



Protocol Insight Announces Protocol Conformance and Debug Analysis Tools for MIPI® Universal Flash Storage (UFS)



UFS20COMP UFS Test Suite now offers deep packet inspection with protocol aware rule checking and analysis of the UFS standard for mobile computing memory applications

Colorado Springs, Colorado, October 3, 2014 - Protocol Insight today announced that they will be demonstrating the new conformance and debug analysis capabilities of their [UFS Test Suite](#) at the upcoming MIPI® Alliance meeting in Shanghai, China on October 9th, 2014.

Universal Flash Storage (UFS) memory is designed for embedded and removable flash-based storage in mobile devices and systems requiring high performance and low power consumption. The UFS standard was developed by JEDEC, and is based on the MIPI® M-PHY physical and Unipro® protocol layers. UFS offers a low active power level and a near-zero idle power level, which, combined with the power-saving attributes of the related MIPI specifications, allows for significant reductions in device power consumption.

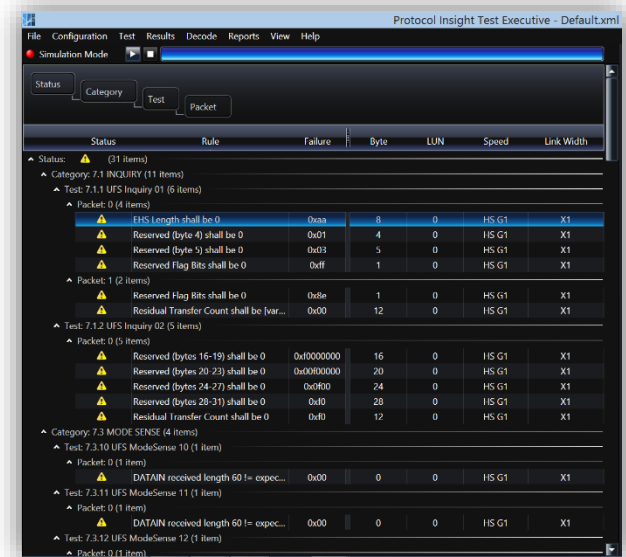
Protocol Insight's UFS20COMP UFS Test Suite, first announced in June at the MIPI Alliance meeting in Budapest, Hungary, is now much more than just a compliance test suite. In addition to verifying compliance with the JESD224 Conformance Test Specification, it offers new analysis capabilities while inspecting every packet for protocol conformance to JESD220B version 2.0.

New Conformance and Analysis Capabilities

Warning  status flags spell out any test results that do not conform to a "shall" requirement specified in JESD220B UFS standard Version 2.0. For example, in this screenshot the UFS Inquiry DATA IN packet (Packet 0) has an EHS length value of 0xaa in the LUN 0, HSG1, X1 link configuration. Since JESD220B states in Table 10.3 that "the Total EHS Length value shall be set to zero" this packet does not conform to the standard and is flagged with a Warning  status.

Test results can now be grouped, filtered and summarized to get a better picture of overall device performance. Analysis can be done by test parameters such as warning status, test category, individual tests, or test rules, or by packet characteristics such as packet number, byte, LUN, speed, and link.

For further analysis, individual packets can be viewed in a packet decode pane in a structure consistent with JESD220B.





Pricing and availability:

A beta release of the UFS20COMP UFS Test Suite is available now, and version 1.0 will be released in October 2014. Contact sales@protocolinsight.com for v1.0 release schedule and pricing information.

About Protocol Insight:

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

Protocol Insight staff have extensive experience developing T&M protocol tools, having been involved in the industry's first Bluetooth, PCI Express, MIPI D-PHY and MIPI M-PHY protocol analyzer, exerciser, and compliance products.

Protocol Insight is a MIPI expert, with a background developing both D-PHY and M-PHY protocol exercisers and analyzers. Protocol Insight staff have contributed to the development of the UniPro standard thru the UniPro Working Group, and have had direct interaction and collaborated with strategic MIPI customers and industry leaders worldwide, in marketing, business development and co-development roles.

Protocol Insight offers MIPI test capability, and serial protocol and MIPI design consulting services.

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.

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