LogicStudio
USB Logic Analyzer

LeCroy

LogicStudio Highlights

- **LogicStudio allows LeCroy to enter the USB/PC based logic analyzer market at a sub $1,000 price point**
  - More and more USB instruments are appearing on the market
  - LeCroy launching a USB based AWG and Logic Analyzer in parallel
  - Many small companies making USB logic analyzers, LeCroy can leverage a long history of data acquisition and measurement
  - Take advantage of oscilloscope customer base and knowledge to design a complete test system of logic analyzer, scope and PC

- **LogicStudio provides 16 channels, 1 GS/s and 100 MHz input all for just $990**

- **Key Features**
  - 16 Channels, 1 GS/s, 100 MHz
  - I^2C, SPI and UART trigger and decode
  - Fast, dynamic, lively display with persistence and history mode
  - Unbelievably intuitive interface
    - **If you can use a mouse you can use LogicStudio**
  - Powerful Triggering
  - WaveJet connectivity – turn your PC in to an MSO

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Using LogicStudio

- **Download LogicStudio software from the web**
  - Free Full Featured Demo Version for Evaluation
- **Simple mouse-click operation**
  - Left click to pan
  - Double click to center
  - Right-click/mouse wheel to zoom
- **Choose from variety of logic levels**
  - TTL, CMOS, Custom
- **Two operating modes**
  - 1 GS/s, 8 ch, 40 kpts
  - 500 MS/s 16 ch, 20 kpts

LogicStudio Tech Specs

	Logic Studio 16
Channels	16
Sample Rate	1 GS/s on 8 Ch 500 MS/s on 16 Ch
Minimum Detectable Pulse Width	3.75 ns
Memory	40 kpts/Ch on 8 Ch 20 kpts/Ch on 16 Ch
Trigger Types	Edge, Width, Pattern, Pattern Width, I^2C, SPI, UART)
Threshold Settings	TTL, CMOS (1.8V, 2.5V, 3.3V, 5V), Custom (0 – 7V)
Input Impedance	150 kΩ ‖12 pF

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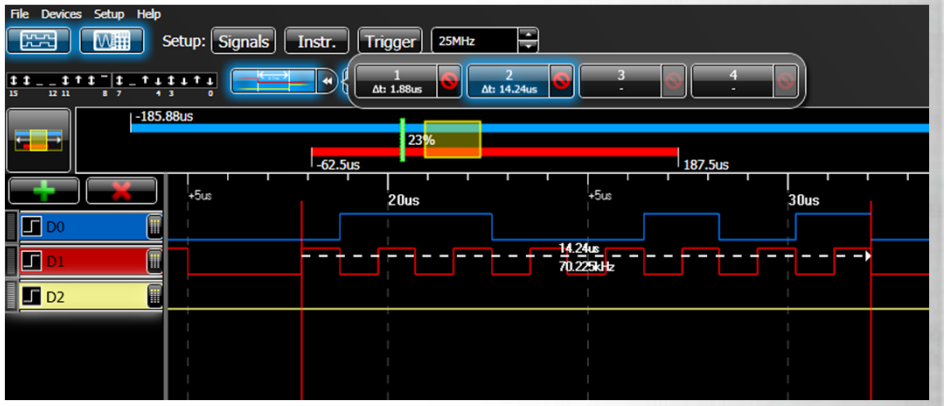
Unique Feature Set

- **Cursor Pairs**
  - Configure and display up to 4 different cursor pairs
  - Simultaneous time and frequency measurements
  - Snap cursors to waveform edges for more precise measurements
- **History Playback**
  - Save up to100 acquisitions in History buffer
  - Scroll through previous acquisitions to identify problems
- **Waveform Magnification**
  - Activate the magnifier to get a closer look at signals
  - Zoom in to waveforms without changing the main acquisition
  - Turn the mouse wheel to change zoom factor



