

Protocol Analyzers, Exercisers, Error Injectors and Compliance Test



Summit™ T3-16 Analyzer
& Summit Z3-16 Exerciser
for PCI Express® 3.0



Sierra™ M6-4 and M6-2 Protocol Verification
Systems for 6G SAS/SATA



SierraFC™ Analyzer
for 8G Fibre Channel



Voyager™ M3i Protocol
Verification System for USB 3.0

For more information, please contact:



PCI Express

Summit™ T3-16 Analyzer

2.5 GT/s ✓ 5 GT/s ✓ 8 GT/s ✓



The Summit T3-16 is LeCroy's highest performance PCI Express protocol analyzer, and offers advanced features such as: support for PCI Express 3.0; data rates of 2.5 GT/s, 5 GT/s and 8 GT/s; full data capture on bidirectional lane widths of x1, x2, x4, x8 and x16; and a full 8 GB of trace memory.

Summit Z3-16 Exerciser

2.5 GT/s ✓ 5 GT/s ✓ 8 GT/s ✓



The Summit Z3-16 is LeCroy's fourth generation protocol exerciser, with support for PCI Express at the Gen3 data rates of up to 8 GT/s. The Summit T3-16 Analyzer and Summit Z3-16 Exerciser provide a complete test and development system for engineers working on PCI Express 3.0 designs.

Summit T2-16 Analyzer

2.5 GT/s ✓ 5 GT/s ✓



With advanced features such as support for PCI Express Spec 2.1, data rates of both 2.5 and 5 Gb/s, lane widths from x1 to x16, and a full 8 GB of trace memory, the Summit T2-16 provides unmatched capability and flexibility for developers and users of advanced PCI Express products.

Summit Z2-16 Exerciser

2.5 GT/s ✓ 5 GT/s ✓



The Summit Z2-16 is a critical test and verification tool intended to assist engineers in developing and improving the reliability of their systems. The Summit Z2-16 can emulate PCI Express root complexes or device endpoints, allowing new designs to be tested against known standards.

PE Tracer™ ML Analyzer and PE Trainer™ ML Exerciser

2.5 GT/s ✓



Designed for developers, the LeCroy PE Tracer ML Analyzer and PE Trainer ML Exerciser allow for full bi-directional decode and capture of x4, x2 and x1 PCI Express links. Through LeCroy's advanced technology, a single PE Tracer ML x4 analyzer readily supports bi-directional x1, x2 and x4 links, as well as unidirectional x8 link data capture and analysis.

Edge™ T1-4 Analyzer

2.5 GT/s ✓



The Edge T1-4 Analyzer allows for full bi-directional slot card interposer capture and decode of x4, x2 and x1 PCI Express links. This analyzer leverages the intuitive and powerful CATC Trace analysis software system, embedding a deep understanding of the PCI Express protocol hierarchy and intricacies.

PCIe Gen2 Protocol Test Card

2.5 GT/s ✓ 5 GT/s ✓



The LeCroy Protocol Test Card (PTC) is a multimodal test board used for checking adherence to the protocol-oriented sections of the PCI Express 2.0 specification. The LeCroy Protocol Test Card has been selected by the PCI-SIG® as the official compliance test tool for PCI Express 2.0 at PCI-SIG Workshops.

ProtoSync® PE Oscilloscope Decode

2.5 GT/s ✓ 5 GT/s ✓ 8 GT/s ✓



Provided as an option to LeCroy's WaveMaster® and WavePro® Series of oscilloscopes, ProtoSync PE goes beyond simple decode annotation and provides the intuitive LeCroy CATC Trace and BitTracer views of the captured waveform, with a time and zoom correlation of physical layer signals, protocol packets, and logic analyzer byte views on a single instrument.

SimPASS™ PE Simulation Analysis

2.5 GT/s ✓ 5 GT/s ✓ 8 GT/s ✓



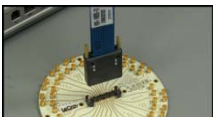
LeCroy's new SimPASS PE software application brings all the analytical and decoding power of a protocol analyzer to the pre-silicon stage of simulation design verification. Decode, troubleshoot and debug your simulation code before taking the expensive step of committing the design to silicon.

