



## **NEWS RELEASE**

**April 8, 2004**

**FASL LLC  
FASL JAPAN LIMITED**

### **NEW FLASH MEMORY FAMILY REPRESENTS MAJOR MILESTONE FOR SPANSION**

**— Award-Winning MirrorBit™ Technology Takes Another Step  
Forward in Price-Performance —**

**Tokyo — April 08, 2004** — Spansion, the world's leading producer of NOR Flash memory solutions, today announced it has reached a significant milestone in the integration of its operations. The first complete family of Flash memory products developed entirely by Spansion is now in production. The family delivers new benefits to customers worldwide by leveraging the results of the successful integration of the memory operations of AMD (NYSE: AMD) and Fujitsu (TSE: 6702).

The arrival of the Spansion™ S29AL/GLxxxM device family, based on MirrorBit™ technology, marks the first time since the company was formed in July 2003 that a complete line of products has been developed, manufactured and produced entirely by Spansion using a single manufacturing flow through the entire production cycle. The new family is optimized for embedded markets such as consumer electronics including DVD players/recorders and set top boxes, as well as industrial markets such as networking, industrial automation and automotive electronics.

"In the nine months since Spansion's inception, we have moved swiftly to unite the management, engineering and manufacturing operations of AMD's and Fujitsu's memory businesses into a single, cohesive company," said Sylvia Summers, group vice president and general manager of Spansion's Embedded Business Unit. "I am proud to say that the arrival of our S29AL/GLxxxM device family represents not only a significant integration milestone for the company, but also a positive step forward for our customers as it allows them to accelerate their migration from floating gate to MirrorBit technology."

The S29AL/GLxxxM product line is manufactured using 230 nanometer MirrorBit technology, leveraging the major cost efficiencies of depreciated fabs and includes product densities ranging from 16 to 256 Megabits. It offers customers a compelling alternative to floating gate products by combining the features and performance they need with a superior cost structure.

Because its efficient cell layout eliminates expensive overhead circuitry within the memory array and reduces the number of steps needed during fabrication, 230 nanometer MirrorBit technology delivers a cost-structure comparable to 180 nanometer multi-level cell (MLC) and 130 nanometer single bit-per-cell floating gate technologies. The higher density members of this product family will migrate to second-generation 110 nanometer MirrorBit technology to provide customers with a compelling migration path. Production on these 110 nanometer MirrorBit technology based products is expected to begin in the fourth quarter of this year.

This new family of devices is designed to be package, pinout, and software compatible with the existing Am29LVxxxM and MBM29PLxxxM product families. The S29AL/GLxxxM also offers the following additional enhancements to the existing devices:

- Effective word programming times reduced by as much as 35% — Customers migrating from MBM29PLxxxM devices can expect to see higher production line throughput.
- Sector erase times reduced by as much as 75% — Customers migrating from MBM29PLxxxM devices can deploy higher-performance parts in order to differentiate their products against the competition.
- Lead (Pb) Free Packaging — Customers migrating from Am29LVxxxM products now have the option of utilizing Pb-free packages, which contain less than 0.1 wt.% lead, to reduce environmental impact and help compliance efforts with international regulations.

Spansion S29AL/GLxxxM memory devices in all densities are available for immediate sampling. Spansion memory is available exclusively from AMD and Fujitsu

**About Spansion™ Flash Memory Devices**

Spansion™ Flash memory products encompass a broad spectrum of densities and features to support a wide range of markets. Spansion Flash memory customers represent leaders in the wireless, cellular, automotive, networking, telecommunications and consumer electronics markets. There are a variety of Spansion Flash memory products, such as devices based on the innovative MirrorBit™ technology; the award-winning simultaneous read-write (SRW) product family; super low-voltage 1.8 volt Flash memory devices; and burst- and page-mode devices. Information about Spansion Flash memory solutions is available at <http://www.spansion.com/overview>.

Spansion was formed by the integration of AMD's and Fujitsu's Flash memory operations in 2003. It is the largest NOR Flash memory company in the world. Spansion Flash memory solutions are available worldwide from AMD and Fujitsu.

**On the Web**

For more Spansion news and product information, please visit our virtual pressroom at

<http://globalservices.fujitsu.com/services/microelectronics/product/memory/>

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