

## Elektron's Flagship "Analog Keys" Professional Analog Synthesizer Powered by Everspin's 16Mb MRAM

*Everspin's MRAM enables Elektron musicians to maximize creativity with powerful multi-voice analog synthesis.*

**Chandler, AZ, Feb 24, 2015** — Everspin Technologies, Inc., the world's leading developer and manufacturer of discrete and embedded MRAM, and Elektron Music Machines, today disclosed how Everspin's 16-Megabit MR4A16BMA35 Magnetoresistive RAM (MRAM) offers musicians of Elektron's Analog Keys 4 Voice Analog Synthesizer the ability to maximize audio production creativity. Made for the stage, Analog Keys features 37 semi-weighted keys, four analog voices, over 4000 sound slots, a powerful sequencer, and a lightning fast digital control system.



See Elektron's Analog Keys in action: <https://www.youtube.com/watch?v=IEPvwuHWHEO>

Designed for applications requiring extreme data reliability and speed, Everspin's 16-Megabit MR4A16BMA35 MRAM benefits system designs with the fastest non-volatile memory on the market, symmetrical read/write performance, and unlimited endurance. These memory features enable Analog Keys musicians to constantly record their artistic audio session for instant replay accessibility and modulation. The MRAM features allow artists to constantly tweak and re-tweak instantly recorded music, pause and pick up in a recording session for maximum efficiency and artistic flow, and provide the musician piece of mind that a live session of custom voices and step patterns recorded on-the-fly will be safely and deterministically stored in the case of an unexpected power interruption.

"Analog Keys is differentiated in the professional audio market by maximizing customization and instantly capturing an artist's creativity," said Scott Emley, Vice President of Everspin Technologies. "Everspin's MRAM technology is ideal for professional audio applications where MRAM's high reliability, unlimited endurance, and fastest non-volatile speed provide critical benefits to the musician's experience."

"When designing Analog Keys and several other Elektron professional audio products, we required a robust memory solution that could handle high-endurance usage and instant, deterministic write and access capabilities," said Anders Gärder, Chief Technology Officer at Elektron Music Machines. "Everspin's MRAM provides these features and system benefits in a single, standard-interface memory solution without the need for any external power sources such as batteries or capacitors."

Everspin's 16-Megabit MR4A16BMA35 MRAM is in full production today in a standard 48-ball BGA package and is designed to be used in a system like any standard 16-bit parallel memory with no software overhead. Unlike SRAM, Everspin's MR4A16BMA35 is instantly non-volatile, meaning that the memory bits retain their state even after power is removed and without the need for expensive and cumbersome external power sources. For more information about the MR4A16BMA35 or other MRAM solutions from Everspin, visit [Everspin's MR4A16BMA35 Product Page](#).

Everspin is showcasing Elektron's MRAM-enabled Analog Keys 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](http://www.everspin.com)

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