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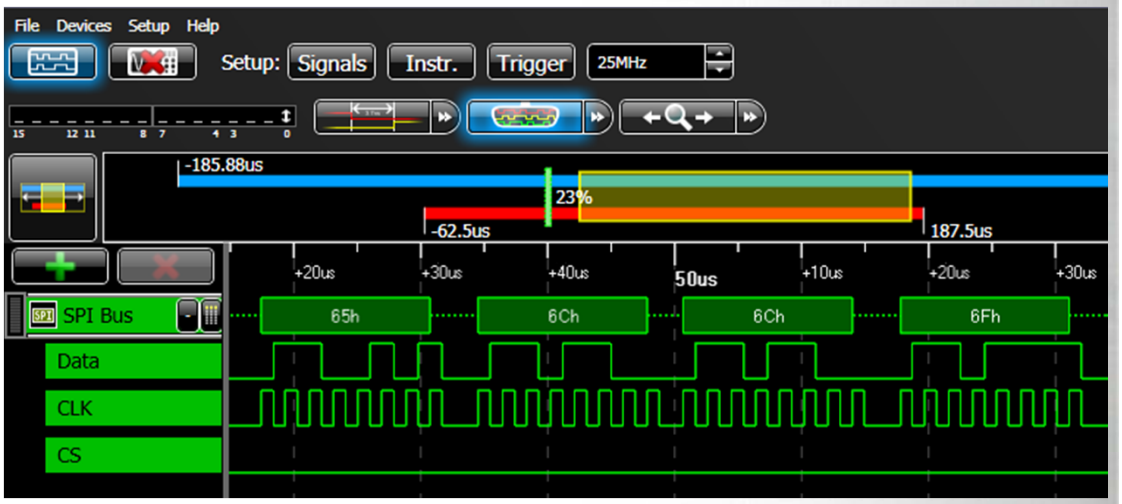
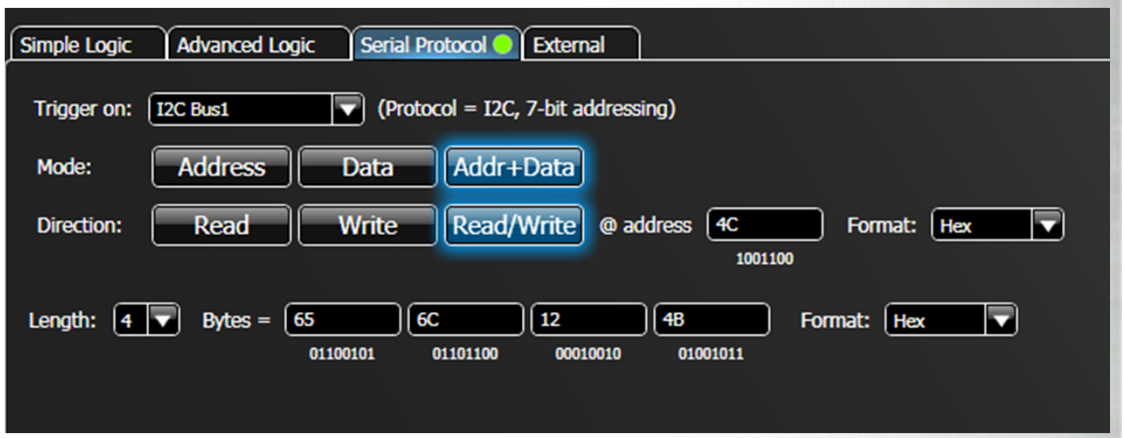
Serial Data Trigger and Protocol Decode

- **Built-in I²C, SPI and UART Trigger and Decode capabilities**
- **Decode is shown in shaded boxes displaying Binary, Hex, Decimal or ASCII**
- **View relevant signals alongside decode**
- **Trigger on the serial data bus with a variety of trigger types**





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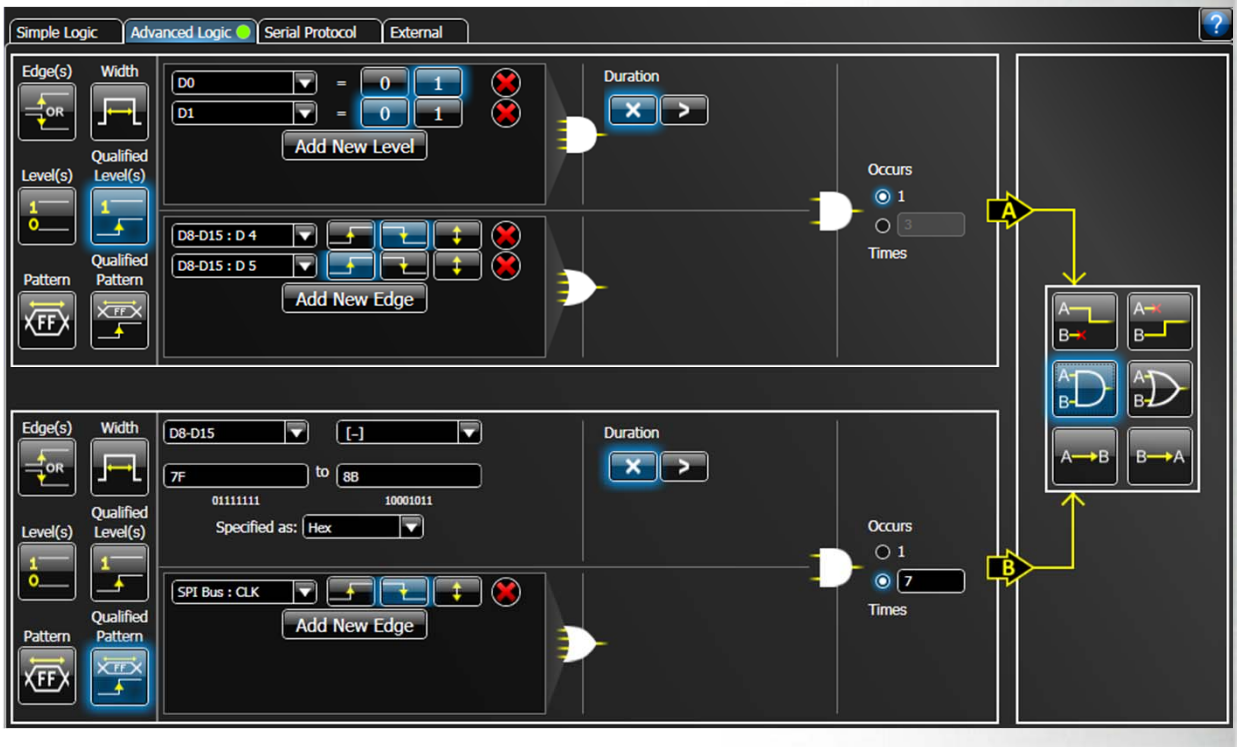
Powerful Triggering

