PROTOCOL INSIGHT

Protocol Insight® announces enhanced Universal Flash Storage (UFS) memory protocol testing, debugging and compliance capability

Falcon v1.1 release supports testing, debug and compliance of UFS2.1 and UniPro1.61

Colorado Springs, Colorado, May 12, 2017 - Protocol Insight announces the availability of the Falcon v1.1 SW/FW with the unique Trace Validation and Events view capabilities. With v1.1 software Falcon now offers full support for UFS compliance testing of embedded UFS2.1, the UFS 2.1 external card and the UFSA CTM1.2. This release also adds enhanced analyzer and exerciser features.

Trace Validation is an expert system that uses state machine logic to analyze captured traces algorithmically without user intervention. It analyzes UFS and UniPro traffic for any deviations from the UFS or UniPro specifications or any other abnormalities of interest to the engineer, and presents the results linked to the packet listing windows for complete debug.

Events view displays events on the bus in a unique time-aligned display, allowing the engineer to easily drill down from the highest level trace view to the lowest level M-PHY primitives.

UFS compliance verifies embedded UFS2.1 and UFS 2.1 external cards to the CTS test cases in JESD224 as modified for JESD220B, JESD220C and JESD220-2.

The Falcon v1.1 release adds support for 244 CTS test cases, including JESD224 compliant test cases, errata test cases and preliminary embedded UFS2.1 and UFS2.1 external card CTS test cases. With both stimulus tests and Trace Validation analysis tests, a total of 491 tests are provided.

The previous v1.0 release provided support for 50 UniPro CTS test cases with 99 stimulus and Trace Validation analysis tests, as well as 14 UniPro Debug Trace Validation tests and 1 other Trace Validation test.

New analyzer features with v1.1 include:

1. Simple Trigger on all UniPro and UFS packet types and payloads, from M-PHY primitives to UFS SCSI and Protocol.
2. Simple Packet Search of all UniPro and UFS packet headers and payloads.
3. Performance enhancements and multi-lane support for Events view.
4. Trace Validation™ for UFS, using pre-existing Trace Validation analysis tests from the Falcon software library.

New Exerciser features include:

1. JEDEC JESD224 and UFSA CTM v1.2 support.
2. Stimulus error injection for UFS and UniPro.
3. Additional test executive UFS device configuration and control.

Pricing, configuration and availability:
The Falcon G300/G350 series UFS/UniPro Exerciser/Analyzer instruments are shipping now. Contact sales@protocolinsight.com for pricing information or to request a demo.

About Protocol Insight:
Protocol Insight (www.protocolinsight.com) offers test and measurement software tools to customers who are developing products for the mobile computing market, and consulting and design services to engineers implementing serial protocol interfaces.

Protocol Insight is a MIPI expert, with a background in both D-PHY and M-PHY protocol exercisers and analyzers. Protocol Insight contributes to the development of the UniPro standard thru the UniPro and Test Working Groups, and serves as Liaison between MIPI and JEDEC and UFSA.

About UFSA
The Universal Flash Storage Association (UFSA) was founded in 2010 as an open trade association to promote widespread adoption and acceptance of the UFS standard. Board of Director members include Keysight Technologies, Micron Technology, Montage Technology, Phison Electronics, Samsung Electronics, Silicon Motion Technology, SK Hynix and Tuxera. For more information about UFSA: http://www.ufsa.org/

About the MIPI Alliance
The 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.

The MIPI® Alliance is a non-profit corporation that operates as an open membership organization. All companies in the mobile device industry are encouraged to join, including semiconductor companies, software vendors, IP providers, peripheral manufacturers, test labs and end product OEMs. Today, more than 250 member companies actively participate in the Alliance, developing interface specifications which drive consistency in processor and peripheral interfaces, promoting reuse and compatibility in mobile devices.

Contact:
Ross Nelson
+1 (503) 367-5656
rossn@protocolinsight.com