easily and quickly verify the analog characteristics of any of the 16 signals connected to the MSO70000DX series' digital channels without changing probes or connections.

Both the MSO and DPO models in the new series feature wider dynamic range of 600mV/div (6V full scale) at maximum voltage setting, five times more than the 70000D series. Record length is now four times as long at 1Gsamples/channel on two channels. Processor speed has also been improved which enables faster decode on longer records. In addition, the instruments support a more than 300,000 wfms/s acquisition rate.

Highest bandwidth TriMode Probe
Complementing the MSO/DPO70000DX oscilloscopes are the P7600 series family of performance probes that now feature the industry's highest available bandwidth at 33GHz coupled with increased sensitivity to 3.48mV/div. Their "remote head" architecture offers the shortest path to the input signal and lowest noise performance in its bandwidth class. The TriMode design provides the convenience of being able to perform differential, single-ended and common mode measurements with a single coax or solder-down connection.

Availability & Pricing
MSO/DPO70000DX series oscilloscopes are available for order now with shipments beginning in September 2013. Pricing starts at $178,000 U.S. MSRP. P7600 33GHz probes are available now.

Wondering what else Tektronix is up to? Check out the Tektronix Bandwidth Banter blog and stay up to date on the latest news from Tektronix on Twitter and Facebook.

About Tektronix
For more than sixty-five years, engineers have turned to Tektronix for test, measurement and monitoring solutions to solve design challenges, improve productivity and dramatically reduce time to market. Tektronix is a leading supplier of test equipment for engineers focused on electronic design, manufacturing, and advanced technology development. Headquartered in Beaverton, Oregon, Tektronix serves customers worldwide and offers award-winning service and support. Stay on the leading edge at www.tektronix.com.

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