

Press Information

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Dallas Semiconductor's DS3600 Secure Battery-Backup Controller Wins "Product of the Year" Award from *Electronic Products Magazine*

DALLAS, TX—February 15, 2007—Dallas Semiconductor, a wholly owned subsidiary of Maxim Integrated Products Inc. (NASDAQ:MXIM), announced that its DS3600 was selected as a "Product of the Year" award recipient by *Electronic Products Magazine*, published by Hearst Business Communications, Inc. in Uniondale, New York. The DS3600 is the industry's first secure battery-backup controller to protect data in point-of-sale terminals (POS) and other systems requiring data security.

"Each year the editors of *Electronic Products* magazine select what they feel are among the most significant of the thousands of new products introduced during the year," explained R. Pell, the Editor-in-Chief of the publication. "It is our way of recognizing excellence in product development," continued Pell. The DS3600 was highlighted in a special "Product of the Year" section in the publication's January 2007 issue.

The first in a family of secure battery-management products, the DS3600 provides active tamper detection and rapid-erasure of key memory. Prior to the DS3600, numerous discrete components were required to perform these same functions. Using this controller enables the designer to minimize the board space used to implement a security solution.

The innovative memory architecture (patent pending) in the DS3600 is unique to

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secure battery-backup controllers from Dallas Semiconductor. “Indeed, the memory architecture is what makes this new IC unique,” explained Swati Joshi, the Business Manager for the Company’s battery controller product group.

“The DS3600’s proprietary, on-chip nonvolatile SRAM is used for storage of encryption keys. This memory architecture constantly complements the storage state in the SRAM cells to eliminate the possibility of memory imprinting due to oxide stresses. As a result, this technology prevents the passive detection of data remnants in stressed memory cells,” stated Joshi.

When the DS3600 generates a tamper alarm, the entire 64-byte array is cleared within 100ns. This quick erasure of data is possible because of the chip’s direct, hardwired clearing function and on-chip power source. The chip supports FIPS-140 security levels 3 and 4, and meets the highest requirements of Common Criteria. The DS3600 is packaged in a CSBGA, a preferred choice for certification because no pins are exposed to the outside world so the package is resistant to tampering.

For more information about the DS3600, go to www.maxim-ic.com/DS3600POY

Maxim Integrated Products is a leading international supplier of quality analog and mixed-signal products for applications that require real-world signal processing. Maxim leverages its proprietary wafer fab technologies and world-class engineering teams to develop innovative solutions for rapidly growing markets. This business model has consistently resulted in double-digit sales growth. Net revenues were \$1.859B for the fiscal year ended June 24, 2006.

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