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ZTEC Releases High Performance, Low Cost DSO for Under \$3,000

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Albuquerque, NM – ZTEC Instruments is pleased to announce the most affordable member of the extremely popular ZT450 family, the ZT450-10 for \$2,995 (US domestic pricing) available in PCI, and PXI. With this new software compatible addition to the ZT450 family of digital storage oscilloscopes, the 8-bit DSO family now ranges from 500 MS/s and 250 MHz up to 2.5 GS/s and 750 MHz.

Overview of the 450 family

Product	Interleaved Sample Rate	Max Analog Bandwidth*	Channels	Software Compatible	Platform
ZT450-10	500 MS/s	250	2	Y	PXI, PCI
ZT450-20	1 GS/s	500	2	Y	PXI, PCI
ZT450-00	2 GS/s	500	2	Y	PXI, PCI
ZT450-50	2.5 GS/s	750	2	Y	PXI, PCI
ZT452-20	1 GS/s	500	4	Y	VXI
ZT452-00	2 GS/s	500	4	Y	VXI
ZT452-50	2.5 GS/s	750	4	Y	VXI

*On select input ranges

The ZT450 product family provides all the capabilities found in today's modular digitizers, such as state of the art data conversion technology and deep on-board sample memory (up to 32 MSample for PCI/PXI and 64 MSample for VXI). The products modular architecture is ideal for applications with high channel count requirements. Multiple products can be synchronized using the local timing and trigger bus. The product's phase lock loop and star trigger capabilities provide tight synchronization for even applications with stringent timing requirements. Other products, such as the ZT530 or ZT532 signal generators, can also be synchronized with the DSOs.

In addition to their digitizer features, the products are also designed to include capabilities familiar to the bench top oscilloscope user. For example, each product provides bench top DSO features such as flexible signal conditioning, advanced triggering, multiple acquisition modes, on-board signal processing, and much more. In particular:

- Triggering – The standard products can be used with a variety of trigger sources, such as software, edge, pattern, pulse width, and video. A unique trigger source can be used on trigger A and B. The trigger can be output to either the front panel or the local bus backplane.
- Acquisition Modes - In addition to normal (digitizer) acquisition mode, the products provide average, envelope, and equivalent time sampling. An external sampling clock may also be used.
- Measurements – Many on-board time and frequency measurements can be made by the products, such as Vmin, Vmax, Vrms, Period, and Duty Cycle. For frequency, the measurements can be based on the entire waveform or the nth cycle within the waveform. The measurements can also be gated by cursors.
- Signal Processing and Waveform Math – Basic waveform math functions, such as addition, subtraction, and derivation, are available. Advanced processing functions, such as Fast Fourier Transformation (FFT) and digital filtering, are also standard on the products.
- Testing – Both limit and mask testing is standard on the products.

- Utilities – Other bench top capabilities uniquely found on these products include auto-configuration, the ability to save and recall instrument states, non-volatile storage of reference waveforms, over voltage input protection, and built-in offset calibration routines.

To get users up and running quickly, the ZScope soft front panel software is provided for complete interactive instrument control. ZScope auto-detects hardware and can be used with any instrument within the product families. The instruments come with plug-and-play instrument drivers that can be used with commonly used software development environments, such as LabVIEW, LabWindows/CVI, Visual Basic, and C/C++. Each product in the family uses the same driver, providing seamless migration between the products. Also provided are example program libraries that highlight the use of the driver in LabVIEW and C. Driver source code and an intuitive command level interface can be used for those interested in using non-standard environments or register level access.

All ZTEC products are built using the ZTEC Universal Instrument Platform (UIP). This innovative and proprietary building block technology allows ZTEC to deploy common instrument hardware across multiple modular bus architectures, including VXI. Because UIP instruments utilize the same hardware core, ZTEC is able to deliver higher quality, higher performance, and lower cost modular instrument solutions to our customers.

The ZT450-10 is available in PCI, and CompactPCI/PXI form factors. The ZT450-10 is available immediately. Please contact ZTEC Instruments for more information.

About ZTEC Instruments

ZTEC Instruments is a pioneering instrument design and manufacturing company whose product focus is modular oscilloscopes and digitizers. Our products are unique in that they provide common bench-top instrument capabilities in modular instrument form factors, including PCI, CompactPCI/PXI, and VXI. ZTEC products are built using the latest technology and we are committed to provide the integration tools and customer assistance required to make your application a success. For more information about ZTEC Instruments and how our products can address your test and measurement needs, please visit www.ztec-inc.com.

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