

# LeCroy

LogicStudio  
USB Logic Analyzer

***USB Logic Analyzer Provides 16 Channels, 1 GS/s,  
100 MHz Input plus I<sup>2</sup>C, SPI and UART Analysis***

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## **LeCroy Introduces Innovative Logic Analyzer that Brings Digital, Serial and Analog Debug to the PC**

**Chestnut Ridge, NY, April 26, 2010** – LeCroy® Corporation today announced the LogicStudio 16, a logic analyzer that brings a new debug experience to the PC. The LogicStudio 16 hardware provides 16 channels with a high sample rate of 1 GS/s and maximum input of up to 100 MHz. The software provides a lively, dynamic waveform display with a smart, intuitive user-interface that is easily navigated by a few basic mouse clicks. The operation is simple but the toolset is deep. LogicStudio provides a tremendous amount of tools for digital debug including timing cursors, unique zooming and panning of waveforms, a persistence display and a history mode which can replay old data captures. Additionally, protocol analysis for I<sup>2</sup>C, SPI and UART is included to decode waveforms as they are captured and provide the ability to trigger on specific address or data packets on the bus. Along with all these digital and serial debug capabilities, LogicStudio goes further, providing a complete debug toolset. For engineers or technicians who use a LeCroy WaveJet oscilloscope, the LogicStudio software will interface with the WaveJet, import analog waveforms from the oscilloscope on the fly, and turn the PC into a mixed signal oscilloscope, providing a view of up to 4 analog and 16 digital channels simultaneously.

### **Intuitive, Feature-Rich Software**

The LogicStudio software is an intuitive environment for digital debug. By leveraging simple, everyday mouse functions LogicStudio delivers an easy to navigate user-interface, making debugging faster, smarter and much easier. To scroll through the waveforms the user can just left-click and drag. To center the point of interest on the screen just double-click it, to zoom in for more details just right-click and drag or turn the scroll-wheel on the mouse.. On top of its ease-of-use, the interface is lively and dynamic. Data is captured and displayed at a high rate, which when combined with the persistence tool and history mode can quickly help identify glitches or problems. A unique magnifier tool will let the user search longer captures for more details without changing the scale of the main acquisition. For timing measurements, activate a pair of cursors anywhere on the display or snap them right to an edge of one of the waveforms for precise measurements.

### **Powerful Triggering**

Triggering is an important part of any logic analyzer and LogicStudio goes above and beyond to provide rich triggering capabilities. First, the trigger can be operated in Auto, Normal or Single modes just like a modern oscilloscope. Some USB logic analyzers operate in a simple single trigger mode but LogicStudio provides free running acquisitions with no delays due to data being transferred to the PC. Additionally, the amount of triggering types is extensive. There are simple edge or logic state triggers but the advanced triggering provides an open

environment to build elaborate trigger conditions, logic combinations and qualifiers to capture a wide range of events.

## **Digital, Serial, Analog**

Like most logic analyzers, LogicStudio can capture and display digital and serial signals. However, LogicStudio goes a step further and provides a communication link to LeCroy's WaveJet oscilloscope turning the PC in to a true mixed signal debug environment. The communication from the LogicStudio software to the WaveJet will allow for configuring the trigger and transferring data bringing all digital, serial and analog data to a single display.

## **About LeCroy**

LeCroy Corporation is a worldwide leader in serial data test solutions, creating advanced instruments that drive product innovation by quickly measuring, analyzing, and verifying complex electronic signals. The Company offers high-performance oscilloscopes, serial data analyzers, and global communications protocol test solutions used by design engineers in the computer and semiconductor, data storage device, automotive and industrial, and military and aerospace markets. LeCroy's 45-year heritage of technical innovation is the foundation for its recognized leadership in "WaveShape Analysis"—capturing, viewing, and measuring the high-speed signals that drive today's information and communications technologies. LeCroy is headquartered in Chestnut Ridge, New York. Company information is available at <http://www.lecroy.com>.

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