



Press Release
For Immediate Release

New 12 bit, 500 MS/s PCI Express waveform digitizer is designed for OEM customers

Montreal, Canada (October 12, 2011)

AlazarTech, a manufacturer of high performance, low cost PC Based Instruments, today announced the release of **ATS9351**[®], a 500 MS/s, 12 bit waveform digitizer based on the 8-lane PCI Express bus that has been designed for OEM customers.



[Click here for high resolution image](#)

ATS9351[®] features a single-stage, low noise input amplifier that provides a 6 dB signal-to-noise ratio (SNR) improvement compared with the company's other 500 MS/s digitizer, the ATS9350. Full scale input range of the **ATS9351**[®] is fixed at +/- 400 mV.

The 8-lane PCI Express bus interface on the **ATS9351**[®] is capable of sustained data transfers as fast as 1.6 GB/s, which is about 16 times faster than legacy PCI bus and 8 times faster than USB 3.0.

"While ATS9350 has been a very successful product for us, many of our OEM customers were asking for a solution optimized for their application where they do not need variable gain, but need every bit of SNR they can get", stated Muneeb Khalid, President of AlazarTech. "**ATS9351**[®] provides just such a solution for these customers".

ATS9351[®] offers two simultaneous analog inputs that can each be sampled at rates up to 500 MS/s with 12 bit vertical resolution, providing Signal to Noise Ratio in excess of 61 dB. Each channel can have up to 2 Gigasamples of on-board, dual port acquisition memory buffer when used in single channel mode.

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.

Applications for **ATS9351**[®] 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, **ATS9351**[®] 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

OEMs can integrate the **ATS9351**[®] PCI Express digitizers into their own systems very easily using the Windows 7/Vista/XP compatible ATS-SDK Software Development Kit. This SDK includes sample programs written in C/C++ and MATLAB. A high performance LabVIEW[®] VI, called ATS-VI, is also available.

A source code Linux driver, ATS-Linux, can also be made available to qualified customers, who will have to execute a Non-Disclosure Agreement.

Availability and Pricing

ATS9351[®] is available immediately from stock. U.S. prices start at \$6,995 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.