eMemory's Reprogrammable eNVM solution available on TowerJazz's 0.18um BCD Power platform

Hsinchu, Taiwan, July 31, 2018 – eMemory today announced its reprogrammable eNVM IP **NeoMTP** is qualified by TowerJazz, the global specialty foundry leader, and available for its 0.18um Bipolar-CMOS-DMOS (BCD) power management process, amid an increasing demand for the cost-effective memory solution from wireless charging and USB Type C customers. In addition to this collaboration, eMemory and TowerJazz are working together on implementation of an NVM solution for its 65nm BCD process.

eMemory, the leading IP provider of eNVM (embedded Non-Volatile Memory) for power management applications, has been successfully working with worldwide foundries to deploy its eNVM solutions on BCD/HV process technologies tailored for emerging power management applications.

NeoMTP on TowerJazz's 0.18um 1.8V/5V BCD process features a wide operating voltage range, automotive grade temperature compliance and over 10-year data retention with 1,000 write cycles. These features enable designers to meet the high temperature and endurance requirements of automotive applications.

"eMemory has always been the No. 1 choice in the power management space, and we are in the best position to address the needs of the wireless charging and USB C designers." said Michael Ho, Vice President of Business Development at eMemory. "**NeoMTP** on TowerJazz's BCD platform, a specialty process for complex power management ICs, brings forward some unique features that give designers an edge in those fast-growing markets."

"Today, we offer our customers an additional significant value-add capability, enabling integration of smarter controllers in their power management designs using eMemory's qualified NeoMTP memory solution. The NeoMTP with the TS18PM digital capabilities save the need for additional digital chips and increase the features of the power chip including smarter algorithms and protocols such as in USB-C and wireless chargers. With a memory density up to 256Kbit on our leading TS18PM power management platform, TowerJazz addresses the fast growing demand for integrated controllers and memories in each IC," said Shimon Greenberg, Vice President of Power Management & Mixed-Signal/CMOS Business Unit. "We are glad to include eMemory's technology in our offering and we are working to extend our roadmap together."

eMemory will be offering a partner presentation at TowerJazz TGS China on August 22, 2018 at the Parkyard Hotel in Shanghai. The presentation will focus on eMemory's trustworthy logic NVM solutions in TowerJazz's BCD and RFCMOS process platforms and will be given by Dr. Wein-Town Sun, Director of Product Division V at eMemory. To register for TowerJazz TGS China, please click here.

About NeoMTP

NeoMTP provides the reprogrammable capability for changes of parameters in the wireless charger, such as power-on/off sequence, output current, thermal regulation etc. It also enables frequent firmware and feature updates in the USB Type-C, allowing the designers to extend product lifecycles and address varying needs of different application markets.

eMemory's **NeoMTP** is the most cost-effective reprogrammable memory technology in the industry. The solution provides the high endurance required for today's most complex applications, while at a far lower cost than embedded Flash. It is also increasingly used to replace external EEPROM on performance and security concerns.

About eMemory

eMemory (TPEX:3529) is a semiconductor IP provider specialized in embedded hard IP cores. Ranked as the world's 7th largest silicon IP provider, eMemory has delivered best-in-class IP designs to over 1,300 foundries, IDMs and fabless companies globally since its establishment in 2000. The company has received TSMC's "Best IP Partner Award" since its inception in 2010.

As a global leader in the eNVM (embedded Non-volatile Memory) market, eMemory provides patented eNVM solutions with the industry's most comprehensive process technology coverage. The company also pioneers in providing the security IP core based on silicon biometrics.

eMemory's eNVM IP offerings include one-time programmable memories.
(NeoBit/NeoFuse) and multi-time programmable memories.
(NeoMTP/NeoFlash/NeoEE). NeoPUF is the company's proprietary security IP core.

For more information about eMemory, please visit www.ememory.com.tw.

About TowerJazz

Tower Semiconductor Ltd. (NASDAQ: TSEM, TASE: TSEM) and its subsidiaries operate collectively under the brand name TowerJazz, the global specialty foundry leader. TowerJazz manufactures next-generation integrated circuits (ICs) in growing markets such as consumer, industrial, automotive, medical and aerospace and defense. TowerJazz's advanced technology is comprised of a broad range of customizable process platforms such as: SiGe, BiCMOS, mixed-signal/CMOS, RF CMOS, CMOS image sensor, integrated power management (BCD and 700V), and MEMS. TowerJazz also provides world-class design enablement for a quick and accurate design cycle as well as Transfer Optimization and development Process Services (TOPS) to IDMs and fabless companies that need to expand capacity. To provide multi-fab sourcing and extended capacity for its customers, TowerJazz operates two

manufacturing facilities in Israel (150mm and 200mm), two in the U.S. (200mm) and three facilities in Japan (two 200mm and one 300mm). For more information, please visit www.towerjazz.com.