

For the Tektronix BERTScope™ BSA and Real-Time Oscilloscope PCI Express® 3.0 Base Specification Receiver Test Automation Software (GRL-PCIE3-BASE-RX)

Quickly test your Receiver Design to the PCIe 3.0 Base Specification



Tektronix
Solutions Partner

Product Overview

GRL's PCI Express 3.0 Base Specification Receiver Calibration and Test Automation software for the Tektronix BERTScope BSA (GRL-PCIE3-BASE-RX) provides an automated, simple and efficient way to test your PCIe 3.0 Receiver to the Base (ASIC) Specification.

GRL-PCIE3-BASE-RX automates both the BERTScope and the Tektronix real-time oscilloscope to calibrate the stressed eye opening and test Receiver conformance and jitter tolerance. Following an industry-standard methodology, the software uses the Seasim statistical data eye simulator to establish DDJ and the final calibrated eye diagram.

GRL-PCIE3-BASE-RX provides a simple user interface to automate complex PCIe testing. The software runs on any Windows 7 or 8 PC or oscilloscope, and significantly reduces equipment calibration time.

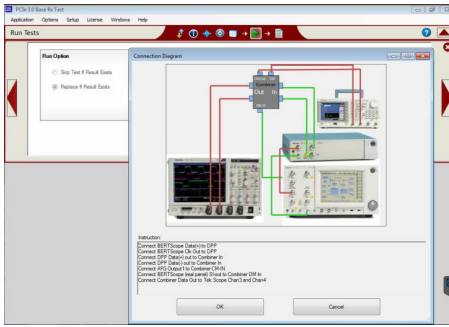
GRL-PCIE3-BASE-RX supports looping through a variety of timing and voltage parameters, using ranges defined by the user, to create 2-dimensional result plots.

Leverage and protect your BERTScope investment. Save valuable time and optimize the use of your resources across multiple projects.

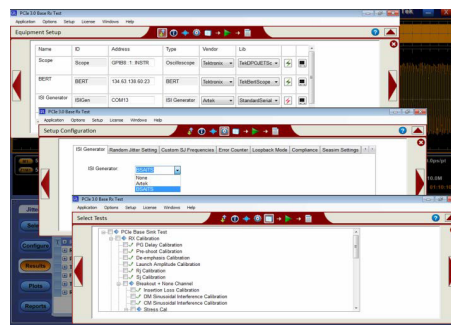
- » Automate PCIe 3.0 Receiver Base Compliance using Tektronix test equipment
- » Perform Receiver Jitter Tolerance testing at the push of a button
- » Reduce technical risk using an industry-accepted calibration methodology
- » Achieve consistent results with rapid test execution

Features

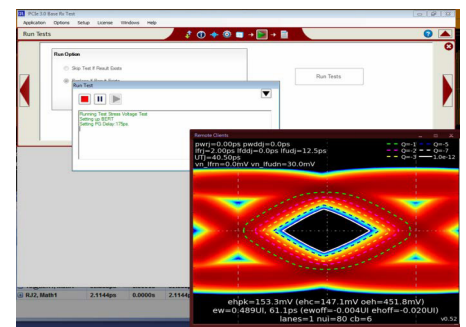
- » Automated calibration of signal impairments to achieve stressed Receiver Eye Height and Eye Width, in accordance with PCIe 3.0 Base Specification, using Seasim
- » Automated inter-symbol interference (ISI) channel calibration and Jitter Tolerance testing, at user-defined Jitter Frequency steps
- » Automated 2-dimensional range testing with user-selected timing and voltage parameters and ranges, including comprehensive plots and reports
- » Support for Variable ISI hardware
- » Simple setup, test execution, and reporting in PDF files
- » Fully configurable and customizable



Push-Button Automation



Fully Configurable



Automated Eye Calibration



Silicon Valley, USA

Hsinchu & Taipei, Taiwan

Bangalore, India

Böblingen, Germany

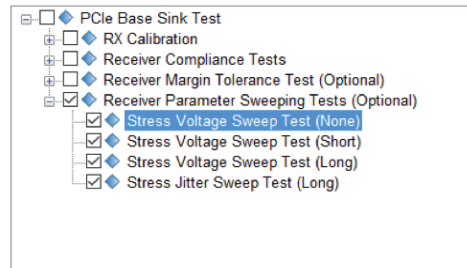
Singapore

Penang, Malaysia

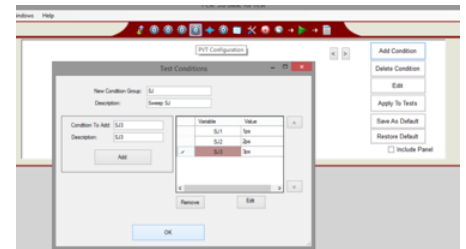
Beaverton Oregon, USA

Yokohama, Japan

Shanghai, China



Selectable Test Suite



Parameter Looping

Application Specifications

Specification	PCI Express Base Specification Revision 3.1, October 2014
Data Rates	8 GT/s
Supported Receiver Test	Common Clock Architecture
Required Equipment	Tektronix BERTScope BSA, 8Gb/s or above Tektronix Real-Time Scope DPO/MSO7000DX Tektronix DPOJET (Jitter and Eye Analysis) Software Tektronix CR125A Clock Recovery Unit Tektronix DPP125C Digital Pre-Emphasis Processor Tektronix AFG3252C Arbitrary Function Generator Tektronix PCIe Combiner BNC to SMA adapter ACE Unitek CLE1000-A2 (Variable ISI) or BERTSCOPE ISI Boards (Fixed ISI) High-performance SMA Cables

Ordering Information

For a formal quote & pricing information, contact info@graniteriverlabs.com, or your Tektronix sales representative.

Model Number	Description
GRL-PCIE3-BASE-RX	PCI Express 3 Base Specification Receiver Test Automation (When ordered from Tektronix, includes PCIe Combiner.)

About Granite River Labs

Granite River Labs (GRL) provides end-to-end Engineering Services and Test Solutions to help hardware engineers adopt high speed interfaces. A trusted partner of small up-and-coming hardware developers to some of the largest companies in the world, GRL combines recognized industry expertise in high performance test equipment, automated test solutions, and convenient locations to provide the utmost in customer service and robust, user-friendly tools. Together with our customers, we overcome challenges with designing and validating early stage products and new connectivity technologies.

For additional information or questions regarding Granite River Labs, including quotes, product demonstrations, software and technical assistance, please contact us at info@graniteriverlabs.com.

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