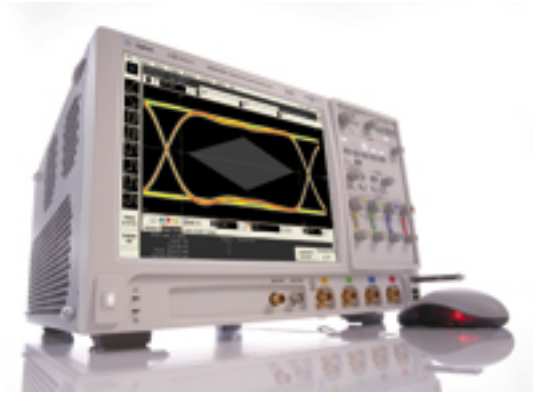
Oscilloscope Breaks Samples Barrier



Agilent Technologies Inc. has broken the one-billion acquisition samples (1 Gpt) barrier for the first time in a high-performance oscilloscope. The new Agilent Infiniium 90000A Series not only offers one of the deepest acquisition memory depths, but it also offers a unique hardware/software integrated triggering system, designated InfiniiScan Plus. The InfiniiScan Plus enables 150 picoseconds hardware-event identification and 75 picoseconds software-event identification.

The ultra-deep memory options in the Infiniium oscilloscope are able to capture 25 milliseconds of time, at 40 GSa/s, on all four channels simultaneously. This is a 6x increase over other oscilloscopes in the same class. Powered by Infiniium data accelerator technology, deep memory captures provide ultra-fast data offload, with rapid access to offline analysis. This new Infiniium platform provides desirable measurement performance coupled with Agilent's good signal integrity. Both the DSO and DSA models are capable of more than 150,000 measurements per second and modes supporting over 300,000 triggers per second.

""The Infiniium 90000A Series enables our customers to analyze and debug leading-edge, high-speed digital and RF technologies that require the best signal integrity, the longest memory depth and deep analysis capability," said Jay Alexander, vice president and general manager of Agilent's oscilloscopes business. The Agilent 90000A Series oscilloscope features industry-leading noise floor on all models (for example, 147 micro-volts rms noise floor at 5 milli-volts per division setting for 2.5 GHz model) using the company’s RF design expertise, proprietary packaging technologies and unique CMOS ADC architecture. Its deep application analysis will enable engineers to debug and characterize digital systems faster than ever before. The new InfiniiScan Plus event identification system is based on an advanced hardware trigger system that can identify glitches faster than 250 ps. Infiniium 90000A will offer a three-level trigger system, combining multiple hardware triggers with the InfiniiScan software, providing virtually infinite trigger combinations for any debug situation.

With more than 29 applications &#151 including DDR, PCI EXPRESS&reg, DisplayPort, HDMI, Serial ATA, Serial Attached SCSI, Ethernet families, USB, wireless USB, jitter analysis, RF signal analysis, eye pattern analysis and protocol decoding

analysis &#151 Agilent's Infiniium 90000A Series oscilloscopes offer the right amount of memory to verify application compliance and also debug the most difficult electronic designs shortening their debug and characterization time.

This new series of oscilloscopes includes 2.5, 4, 6, 8, 12, and 13 GHz models with memory options of 10, 20, 50, 100, 200, 500 and 1 Gpts.

"At NVIDIA, we are always pushing the envelope with regard to process technology and developing new interface standards," said Bill Simms, manager of Mixed Signal Design Validation at NVIDIA Corp. "To analyze these interfaces, we require oscilloscopes to have high bandwidth, deep capture memory and fast data processing. The Agilent DSA90000A oscilloscope helps us to not only capture large amounts of data, but also to process that data record in a much shorter time. This improves our development time and shortens our time to market."

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