



## UFS 3.0, UniPro 1.8 and M-PHY 4.1 now supported with the Protocol Insight Falcon G400 Analyzer and G450 Exerciser/Analyzer

**The Falcon G400 and G450 are now shipping, providing Trace Validation™ for advanced debug and test executive for stress testing and compliance testing of UFS 3.0**

Colorado Springs, Colorado, March 30, 2018 - Protocol Insight is now shipping the Falcon G400 UFS 3.0/UniPro 1.8 protocol Analyzer and the G450 Exerciser/Analyzer. The G400 protocol analyzer can capture and analyze JEDEC UFS 3.0 traffic on MIPI UniPro 1.8 and MIPI M-PHY HS-G4B x2 links, and the G450 exerciser/analyzer also generates UFS 3.0 traffic on UniPro 1.8 and HS-G4B x2 links.

The Falcon G400 series supports MIPI M-PHY events including Burst, Hibern8, Line-Reset, Prepare, Sleep, and Stall. It also supports MIPI UniPro L1.5 PA Layer events including skips and fillers, SoB and EoB, TRGs and PACPs, and L2 Data Link Layer and JEDEC UFS events.

“Initial UFS 3.0 silicon incorporating UniPro 1.8 is being turned on now by industry leaders,” said Ross Nelson, general manager, Protocol Insight. “With the availability of the Falcon G400 series, the ecosystem is now fully equipped with the critical tools needed to debug and characterize UFS 3.0 and UniPro 1.8.”



### **Trace Validation™ and test executive for advanced debug and characterization**

Protocol Insight’s unique Trace Validation expert system included with the Falcon series automatically analyzes UFS 3.0 and UniPro 1.8 link traffic for common debug issues such as UniPro Link Startup Sequence and Power Mode Change failures. The G450 Exerciser/Analyzer also supports stress testing, margin and corner case testing, and compliance testing of both UFS and UniPro.

“Designers implementing the latest JEDEC UFS 3.0 flash storage interface into advanced SoCs require a full-featured protocol test system,” said John Koeter, vice president of marketing for IP at Synopsys. “The combination of Synopsys’ DesignWare® MIPI M-PHY 4.1 IP and Protocol Insight’s Falcon G400 analyzer enables customers to test and debug their silicon thoroughly so they can bring their products to the market quickly and with less risk.”

### **Pricing, configuration and availability**

The Falcon G400 series UFS 3.0/UniPro 1.8 Analyzer and Falcon G450 UFS 3.0/UniPro 1.8 Exerciser/Analyzer are shipping now. Go to <http://www.protocolinsight.com/falcon-g400g450/> or contact [sales@protocolinsight.com](mailto:sales@protocolinsight.com) for more information.



# PROTOCOL INSIGHT

## About [Protocol Insight](#)

Protocol Insight ([www.protocolinsight.com](http://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 [JEDEC](#)

JEDEC is the global leader in the development of standards for the microelectronics industry. Thousands of volunteers representing nearly 300 member companies work together in over 100 JEDEC committees and task groups to meet the needs of every segment of the industry, manufacturers and consumers alike. The publications and standards generated by JEDEC committees are accepted throughout the world. All JEDEC standards are available for download from the JEDEC website. For more information, visit [www.jedec.org](http://www.jedec.org).

## About the [MIPI Alliance](#)

MIPI Alliance (MIPI) develops interface specifications for mobile and mobile-influenced industries. There is at least one MIPI specification in every smartphone manufactured today. Founded in 2003, the organization is celebrating its 15th year of moving mobile forward with over 300 member companies worldwide and 14 active working groups delivering specifications within the mobile ecosystem. Members of the organization include handset manufacturers, device OEMs, software providers, semiconductor companies, application processor developers, IP tool providers, test and test equipment companies, as well as camera, tablet and laptop manufacturers. For more information, please visit [www.mipi.org](http://www.mipi.org).

## 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, Microsoft, Montage Technology, Phison Electronics, Samsung Electronics, Silicon Motion Technology, SK Hynix, and Tuxera. For more information about UFSA: <http://www.ufsa.org/>

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