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PCI Express® Edge™ T1-4 Analyzer

Ideal for doing protocol development for add-in boards, servers, desktops, and workstations.

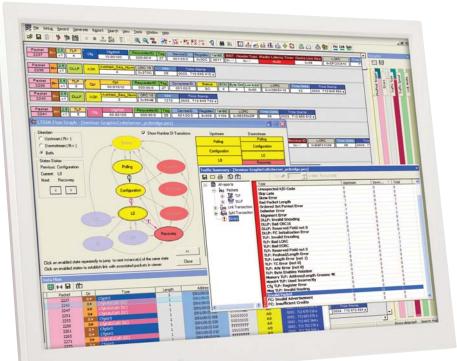**The PCI Express Edge™ T1-4 Analyzer uses a high impedance, non-intrusive probing technology, allowing full, unaltered data pass-through. The analyzer supports bidirectional x1, x2 and x4 PCI Express link data capture and analysis. It supports PCI Express specification version 2.0 at 2.5 GT/s per lane. This product is ideal for anyone doing protocol development for add-in boards, servers, desktops, and workstations.**

PCI Express Edge T1-4 users will appreciate a full-featured analyzer with advanced features that enable deep analysis for error troubleshooting of bus management and protocol operation issues. The PCI Express Edge T1-4 has many innovative features that dramatically reduce debugging time, accelerating time-to-market for PCI Express solutions.

The PCI Express Edge T1-4 utilizes the CATC Trace™ to assist users in analyzing how PCI Express components work together in diagnosing problems. The CATC Trace is a powerful and intuitive expert software system, embedding detailed knowledge of the protocol hierarchy and intricacies, as defined in the protocol specification.

The CATC Trace utilizes a Windows-based graphical display that has been optimized for fast and easy navigation through a captured traffic session. Users are alerted as violations are detected at all levels of the protocol layering, and can easily drill down to areas of interest or collapse and hide fields that are not relevant. Protocol data can be viewed in several ways from logical to chronological, and by events unique to PCI Express.

Find errors fast by using the powerful triggering, filtering, and error reporting. View meaningful reports about performance and protocol behavior in real time and post captured traffic. Know that your data is accurate through CRC rechecking, which produces reliable and complete decodes of Transaction Layer Packets (TLPs), Data Link Layer Packets (DLLPs), and all PCI Express primitives. For deeper analysis, you can display packet contents as raw 10-bit codes.

Powerful display views allow for easy analysis of protocol traffic.

FEATURES	BENEFITS
Powerful & Intuitive CATC Trace Expert Software	Faster interpretation and debug of PCI Express traffic
Extensive Decoding	Complete, accurate, and reliable decoding of TLPs (Transaction Layer Packets) and DLLPs (Data Link Layer Packets) and all PCI Express Primitives
Monitoring and Link Utilization	View traffic as well as post-session statistics.
Advanced Triggering/Filtering	Find Errors fast by isolating important traffic, specific errors or data patterns. Understand transactions more clearly by removing non-essential fields from the trace.
Intelligent Reporting	Quickly identify and track error rates, abnormal link or timing conditions, display configuration space and protocol specification details.
Dword to Transaction Level Viewer	View Dwords, Packet, Link and Split Transaction levels of the PCI Express protocol.
Deep Buffer Recording Capacity	Capture long recording sessions for analysis and problem solving up to 2 GB.
CRC Checking	Know that info being displayed is accurate.
High-speed USB Port	No complicated setup required.
Downloadable Trace Viewer	Share and annotate trace recordings within a development team.
90 Day Hardware Warranty	Protect your investment.

Features

Protocol Hierarchical Display	✔
Dword View	✔
LTSSM View	✔
Data Flow View	✔
Trace Navigator	✔
TLP Packet Script Decoding	✔
Trigger/Filter Control	✔
Power Search	✔
Header Field Viewer	✔
Config Space Viewer	✔
Advanced Hide	✔

Features

Timing Calculator	✔
x4 / x2 / x1 lane width support	✔
Performance Metrics	✔
Flow Control Credit Tracking	✔
Automation API	✔
Expert Recording Buffer Size	2 GB
Expert Real-time Bus Monitoring	✔
Expert Triggering	✔
Expert Traffic Summary View	✔
Expert Graphical Bus Utilization View	✔
Verification Script Engine	✔

Ordering Information

Product Description	Product Code
Edge T1-4 (licensed as a Gen1 x1 Analyzer)	PE017AAA-X
Edge T1-4 (licensed as a Gen1 x4 Analyzer)	PE019AAA-X
Edge x1 to x4 Upgrade	PE021SUA-X

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1-800-5-LeCroy
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**Local sales offices are located throughout the world.
To find the most convenient one visit www.lecroy.com**