

Alpha Micro Introduces the Industry's First Complete Energy Measurement Chip for Home and Enterprise Solutions from Teridian Semiconductor

AC Power Measurement Solutions with Best in Class Accuracy and Self-Calibration

With energy efficiency top of the agenda, manufacturers of white goods for the home and OEMs developing servers, power distribution and communications equipment are turning to Teridian Semiconductor's 78M6612 power outlet measurement and monitoring chip from Alpha Micro (www.alphamicro.net) in a drive to cut costs for end users. "Energy costs are set to rise by as much as 60% by 2016¹", said Christos Papakyriacou, Managing Director, Alpha Micro Components. "The impact is already being felt, with a growing demand from consumers for products that not only meet their requirements on a practical level, but ones that also help them to maintain a grip on their utility bills."

Designed to help end users understand the AC power they are consuming, the Teridian 78M6612 offers best in class accuracy of +/-0.5%, over a 2000:1 dynamic range, with self-calibration to help facilitate rapid design time and optimal manufacturing efficiencies. Capable of operating at -40 to +85 deg C this new class of integrated circuit works effectively across the full industrial temperature range.

"Intelligent energy consumption begins with accurate and meaningful measurement", said Christos. "Prior to the arrival of this chip, developers were forced to perform complex mathematical calculations to track and analyse power usage. Now they simply add this new chip to their system. As a technically competent distributor, we are able to support customers and help implement such technology into their systems."

The 6612 is a highly integrated, single-phase, AC power measurement and monitoring SoC (System-On-Chip), which includes a 32-bit compute engine, an MPU core, real time clock and FLASH memory. Single Converter Technology™, with a 22-bit delta-sigma ADC and digital temperature compensation, supports a wide range of single-phase, dual outlet power measurement applications, on only 25mW of

1. Energy costs are set to rise by as much as 60% by 2016 – source BBC <http://news.bbc.co.uk/1/hi/8297882.stm>

power. Complete firmware is available along with reference designs to enable rapid development of power and energy measurement solutions that meet the most demanding worldwide standards.

Sample and production quantities of Teridian's 78M6612 are available now in both 64 pin LQFP and 68 pin QFN packages. 78M6612 demo kits and eval boards are also available. For more information on Teridian's energy measurement devices and other products, please visit www.alphamicro.net/teridian

For more information please contact: Alpha Micro Components, Springfield House, Cranes Road, Sherborne St. John, Basingstoke, Hampshire, RG24 9LJ. Tel: 01256 851 770 Fax: 01256 851 771 Email: sales@alphamicro.net
<http://www.alphamicro.net>

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To download a high resolution version of the Teridian 78M6612 from Alphamicro, visit
http://www.livewirepr.com/fileadmin/user_upload/images/high_res/6612_64LQFP_400px_2.jpg

About Alpha Micro Components (www.alphamicro.net)

Founded in 1995, Alpha Micro is a successful independent specialist franchised distributor focusing on the M2M market servicing the Telecoms, Datacoms, Security, Electronic Point of Sale (EPoS) and Machine to Machine (M2M) sectors with components from world-leading manufacturers. Its franchised product lines include Lantronix, u-blox, Sierra Wireless, Sagem, Teridian Semiconductor and the company's own 'AMC' range. Alpha Micro has built an enviable reputation offering excellent customer service and innovation.

What really sets Alpha Micro apart from the competition is its design-based approach to distribution and in-depth product knowledge in the markets it serves.

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.

Additional company and product information can be found at <http://www.teridian.com>.

Media contact:
Richenda Wood
Livewire PR
Tel : +44 (0)20 8339 7440
Email : richenda.wood@livewirepr.com