LeCroy

8B/10B Protocol Decoding Software Solution

Configure and decode up to 4 channels

Features and Benefits

- **Translates 8B/10B encoded Serial Data Waveforms into symbol views for effective troubleshooting**

- **Correlates Protocol Events to Physical Waveforms for greater insight**

- **Saves Data to Disk for further analysis**

- **Supports multichannel operation to view up to four lanes simultaneously**

- **Protocol decoding capability up to 6.25 Gb/s**

- **Real-time Triggering for data rates up to 2.7 Gb/s**
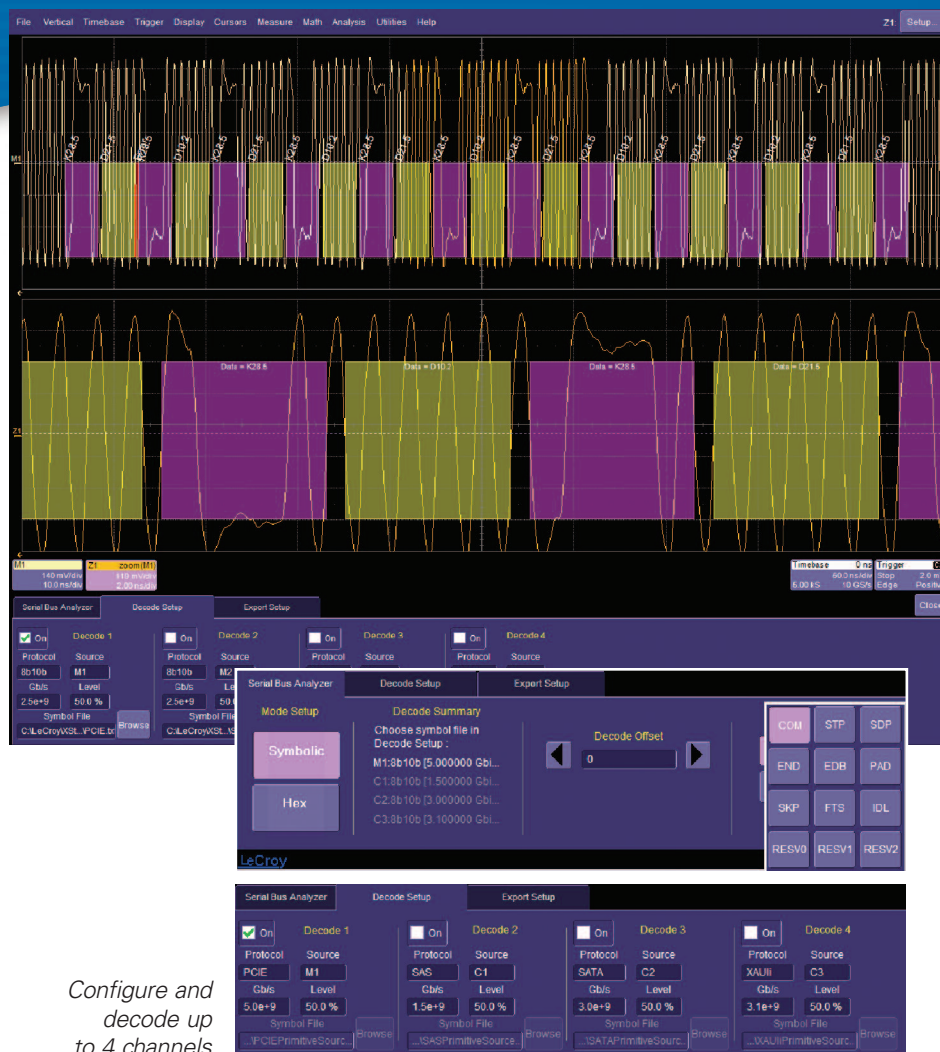
Translate Serial Data Waveforms into Symbol Views

The SDA-8B10B Protocol Decoding Software package provides the ability to analyze an encoded data stream and view the physical layer signaling associated with those data streams. Users can simultaneously view the physical layer waveform and the symbolic content of that waveform on one convenient display.

A powerful search feature allows captured waveforms to be searched for user-defined sequences of symbols.

