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FOR IMMEDIATE RELEASE



**Initial Product Release:
Fiberbyte's revolutionary USB-inSync™
DAQ-2500X**

Heralding a new era in scalable
synchronized data acquisition

Introduction

Adelaide-based Fiberbyte Pty Ltd, a subsidiary of Silex Systems Ltd, today announced the official release of its initial product – the **USB-inSync™ DAQ-2500X** data acquisition module. The release follows the successful completion of key standards compliance testing and certification in the US, meaning that the product is 'ready for sale'.

DAQ-2500X Data Acquisition System is available now from Fiberbyte's distributor Saelig (www.saelig.com) for \$1195.00.

"This is a significant step forward for Fiberbyte" Founder and Chief Technology Officer Dr Peter Foster said. "After getting through the compliance and certification tests with flying colors, the technical team can now focus on development of the next two **USB-inSync™** products, due for release late this year and mid-2006".

The DAQ-2500X Product

Fiberbyte has combined **USB-inSync™** technology with real-time I/O enabling unprecedented flexibility and expansion in demanding distributed test environments. The result is the **DAQ-2500X** which features four, 16-bit resolution, 100KS/s, simultaneous sampling analog input channels (multiplexed to 16 inputs), multi-channel 1MB/s data throughput, programmable digital I/O and advanced triggering functions.

The **DAQ-2500X's** four discrete ADC's deliver true synchronous acquisition at 100kS/s per channel with an impressive 400kS/s continuous data throughput. The 1MB FIFO enables on-board buffering of well over a second worth of data with all four ADC's sampling at 100kS/s. Fully programmable digital I/O and triggers make the **DAQ-2500X** perfect for numerous data logging applications. For complete mobility the **DAQ-2500X** will even operate from battery power.

The **DAQ-2500X** is a data acquisition system that expands as your application demands. The synchronized nature of **USB-inSync™** means that you no longer need to retire your old data acquisition device and buy a new, more expensive one with more channels. For the first time ever, adding additional synchronized data acquisition channels is as simple

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as plugging another **DAQ-2500X** into the USB port. Engineers can build the expandable synchronous system they want, while their managers can control costs. The multifunction **DAQ-2500X** will quickly become the solution of choice for PC I/O applications where performance, portability, cost, or most significantly, scalability are significant considerations.

Using the **DAQ-2500X** has been made simple with Fiberbyte's extensive software suite. The **DAQ Control Center™** will provide complete PC control and data logging to multiple devices for users with no programming experience. Experienced users can access the full functionality of the **DAQ-2500X** through Fiberbyte's COM Server interface which provides support for most modern programming languages and software applications. LabVIEW drivers are also provided for interfacing into existing test applications.

DAQ-2500X is 100% compatible with other USB devices, but only **USB-inSync™** enabled devices will have multi-device synchronous and deterministic features. Fiberbyte is able to integrate any I/O device with our technology, creating innumerable application possibilities for OEMs.

Market Overview

The target market for Fiberbyte's initial range of products is the USB-based segment of the Data Acquisition market, currently worth approximately US\$100 million per annum. Beyond this, Fiberbyte's technology may in the future have application to additional segments of the broader world-wide Data Acquisition market, currently worth approximately US\$2.8 billion per annum.

Virtually every consumer product we use today has been manufactured and tested in plants using this type of equipment. Applications range from the semiconductor, automotive and mining industries through to medical diagnostics and food processing. A large number of these applications require synchronous measurements and acquisition of data, or deterministic control of equipment (the ability to control events with precise relative timing) within an automated production process.

While the bulk of data acquisition devices on the market today use the PCI or PXI bus, the USB bus is quickly gaining popularity. There has been a move away from the bulky and expensive centralized rack-based architecture of VXI / PXI toward an ultra-portable platform based on the standard USB interface. A 2003 Venture Development Corporation study titled "Data Acquisition Product Requirements and Usage Trends" forecasts that USB enabled data acquisition equipment will be the most common bus configuration purchased by 2007.

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Fiberbyte's 'USB-inSync™' interface technology gives this segment of the market a significant boost in power and performance. The technology introduces the same degree of precision, synchronization and timing found in expensive rack-based systems, but without compromising the distributed flexibility and 'plug-n-play' characteristics of USB. The Fiberbyte has bridged the current gap between the performance benefits of centralized rack-based systems and the portable nature of USB-based equipment.

USB-inSync™ Technology

Fiberbyte has transformed the consumer USB port, available on every PC and laptop, into a high bandwidth, synchronous and distributed instrumentation bus. We use the existing bus traffic to distribute highly accurate clock information to each device utilizing data structures already present on the bus. The process operates with complete transparency, consumes no bandwidth and does not affect normal USB operation. As a result **USB-inSync™** devices operate side by side with standard USB devices such as your mouse or keyboard.

Each **USB-inSync™** device is equipped with a local clock that is accurately phase locked to that of every other **USB-inSync™** device attached to a given Host PC. A deterministic triggering system is also provided such that processes can be started and stopped in a precisely controlled manner. These two features extend USB beyond the realms of its original concept to allow new control and monitoring possibilities within a distributed PC-based environment.

USB-inSync™ technology is capable of synchronizing over 100 discrete devices to within +/- 5ns of each other without requiring any external equipment. In other words the added functionality is enabled utilizing standard USB cables, ports and hubs because the technology is embedded inside each and every Fiberbyte device. Deterministic device control enables the user to control a sequence of functions on multiple distributed devices to within the same +/- 5ns tolerance. A network of distributed **USB-inSync™** devices therefore acts as a single synchronized machine, able to perform complex sequenced functions and provide reliable real-time data across a distributed environment.

Let Fiberbyte **USB-inSync™** and the **DAQ-2500X** transform the way you use USB.

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About Fiberbyte

Fiberbyte Pty Ltd (www.fiberbyte.com) is a technology pioneer and leader in the field of synchronous USB platforms – a revolutionary concept that is challenging the conventional approach to measurement and automation equipment. **USB-inSync™** leverages the ubiquity of the USB port, found on every PC and laptop, to lower the cost and provide increased flexibility for users of synchronous data acquisition devices. Fiberbyte is quickly becoming recognized as a world leader in innovative USB-based data acquisition devices, OEM integration and control software.

Founded in 1995, the company is at the forefront of USB-based data acquisition technology with numerous patents pending for **USB-inSync™** technology. Whilst Fiberbyte's initial focus was on fiber optic test and measurement equipment, the core **USB-inSync™** technology has always been destined for universal utilization in data acquisition applications and beyond.

In September 2002 Fiberbyte became a subsidiary of Silex Systems Ltd (ASX:SLX), a technology based public company located in Sydney, Australia.

Hi-Res Image: http://www.fiberbyte.com/images/PR/DAQ_2500X.jpg

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