

## Everspin's MRAM enables Koyo Electronics Industries new battery-free Direct Logic PLC with higher density, faster speeds

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**Chandler, AZ, June 17, 2015** — Everspin Technologies, Inc., the world's leading developer and manufacturer of discrete and embedded MRAM, and Koyo Electronics Industries, a leading manufacturer of highly reliable factory automation systems and automotive parts, today announced that Everspin's MRAM is now designed into Koyo Electronics Industries' new Direct Logic 205 (DL205) Series Programmable Logic Controllers (PLCs). Koyo's DL205 PLC is the company's most configurable and versatile solution in their portfolio, allowing up to five different CPU types, up to 16,384 I/O points, multiple communication options, Human Machine Interface (HMI), and a PID Controller with up to 16 built-in loops. Unlike other standard mainstream memories, Everspin's MRAM enables data integrity and reliability in harsh environments, and instant event save in the event of a power loss and without the need for a battery.

"Before we developed the DL205, our prominent Japan automotive customer requested us to offer a next-generation PLC that does not require a battery backup," recalls Nishida-san, Corporate Senior Vice President of Koyo Electronics. "In addition to fulfilling our needs for a battery-less PLC system, Everspin MRAM enables our DL205 Series PLCs with highly reliable and robust memory to the benefit of our automotive and industrial customers. In addition, the system expands to Human Machine Interface (HMI) products to meet the growing customers' expectations for system reliability, cost of ownership reduction, and eco-friendly management."

Read more about DL205 Series PLCs from Koyo Electronics:

[http://www.koyoele.co.jp/english/product/plc/pdf/plcs\\_205.pdf](http://www.koyoele.co.jp/english/product/plc/pdf/plcs_205.pdf)

"Koyo is a strong leader in modular PLC Automation for industrial and automotive companies in Japan and worldwide," said Phill LoPresti, President and CEO of Everspin. "We are pleased Koyo has selected Everspin's durable field-switched MRAM to provide unique, value-added benefits to Koyo's customers."

The DL205 Series PLCs and expansion modules from Koyo Electronics utilize 1-Megabit parallel interface (MR0A16A) MRAM from Everspin. Everspin's field-switched MRAM is the fastest truly non-volatile memory on the market, offers extremely high data retention and unlimited endurance, and is offered in a variety of packages, interfaces (SPI, QSPI, x8 and x16 parallel), and densities (up to 16-Megabit). For MRAM benefits in higher density memory and storage applications, Everspin offers DDR-interface Spin Torque MRAM (ST-MRAM). For more information on Everspin's MRAM products and application benefits, visit [www.everspin.com](http://www.everspin.com).

### **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)

### **About Koyo Electronics**

For more than half century, Koyo Electronics has been producing factory automation systems for industrial market. As a member of JTEKT group companies, Koyo Electronics is committed to providing customers with highly reliable products with trusted services.

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