Interposers and Probes

LeCroy offers the industry's widest range of PCI Express interposers and probes, including a wide variety of specialty probes designed to make it simple and easy to probe sophisticated high-speed serial designs. All LeCroy interposers and probes are designed to ensure 100% data capture at full data rates with minimal perturbation of the signal integrity.



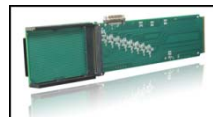
Active Slot Interposer



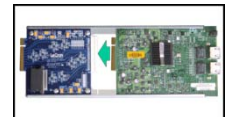
Mid-bus Probe



Mini Card Interposer



AMC Interposer



ExpressModule Interposer



Passive Slot Interposer



Multi-lead Probe (solder down)



ExpressCard Interposer



XMC Interposer



HP Blade Server Interposer

Serial Attached SCSI (SAS) and Serial ATA (SATA)



Sierra™ M6-4 Protocol Verification System

1.5G ✓ 3G ✓ 6G ✓



The Sierra M6-4 SAS/SATA test solutions support data rates up to 6 Gb/s, and provide analysis, traffic generation, emulation, error injection, and compliance test capabilities in one flexible platform. The Sierra product family sets new standards for performance while incorporating a complete set of features in a single, economical system.

Sierra M6-2 Protocol Verification System

1.5G ✓ 3G ✓ 6G ✓



The Sierra™ M6-2 system provides an economical alternative to the industry-leading Sierra M6-4 for customers that require only 1 or 2 SAS/SATA ports. While providing all of the traffic generation, emulation, error injection, and compliance test capabilities of the M6-4 the Sierra M6-2 delivers this in a more compact package with significant cost savings.

STX Protocol Verification Systems

1.5G ✓ 3G ✓



The rich software and variety of hardware options of the STX Series enable users to perform a variety of sophisticated functions using a single, compact hardware package. This flexibility allows users to gain visibility and exert precise control over every aspect of the SAS and SATA architectures, providing a complete solution for Serial Attached SCSI and Serial ATA testing.

STX A6-4 Analyzer

1.5G ✓ 3G ✓ 6G ✓



The STX A6-4 is an affordable, full-featured protocol analyzer that supports SAS and SATA up to 6 Gb/s speeds. The STX A6-4 can be configured as a 1-, 2- or 4-port analyzer, with trace depth up to 8 GB, and can also be cascaded with other STX A6-4 units, increasing the number of physical links that can be monitored (up to 32 physical links).

InFusion™ Error Injector

1.5G ✓ 3G ✓



InFusion systems allow you to inject errors and modify traffic in order to verify real-world fault handling. While sitting in the data path on a live system, they can programmatically alter or corrupt traffic. The InFusion systems are the ideal tool for stress testing systems while running real traffic and actual workloads

Fibre Channel



SierraFC™ M8-4 Analyzer

1G ✓ 2G ✓ 4G ✓ 8G ✓



SierraFC supports up to 8 Gb/s FC data capture and protocol analysis. SierraFC systems can be cascaded to provide additional recording capacity or combined with other Sierra family products to enable Multiple Protocol Analysis. SierraFC is cost-effective, easily integrated within a 19" rack, deployed as a bench top instrument, or carried into the field.

FCTracer™ Analyzer

1G ✓ 2G ✓ 4G ✓



LeCroy's FCTracer is a portable 4, 2 and 1 Gb/s Fibre Channel test and debug platform that combines non-intrusive, multi-port recording with the most advanced triggering and decoding features available.

InfiniBand®



IBTracer™ 4X Analyzer



The LeCroy IBTracer™ 4X is an InfiniBand Protocol Analyzer that advances validation and compliance testing for next generation InfiniBand silicon, switches, and software. Supporting 4 wide 2.5 Gb/s dual-simplex connections (Single Data Rate, SDR), IBTracer 4X captures and displays InfiniBand traffic using the de facto standard CATC Trace™ graphical interface.

