



molex
one company > a world of innovation

GbX[®]
Backplane
Connector System

GbX is a registered trademark of Amphenol Corporation.

- > 10 Gbps
- > 69 differential pairs per inch
- > Reliable



[Reprints](#) [Printer-Friendly](#) [Email this Article](#) [RSS](#) [Submit](#) [Font Size](#) [What's This?](#)

[Web Exclusive]

Single-Chip Companion Packed With Support For Processor Applications

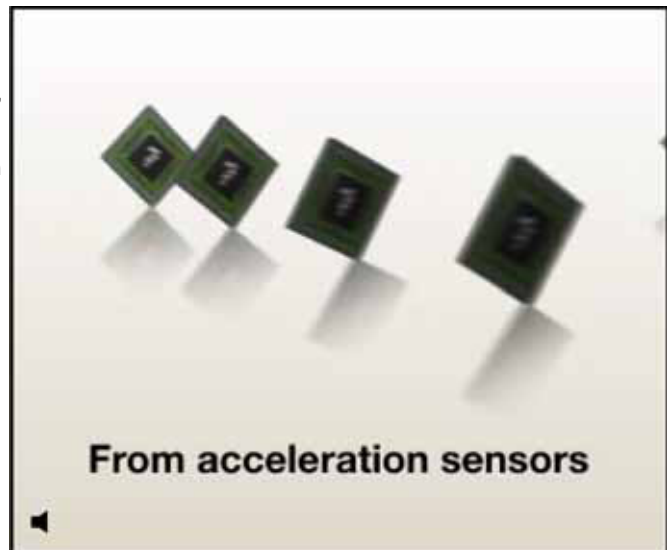
Staff | ED Online ID #15904 | June 18, 2007

Article Rating: **Not Rated**

The FM33x family of FRAM-Enhanced Processor Companions from Ramtron International Corp. combines the benefits of non-volatile RAM with a comprehensive set of integrated support and peripheral functions, including a high-speed serial peripheral interface (SPI). The first two products in the family, the FM33256 and the FM3316, are 3-V devices with 256 kbits and 16 kbits of ferroelectric RAM (FRAM), respectively. The single-chip solutions replace a number of discrete components in processor-based applications, reducing both cost and board space.

The FRAM features No Delay writes, virtually unlimited endurance, and low power consumption. Other functions integrated on the chips include a real-time clock/calendar/alarm (RTC), a programmable low-V_{DD} reset, a programmable watchdog timer, a manual reset function, a nonvolatile event counter, a lockable serial number, and a general-purpose comparator that can be used for early-warning power-fail interrupts. The chips run from 2.7 to 3.6 V over the full industrial temperature range of -40°C to 85°C. The SPI Bus runs at up to 16 MHz, providing high-performance serial communication to the host processor.

Samples of the FM33x devices are available now in a 14-pin SOIC RoHS-compliant package. Prices start at \$3.25 for the FM33256 and \$2.25 for the FM3316 in 10,000-piece quantities. For more information, go to www.ramtron.com.



[Reprints](#) [Printer-Friendly](#) [Email this Article](#) [RSS](#) [Submit](#) [Font Size](#) [What's This?](#)

NEWS WIRE

[Techies Rush to Dissect Apple's iPhone](#)
[Cheaper Plasma & LCD TVs: Boon For Consumer, Bane For Retailers](#)
[Wipro-NewLogic Releases Next Generation Bluetooth IP](#)

RELATED ARTICLES

[CPU Companion Chips Add FRAM Storage And Peripheral Support](#)
[Embedded: SPI Converter Simplifies System Testing](#)
[MIPS-Laden Processors Hit The Road Running](#)

TOP 20 ARTICLES

- 1) [Embedded: FPGA Toolkit Supports Hard And Soft Processor Designs](#) (2366 views today)
- 2) [Monitor Your PC's CPU Core Temperature](#) (558 views today)