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New Power Monitoring IC From Microchip Provides Highly Accurate Real-Time Power Monitoring of Multiple Loads

Highly Integrated Advanced Features Facilitate System Design and Reduce System Cost of Industrial, Commercial and Consumer Power-Hungry Applications

CHANDLER, Ariz., Feb. 1, 2016 /PRNewswire/ -- Microchip Technology Inc. (NASDAQ: MCHP**)**, a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, announced today an expansion to its power-monitoring IC portfolio with the addition of the **MCP39F511N**. Capable of providing popular standard power calculations and event monitoring of two electrical loads, this highly integrated and accurate device facilitates system design and reduces system cost of power-monitoring wall outlets and smart plugs, power strips, AC/DC power supplies and power distribution applications. It includes three Analog-to-Digital Converters (ADCs) for voltage and two current load measurements, a 16-bit calculation engine, EEPROM and a flexible 2-wire interface.

To learn more about the MCP39F511N, visit **http://www.microchip.com/MCP39511N-020116b**. View a short video on Microchip's metering products, here: **http://www.microchip.com/Metering-020116a**.

"There is an industry-wide effort to improve energy usage and monitor product performance in power hungry appliances, machinery and systems," said Bryan J. Liddiard, marketing vice president of Microchip's Mixed-signal and Linear Products Division. "The MCP39F511N dual-channel power-monitoring IC facilitates design of these types of applications as it reduces firmware development and the number of ICs required for power monitoring of multiple loads."

An integrated low-drift voltage reference in addition to the 94.5 dB of SINAD performance on each current measurement channel allows the MCP39F511N to monitor two current loads with just 0.5 % error across a wide 4000:1 dynamic range. The ability to measure active, reactive and apparent power, active and reactive energy accumulation, RMS current and RMS voltage, line frequency, and power factor combined with advanced, integrated features allows system designers of high-performance devices to reduce bill of materials and reduce time-to-market.

Development Support

The MCP39F511N is supported by Microchip's MCP39F511N Power Monitor Demonstration Board (Part # ADM00706), which is available now for $200 via any Microchip sales representative or authorized worldwide distributor, or from microchipDIRECT (**http://www.microchip.com/mDirect-020116a**).

Pricing & Availability

The MCP39F511N is available now for sampling and volume production in a 28-lead, 5x5 mm QFN package. It is priced at $1.82 each, in 5,000-unit quantities. For additional information, contact any Microchip sales representative or authorized worldwide distributor, or visit Microchip's Web site at http://www.microchip.com/MCP39F511-042115a. To purchase products mentioned in this press release, go to microchipDIRECT or contact one of Microchip's authorized distribution partners.

Resources

High-res Image Available Through Flickr or Editorial Contact (feel free to publish):

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About Microchip Technology

Microchip Technology Inc. (NASDAQ: MCHP) is a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, providing low-risk product development, lower total system cost and faster time to market for thousands of diverse customer applications worldwide. Headquartered in Chandler, Arizona, Microchip offers outstanding technical support along with dependable delivery and quality. For more information, visit the Microchip website at **http://www.microchip.com/Homepage-020116a**.

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Tags / Keywords: Power Monitoring, Energy Measurement, Power Measurement, AC/DC Supplies, SMPS, Power Distribution Units, Energy Monitoring, Energy Metering, Power Meter, Internet of Things

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