When the sequence of symbols is identified, waveforms are automatically zoomed to highlight the detected sequence.

Multichannel Operation – View up to Four Lanes Simultaneously

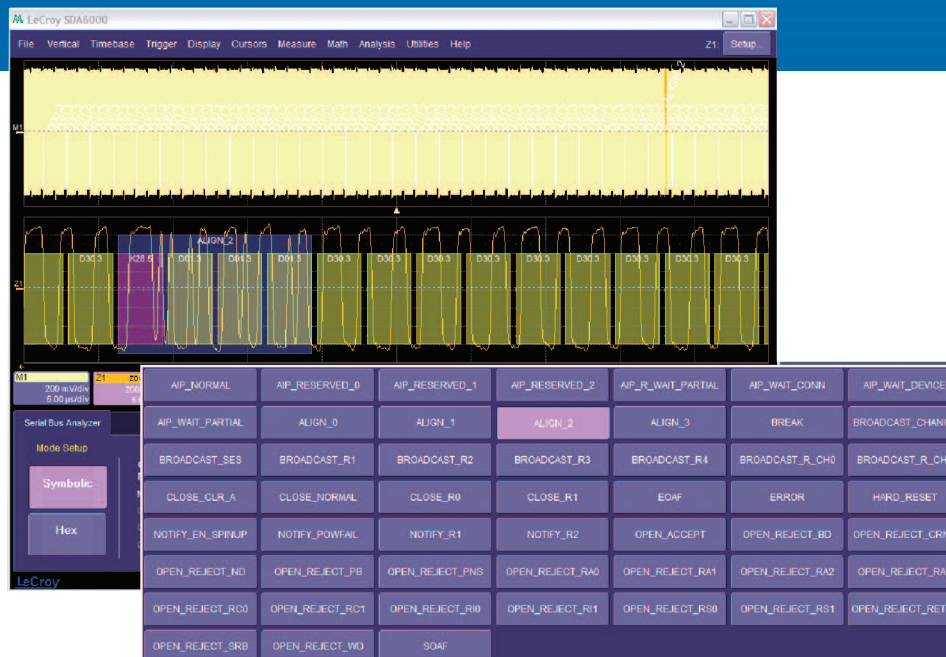Certain serial data standards (for example PCI Express™) transmit and receive data in multiple lanes. The ability to apply decoding to up to four simultaneously captured channels allows for multi-lane analysis that is not possible with single-channel solutions.

When combined with the high bandwidth abilities of the SDA 11000 oscilloscope, this software option permits symbolic decoding of high-speed serial data applications such as SATA Gen2 (3 Gb/s), PCI Express Gen2 (5 Gb/s) and SAS 6 Gb/s.

Specifications and Ordering Information

Correlate Protocol Events to Physical Waveforms for Greater Insight

LeCroy's unique combination of advanced protocol analysis and decoding tools allows for ultimate correlation of protocol messages to waveform events. LeCroy's protocol analyzers can be programmed to issue a trigger signal on the occurrence of any protocol primitive or message.

Specifications

Decoding Level	8B/10B to Symbolic Primitives up to 4 simultaneous channels	Trigger Pattern Length	32 bits (in SDA 6000A), Advanced Triggering Options when used with Protocol Analyzer Trigger Function
ASCII Display	Yes		
File Output	Yes	Interaction with Oscilloscope Functions	Yes – All measurement and analysis tools
Memory Length	50 Mpts per channel		
Hardware Trigger	Yes (SDA 6000A Serial Trigger)		

Ordering Information

Product Description	Product Code
8B/10B Decoding and Analysis Software Package for SDA Serial Data Analyzers	SDA-8B10B*

*SDA-8B10B is compatible with LeCroy Serial Data Analyzers, Disk Drive Analyzers, and the WavePro and WaveMaster Oscilloscope Series.

Customer Service

LeCroy oscilloscopes and probes are designed, built, and tested to ensure high reliability. In the unlikely event you experience difficulties, our digital oscilloscopes are fully warranted for three years and our probes are warranted for one year.

This warranty includes:
- No charge for return shipping
- Long-term 7-year support
- Upgrade to latest software at no charge

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1-800-5-LeCroy
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To find the most convenient one visit www.lecroy.com**