



Everspin MRAM Helps JAG's Process Control Systems Boost Productivity of Production Processes

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JAG employs Everspin MRAM throughout their PdiCS™ Process Control Systems line

CHANDLER, Ariz.--(BUSINESS WIRE)--Mar. 8, 2017-- Everspin Technologies, Inc., and JAG Jakob Ltd. have announced that Everspin's MR4A16B 16Mb MRAM is being used in JAG's PdiCS™ Process Control Systems, boosting productivity by making process equipment more efficient. Complex and high value industrial production processes, like the ones commonly encountered in biotech and pharmaceutical markets, require high availability process control systems to maximize production throughput. JAG chose Everspin's 16Mb MRAM in their PdiCS™ family to meet the needs of these demanding production processes which have up to 20-year lifetimes with constant 24/7 uptime. Everspin's MRAM technology has the features that are proven valuable in this application, including 20-year data retention time to support the long system life of the control systems, insensitivity to radiation-induced soft errors to avoid critical data corruption, and elimination of battery backup maintenance to improve system availability. The fast write performance of MRAM provides a symmetrical 35 ns read and write cycle time, allowing it to be used as main memory in the control system. The non-volatility and fast speed of MRAM also deliver near instant uploads and system resume time as compared to tens of seconds needed with Flash memory, which helps to keep the systems on-line.

This Smart News Release features multimedia. View the full release here: <http://www.businesswire.com/news/home/20170308005146/en/>



JAG's new PdiCS memory module uses Everspin's 16Mb MRAM for high performance and 20-year data retention. (Photo: Business Wire)

"We are very pleased that JAG has selected our MRAM in their high-end PLCs, continuing our long term engagement," said Phill LoPresti, Everspin's President and CEO. "Our

ability to meet JAG's stringent requirements is a tremendous validation of the value of MRAM technology in industrial applications."

"Everspin's unique MRAM technology allowed us to dramatically improve the availability of our high-end PdiCS™ Process Control Systems, resulting in competitive advantages for our customers: fewer interruptions and a very short time to resume operations are key factors for ensuring world-class production throughput and quality levels," said Niklaus Schneiter, Sales & Marketing Manager of JAG Jakob Ltd.

Everspin's MR4A16B 16Mb MRAM and JAG's PdiCS™ Process Control Systems are in production now.

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.

About JAG

JAG is a process engineering leader, planning and implementing the most challenging of process plants and automation solutions for the pharmaceuticals and biotech industries, as well as for the food industry. JAG developed and builds the PdiCS™ automation and control system, designed for the complete automation of even the biggest and most demanding production processes in the pharmaceutical and biotech industry. For more information, visit www.jag.ch.

Cautionary Statement Regarding Forward-Looking Statements

The statements in this press release regarding the development and production of Everspin's 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 MRAM solutions to be as Everspin perceives them to be.

PdiCS™ is a Trade Mark of JAG Jakob Ltd., Switzerland



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Story Public Relations
Michael Schoolnik, 415-674-3816
Michael@storypr.com