



NEWS RELEASE



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ANSYS AND TOWERJAZZ DELIVER POWER NOISE AND RELIABILITY SIGN-OFF DESIGN KIT

Collaboration enables mutual customers to achieve faster design closure, minimize cost and maximize manufacturing yield

PITTSBURG, PA and NEWPORT BEACH, CA, May 29, 2014 – [ANSYS, Inc.](#) (NASDAQ: ANSS) and [TowerJazz](#) (NASDAQ/ TASE: TSEM), the global specialty foundry leader, announced today collaboration to deliver comprehensive power noise and reliability sign-off flow for mutual customers. With increased use of analog and RF ICs in a variety of electronic systems including consumer, automotive, medical and industrial applications, the ability to accurately predict the performance of these ICs prior to production has become a critical design challenge.

Through this collaboration, ANSYS and TowerJazz created a foundry certified power noise analysis process design kit (PDK) that includes reference flow guidelines, collateral, example test cases and flow setup guidance that will enable analog and RF designers to produce optimized integrated circuits (ICs) faster and with confidence, minimizing cost and maximizing manufacturing yield. The reference flow enables mutual customers to efficiently utilize ANSYS Totem and ANSYS PathFinder and facilitate the manufacturing of their products in accordance with TowerJazz's process requirements. These tools are essential since voltage drop and specialized reliability checks such as electromigration (EM) and electrostatic discharge (ESD)

simulations cannot be performed using Layout Versus Schematic (LVS), Design Rule Check (DRC) and extracted simulation tools.

“As the mixed-signal and analog content increase in various markets, a robust and foundry certified power noise and reliability sign-off flow becomes critical,” said Aveek Sarkar, vice president of product engineering and support at Apache Design, a subsidiary of ANSYS. “By collaborating with TowerJazz, we are able to provide optimized tools and methodologies for joint customers to enable a clean design flow, higher yield and reduced field failures.”

“A close collaboration between TowerJazz and Apache on custom analog design kit development enables our customers to efficiently deliver more robust and reliable designs for next-generation electronic products,” said Ori Galzur, vice president of VLSI design center at TowerJazz. “This design kit will enable our customers to use the industry’s standard power, noise and reliability sign-off solution on our industry leading technology.”

The ANSYS portfolio of product offerings will be showcased at the [Design Automation Conference](#) (DAC) June 2-4 in booth #1413. TowerJazz’s reference design demo will be shown at this conference on June 3 in booth #1301.

About TowerJazz

Tower Semiconductor Ltd. (NASDAQ: TSEM, TASE: TSEM), its fully owned U.S. subsidiary Jazz Semiconductor, Inc. and its fully owned Japanese subsidiary TowerJazz Japan, Ltd., operate collectively under the brand name TowerJazz, the global specialty foundry leader. TowerJazz also owns 51% of TowerJazz Panasonic Semiconductor Company, Ltd. (TPSCo) through a joint venture with Panasonic Corporation. TowerJazz manufactures integrated circuits, offering a broad range of customizable process technologies including: SiGe, BiCMOS, Mixed-Signal/CMOS, RF CMOS, CMOS Image Sensor, integrated Power Management (BCD & 700V), and MEMS capabilities. Through TPSCo, TowerJazz offers additional capacity as well as leading edge 45nm CMOS, 65nm RF CMOS and 65nm 1.12um pixel technologies. TowerJazz provides a world-class design enablement platform that enables a quick and accurate design cycle. TowerJazz also offers Transfer Optimization and development Process Services (TOPS) to IDMs and fabless companies that need to expand capacity. To provide multi-fab sourcing for its customers, TowerJazz operates two manufacturing facilities in Israel, one in the U.S., and four in Japan. For more information, please visit www.towerjazz.com.

[About ANSYS, Inc.](#)

ANSYS brings clarity and insight to customers' most complex design challenges through fast, accurate and reliable engineering simulation. Our technology enables organizations — no matter their industry — to predict with confidence that their products will thrive in the real world. Customers trust our software to help ensure product integrity and drive business success through innovation. Founded in 1970, ANSYS employs more than 2,600 professionals, many of them expert in engineering fields such as finite element analysis, computational fluid dynamics, electronics and electromagnetics, and design optimization. Headquartered south of Pittsburgh,

U.S.A., ANSYS has more than 75 strategic sales locations throughout the world with a network of channel partners in 40+ countries. Visit www.ansys.com for more information.

ANSYS also has a strong presence on the major social channels. To join the simulation conversation, please visit: www.ansys.com/Social@ANSYS

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