Aupera Reveals an MRAM-enabled M.2 Storage Module based on Everspin's newest 256Mb Perpendicular Spin Torque MRAM

The Aup-AXL-M128 offers a high speed, low latency storage tier for Flash Arrays

Chandler, AZ, August 9, 2016 – Everspin Technologies and Aupera Technologies Inc., today announced the launch of the world's first M.2 storage module, the Aup-AXL-M128, based on Everspin's 256Mb perpendicular magnetic tunnel junction (pMTJ) ST-MRAM.

Aupera's Aup-AXL-M128 is currently used in Aupera's All Flash Array system as a hardware acceleration engine for specific applications that require low latency and high performance.

"We have deployed Everspin's first commercial ST-MRAM in our system since the very beginning of our design, and now, with its larger capacity, our Aup M-series can be widely used for storage cache, buffer and meta-data handling with high performance and low power consumption," said Roy Liao, founder and CEO of Aupera. "From the performance we are seeing so far, we are very excited at the future potential of this ST-MRAM- based Aup-AXL-M128 module. It is delivering four orders of magnitude BER reduction and more than 30% less power while quadrupling the capacity to 128MB as compared to the previous generation M.2 MRAM module**.** The successful deployment of this device will give us a great competitive advantage for our systems."

Aupera Technologies has also launched its new generation All Flash Array system, Aup-Litesaber-V2000, uniquely built on Aupera's proprietary Distributed Computing and Storage technology optimized for video data storage, processing and analytic application.

Everspin's ST-MRAM technology combines high performance, non-volatile DDR3 RAM speed with very high endurance for enterprise storage and server markets. Everspin offers the world's first commercially available perpendicular magnetic tunnel junction (pMTJ) based ST-MRAM, giving designers of high performance

storage systems the ability to achieve ultra-low latency, increase reliability with high cycling endurance, and protect data in the event of power loss.

“The combination of Everspin’s latest 256Mb DDR3 perpendicular ST-MRAM and Aupera’s innovative, scalable M.2 MRAM module solves the problem of write latency and endurance associated with NAND Flash systems,” said Phill LoPresti, president and CEO of Everspin. “We are pleased that Aupera has continuously used our MRAM technology as the solution to bring much better performance to their systems.”

About Aupera Technologies

Aupera Technologies Inc. is a technology innovator which builds intelligent storage systems based on All Flash Array with a focus on optimizing video data storage, processing and analytic applications. With its proprietary distributed computing and storage architecture, coupling with its acceleration engine, the Aupera storage system achieves flexible configuration and customer desired performance for dedicated applications. For more information visit, www.auperatech.com.

About Everspin Technologies

Everspin Technologies is the leading provider of MRAM solutions. Everspin’s MRAM solutions offer the persistence of non-volatile memory with the speed and endurance of random access memory (RAM), and enable the protection of mission critical data particularly in the event of power interruption or failure. Everspin’s MRAM solutions allow its customers in the industrial, automotive and transportation, and enterprise storage markets to design high performance, power efficient and reliable systems without the need for bulky batteries or capacitors. Everspin is the only provider of commercially available MRAM solutions and over the past eight years has shipped over 60 million MRAM units. For more information, visit www.everspin.com.

Cautionary Statement Regarding Forward-Looking Statements

The statements in this press release regarding the expected benefits and customer usage of Everspin’s ST-MRAM solutions are forward-looking statements that are subject to risks and uncertainties. Risks that could cause these forward-looking statements not to come true include, but are not limited to: the risk that unexpected technical difficulties may develop in the final stages of development or production of these products; and that customers may not perceive the benefits of Everspin’s ST-MRAM solutions to be as Everspin perceives them to be.

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