Silicon Storage Technology and GLOBALFOUNDRIES Announce Qualification of Automotive Grade 55nm Embedded Flash Memory Technology

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- *SST's SuperFlash® Technology and GLOBALFOUNDRIES 55nm LPx provides low power and cost, high reliability, superior data retention and high-endurance performance customer solutions*
- *Optimized and silicon-proven Flash IP blocks available for various applications*
- *Growing customer traction for Smartcard, NFC, IoT, MCU and Automotive Grade 1 applications*

Chandler, Ariz., and Santa Clara, Calif., May 5 2015 — Microchip Technology Inc. [NASDAQ: MCHP], a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, through its Silicon Storage Technology (**SST**) subsidiary, and GF, a leading provider of advanced semiconductor manufacturing technology, today announced the full qualification and availability of SST's 55nm embedded SuperFlash® non-volatile memory (NVM) on GF's 55nm Low Power Extended (LPx)/ RF enabled platform. The qualification of GF's 55nm, split-gate-cell SuperFlash technology-based process was performed according to JEDEC standards. This process technology also met the requirements of AEC-Q100 Grade 1 qualification with an ambient temperature range of -40°C to 125°C, and demonstrated endurance of 100K program/erase cycles with more than 20 years of data retention at 150°C.

According to global information company IHS, the automotive semiconductor market is forecast to reach $31B in 2015, with a strong 7.5 percent improvement over 2014. Embedded Flash-based semiconductors are a key component of this market segment.

"Embedded SuperFlash memory is a de-facto standard at foundries for microcontrollers, smartcards, and various system-on-chip devices," said Mark Reiten, vice president of Technology Licensing for SST, a wholly owned subsidiary of Microchip. "GF has been a great partner for building a state-of-the-art 55nm embedded SuperFlash platform, and we are already engaged with several customers in various market segments. We are pleased to partner with GF, to further strengthen our market leadership in embedded Flash-based devices".

"GF recognizes the need to provide a low-cost embedded Flash platform for secure ID, mixed-signal, NFC/RF and next-generation IoT applications," said Gregg Bartlett, senior vice president of product management at GF. "Our deep collaboration with SST has resulted in qualified, commercially available 55nm SuperFlash technology on GF's high-yielding 55nm low-power process platform, which will enable high-performance solutions for customers across key market segments."

GF's 55nm LPx/RF platform, complete with eNVM technology, is available to customers now. This platform technology offers a fast path-to-product solution, with a custom library of off-the-shelf eNVM IP blocks that are optimized for specific MCU product applications.

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 **http://www.sst.com**.

About GF

GF is the world's first full-service semiconductor foundry with a truly global footprint. Launched in March 2009, the company has quickly achieved scale as the second largest foundry in the world, providing a unique combination of advanced technology and manufacturing to more than 160 customers. With operations in Singapore, Germany and the United States, GF is the only foundry that offers the flexibility and security of manufacturing centers spanning three continents. The company's three 300mm fabs and five 200mm fabs provide the full range of process technologies from mainstream to the leading edge. This global manufacturing footprint is supported by major facilities for research, development and design enablement located near hubs of semiconductor activity in the United States, Europe and Asia. GF is owned by Mubadala Development Company. For more information, visit **http://www.globalfoundries.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 **http://www.microchip.com**.

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