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Keysight Technologies Announces 12-bit High-Speed Data Acquisition PCIe Card Available with Optical Coherence Tomography Technology

SANTA ROSA, Calif., Jan. 26, 2015 – Keysight Technologies, Inc. (NYSE: KEYS) today announced that the [U5303A high-speed data acquisition 12-bit PCIe® card](#), in collaboration with [YellowSys](#), a provider of IP processing firmware and software, is now available with an option dedicated to the optical coherence tomography (OCT) technology.

The Keysight data acquisition solution uses signal resampling which provides on-board enhancement of the range analysis and offers a stable ADC signal sampling cadence. The solution focuses on the clock stability while acquiring the signal in order to avoid sampling cadence changes. This adverse effect on signal acquisition typically occurs when an external k-clock is used. Furthermore, the signal processing is done in real time directly on the data acquisition card, significantly reducing the processing load on the host computer.

The solution was designed using Keysight's [U5340A FPGA development kit](#), allowing portability of the OCT signal processing IP to other [Keysight data acquisition cards](#), including future releases. There is no need for internal circuitry dedicated to OCT, and the easy migration of the processing IP is a key to future OCT technology developments.

“OCT technology is evolving at a fast pace and we strongly believe in supporting developers to push the limits in real-time imaging and quality,” said Didier Lavanchy, operations manager of Keysight's high-speed digitizers division. “Partnering with YellowSys enables us to meet the application demands using our FPGA development kit.”

U.S. Pricing and Availability

The option dedicated to optical coherence tomography (-SS0) is available now on the [12-bit U5303A PCIe high-speed digitizers](#). Please contact digitizers@keysight.com for more information.

Information about product configuration is available at www.keysight.com/find/U5303A.

Information about the FPGA Development Kit is available at www.keysight.com/find/U5340A.

High-resolution images are available at [www.keysight.com/find/SS0 PCIe Digitizers images](http://www.keysight.com/find/SS0_PcIe_Digitizers_images).

About Keysight High-Speed Digitizers

[Keysight high-speed digitizers](#) are the result of more than 300 years of cumulative research and development experience in analog-to-digital conversion technology. This ensures the ability to achieve the most effective and reliable analog-to-digital conversion at high-resolution and fast sampling rates. Information about the technology and its applications is available at www.keysight.com/find/high-speed-digitizers.

About Keysight Technologies

Keysight Technologies (NYSE:KEYS) is a global electronic measurement technology and market leader helping to transform its customers' measurement

experience through innovations in wireless, modular, and software solutions. Keysight's electronic measurement instruments, systems, software and services are used in the design, development, manufacture, installation, deployment and operation of electronic equipment. The business had revenues of \$2.9 billion in fiscal year 2014. Information about Keysight is available at www.keysight.com.

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