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High-Speed F-RAM Device provides 512 Kb capacity.

November 24, 2008 - Housed in 8-pin SOIC package, Model FM25V05 consists of 2.0-3.6 V, SPI non-volatile RAM that features 1E14 read/write cycles and performs write operations at bus speeds without write delay. Data can be written continuously up to 40 Mbps. Operating over industrial temperature range of -40 to +85°C, device consumes 3 mA while running at 40 MHz SPI clock rate, 90 µA during standby, and 5 µA during sleep mode. Typical active power consumption is 38 µA per MHz.

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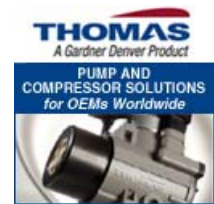
Original Press Release

Ramtron Adds Serial 512-Kilobit F-RAM to V-Family Product Line

Second serial device in a family of new high-speed F-RAM devices from Ramtron

COLORADO SPRINGS, CO - November 10, 2008 - Ramtron International Corporation (Nasdaq: RMTR), a leading developer and supplier of nonvolatile ferroelectric random access memory (F-RAM) and integrated semiconductor products, today announced the second serial device in a family of new F-RAM products that offer high-speed read/write performance, low voltage operation, and optional

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device features. The FM25V05 is a 512-kilobit (Kb), 2.0 to 3.6-volt, serial peripheral interface (SPI) nonvolatile RAM in an 8-pin SOIC package that features fast access, NoDelay(TM) writes, 1E14 read/write cycles, and low power consumption. The FM25V05 is an ideal alternative to serial Flash and serial EEPROM memory in industrial control, metering, medical, automotive, military, gaming, and computing applications, among others. In addition to the 512Kb FM25V05, the recently announced 1-megabit FM25V10 is also available.

"The FM25V05 offers our customers another density option along with the lower operating voltage and integrated features of Ramtron's V-Family of F-RAM products," explains Ramtron Marketing Manager, Duncan Bennett. "Additional devices in the V-Family are planned that will provide our customers with a wide variety of interface and density options for their systems."

About the FM25V05

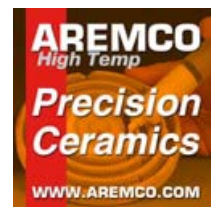
Unlike serial Flash memory or serial EEPROM, the FM25V05 performs write operations at bus speed without write delays. F-RAM allows data to be



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written immediately to the memory array. Data can be written continuously up to 40 megabits per second. Compared to serial Flash and serial EEPROM, the FM25V05 offers orders of magnitude more endurance and consumes less power.

High-performance F-RAM capabilities make the FM25V05 ideal for nonvolatile memory applications that require frequent or rapid writes or low power operation. Applications range from high frequency data collection where the number of write cycles is critical, to demanding industrial controls where the long write time of serial Flash or EEPROM devices is impractical due to potential data loss.

The FM25V05 has a read-only device ID and can be ordered with a unique serial number and/or system reset option. The device ID provides information about the manufacturer, product density, and product revision of the device. The unique serial number allows the host to have an ID that is different from any other host in the world. The system reset option eliminates the need for an external system reset component in the system.

The FM25V05 operates over the industrial temperature range of -40°C to +85°C, and

consumes only 3 milliamps while running at a 40MHz SPI clock rate, 90 microamps during standby, and 5 microamps during sleep mode. The FM25V05 offers a typical active power consumption of 38 microamps per MHz, which is an order of magnitude lower current than similar serial Flash or EEPROM products.

About the F-RAM V-Family

Manufactured on the proven 130nm CMOS manufacturing process developed by Ramtron and Texas Instruments, the Ramtron V-Family of F-RAM products will include a variety of parallel, serial I2C and SPI memories. The advanced manufacturing process enables improved device specifications and increased feature sets. Additional Ramtron V-Family products planned for introduction before the end of 2008 will feature I2C and parallel interfaces. All serial F-RAM V-Family products can be equipped with optional device features including unique serial numbering and a system reset.

Pricing and Availability

Samples of the FM25V05 are available now in a RoHS-compliant, 8-pin SOIC package. Unit pricing begins at \$4.66 in high volume.

About Ramtron

Ramtron International Corporation, headquartered in Colorado Springs, Colorado, is a fabless semiconductor company that designs, develops and markets specialized semiconductor memory and integrated semiconductor solutions used in a wide range of product applications and markets worldwide. For more information, visit www.ramtron.com.

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