

Marvell Expands Its Award-Winning SSD Product Suite By Introducing Advanced BGA SSD Controllers For New Generation Of Slim, High Performance Computing Devices

Marvell's 88NV1160 doubles the performance of best-in-class DRAM-less controllers and advances the deployment of Host Memory Buffer technology

SANTA CLARA, Calif., Aug. 9, 2016 /[PRNewswire](#)/ -- Marvell (NASDAQ:MRVL), a world leader in storage, cloud infrastructure, Internet of Things (IoT), connectivity and multimedia semiconductor solutions, today announced the expansion of its solid-state drive (SSD) portfolio to include the 88NV1160 Non-Volatile Memory (NVM) Express DRAM-less SSD controller. Marvell's 88NV1160 DRAM-less SSD controller provides the industry's leading performance per Watt and up to 1600MB/s read speeds. The 88NV1160 can be used in a single ball grid array (BGA) package SSD, as well as in a standalone controller in a tiny 9x10mm package which makes it compatible with M.2230 and M.2242 form factors. These features make the 88NV1160 optimized for a new generation of slim computing devices such as productivity tablets and ultrabooks. The new controller is currently available for sampling to key customers globally.

"As the world's leading storage controller provider, Marvell has a long track record of bringing to market world-class innovations, including the pioneering integration of Host Memory Buffer technology into DRAM-less products. Working closely with other ecosystem leaders, Marvell has continued to advance the industry and drive a new generation of low power, small form factor mobile computing systems," said Dr. David Chen, Vice President of SSD Business at Marvell Semiconductor, Inc. "The 88NV1160 controller is optimally engineered for high performance tablets and ultrabooks, providing unparalleled performance per Watt and the largest NAND compatibility on the market."

The 88NV1160 is the latest solution in Marvell's [award-winning](#) line of DRAM-less SSD controllers which includes its 88NV1120 SATA and 88NV1140 PCIe Gen3x1 NVMe products. Marvell's 88NV1160 enables Peripheral Component Interconnect Express (PCIe) Gen3x2 Non-Volatile Memory Express (NVMe) BGA SSD, and provides full support for 2D and 3D NAND, ONFI and Toggle, MLC, TLC and QLC. The 88NV1160 facilitates BGA SSD support for both 16x20mm and 11.5x13mm form factors.

Key features of Marvell's 88NV1160 include:

- NVMe support over PCIe Gen3x2
- Fully hardware automated NVMe 1.3 support with Host Memory Buffer support
- Low power management (L1.2) design
- Powerful dual core ARM® Cortex®-R5 CPUs
- Embedded SRAM with hardware accelerators to optimize IOPS performance
- ONFI3 and Toggle2 NAND support
- NANDEdge™ LDPC error-correction technology boosts SSD endurance and reliability and supports 15nm 2D TLC and 3D TLC/QLC
- Full turnkey firmware and manufacturing support compatible with mainstream NAND
- 28nm low power CMOS process

Marvell will be participating at Flash Memory Summit 2016 in Santa Clara, Calif. from Aug. 9 – 11, 2016, which will include a keynote presentation by Marvell's CTO Dr. Zining Wu, "Managing Multi-Tiered Non-Volatile Memory Systems for Cost and Performance," taking place on Tuesday, Aug. 9 from 2:40 to 3:10 p.m. PT.

For further information on Marvell's SSD solutions, please visit: <http://www.marvell.com/storage/ssd/>.

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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