

Press Release

Comprehensive MIPI M-PHY Test Solutions

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LeCroy Introduces Comprehensive Verification, Debug, and Conformance Test Suite for MIPI M-PHY

Transmitter, Receiver, S-Parameter and TDR Test Solutions for Mobile Communications Used in Smartphones, Wireless-Enabled Tablets and Netbooks

Chestnut Ridge, NY, June 13, 2011 – LeCroy Corporation today introduced a test suite tailored specifically to the verification, debug, and conformance testing of MIPI^R Alliance M-PHYSM and various other signal types using the M-PHY physical layer standard. LeCroy will be demonstrating the [MIPI M-PHY test suite](#) using the silicon-proven Mixel M-PHY at the MIPI Alliance Test Forum Days meeting in Copenhagen, Denmark, June 16.

As part of the Mixel MIPI Alliance Ecosystem Partnership, LeCroy was able to leverage the relationship with Mixel to develop and validate the M-PHY test suite with early IP Cores.

“We are confident that our collaboration with LeCroy will help accelerate our customers’ products development supporting MIPI M-PHY specifications,” said Ashraf Takla, CEO of the Mixel, Inc. “We are looking forward to continued successful collaboration with LeCroy and all of our MIPI ecosystem partners,” he added.

MIPI Alliance is a global, collaborative organization comprised of companies that span the mobile ecosystem and are committed to defining and promoting interface specifications for mobile devices. There were approximately 700 million MIPI powered integrated circuits in production in 2010, with projected growth to 6.2 billion units by 2015. The M-PHY standard is an important factor in driving the unit growth with improved power efficiency, low pin count, more robust symbol coding, multiple transmission speed rates, and compatibility with optical applications.

Such a powerful and robust protocol demands stringent conformance tests requiring transmitter, receiver, and interface S-parameter and Impedance tests. The LeCroy MIPI M-PHY test suite provides all of the tools needed to address the conformance test specifications in an easy and accurate fashion, using the WaveMaster 8 Zi oscilloscope for protocol, eye diagram, and jitter and skew tests; the PeRT³ Eagle for Loopback mode initiation and jitter tolerance tests; and the SPARQ-4004E for Transmitter, receiver, and cable TDR and S-Parameter tests.

The LeCroy WaveMaster 8 Zi oscilloscope has the bandwidth to address the multi-speed requirements as defined by Gear, 1, 2, and 3 with models ranging from 4 GHz to 45 GHz. The intuitive decode and physical layer test package provides easy setup for eye diagram, jitter, and amplitude/slew rate timing requirements to address the Tx Timers and Signaling test requirements.

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The PeRT³ (Protocol-enabled Receiver and Transmitter Tolerance Tester) Eagle system is designed to test receivers under conditions of stress. The PeRT³ fills the space between physical layer test and protocol test, providing a new and more intelligent capability for performance testing of receivers and transmitters to accurately test the Rx Timers and Electrical Tolerances portion of the conformance test suite.

The Interface S-Parameter and Impedance test requirements are met with the LeCroy SPARQ. The SPARQ is a TDR/TD-based analyzer that measures 40 GHz, 4-port S-Parameters with a single button press at a fraction of the cost of a VNA. The Tx/Rx S-Parameter and Resistance/Leakage test requirements are easily met with the SPARQ-4004E model.

Test Solutions for Other MIPI Specifications

MIPI D-PHY tests are met with products already available from LeCroy. An automated compliance package for D-PHY quickly characterizes the D-PHY interface while the CSI-2, DSI, DigRF 3G and DigRF v4 protocol and measurements tools greatly ease the debug process.

About LeCroy

LeCroy Corporation is a worldwide leader in serial data test solutions, creating advanced instruments that drive product innovation by quickly measuring, analyzing, and verifying complex electronic signals. The Company offers high-performance oscilloscopes, serial data analyzers, and global communications protocol test solutions used by design engineers in the computer and semiconductor, data storage device, automotive and industrial, and military and aerospace markets. LeCroy's 45-year heritage of technical innovation is the foundation for its recognized leadership in "WaveShape Analysis"—capturing, viewing, and measuring the high-speed signals that drive today's information and communications technologies. LeCroy is headquartered in Chestnut Ridge, New York. Company information is available at <http://www.lecroy.com>.

About Mixel

Mixel is a leading provider of differentiated mixed-signal IP cores to the semiconductor and electronics industries, with a particular focus on low-power mobile applications. Our silicon-proven IP cores utilize a Legorithmic™ approach and are highly configurable for a wide range of applications. Mixel's mixed-signal IP portfolio includes high-performance PHY, SerDes, Transceivers, PLLs, DLLs, and analog building blocks, which are used in mobile applications, such as MIPI and MDDI, networking, and storage. For more information, contact Mixel at info@mixel.com or visit www.mixel.com.

About MIPI Alliance

MIPI Alliance is a global, collaborative organization comprised of companies that span the mobile ecosystem and are committed to defining and promoting interface specifications for mobile devices. MIPI Specifications establish standards for hardware and software interfaces which drive new technology and enable faster deployment of new features and services. For more information, visit www.mipi.org.

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