IEEE 1394 (Firewire)



FireInspector™ Analyzer and Exerciser

100M ✓ 200M ✓ 400M ✓



LeCroy's FireInspector IEEE 1394 Bus & Protocol Analyzer / Exerciser dramatically speeds *time to market* and simplifies complex development projects with its intuitive CATC Trace display of bus traffic. Advanced analysis features include a tree-structured topology view that updates dynamically with CSR and connection speed information.



Universal Serial Bus (USB)

Voyager™ M3i Protocol Verification System

1.5M ✓ 12M ✓ 480M ✓ 5G ✓



The Voyager M3i is LeCroy's 6th generation USB protocol verification system designed for the next evolution of universal serial bus known as SuperSpeed USB. Leveraging LeCroy's extensive expertise in high-speed serial data analysis, the Voyager provides 100% accurate protocol capture of both USB 2.0 and 3.0 at data rates up to 5 Gb/s.

USB Tracer/Trainer™ Analyzer and Exerciser

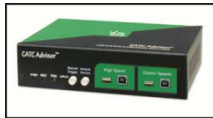
1.5M ✓ 12M ✓ 480M ✓



Invaluable in the development of USB silicon, firmware and software, LeCroy's USB Tracer/Trainer is an integrated analyzer / exerciser system that allows design engineers to test functionality, error recovery and compliance for low, full and high-speed USB devices.

USB Advisor™ Analyzer

1.5M ✓ 12M ✓ 480M ✓



The USB Advisor protocol analyzer is a full featured analysis system for those testing USB 2.0 devices. Like LeCroy's other analyzers, it captures, displays, and analyzes bus traffic using the CATC Trace display software. It automatically highlights protocol errors while displaying a chronological list of packets with full decoding of the upper level USB device classes.

Conquest™ Analyzer

1.5M ✓ 12M ✓ 480M ✓



The Conquest Analyzer provides comprehensive USB analysis features at an extraordinary price point. Comprehensive USB device level decoding makes it easy to understand and debug transactions occurring at the system level. Designed for easy setup with time saving features like predefined trigger settings, Conquest is equally suited for first-time and advanced users.

USB Mobile™ T2 Analyzer

1.5M ✓ 12M ✓ 480M ✓



The USB Mobile T2 is the industry's smallest, most affordable hardware-based USB 2.0 protocol analyzer family that combines the defacto standard CATC Trace display with powerful analysis features. The USB Mobile fits into a single PCMCIA slot in a laptop computer yet provides much of the same lab quality protocol analysis offered in top-of-the-line USB analyzers.

USB 3.0 Test Suites

1.5M ✓ 12M ✓ 480M ✓ 5G ✓

LeCroy is the only company that offers a complete line of USB 3.0 test solutions covering transmitter test to protocol test, and every step in between for comprehensive verification, debug and compliance, through our complete line of oscilloscopes, receiver test and protocol test solutions. See www.lecroy.com for more information on USB 3.0 bundles.

Wireless USB and WiMedia UWB



UWB Tracer/Trainer™ Analyzer and Exerciser



LeCroy's UWB Tracer/Trainer is the industry's most advanced validation system for radio-based communications using WiMedia™ Alliance's Ultra Wideband (UWB) common radio platform and Certified Wireless USB protocol. The fully integrated system reliably transmits multi-stage test scenarios while simultaneously recording the exchange and displaying the results.

Bluetooth®



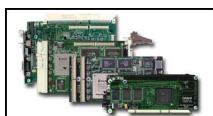
Merlin II™ Analyzer



LeCroy's Merlin II is a powerful protocol analyzer for Bluetooth v1.2 and 2.0. Small and portable, Merlin II is easy to position near the device under test. It features extensive triggering, robust filtering, spool-to-disk recording and the CATC Trace display to speed up interpretation and debug of Bluetooth traffic. See www.lecroy.com for additional Bluetooth products.

PCI and PCI-X

TA Series™ Protocol Verification Systems



The TA Series of PCI/PCI-X Protocol Verification Systems is loaded with features designed to quickly isolate issues and confirm proper device and system operation. The TA Series supports a broad range of test capabilities, including analyzer, exerciser, error injection and PCI compliance test, with a simple, intuitive graphical user interface.