

Everspin enhances RIM smart meters with instantly non-volatile, low-energy MRAM memory

Utility companies count on Radio and Microelectronic's MRAM-enabled 3-phase smart meters to provide instant data integrity and recovery in power outages

Chandler, AZ, Feb 25, 2015 — Everspin Technologies, Inc., the world's leading developer and manufacturer of discrete and embedded MRAM, and Radio and Microelectronic (RIM) today disclosed how Everspin's MR25H40 Magnetoresistive RAM (MRAM) offers robust system memory benefits in RIM's 3-phase smart meters, such as the [RIM789](#).

Designed for robust environments requiring data integrity, memory reliability, and low energy, Everspin's 4-Megabit MR25H40 MRAM benefits systems with fast and symmetrical read/write performance and unlimited endurance. These benefits allow RIM's 3-phase smart meters to offer fast, frequent, and instantly non-volatile storage of critical meter data. In the event of a power loss or tampering, the RIM system is able to instantly save and secure critical data to MRAM without the need for external batteries or super capacitors. Thus, upon restart or authorized access of the RIM meter, the last state of the meter can be immediately restored or revealed for operational continuity. RIM 3-phase smart meters are GOST 52320-2005 certified in Russia, specified to deploy for 30 years in harsh environments, and feature self-diagnosis and resistance to climatic, mechanical and electromagnetic influences.

"Everspin is a key supplier in helping us deliver smart meters with high data integrity," said Porvatov Sergey Pavlovich, Chief Technology Officer at RIM. "Everspin's high-performance nonvolatile MRAM streamlined our design and provides our users a robust and trusted platform with peace of mind that their metered data is safe when our products are deployed in unpredictable environments."

"Our mission is to deliver memory solutions that provide our customers a competitive edge in their respective markets, and we are pleased that RIM's MRAM-enabled smart meters are a great success story," said Scott Emley, Vice President of Marketing at Everspin. "MRAM memory from Everspin provides key benefits to the energy market, including unlimited usage, instant data integrity, and support for system-wide tamper resistance."

Everspin's 4-Megabit MR25H40 MRAM features a standard Serial Peripheral Interface (SPI) and is in full production today in a standard 8-pin DFN package. As the MR25H40 is implemented and performs read/writes just like asynchronous SRAM, the MRAM product can be dropped into almost any standard 8-pin SPI-interface SOIC or DFN socket with no software overhead. Visit [the Everspin website](#) for more information about the [MR25H40](#) or other MRAM solutions from Everspin.

Everspin is showcasing RIM's [RIM789](#) MRAM enabled 3-phase smart meter solution at the Embedded World show in Nuremburg, Germany, February 24-26, 2015, Hall 5, Booth 428.

About Everspin Technologies

Everspin Technologies is the worldwide leader in designing, manufacturing, and commercially shipping discrete and embedded Magnetoresistive RAM (MRAM) and Spin-Torque MRAM (ST-MRAM) into markets and applications where data persistence and integrity, low latency, and security are paramount. With over 40 Million MRAM and ST-MRAM products deployed in data center, cloud storage, energy, industrial, automotive, and transportation markets, Everspin has built the strongest and fastest growing foundation of MRAM users in the world. With an intellectual property portfolio of more than 500 active patents and applications, Everspin leads the market in development of both in-plane and perpendicular magnetic tunnel junction (MTJ) ST-MRAM bit cells. Everspin has established high-quality manufacturing worldwide, along with enabling a full turn-key 300mm high-volume foundry partner for advanced technology nodes including 40nm, 28nm and beyond. In addition to launching discrete memory solutions with new densities and advanced interfaces, including the world's first commercialization and volume shipments of ST-MRAM, Everspin is delivering on the company's strategy to proliferate MRAM and ST-MRAM as mainstream embedded memories for use in MCUs, GPUs, DSPs, Application Processors, and ASICs, earning Everspin its description as "The MRAM Company". www.everspin.com

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