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Marvell Introduces New Family of High-Performance RAID Storage Controllers with Eight 6Gbps SATA Ports

Marvell's 88RC13xx product line of RAID storage controllers delivers a full set of features, including 10Gbps USB 3.1, PCIe 3.0, and NVMe Express

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[Marvell](#) (NASDAQ:MRVL), a world leader in storage, cloud infrastructure, Internet of Things (IoT), connectivity and multimedia semiconductor solutions, today announced the Marvell® 88RC13xx family of high-performance RAID storage controllers with a full set of features that include eight 6Gbps SATA ports, four lanes of PCI Express 3.0, and a 10Gbps USB 3.1 device port with Type-C connector support. The product line consists of a high performance AHCI RAID on chip (ROC), an innovative NVMe ROC, a DRAM-less input/output (I/O) processor with HW RAID 0, 1, 10 and a cost-effective I/O controller. These products service a range of markets, including cloud infrastructure, enterprise storage arrays, SATA Host Bus Adapters (HBA), networked video surveillance, external directly attached USB 3.1 and Thunderbolt-3 storage (DAS), and entry-to-mid-range servers. The AHCI ROC is currently sampling to Marvell customers; the other products will be available in 2017.

"With this latest product offering, Marvell leveraged customer feedback and the company's long-term leadership and experience in storage to deliver flexible, high-performance, yet efficient and low power storage controllers," said Pantelis Alexopoulos, Interim Co-Chief Executive Officer and Executive Vice President of the Storage Business Group at Marvell Semiconductor, Inc. "Marvell's family of 88RC13xx controllers further supports our mission to develop comprehensive storage solutions that address a wide variety of platforms and applications across client, enterprise and cloud infrastructure markets."

"To meet the wide ranging requirements of today's marketplace, storage systems need to support multiple forms of connectivity, such as 6Gbps SATA, NVMe, USB 3.1, and Thunderbolt-3. Another necessity is RAID functionality that does not put demands on the host processor, thus enhancing overall system performance," said Mark Geenen, President of market analysis firm TRENDFOCUS. "The Marvell 88RC13xx RAID storage controllers meet those requirements and will provide the features and flexibility that systems designers need."

The 88RC13xx product line integrates an efficient dual core Cortex®-R5 CPU complex to off-load RAID functions from the host processor, while maximizing storage performance and minimizing latencies. Implementing AHCI and NVMe options for the host interface provides the alternative of maintaining legacy SW compatibility, while supporting a seamless migration path to NVMe storage connectivity to target superior performance. The integration of enclosure management functionalities and a generous number of general purpose I/O pins can dramatically reduce total system cost, while the ability to act as a boot device fully

compatible with default OS drivers makes the 88RC13xx a highly versatile family of products.

The 88RC13xx controllers are also compatible with existing port multipliers, including Marvell's 88SM97xx product series, the industry's first 6Gb/s SATA port multiplier.

The Marvell 88RC13xx product line includes:

- 88RC1348 AHCI ROC with USB 3.1, RAID 0,1,5,6,10, dual Cortex R5 processor
- 88RC1368 NVMe ROC with USB 3.1, RAID 0,1,5,6,10, dual Cortex R5 processor
- 88RC1328 I/O Processor with USB 3.1, RAID 0,1,10, dual Cortex R5 processor
- 88SE1337 I/O Controller

Key features of the Marvell 88RC13xx controllers include:

- 8 6Gbps SATA Ports
- 4 lanes of PCIe 3.0
- USB 3.1 port
- Dual Cortex-R5 600MHz on-chip processors
- Hardware RAID 0, 1, 5, 6, 10
- Port multiplier support
- Support for up to 40 GPIO pins
- SPI interface for external Option ROM (legacy or uEFI) bootable controller support

Marvell's RAID controller product family will be demonstrated at Computex 2016 in Taipei, Taiwan from May 31 – June 3.

For further information about Marvell's 88RC13xx controllers and the rest of Marvell's host storage controllers, visit: <http://www.marvell.com/storage/system-solutions/>

About Marvell

Marvell (NASDAQ: MRVL) is a global leader in providing complete silicon solutions. From storage to cloud infrastructure, Internet of Things (IoT), connectivity and multimedia, Marvell's diverse product portfolio aligns complete platform designs with industry-leading performance, security, reliability and efficiency. At the core of the world's most powerful consumer, network and enterprise systems, Marvell empowers partners and their customers to always stand at the forefront of innovation, performance and mass appeal. By providing people around the world with mobility and ease of access to services adding value to their social, personal and work lives, Marvell is committed to enhancing the human experience.

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