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Microchip Introduces 64-Mbit Parallel Flash Memory Device on Advanced Process Technology

SST38VF6401B Delivers Ultra Fast Performance and Rich Security Features for Various Embedded Applications

CHANDLER, Ariz.--(BUSINESS WIRE)-- Microchip Technology Inc. (NASDAQ: MCHP), a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, today introduced a new parallel Flash memory device—the **SST38VF6401B**. The SST38VF6401B is a 4M x16 CMOS Advanced Multi-Purpose Flash Plus (Advanced MPF+) device manufactured with Microchip's, high-performance CMOS SuperFlash® technology, a split-gate cell design and thick-oxide tunneling injector for better reliability and manufacturability. This device conforms to JEDEC standard pin assignments for x16 memories.

With operating voltage range from 2.7 to 3.6V, fast read and program times, and advanced protection features, this parallel Flash memory device excels in a variety of applications. The memory is partitioned into uniform 32 KWord and non-uniform 8 KWord blocks, offering flexible erase capabilities and seamless partitioning for program code and data.

The SST38VF6401B parallel Flash device offers high performance with flexible read and write options, including random read access time of 70 ns, page read access time of 25 ns, erasing sectors and blocks as fast as 18 ms, erasing the entire Flash memory chip in 40 ms, and a word-programming time of 7 µs, write-buffer programming time of 1.75 µs, typical. The device offers superior reliability of 100,000 endurance cycles, typical, and greater than 100 years of data retention. The active read current of these devices is only 25 mA, typical, at 5 MHz, and standby current is only 5 µA, typical. The SST38VF6401B also provides - various levels of protection and security features such as Security-ID, hardware boot-block protection, individual block protection, password protection and irreversible block locking.

This device excels in a broad range of applications, including those in the consumer, automotive and industrial markets. Examples of ideal end applications include set-top boxes, multifunctional printers, digital televisions, as well as audio, video and infotainment products for automobiles. Additionally, this parallel Flash memory device is well suited for use in networking and industrial applications, such as gateways, switches and industrial control equipment.

"The introduction of parallel 64-Mbit Flash on our latest process technology showed Microchip's steadfast commitment to deliver the code storage solutions to automotive, industrial and consumer markets," said Randy Drwinga, vice president of Microchip's Memory Products Division. "This product, among other flash products, continues to set the standards for the performance and reliability of NOR flash."

Pricing & Availability

The SST38VF6401B devices are available today for sampling and volume production, in 48-pin TSSOP and 48-ball TFBGA packages, starting at $2.50 each, in 10,000 unit quantities.

For additional information, contact any Microchip sales representative or authorized worldwide distributor, or visit Microchip's Web site at **http://www.microchip.com/get/B720**. To purchase products mentioned in this press release, go to **microchipDIRECT** or contact one of Microchip's authorized distribution partners.

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About Microchip Technology

Microchip Technology Inc. (NASDAQ: MCHP) is a leading provider of microcontroller, mixed-signal analog, and Flash-IP solutions, providing low-risk product development, lower total system cost and faster time to market for thousands of diverse customer applications worldwide. Headquartered in Chandler, Arizona, Microchip offers outstanding technical support along with dependable delivery and quality. For more information, visit the Microchip website at **http://www.microchip.com/get/L55T**.

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Microchip Technology Inc.
Editorial Contact:
Terri Thorson, 480-792-4386
terri.thorson@microchip.com
Reader Inquiries:
1-888-624-7435
http://www.microchip.com/get/B720

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