

KayaQ™ – The GRL Universal High Speed Bench Test Automation Framework (GRL-KAYAQ-FW)

Ready-to-use automation environment to overcome next generation bench testing challenges

Product Overview



Engineers managing bench testing of high speed interfaces face increasingly difficult challenges. The volume, complexity, and cost of testing continues to increase with higher data rates and ever more specifications to cover. Legacy equipment often doesn't support new high speed interface standards, and off-the-shelf test solutions have limited support for multiple equipment platforms, remote control, or data aggregation and reporting. As a result, engineers spend too much valuable time coding test automation that's hard to scale and support.

GRL's Universal High Speed Bench Test Automation Framework 'KayaQ™' is an enterprise-quality, Windows 7 PC-based, ready-to-use automation environment for labs overcoming the next generation challenges of bench testing. The world's leading provider of high speed interface PVT characterization test services, GRL developed KayaQ™ to address the gaps in available tools for high speed interface characterization. KayaQ™ provides a ready-to-deploy automated test solution for testing of high speed interfaces, tailored for the needs of volume bench-level IC PVT characterization.

KayaQ™ handles test workflows, test sequencing, data management, reporting, and analysis, all via an easy-to-use GUI, a freeing engineers higher value tasks. Non-programmers can develop scripts using GRL visual script environment with convenient equipment API libraries. KayaQ™ users can start testing Day 1 using KayaQ™'s standard features and add customized features without having to write code. With KayaQ™, users can easily integrate existing code and executables from any common programming language, and further customize KayaQ™ and develop low level device-specific control scripts using their preferred programming language or directly with the KayaQ™ GUI.

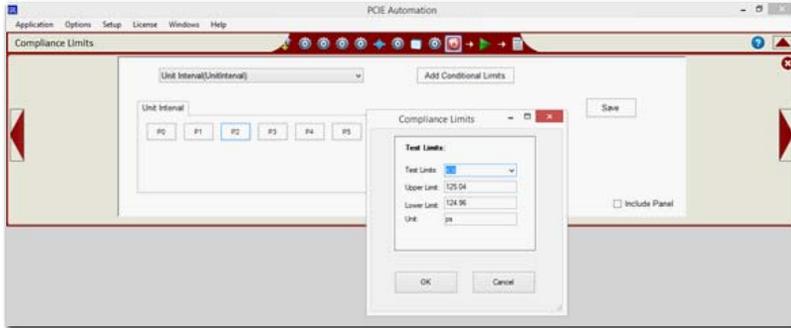
KayaQ™ supports all major test equipment vendor platforms, freeing engineers to get the most out of equipment already in the lab. KayaQ™ integrates automation applications from leading test equipment vendors via API, and fully supports GRL's expanding array of compliance test automation applications.

Features - Available Now

- » Supports all major test equipment vendor platforms
- » Comprehensive test workflow, data management, reporting, and analysis
- » API integration with automation software from leading test equipment vendors
- » Supports all GRL compliance test automation applications
- » Integrates device control to enable and configure test modes
- » Supports test script development in LabView, Python, C++, C#, and Visual Basic
- » Supports remote control from external software over TCP/IP, serial, etc
- » One-button data upload to central report management server
- » Automatically generates comprehensive .pdf and .csv reports of aggregated data over multiple test runs
- » Implementation support and customization services available
- » Runs on any Windows 7 PC

- » Enterprise-quality, ready-to use automation environment
- » Tailored for the needs of IC high speed interface bench characterization labs
- » Comprehensive test workflow, data management, reporting, and analysis
- » Supports all major test equipment vendor platforms

**Automate Test Equipment
Regardless of Vendor**



**Easy-to-Use Workflow Designed for
High-Volume Lab Environments**



**Comprehensive
Reporting Tools**



Silicon Valley, USA

Hsinchu & Taipei, Taiwan

Bangalore, India

Boeblingen, Germany

Singapore

Penang, Malaysia

Beaverton Oregon, USA

Yokohama, Japan

Application Specifications

GRL-KAYAQ-FW - The GRL Universal High Speed Bench Test Automation Framework

Supported Test Equipment All major vendors' oscilloscopes, BERTs, VNAs, TDRs, power supplies, and thermal control

Supported Script Development Environments LabView, Python, C++, C#, and Visual Basic

Ordering Information

For a formal quote and pricing contact info@graniteriverlabs.com

Model Number

Description

GRL-KAYAQ-FW

The GRL Universal High Speed Bench Test Automation Framework

GRL

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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 experts, 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 Test Solutions, including quotes, product demonstrations, software and technical assistance please contact us at: info@graniteriverlabs.com

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