



New SATA FerriSSD(R) using 3D NAND for ultra-high reliability and high-capacity embedded applications

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NUREMBERG, Germany, March 14, 2017 /PRNewswire/ -- Silicon Motion Technology Corporation (NASDAQ: SIMO) ("Silicon Motion"), a global leader in designing and marketing NAND flash controllers and solid-state storage devices, today announced that it has extended its popular family of SATA 6Gb/s FerriSSD® Industrial BGA SSDs to support the latest 3D NAND with end-to-end data path protection, NANDXtend™ ECC, and IntelligentScan™ feature - delivering unsurpassed data reliability for embedded storage applications. The new FerriSSD products offer flexible data capacity options up to 256GB and feature proprietary data protection technologies that eliminate drive downtime and extend the service life of these SSDs. FerriSSD products offer customized solutions for various end-market demands and are optimized to meet the specific needs of the customer.

Silicon Motion's proprietary data protection capabilities address the increasing concerns with SSD data reliability in demanding industrial, hyperscale server and automotive applications. FerriSSD data integrity features include:

- **End-to-end data path protection**, which detects and corrects any error that might occur in the data path between the host and the NAND array. This is accomplished through the application of full ECC protection to the SSD's SRAM and DRAM buffers as well as to the primary NAND Flash memory array.
- **NANDXtend** technology incorporating a new high-performance LDPC Error Correction Code (ECC) engine and a unique Group Page RAID function, which allows the SSD to recover from sudden NAND cell defects and bit errors induced by high-temperature operation environments or from general data-retention failures.
- **IntelligentScan**, which proactively protects data against potential data loss at high operating temperatures or read disturbance from intensive host read operations. This prevention measure is achieved by self-adjusting the scan frequency when the SSD runs hot and by refreshing sectors of the memory array that are at risk before any data is lost.

"3D NAND-based FerriSSDs will usher in a new generation of cost-effective embedded memory solutions with uncompromising reliability and performance to meet the increasing capabilities and capacity requirements for today's industrial, computing and automotive markets," said Nelson Duann, Senior Vice President of Product Marketing at Silicon Motion. "Our FerriSSD embedded memory solutions are customized to meet the wide range of end-market requirements and are optimized for the specific needs of our customers."

The new 3D NAND FerriSSD products are on display at the Silicon Motion stand 1.228 at the Embedded World exhibition (Nuremberg, March 14-16, 2017).

About Silicon Motion:

We are the global leader in supplying NAND flash controllers for solid state storage devices and the merchant leader in supplying SSD controllers. We have the broadest portfolio of controller technologies and solutions and ship over 750 million NAND controllers annually, more than any other company in the world. Our controllers are widely used in embedded storage products such as SSDs and eMMCs which are found in smartphones, PCs and industrial and commercial applications. We also supply specialized high-performance enterprise and industrial SSD solutions. Our customers include most of the NAND flash vendors, storage device module makers and leading OEMs. For further information on Silicon Motion, visit us at www.siliconmotion.com.

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