

## **FOR IMMEDIATE RELEASE**

Tom Wagner Signatec, Inc. 949-729-1084

twagner@signatec.com

### **Signatec's Data Acquisition and Playback Systems Sustain 2.8 GB/s With No Data Loss**

**Newport Beach, California – March 5, 2010** – Signatec Inc. unveiled today its DR2800 signal recording system platform capable of sustaining 2.8 GB/s of data recording directly to a high-speed RAID system. Ideally suited for the Synthetic Aperture Radar (SAR), Wideband Flight Recorder and advanced Optical Coherence Tomography (OCT) industries, the DR2800 platform's industry-leading data recording rate is achieved by combining two or more of Signatec's PCI Express (PCIe)-based high speed analog signal digitizers to continuously record 2800 MB/s of 8-bit or 14-bit data for the entire 6 to 96 TB RAID volume with no breaks in the signal record.

Signatec's DR2800 delivers standard Windows and Linux file systems, depending on the chosen Operating System (OS), which offers maximum compatibility for data analysis with standard signal processing programs such as Matlab. Custom programming development options are available to ensure the DR2800 is a highly flexible platform for any high-speed signal recording application.

"Doubling Signatec's recording capability from 1.4 GB/s to 2.8 GB/s is a significant upgrade, in and of itself" said Anthony Hunt, Signatec's Vice President and Chief Technology Officer. "However, when combined with Signatec's SYNC1500-6 module, the recording platform is scalable for up to six chassis, delivering a combined 16.8 GB/s of synchronized channel data recorded with the same ADC sample clock."

#### **SYNC1500-6 Scalability**

Signatec's SYNC1500-6 is a PCIe x1 card module that plugs directly inside the DR2800. The SYNC1500-6 card offers a clock and trigger input that in turn drives six synchronized 3-channel outputs consisting of a clock, trigger and ADC/DAC synchronization signal. Signatec's SYNC1500-6 allows users to span multiple record/playback system chassis and create very high channel count, very high bandwidth applications for synchronized signal record and signal playback based applications.

#### **Signal Generation**

The DR2800 is also capable of sustaining the same data rate for signal generation applications that must play very large digital signal files from a high performance RAID system. When using Signatec's PCIe-based waveform generator cards, up to 2.8 GB/s can be generated continuously without any break in the analog record.

Signatec's SYNC1500-6 can also synchronize six DR2800 waveform generation systems for up to 16.8 GB/s of sustained playback. Further options exist to combine both record and playback modules into DR2800 systems.

#### **Record and Playback Software**

The DR2800 comes standard with Signatec's free signal record and signal playback software that allows for up to 2.8 GB/s of data I/O capability. All the tools are provided to allow for customers to create their own custom record/playback software applications.

#### **Workstation Computer**

The DR2800 is based on a workstation class computer with up to two quad core Xeon processors for embedded custom data processing. The system also comes with the usual convenient interfaces of Workstation systems such as Gigabit Ethernet, USB 2.0 ports, serial and parallel ports, keyboard and mouse, as well as video out. The DR2800 is available in either a single 9U 19" rackmount chassis or with a 5U 19" rackmount plus two additional external 2U 19" rackmount RAID chassis (9U total). However, when employing higher performance solid state drives for the RAID, Signatec's DR2800 can be constructed with a single 4U chassis.

"The DR2800 serves as yet another example of how Signatec consistently wrests the highest performance capabilities out of COTS component technologies" said Tom Wagner, Director of Marketing at Signatec. "Signatec remains committed to delivering extremely high-speed digitization and recording capabilities with optional real-time processing and high-speed waveform playback features to ensure our customers benefit from the best available technologies on the market."

### **Pricing and Availability**

Signatec is now taking orders for DR2800 record and playback system with a shipping forecast of 6 weeks. For the latest pricing and availability, please contact Tom Wagner, Signatec's Director of Marketing, at [twagner@signatec.com](mailto:twagner@signatec.com).

### **About Signatec, Inc.**

Delivering advanced system solutions since 1988, Signatec is a leading designer and manufacturer of high-speed data acquisition, parallel digital signal processing, continuous signal data recording and arbitrary waveform generation systems. Signatec differentiates itself by being one of the only single-source suppliers that works with its customers to build affordable, real-time signal technology systems for advanced radar, SIGINT, ultrasound, imaging and other high-speed communications systems. For more information, visit Signatec online at [www.signatec.com](http://www.signatec.com)