LeCroy

Overview

The LeCroy STX-131 Protocol Analyzer provides an extremely economical and portable version of our highly-acclaimed STX Series of protocol analyzers. The STX-131 is specifically designed for the requirements of service technicians that require the use of a portable and easy-to-use protocol analyzer to troubleshoot and solve problems in the field.

The STX-131 interfaces to a notebook (or other) host computer via a simple USB port, and provides complete data capture and analysis for SAS and SATA. The STX-131 supports data rates of 1.5 and 3 Gb/s, and captures and decodes traffic for immediate analysis and problem identification. In addition, the data files captured by the STX-131 can be analyzed by any of the STX Series of protocol analyzers, allowing data files captured in the field to be quickly analyzed by support specialists located remotely.

Data Capture

The STX-131 provides the ability to capture all frames transmitted. The system allows the user to maximize the use of trace memory by excluding traffic which may not be of interest, including IDLEs, SATA_Cont or SATA_Sync primitives. The system can also truncate data payloads that extend beyond a user-defined length. The system features the fastest lock time and provides the best capability for capturing and decoding advanced power management available in the industry.

The STX-131 also includes auto-speed detection to automatically detect standard data rates of 1.5 or 3 Gb/s.

Triggering

The STX-131 includes manual triggering which uses the on-screen start/stop button, automatic triggering using the external trigger event connector, or manual by using "snapshot" mode (record until a predefined buffer size is reached). The system allows the user to define a trigger position that can be at the start, end or at any position within the captured data trace. This provides the ability to capture traffic before and/or after specific problem events, so that the problem can be identified in context.

Statistical Reports

The STX-131 provides a wide range of statistical reports and data views to help the user analyze complex bus traffic patterns. Statistical reports include performance statistics, primitive statistics, SAS address statistics, SCSI command statistics, and more.

Data views include a tree structure showing the logical organization of frames and allowing expansion of individual fields. A spreadsheet display of decoded data fields that can be exported to text or Microsoft® Excel format. An OOB waveform view displays the OOB sequences. These different views can be simultaneously displayed in the screen.

STX-131 Protocol Analyzer

Specifications

Data Rates Supported	1.5 Gbps and 3.0 Gbps
Recording Buffer Size	512 MB
Ports	One port
Trigger Sources	Snapshot mode, manual triggering through the on-screen Start/Stop button, or external BNC trigger input
Filtering	Can filter bus traffic including IDLEs; SATA_Sync and SATA_Cont primitives; and "XXXX" filler traffic. The system can also truncate data payloads beyond a user-defined limit
Host User Interface	USB 2.0, Port Type "B"
Dimensions	9.5" x 2.0" x 10.8" (24 x 5 x 27.5 cm)
Weight	2.2 lbs (1.0 Kg)
Environmental Conditions	
Operating Temperature	32-95°F (0-35°C)
Operating Humidity	5-95% non-condensing
Altitude	0 to 2000 meters

Ordering Information

System Description	Part Number
STX-131 SAS & SATA 3.0 and 1.5 Gbps 1-port analyzer system	SA1-31-2-A
STX-131 SATA 3.0 and 1.5 Gbps 1-port analyzer system	ST1-31-2-A

For pricing and availability information, please contact LeCroy Corporation at 800-909-7211 or email psg_sales@lecroy.com.