New Instrument Offers Reliable Data Capture Rates up to 4 Gb/s

SANTA CLARA, Calif. -- (BUSINESS WIRE) -- Agilent Technologies Inc. today introduced the industry's fastest logic analyzer. The new instrument combines an industry-leading state capture speed of 4 Gb/s on 68 channels and 2.5 Gb/s on 136 channels with the ability to reliably capture data on the industry's smallest eye openings, as small as 100 ps by 100 mV. These capabilities allow engineers to measure the increasingly fast digital signals used in emerging technologies and validate and troubleshoot their designs with confidence.

The Agilent U4154A AXIe-based logic analyzer module and associated probes and powerful analysis software provide essential capabilities for engineers working with DDR (double data rate) memory systems, high-speed application-specific integrated chips, analog-to-digital converters and field-programmable gate arrays operating at speeds up to 4 Gb/s.

Timing zoom provides simultaneous state and timing measurements with 80 ps timing resolution and 256 K-sample memory depth, which gives designers more insight into problems by allowing simultaneous state and high-resolution timing measurements over a 20-us time span. The industry's highest trigger sequencer speed (2.5 Gb/s) gives engineers the ability to trigger reliably on sequential events on DDR memory and other high-speed signals without having to give up triggering flexibility.

At high speeds, signal integrity validation becomes critical for reliable performance. Validating signal integrity on all channels of a DDR system with an oscilloscope can be very time consuming. The exclusive eye-scan capability of the U4154A allows a quick overview of signal integrity on all signals of a DDR system in a fraction of the time it takes using alternative methods. Software and probes for the U4154A logic analyzer help engineers complete their tasks.

* The Agilent B4622A DDR2/3 protocol-compliance and analysis tool automates measurements on deep DDR bus traces to help engineers quickly identify protocol problem areas. The software provides an overview of system performance.

* Agilent and its channel partners offer a broad range of probing solutions compatible with the U4154A, including DDR BGA probes and interposers as well as Agilent soft-touch probes for midbus probing.

The U4154A logic analyzer module is compatible with Agilent's M9502A two-slot AXIe chassis. Multiple modules can be combined on a single time base and trigger sequencer. Multiple modular systems, including Agilent 16900 series frames, can be combined for time-correlated measurements on multiple buses in a system.

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