



Press Release
For Immediate Release

New 12 bit, 1 GS/s PCI Express waveform digitizer

Montreal, Canada (November 27, 2017)

AlazarTech, a manufacturer of high-performance, low-cost PC Based Instruments, today announced the release of **ATS9371**[®], a 1 GS/s, 12 bit waveform digitizer based on the 8-lane Gen3 PCI Express bus.



[Click here for high resolution image](#)

ATS9371[®] features two simultaneous analog inputs that can each be sampled at rates up to 1 GS/s with 12 bit vertical resolution. Each input has its own 12-bit, 1 GSPS ADC chip. Each channel has 2 Gigasamples of on-board, dual-port acquisition memory. Full scale input range of the **ATS9371**[®] is fixed at +/- 400 mV.

The 8-lane Gen3 PCI Express bus interface on the **ATS9371**[®] is capable of sustained data transfers as fast as 6.8 GB/s.

“Many customers were asking for a more affordable waveform digitizer. They were willing to compromise on the sample rate compared to our 4 GS/s ATS9373, but not the PCIe Gen3 throughput. **ATS9371**[®] targets exactly this set of customers.”, stated Muneeb Khalid, President of AlazarTech. “An added advantage of **ATS9371** is that its export from Canada is not controlled, and it is much easier to deploy in OEM products than higher speed digitizers that are export-controlled”.

The unit occupies only one half-length PCI Express x8 or x16 slot, making it very easy to integrate it into a customer’s system.

OEMs can integrate the **ATS9371**[®] 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[®].

ATS9371[®] 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 ATS9371 to a GPU card at rates up to 4 GB/s.

Applications for **ATS9371**[®] are:

- OCT and other bio-medical imaging applications that require high dynamic range, external clocking and fast, sustained throughput to computer memory for real-time signal processing
 - In OCT applications, **ATS9371**[®] allows coherent sampling of image signals using 100 kHz and faster swept-source lasers with k-clocking
- 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,...)
- RF signal recording applications that require continuous streaming of data across the bus

Availability and Pricing

ATS9371[®] is available immediately from stock. U.S. prices start at \$10,000 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.