SP Devices launches the world’s first 14-bit resolution digitizer for Optical Coherence Tomography (OCT) applications

SP Devices, an e2v company, has launched the ADQ14OCT, the first 14-bit digitizer for Swept-Source (SS) Optical Coherence Tomography (OCT) that offers unrivalled noise and distortion performance.

Built on SP Devices’ original 14-bit digitizer, the ADQ14OCT has been optimised for the SS-OCT market through variable clock input compatibility of 10-1000 MHz and the addition of embedded signal processing functions in the Field-Programmable Gate Array (FPGA). These changes facilitate a simplified system design that increases overall system performance to match the most challenging measurement situations.

The ADQ14OCT utilizes the longest embedded Fast Fourier Transform (FFT) in OCT digitizers and sustains streaming of up to one billion captured wavelengths per second, delivering the market’s highest image resolution for SS-OCT.

Per Löwenborg, Chief Technology Officer at SP Devices, commented, “We’re very excited to unveil a world-leading solution for variable clocking applications and the ADQ14OCT demonstrates our drive to meet the exacting requirements of our customers.”

Available with 8 lanes, Gen 2 PCI-e interfaces for high-speed data transfer, as well as with USB 3.0 interface for compact designs. The ADQ14OCT is the first USB SS-OCT digitizer to enable compact instrument designs, and is the most advanced medical imaging digitizer available on the market today.


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