



Silicon Motion Announces SM2246EN SATA 6Gb/s SSD Controller Supporting Micron's 128Gb 16nm MLC NAND

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TAIPEI, Taiwan, June 4, 2014 (GLOBE NEWSWIRE) -- Silicon Motion Technology Corporation (Nasdaq:SIMO) ("Silicon Motion"), a global leader in designing and marketing NAND flash controllers for solid state storage devices, today announced that its SM2246EN SATA (6Gb/s) client SSD controller now supports Micron's 16nm 128 gigabit (Gb) MLC NAND flash, ideal for high performance, high capacity SSD solutions up to 1 Terabyte.

SM2246EN offers the best performance and power combination of four channel SATA 6Gb/s client SSD controller in the market, delivering even better performance than most 8-channel SSD controllers with substantially lower power consumption. Using Micron's 128Gb 16nm MLC NAND, the SM2246EN delivers up to 538*MB/s sequential read performance and 450*MB/s sequential write, as well as up to 67,000* random read IOPS and 65,000* random write IOPS. In addition, with Micron 128Gb 16nm MLC NAND, the SM2246EN delivers ultra-low power consumption, equating to about 30**% lower than the average power consumption of other SSD controllers.

"We are pleased to announce that we have delivered and qualified the SM2246EN's firmware and reference design for Micron's 128Gb 16nm MLC NAND to many of our customers," said Nelson Duann, Vice President of Product Marketing of Silicon Motion. "SM2246EN currently is in high volume production supporting multiple MLC and SLC NAND from major NAND suppliers. By supporting Micron's 16nm 128Gb MLC NAND, our customers have more flexibility for their high density, high performance and power efficient SSD solutions."

"Micron has seen tremendous interest in our 128Gb 16nm MLC NAND because it delivers a unique combination of capacity, quality, and performance," said Paul Petersen, director of marketing for Micron's NAND component division. "We're pleased to work closely with Silicon Motion's expert controller developers to enable a compelling storage solution for high capacity, high-performance and power-efficient devices including PCs, Ultrabooks, tablets and SSDs."

Key features for SM2246EN with Micron 128Gb 16nm MLC NAND solution include:

- Ultra high performance*
 - Sequential Read: up to 538MB/s
 - Sequential Write: up to 450MB/s
 - 4K Random Read IOPS (Q32): up to 67,000
 - 4K Random Write IOPS (Q32): up to 65,000
- Ultra low power consumption
 - Average power consumption: 56mW (Intel's target**: 80mW)
 - DevSleep mode: < 2mW (Intel's target: 3mW)
 - Slumber mode: 21mW (Intel's target: 30mW)
- Ideally suited for both client SSDs and NAND-cache drives
- Proprietary, configurable ECC engine allows for consistent data throughput and performance throughout the entire SSD lifecycle
- Able to support both commercial and industrial grade requirements

The SM2246EN with the Micron 128Gb 16nm MLC NAND will be showcased at COMPUTEX, being held June 3 – 7, 2014, at Silicon Motion's Private Suite in the Grand Hyatt Taipei.

For more information on Silicon Motion, please go to <http://www.siliconmotion.com>.

*With 512GB Micron 128Gb 16nm MLC NAND

** Intel 2014 Ultrabook Guidance with MobileMark '12

About Silicon Motion:

Silicon Motion is a fabless semiconductor company that designs, develops and markets high performance, low-power semiconductor solutions for the multimedia consumer electronics market. We have two major product lines, mobile storage and mobile communications. Our mobile storage business is composed of microcontrollers used in NAND flash memory storage products such as flash memory cards, USB flash drives, SSDs, and embedded flash applications. Our mobile communications business is composed primarily of handset transceivers and mobile TV IC solutions. For more information, please visit www.siliconmotion.com.

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