

Marvell's Industry-Leading 88SS1074 SATA SSD Controller Surpasses 50 Million Shipment Milestone In Just 18 Months

Strong customer demand across client, enterprise and cloud data center applications outpacing market

SANTA CLARA, Calif., Aug. 9, 2017 /PRNewswire/ -- [Marvell](#) (NASDAQ:MRVL), a leader in storage, networking, and connectivity semiconductor solutions, continues to accelerate its leading position in the merchant market for solid-state drive (SSD) controller devices. Marvell is proud to announce that its 88SS1074 SATA SSD controller has surpassed 50 million unit total shipments in just 18 months, representing year to date, year over year growth of 385% and outpacing market growth for this category. This significant milestone underscores Marvell's close working relationships with leading SSD manufacturers, server and storage original equipment makers (OEMs) and cloud data center operators to help develop these solutions with leading performance, endurance and reliability for retail, client, enterprise and data center applications.

Solid state data storage is forecasted to continue its rapid growth and Marvell is well positioned to enable this trend. According to the analyst firm, Gartner, the Mainstream PC-Grade SSD Units market is expected to see a compound annual growth rate of more than 20% from 2016-2021¹. Building on its legacy of more than 20 years' experience in storage hard disk drive (HDD) controller technology, complex system-level system-on-chip (SoC) design, advanced error correction algorithms, and low-power architectures, Marvell brings a unique set of capabilities and technologies to address the increasing demands required to enable future SSD solutions with next generations of 3D and QLC NAND technology. In addition, Marvell has recently developed a set of robust, full turnkey (FTK) SSD controller solutions for multiple new generations of NAND components and SSD features to help accelerate the time to market for customers.

"We are excited to continue our long-standing collaboration with Marvell to provide industry-leading client and data center SSD products," said Ariel Perez, SSD business manager, Kingston. "We've seen first-hand the advanced error correction capability that Marvell's NANDEdge™ controller technology provides to enhance NAND flash endurance and reliability, making it ideal for our next-generation 3D NAND drive series."

"High performance, high endurance and low power consumption are all critical SSD requirements for the client, enterprise and cloud data center markets we serve," said Darlo Perez, managing director, Americas Region, Storage Strategic Business Group at Lite-On. "Marvell's SSD controllers are best-in-class and we're excited to continue our long-time collaboration with Marvell to satisfy the burgeoning demand for highly efficient SSDs."

"Micron's customers have the most demanding enterprise and cloud data center workloads and require SSD technologies that lower the total cost while delivering high performance and reliability, superior data protection, and optimal endurance," said Eric Endebrock, vice president SSD and Systems, Storage Business Unit, Micron Technology, Inc. "We congratulate Marvell on their contributions to innovative SSD solutions and on reaching this important milestone."

Marvell has been investing in SSD controllers since 2007, and released its first SSD controller in 2009. Marvell is now on its fifth generation of SATA-based controllers and its fourth generation of PCIe®-based ones. Marvell's decades of research and development, coupled with its culture of innovation, has resulted in a robust IP portfolio of over 1400 storage patents granted and approximately 200 pending.

"Marvell is extremely proud that in collaboration with our customers, our 88SS1074 6G SATA SSD controller has surpassed 50 million unit shipments," stated Dan Christman, executive vice president, Storage Business Group at Marvell. "We continue to aggressively invest in advancing our industry-leading technology to meet the demands of the accelerating client-to-cloud data storage SSD market. Our growing portfolio of solutions and partnerships positions us at the forefront of this opportunity, and we look forward to attaining many more milestones with our customers in the future."

The total data storage capacity enabled by 50 million controllers is staggering. For context, the number of photographs taken by the global population each year is approximately 1.3-1.5 trillion. Assuming that pace continues, 50 million SSDs using Marvell's SATA controllers could easily store all photographs taken by the entire global population in the coming five years.

A key factor in securing these record-breaking shipments has been the introduction of Marvell's proprietary NANDEdge technology. This low-density parity check (LDPC) error-correction mechanism, which is unmatched by anything else currently available in the industry, is incorporated into all of Marvell's latest SSD controllers spanning SATA, SAS and NVMe™. Suitable for both conventional planar and emerging 3D stacked triple level-cell (TLC) and quad level-cell (QLC) NAND SSDs, NANDEdge technology ensures the highest degrees of

endurance, reliability and data integrity are maintained and prolongs SSD operational lifespan.

Marvell is showcasing its next-generation architecture solutions for client, industrial, automotive, cloud and enterprise applications, including its latest SSD controllers, at the Flash Memory Summit 2017 in Santa Clara, Calif. from August 8-10. Scott Furey, associate vice president of Marvell's Enterprise Storage Business Unit, will present a conference keynote today from 2:40-3:10 p.m. on "Using Arm®-Based Processing for Efficient Hyperscale Storage."

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

¹ Gartner, Forecast: Hard-Disk Drives, Worldwide, 2014-2021, 1Q17 Update, 15 May 2017

About Marvell

Marvell first revolutionized the digital storage industry by moving information at speeds never thought possible. Today, that same breakthrough innovation remains at the heart of the company's storage, networking and connectivity solutions. With leading intellectual property and deep system-level knowledge, Marvell's semiconductor solutions continue to transform the enterprise, cloud, automotive, industrial, and consumer markets. To learn more, visit: www.marvell.com

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