

Tektronix Implements Ultra-Wide Bandwidth 5G Backhaul Signal Analysis in DPO70000SX Oscilloscopes

Addition of SignalVu Software Delivers Unprecedented Margins of Error Even on Wide Bandwidth Signals Including 5G, Cellular Backhaul and Radar

BEAVERTON, Ore., Sept. 28, 2015 /PRNewswire/ -- Tektronix, Inc., the world's leading manufacturer of oscilloscopes, today announced the implementation of SignalVu software on its family of DPO70000SX ATI Performance Oscilloscopes. This will allow researchers and others engaged in developing next generation wide- and ultra-wide bandwidth technologies such as 5G, cellular backhaul and radar to perform RF modulation measurements with unprecedented margins of error.

The DPO70000SX 70 GHz ATI oscilloscopes feature the lowest-noise and highest effective bits of any ultra-high bandwidth real-time oscilloscope available on the market. SignalVu takes full advantage of this signal fidelity to deliver the industry's most accurate EVM measurements and other signal analysis such as chirp rates on chirped radar systems up to 70 GHz.

The demand for more data throughput continues to expand, driven by the growing legions of smartphone users and emerging application such as Internet of Things (IoT). This is leading the industry to accelerate development of 5G networks and to explore unused frequency bands like the V band to transport large amounts of data. Unfortunately, current test solutions for wide bandwidth applications have required complex setups involving multiple pieces of equipment that must be calibrated frequently. Moreover, these solutions introduce linearity issues that lack the flatness in response provided by solutions based on a single oscilloscope.

"The integration of SignalVu software with the DPO70000SX platform is a very compelling solution for customers who need to demodulate and analyze signals with extremely wide bandwidth up to 70 GHz," said Jim McGillivray, general manager RF and Component Solutions, Tektronix. "For RF applications, we're essentially delivering the widest bandwidth signal analyzer on the market with great signal fidelity and comprehensive analysis capabilities, including modulation and pulse analysis along with support for advanced commercial wireless standards such as 802.11ac and LTE. What's more, it not only can be used as spectrum analyzer, but is also an oscilloscope."

The DPO70000SX series of oscilloscopes deliver the lowest-noise and highest fidelity of any ultra-high bandwidth real-time oscilloscope available on the market today. Tektronix' ATI oscilloscopes more accurately capture and measure higher frequency signals than possible with the legacy frequency interleaving approaches used by other oscilloscope manufacturers. Tektronix' unique ATI architecture uses a symmetrical technique that delivers all signal energy to both digitizing paths resulting in an inherent noise advantage when signals are reconstructed.

SignalVu vector signal analysis software is based on the signal analysis engine of the Tektronix RSA5000 and RSA6000 Series real-time spectrum analyzers. When used with Tektronix high-performance oscilloscopes such as the DPO70000SX, it allows researchers and designers to evaluate complex signals without an external down converter. This solution delivers the functionality of a vector signal analyzer, a spectrum analyzer, and the powerful trigger capabilities of a digital oscilloscope -- all in a single package.

Availability

SignalVu is available for order now worldwide. For more information go to <http://www.tek.com/oscilloscope/dpo70000sx> for DPO70000SX oscilloscopes and <http://www.tek.com/oscilloscope/dpo70000sx> for SignalVu.

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

Headquartered in Beaverton, Oregon, Tektronix delivers innovative, precise and easy-to-operate test, measurement and monitoring solutions that solve problems, unlock insights and drive discovery. Tektronix has been at the forefront of the digital age for over 65 years. Join us on the journey of innovation at www.tektronix.com.

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