

New Metering Chips Feature Innovative Isolated Sensing Technology

Fourth Generation ICs Eliminate Costly Current Transformers



IRVINE, CA--(Marketwire - February 2, 2010) - Teridian Semiconductor today announced that it has begun sampling its fourth generation residential smart metering integrated circuits (ICs). The new product family includes the 71M6541x and 71M6xx1 and features digitally isolated current sensors based on the company's proprietary MicroDAA™ isolation technology. The new 71M6541x, as a stand-alone meter system-on-chip (SoC) for single element meters, offers significantly reduced power consumption and enhanced accuracy. The 71M6xx1 isolated sensor IC eliminates current transformer and associated copper wiring in 2-element residential meters, with up to class 0.2 accuracy (ANSI 200A). The result is up to 25 percent reduction in bill of materials (BOM) costs for residential applications.

The announcement of Teridian's new product line comes at the onset of major green initiatives and plans by the U.S., Chinese and European governments to accelerate deployment of smart metering solutions. The new smart metering product family addresses the needs of this dynamic market and was developed in response to customer demand for advanced products at a lower cost point.

Teridian's large portfolio of residential, commercial and industrial energy metering and measurement devices provides a highly accurate, reliable and cost-effective alternative to multi-chip implementations and features better than 0.1 percent

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accuracy over 2000:1 dynamic range and a unique 32-bit programmable metrology engine, which can be adapted to meet changing utility requirements.

"By incorporating our proprietary isolation technology into our high performance metering solutions we have successfully overcome traditional barriers associated with the use of resistive shunts in multi-phase applications. Hence, we're enabling our customers to reduce their product's form factor, copper content and magnetic tamper susceptibility, while preserving, and in some cases improving, accuracy," said Kourosh Boutorabi, vice president and general manager, Teridian Semiconductor Advanced Metering Infrastructure. "This solution is groundbreaking in the sense that until now, a technically and commercially viable alternative to current transformers has never been available to metering OEMs."

Teridian's metering devices are in use today by more than 50 metering manufacturers and on more than 100 metering platforms. To date, Teridian has shipped in excess of 40 million units and has the largest market share of SoC metering devices. In April of last year, Teridian's 71M653x family of metering products was named innovative technology of the year in the semiconductor category from the Orange County, Calif. region of TechAmerica. To learn more about Teridian's metering product line, please visit www.teridian.com [1].

Pricing and Availability

The 71M6541x is offered in 64-pin LQFP packages with 32KB or 64KB Flash options and prices starting at \$2.00 at 10,000 quantities. The 71M6xx1 isolated sensors are offered in 8-pin SOIC packages with prices starting at \$1.50 for 10,000 quantities, which varies depending on current and accuracy range. For additional information, samples and demo boards contact any Teridian sales representative or authorized worldwide distributor, or visit Teridian's Web site at <http://www.teridian.com/sales/> [2].

About Teridian Semiconductor

Teridian Semiconductor designs, manufactures and provides engineering support for its system-on-chip integrated circuits used in the energy measurement, control and communication markets, as well as networking, and secure access systems.

Teridian's products are used in smart utility meters, as well as enterprise based solutions such as servers, power distribution units and outlet monitoring devices to measure power dissipation with high accuracy, and enable communication processing of recorded energy data. Teridian has created five generations of products, and is working with manufacturers to enable the global trend toward improving energy efficiency via a smart energy grid network.

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