



## **NEWS ANNOUNCEMENT**

**FOR IMMEDIATE RELEASE**

### **TowerJazz and Dolphin Integration to offer Chip Developers a Complete Solution addressing the Low Power Requirements of the Fast Growing IoT Market**

***IoT market expected to grow from almost \$9B in 2014 to \$43B by 2020; 25B devices connected to the internet in 2015 with nearly 50B expected by 2020***

**MIGDAL HAEMEK, Israel and GRENoble, France May 5, 2015 –**

TowerJazz, the global specialty foundry leader, and **Dolphin Integration**, a leading provider of Silicon IP, today announced the signing of an MoU to provide a **complete solution for customers** developing devices such as sensors, meters and more for the emerging Internet-of-Things (IoT) market. Devices for IoT applications seek low power in order to extend battery life with sufficient speed for adequate performance. TowerJazz's 0.18um platform offers a dedicated 1.8V process with low leakage and super-low leakage devices, important in reducing the gradual loss of energy from a charged device. **Dolphin Integration** provides a rich set of Silicon IPs including libraries of standard cells, memories, and power management components, as well as low-power microcontroller cores with security add-ons, optimizing the circuit for power savings and enabling Systems-on-Chip (SoC) with low power-consumption.

The move to create billions of smart, autonomously communicating and sufficiently secured objects known as the IoT is driving the need for low power sensors, processors and communication chips. According to Gartner, the value of the total number of sensors to support IoT applications will grow from \$1.3 billion in 2014 to over \$10 billion in 2020, a CAGR of 41.7%.

"The cooperation between Dolphin Integration and TowerJazz enhances our capabilities to provide Silicon IP solutions for the aggressive needs of low power applications," said Gilles Depuyrot, CTO, Dolphin Integration. "The IoT market is exploding and especially for sensors with stringent requirements for low leakage and low dynamic power. The partnership with TowerJazz enables us to meet the requirements of low power with sufficient performance for our customers' IoT devices."

“Our cooperation with Dolphin Integration extends our process offering for the IoT market and provides a total solution comprising a dedicated low leakage process, carefully tailored for low power applications using a long list of Silicon IPs offered by Dolphin Integration. This is in addition to our process customization capabilities to match specific customer’s needs” said Mr. Ilan Rabinovich, World Wide VP Q&R and MS/CMOS Business Unit at TowerJazz

### **Availability**

The Low Leakage process design kit (PDK) is available already, and the Super Low Leakage will be ready by the end of May 2015. For more information, please visit TowerJazz and Dolphin Integration (booth #F1-3) at ChipEx2015, the largest annual event of the Israeli microelectronics industry, being held on May 5-6, 2015 in Tel Aviv, Israel. You may also contact [eitansh@towersemi.com](mailto:eitansh@towersemi.com) (Eitan Shaul) at TowerJazz or [patrick.mazeau@dolphin.fr](mailto:patrick.mazeau@dolphin.fr) (Patrick Mazeau) at Dolphin Integration.

### **About TowerJazz**

Tower Semiconductor Ltd. (NASDAQ: TSEM, TASE: TSEM) and its fully owned U.S. subsidiary Jazz Semiconductor, Inc. operate collectively under the brand name TowerJazz, the global specialty foundry leader. 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 and 700V), and MEMS. TowerJazz also provides a world-class design enablement platform 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. For more information, please visit [www.towerjazz.com](http://www.towerjazz.com).

To provide multi-fab sourcing and extended capacity for its customers, TowerJazz operates two manufacturing facilities in Israel (150mm and 200mm), one in the U.S. (200mm) and three additional facilities in Japan (two 200mm and one 300mm) through **TowerJazz Panasonic Semiconductor Co. (TPSCo)**, established with Panasonic Corporation of which TowerJazz has the majority holding. Through TPSCo, TowerJazz provides leading edge 45nm CMOS, 65nm RF CMOS and 65nm 1.12um pixel technologies, including the most advanced image sensor technologies. For more information, please visit [www.tpsemico.com](http://www.tpsemico.com).

### **About Dolphin Integration**

Dolphin Integration contributes to "enabling mixed signal Systems-on-Chip" for worldwide customers - up to the major actors of the semiconductor industry - with Silicon IP components best at low-power consumption.

This wide offering is based on innovative libraries of standard cells, register files, memory generators and power regulators. Complete networks for power supply can be flexibly assembled together with their loads: from high-resolution converters for audio and measurement applications to power-optimized micro-controllers of 8 or 16 and 32 bits.

Over 30 years of diverse experiences in the integration of silicon IP components and providing services for ASIC/SoC design and fabrication, with its own EDA solutions solving unaddressed

challenges, make Dolphin Integration a genuine one-stop shop covering all customers' needs for specific requests.

The company striving to incessantly innovate for its customers' success has led to two strong differentiators:

- state-of-the-art "configured subsystems" for high-performance applications securing the most competitive SoC architectural solutions,
- a team of Integration and Application Engineers supporting each user's need for optimal application schematics, demonstrated through EDA solutions enabling early performance assessments

Its social responsibility has been from the start focused on the design of integrated circuits with low-power consumption, placing the company in the best position to now contribute to new applications for general power savings through the emergence of the Internet of Things.

#### **Safe Harbor Regarding Forward-Looking Statements**

This press release includes forward-looking statements, which are subject to risks and uncertainties. Actual results may vary from those projected or implied by such forward-looking statements. A complete discussion of risks and uncertainties that may affect the accuracy of forward-looking statements included in this press release or which may otherwise affect TowerJazz's business is included under the heading "Risk Factors" in Tower's most recent filings on Forms 20-F, F-3, F-4 and 6-K, as were filed with the Securities and Exchange Commission (the "SEC") and the Israel Securities Authority and Jazz's most recent filings on Forms 10-K and 10-Q, as were filed with the SEC, respectively. Tower and Jazz do not intend to update, and expressly disclaim any obligation to update, the information contained in this release.

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