New low-cost 12 bit, 20 MS/s PCI Express waveform digitizer

Montreal, Canada (March 1, 2018)
AlazarTech, a manufacturer of high-performance, low-cost PC Based Instruments, today announced the release of **ATS9120®**, a dual-channel 20 MS/s, 12 bit waveform digitizer based on the single-lane Gen1 PCI Express bus.

Click here for ATS9120 datasheet

Click here for high resolution image

ATS9120® features two simultaneous analog input channels that can each be sampled at rates up to 20 MS/s with 12 bit vertical resolution. Each channel has 10 MHz of full power analog input bandwidth. With software selectable attenuation, users can achieve an input voltage range of ±40 mV to ±20 V. **ATS9120®** uses an on-board FIFO to temporarily store ADC data before DMAing it to motherboard memory.

"**ATS9120®** is our first step towards offering a more powerful, but still low-cost alternative to our PCI bus based digitizers", stated Muneeb Khalid, President of AlazarTech. "**ATS9120®** can not only replace ATS310® in customer applications, it also provides data streaming capability, which is a feature the ATS310® did not have".

The unit occupies only one half-length PCI Express slot, making it very easy to integrate it into a customer's system.

OEMs can integrate the **ATS9120®** PCI Express digitizers into their own systems very easily using the Windows and Linux compatible ATS-SDK Software Development Kit. This SDK includes sample programs written in C/C++, Python, MATLAB®, and LabVIEW®.

ATS9120® PCI Express digitizers are also compatible with ATS-GPU, a software library developed by AlazarTech that allows users to do real-time data transfer from **ATS9120®** to a GPU card at full bus speed.

Applications for **ATS9120®** are:

- OCT imaging for low-cost kHz lasers that require, external clocking and fast, sustained throughput to computer memory for real-time signal processing

- Other scanning applications that involve acquisition of data with a rapidly occurring trigger (radar, ultrasonics, spectrometry, tomography…)

- Acquisition of data with a randomly occurring trigger (lightning test, acoustic emissions,…)

Availability and Pricing

ATS9120® is available immediately from stock. U.S. price is $1,495 in single quantity. Volume discounts are available. International prices may be higher.

For Further Technical or Editorial Information

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About AlazarTech

AlazarTech, headquartered in a suburb of Montreal, Quebec, Canada, provides high performance, low-cost PC-Based Instruments and software for customers involved in building OEM products, manufacturing test systems and research and development.

AlazarTech was founded in 2003 by Muneeb Khalid, who was the original founder of Gage Applied Sciences Inc., a pioneer in PC Based Instrumentation. That company was sold to Tektronix Inc. in 2000.

While AlazarTech manufactures some of the fastest PCI and PCI Express digitizers on the market, speed alone is not the differentiating factor. AlazarTech concentrates on providing usability features for its PCI and PCI Express digitizers that make them very easy to integrate into real-world OEM applications such as ultrasonic testing, medical imaging and radar signal analysis.

The key differentiation between AlazarTech products and the rest of the industry is AlazarTech's *Dual-Port Memory* technology, which enables OEMs to create systems that can capture, analyze and store data in real time.

Customers can use AlazarTech products not only for R&D, but also deploy them in the field. Competitive products use single-port memory, forcing customers to stop acquisition in order to read data, thereby limiting their usefulness to R&D and algorithm development.

AlazarTech also works with selected OEMs to customize its products based on customer requirements.

The company's line of ATS PCI and PCI Express digitizers have been recognized by leading European, Asian and North American OEMs as being superior in quality to other devices on the market.

The company's products have found applications in industries such as medical imaging, metal inspection, defense, automotive and semiconductor test.

AlazarTech sells its products directly in North America, and internationally through a distribution network.

For more information on AlazarTech, visit www.alazartech.com.