- **Basic Edge and Level triggering for capturing basic events**
- **Advanced logic triggering provides a complex triggering environment**
- **Combine edge, level, pattern, and serial data triggers with a variety of logic operators**



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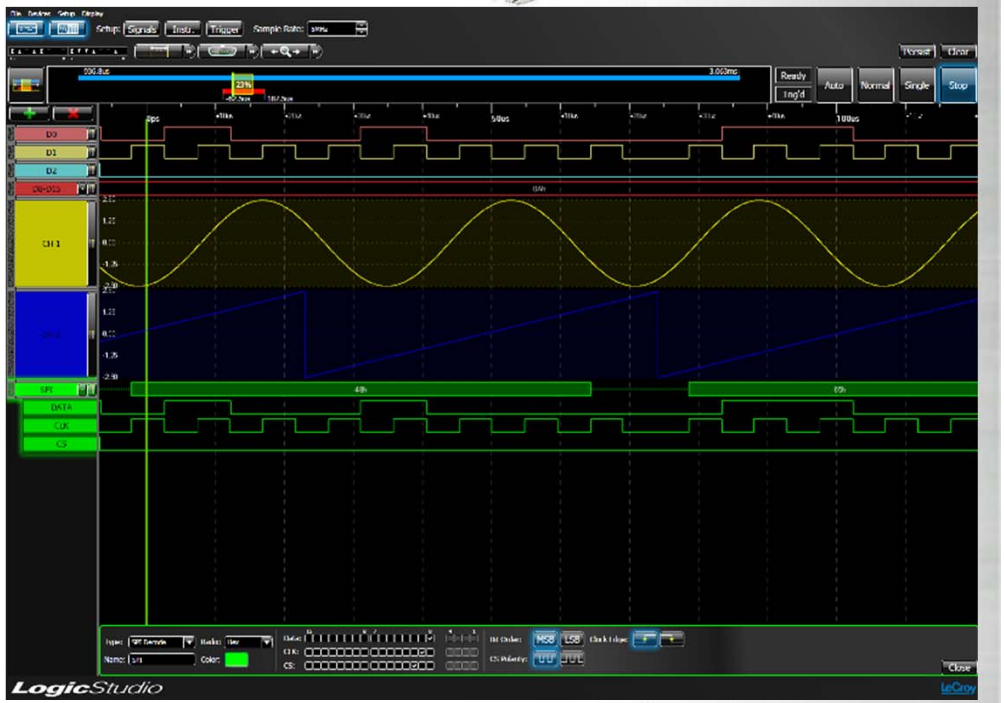
Turn the PC in to an MSO

- **Use LogicStudio software to import analog waveforms from a WaveJet oscilloscope**
- **Display Analog, Digital and Serial on one display**
- **Control oscilloscope triggering and import waveforms on the fly**
- **Analog waveforms scaled and displayed with Volts/div readout**



LogicStudio Configuration

- **LogicStudio 16 includes**
  - LogicStudio 16 pod
  - 16 channel leadset
  - Set of 20 Grippers
  - USB Cable
  - BNC Cable
  - Welcome card pointing to website for software download

- **Manuals and software are available online at www.lecroy.com/logicstudio**

- **User manual is also included in the LogicStudio software as a pdf and online help**

LogicStudio Launch Schedule

- **April 19 – May 14** — **Press Presentations**
- **April 26** — **Introduction at ESC 2010**
- **May 17 – 28** — **Sales/Rep/Distributor Intro**
- **May 17** — **Accept stock/demo orders**
- **May 24** — **Begin Shipments**
- **June 2** — **Public Distributor Launch**

LogicStudio Summary

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- **I^2C, SPI and UART trigger and decode**
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- **Powerful Triggering**
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Model Number	Description	US List Price
LogicStudio 16	16 Channel, 1 GS/s, 100 MHz USB Logic Analyzer	$990