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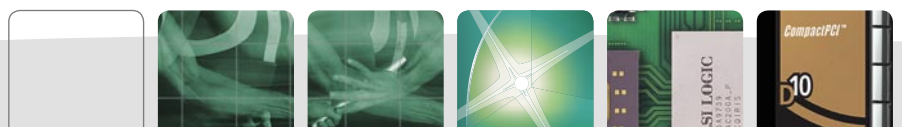
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Acqiris Offers the World's First 10-bit 4 GS/s, 3U PXI Digitizers for Fast RF And ATE Applications

Acqiris, a leading manufacturer of data conversion instruments, has introduced the world's first 10-bit, 4 GS/s, 3U PXI digitizers, with input bandwidths of up to 3 GHz. The dual-channel DC152 and single-channel DC122 digitizers significantly reduce testing and data acquisition time, making the new digitizers ideal for high-speed applications such as telecommunications and semiconductor testing, where test time should be limited only by the speed limits of the device under test (DUT). In addition, the input bandwidth of up to 3 GHz makes these high-precision, high-speed digitizers ideal for use in synthetic instrumentation systems for the replacement of standard digital multimeters, oscilloscopes, power meters, and frequency counters in RF and microwave test systems.

The DC152 and DC122 digitizers are fully compliant with both the PXI and CompactPCI standards, and are supported with AcqirisLive and AcqirisMAQS software and Windows, Linux, and VxWorks drivers for easy integration into production test and automatic test equipment (ATE). The single-slot, 3U PXI/CompactPCI digitizers incorporate Acqiris' proprietary **XL**Fidelity and **Jet**Speed II ADC chipsets, introduced earlier this year.

The **XL**Fidelity ADC front-end chipset integrates the signal conditioning, amplification and interleaving functions essential to high-speed data acquisition into two companion ASIC devices. The **Jet**Speed II chipset is designed to enhance high-speed ADC performance through the distribution of accurate timing signals, and synchronously pass the acquired data to onboard memory.





The **DC152**, with 2 GHz of bandwidth, provides synchronous sampling of 2 GS/s on both input channels with up to 256 Mpoints of optional acquisition memory; in single-channel applications this doubles to 4 GS/s and up to 512 Mpoints. The single-channel DC122 offers sampling rates of up to 4 GS/s with 512 kpoints of standard, or 512 Mpoints of optional acquisition memory. It also offers the choice of standard or high frequency front-ends that can be selected at the time of order, tailoring the digitizer module to the user's needs.

The 50 Ω input stage of the **DC122** standard front end is fully protected against overvoltage signals. The **XLFidelity** programmable front-end electronics are used to provide a complete set of input voltage ranges, from 50 mV to 5 V full scale (in a 1, 2, 5 sequence) with variable voltage offset. With a bandwidth of 2 GHz, the digitizers provide optimized amplifier response (flatness, overshoot and accuracy) to ensure the precision of high-frequency measurements. The front-end circuitry features switchable filtering, very fast recovery from out-of-range signals, and internal calibration, so there is no need to disconnect input signals.

The **DC122** high-frequency input front end gives direct access to the **XLFidelity** cross point switch in order to benefit from the full bandwidth of Atmel's TS83102G0B ADC used in the digitizers. The full-scale range is fixed at 1 V, providing a bandwidth of 3 GHz. The input channel has an overvoltage protection to ± 3 V.

About Acqiris:

A leading designer and manufacturer of data conversion products, Acqiris' strength lies in combining the skill and talent of its physicists and engineers with the feedback and expertise of its customers. Products for applications in the research, ATE and OEM markets include CompactPCI, PCI, PXI and OEM digitizers, and waveform analyzers with Giga-sample per second (GS/s) performance.

With a focus on technological innovation, and having pioneered a number of breakthroughs in device size, power consumption, measurement fidelity and data throughput, Acqiris is leading the way in high-

speed digitizer and analyzer products for systems used in industries as wide spread as synthetic instrumentation, airport radar, and particle accelerator experiments.

With a global sales and support network, including headquarters in the USA, Europe, and the Asia-Pacific region, Acqiris continues to provide the most advanced technologies that make data conversion more powerful and much more usable to a wider number of users.

For more information, visit www.acqiris.com

