Synopsys Mixed-Signal IC Design Solution Qualified for TowerJazz Power Management Reference Flow 2.0

Collaboration Delivers Comprehensive Power Management Solution

MOUNTAIN VIEW, Calif. and MIGDAL HAEMEK, Israel, July 24, 2012 /PRNewswire/ -- Synopsys, Inc. (Nasdaq: SNPS), a world leader in software and IP for semiconductor design, verification and manufacturing, and TowerJazz (NASDAQ: TSEM, TASE: TSEM), the global specialty foundry leader, today announced that they have qualified Synopsys' unified mixed-signal IC design solution for TowerJazz's power management analog/mixed-signal reference design flow (Reference Flow 2.0) and 180-nanometer (nm) Power Management (PM) interoperable process design kit (iPDK). Synopsys' tool suite, the foundry iPDK and reference design flow are verified to seamlessly work together to enable designers to quickly become productive.

Synopsys' unified mixed-signal IC design flow includes the IC Compiler™ and Galaxy Custom Designer® physical co-design implementation solution, HSPICE® circuit simulation, CustomSim™ FastSPICE simulation, CustomSim-VCS® mixed-signal co-simulation, IC Validator physical verification, and StarRC™ parasitic extraction tools. The TowerJazz PM Reference Flow 2.0 includes a reference design based on a 180-nm iPDK for the bipolar CMOS DMOS (BCD) process. The TowerJazz BCD power management process platform offers the combination of 180-nm CMOS logic density with a wide range of high-voltage power devices on a single chip to enable the design of complex power management integrated circuits (ICs).

"TowerJazz and Synopsys have an on-going collaboration to create and promote iPDKs as a standard for the custom design community," said Ori Galzur, vice president of design center and design enablement at TowerJazz. "This collaboration has now been extended to our new TowerJazz Power Management Reference Flow 2.0 and further expands our relationship to include a qualified Synopsys mixed-signal design solution that addresses the needs of power management IC design."

"As ICs become more heterogeneous with a mix of cell-based and custom implementation, designers require a unified implementation and verification solution to stay productive and competitive," said Bijan Kiani, vice president of product marketing at Synopsys. "With this foundry-qualified solution, our mutual customers will be able to more easily manage the increased complexity and aggressive development schedules of mixed-signal designs."

About Synopsys
Synopsys, Inc. (Nasdaq: SNPS) is a world leader in electronic design automation (EDA), supplying the global electronics market with the software, intellectual property (IP) and services used in semiconductor design, verification and manufacturing. Synopsys' comprehensive, integrated portfolio of implementation, verification, IP, manufacturing and field-programmable gate array (FPGA) solutions helps address the key challenges designers and manufacturers face today, such as power and yield management, system-to-silicon verification and time-to-results. These technology-leading solutions help give Synopsys customers a competitive edge in bringing the best products to market quickly while reducing costs and schedule risk. Synopsys is headquartered in Mountain View, California, and has approximately 70 offices located throughout North America, Europe, Japan, Asia and India. Visit Synopsys online at www.synopsys.com.

About TowerJazz
Tower Semiconductor Ltd. (NASDAQ: TSEM, TASE: TSEM), the global specialty foundry leader and its fully owned U.S. subsidiary Jazz Semiconductor, operate collectively under the brand name TowerJazz, manufacturing integrated circuits with geometries ranging from 1.0 to 0.13-micron. TowerJazz provides industry leading design enablement tools to allow complex designs to be achieved quickly and more accurately and offers a broad range of customizable process technologies including SiGe, BiCMOS, mixed-signal and RFCMOS, CMOS image sensor, power management (BCD), and non-volatile memory (NVM), as well as MEMS capabilities. To provide world-class customer service, TowerJazz maintains two manufacturing facilities in Israel and one in the U.S. with additional capacity available in China through manufacturing partnerships. For more information, please visit www.towerjazz.com.

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