December 19, 2016

SST Announces Shipment Milestone of 75 Billion Units with Embedded SuperFlash® Technology

SuperFlash Technology Has Become an Indispensable Part of Microcontrollers and Secure Smart Cards in Consumer, Enterprise and Industrial Applications

CHANDLER, Ariz., Dec. 19, 2016 (GLOBE NEWSWIRE) -- Microchip Technology Inc. (NASDAQ:MCHP), a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, through its Silicon Storage Technology (SST) subsidiary, has enabled the shipment of more than 75 billion semiconductor devices with embedded SuperFlash® technology. Through SST's strong ecosystem of foundry, fabless and Integrated Device Manufacturer (IDM) partners, SuperFlash memory has become an important source of innovation and has helped original equipment manufacturers (OEMs) differentiate their automotive, consumer, industrial and medical products throughout the past three decades.

"As the semiconductor industry has gone fabless, more and more semiconductor companies are taking advantage of our differentiated nonvolatile memory IP solution through SST's flexible licensing model," said Mark Reiten, vice president of Technology Licensing for SST. "As we have enabled a series of foundry, IDM and fabless partners, SuperFlash technology has become the hidden gem of innovation in the semiconductor industry. This technology is quietly reaching a majority of the world's population through electronic devices and machines they depend on."

SuperFlash technology was first introduced in high-volume production in 1995 with ESF-1 (the first generation of Embedded SuperFlash). The latest generation in development is ESF-3 for 28 nm process nodes. From ESF-1 to ESF-3 the technology has proven to be scalable, compatible with standard manufacturing processes and highly reliable. It also contributes to reducing costs associated with high-volume production through high-yielding, area-optimized IP and low mask count foundry processes.

SuperFlash technology is based on a proprietary split-gate flash memory cell with the following capabilities:

- Low-power program, erase and read operations
- High performance with fast read access
- Good scalability from 1 µm technology node to 28 nm technology node
- High endurance cycling up to 500,000 cycles
- Excellent data retention of over 20 years
- Good performance at high temperature for automotive-grade applications
- Immunity to Stress-Induced Leakage Current (SILC)

“As more and more intelligence gets built into a plethora of applications, OEMs, IDMs, fabless companies and foundries can count on SST IP to build innovative products with fast time-to-market and high quality for many years to come,” said Reiten.

For more information on SST's patented and proprietary SuperFlash NOR Flash technology visit: www.sst.com/technology/SuperFlash-Overview.

About Silicon Storage Technology
Microchip Technology’s SST subsidiary is a leading provider of embedded Flash technology. SST develops, designs, licenses and markets a diversified range of proprietary and patented SuperFlash memory technology solutions for the consumer, industrial, automotive and Internet of Things (IoT) markets. SST was founded in 1989, went public in 1995 (NASDAQ: SSTI), and was acquired by Microchip in April 2010. SST is now a wholly owned subsidiary of Microchip, and is headquartered in San Jose, Calif. For more information, visit the SST Web site at www.sst.com.

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 www.microchip.com.

Note: The SST name, the SST logo and SuperFlash are registered trademarks of Microchip Technology Inc. and Silicon Storage Technology, Inc., as applicable, in the USA and other countries. All other trademarks mentioned herein are the property of their respective companies.

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