

## **Meeting the Test Needs of Next Generation Application Processors**

*Xcerra introduces HSI1x 12.8 Gbps SerDes test instrument with industry-leading channel density and performance*

**Milpitas, California, August 2018:** The new Xcerra HSI1<sub>x</sub> instrument for the well-established Diamond<sub>x</sub> platform features 32 transmit lanes and 24 receive lanes with up to 12.8 Gbps data rate. The instrument can be used for protocol and physical layer testing of leading edge SerDes ports, such as MIPI, PCIeexpress, VbyOne, HDMI and USB, found on the latest applications processors, flat panel display devices, and other high performance ICs.

The latest application processor and related ICs require greater than 6.4 Gbps and have increased lane counts. Furthermore, many ports are mixed-mode, requiring both embedded clock and forwarded clock operation. With 32 transmit and 24 receive lanes per instrument running at up to 12.8 Gbps data rate, HSI1<sub>x</sub> provides the highest channel density and cost-effectiveness in the ATE industry allowing for high multi-site full-functional testing resulting in the lowest cost of test.

HSI1<sub>x</sub> builds on the established Diamond<sub>x</sub> HSIO instrument and enhances the capabilities to meet the advanced test requirements: The HSI1<sub>x</sub> has 3.5 times the lane count and twice the data rate of the HSIO instrument, and adds programmable lane-lane timing alignment. The HSI1<sub>x</sub> features true parallel clock-data recovery and bit-error-rate testing, built-in PRBS pattern generation, deep user-programmable pattern memory, and flexible jitter and equalization settings.

Christopher Lemoine, Product Marketing Director, highlights: "Xcerra has long legacy of leading-edge SerDes solutions. Working closely with our customers, we have developed this new instrument to support the test needs of next generation applications processors, flat panel display drivers, display timing controllers, and other high data rate devices, with

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cost effectiveness that is unmatched in the ATE industry. Combined with the ground-breaking efficiency and scalability of the Diamond<sub>x</sub> platform, the HSI1<sub>x</sub> is a compelling solution for the latest mobility, consumer and automotive devices.”

To learn more about the Diamond<sub>x</sub> and its instruments, please visit

[www.xcerra.com/diamondx](http://www.xcerra.com/diamondx) .

## **About Xcerra**

Xcerra is comprised of two reporting segments; Semiconductor Test Solutions (STS) and Electronics Manufacturing Solutions (EMS). The STS segment supplies semiconductor testers, test handlers, device contactors and associated services. The EMS segment offers products and services for PCB and PCBA test as well as innovative and highly reliable interconnect components for electronic manufacturing. The combination of these businesses creates a Company with a broad spectrum of semiconductor and PCB test expertise that drive innovative new products and services, and the ability to deliver to customers fully integrated semiconductor test cell solutions. The Company’s products and services address the broad and divergent requirements of the mobility, automotive, industrial and consumer end markets, offering a comprehensive portfolio of solutions and technologies, and a global network of strategically deployed applications and support resources. Additional information can be found at [www.xcerra.com](http://www.xcerra.com).

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