Marvell Announces World's First Native PCIe SSD Controller For Modular Scalability

The Marvell 88NV9145 delivers high-performance flash controller technology as a building block for incrementally scalable native PCIe SSDs

SANTA CLARA, Calif., Jan. 6, 2012 /PRNewswire/ -- Marvell (Nasdaq: MRVL), a worldwide leader in integrated silicon solutions, today announced the Marvell® 88NV9145, the world's first modularly scalable native PCIe SSD controller available in mass production. The 88NV9145 controller provides a core building block designed to create native PCIe SSDs in flexible configurations that incrementally scale in cost, capacity and performance.

(Logo: https://investor.marvell.com/image/Marvell_logo.jpg)
(Photo: http://photos.prnewswire.com/prnh/20120106/AQ31109)

By combining a low-latency, non-blocking PCIe switch with two or more 88NV9145 components, customers can create flexible native PCIe SSD configurations for different market segments. Each Marvell 88NV9145 controller supports a PCIe 2.0 x1 interface, ARM-based processor, external Double Data Rate (DDR) interface and four NAND flash channels with up to four Chip Selects (CSs) per channel. In addition, each 88NV9145 can support up to 128GB NAND capacity and has been tested to achieve up to 93,000 4K random read IOPS and 70,000 4K random write IOPS.

"Marvell is raising the bar in data storage by bringing to market the first incrementally scalable, native PCIe-to-NAND technology at a critical time when rapid data growth in public and private clouds is chronically reducing the performance of enterprise applications," said Alan Armstrong, vice president of Marketing for the Storage Business Group at Marvell Semiconductor, Inc. "The 88NV9145 silicon eliminates unnecessary SAS or SATA conversion, effectively delivering the ultimate level of I/O performance."

"OCZ is excited to work with Marvell on the native PCIe to NAND flash Kilimanjaro platform leveraging 88NV9145 building blocks," said Ryan Petersen, CEO of OCZ Technology. "We will utilize this new jointly developed platform on our cutting edge Z-Drive R5 PCIe SSD solution to enable breakthrough I/O performance for the complete spectrum of enterprise-class applications such as OLTP database, webservers, virtualization, big-data and collaboration."

"Leveraging PLX's PCIe switch performance and features, Marvell has created one of the most powerful and flexible storage solutions to ever come to market," said David Raun, vice president of Marketing and Business Development at PLX Technology. "By enabling customers to build native PCIe SSDs without any SAS/SATA protocol overhead, the 88NV9145 with PLX ExpressLane switches represent the future of SSD market growth."

"This fully native PCIe-to-NAND controller should be significant for both enterprise and cloud storage markets for some time," said Mark Peters, senior analyst at Enterprise Strategy Group. "Especially for scalability, the mass production of the Marvell 88NV9145 means systems vendors will have a cost-effective way to deliver popular high-performance PCIe SSDs in an easy and flexible fashion. Based on the initial specifications, the product is parlaying Marvell's successful storage heritage to catalyze another key technology step."

Related Links:

- Product information: http://www.marvell.com/storage/system-solutions/native-pcie-ssd-controller/
- Marvell media materials: http://www.marvell.com/company/press_kit/

About Marvell

Marvell (NASDAQ: MRVL) is a world leader in the development of storage, communications and consumer silicon solutions. Marvell's diverse product portfolio includes switching, transceiver, communications controller, wireless and storage solutions that power the entire communications infrastructure, including enterprise, metro, home and storage networking. As used in this release, the term "Marvell" refers to Marvell Technology Group Ltd. and its subsidiaries. For more information, visit Marvell.com.

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