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Microchip Launches World's First Analog-Based Power Management Controller With Integrated MCU for Flexible, Efficient Power Conversion

Microchip Expands Portfolio of Mid-Voltage Controller and MOSFET Solutions for DC/DC Power-Conversion Applications

CHANDLER, Ariz.--(BUSINESS WIRE)-- Microchip Technology Inc. **(NASDAQ: MCHP)**, a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, today announced its **MCP19111**, the world's first Digitally Enhanced Power Analog controller, which expands Microchip's diverse range of intelligent DC/DC power-conversion solutions. Microchip also announced the expansion of its high-speed MOSFET family, with the new **MCP87018**, **MCP87030**, **MCP87090** and **MCP87130**. These are 25V-rated, 1.8 mΩ, 3 mΩ, 9 mΩ and 13 mΩ logic-level MOSFETs that are optimized specifically for Switched-Mode-Power-Supply (SMPS) applications. The MCP19111 Digitally Enhanced Power Analog controller, a new hybrid, digital and analog power-management device, in combination with the expanded MCP87XXX family of low-Figure-of-Merit (FOM) MOSFETs, supports configurable, high-efficiency DC/DC power-conversion designs for a broad array of consumer and industrial applications.

Watch short video on the MCP19111: **http://www.microchip.com/get/C0TN**
View a brief presentation on these new devices: **http://www.microchip.com/get/TPPQ**

The MCP19111 Digitally Enhanced Power Analog family operates across a wide voltage range of 4.5 to 32V and offers a significant increase in flexibility over conventional analog-based solutions. In fact, the MCP19111 offers the world's first hybrid, mixed-signal power-management controller, integrating an analog-based PWM controller with a fully functional Flash-based microcontroller. This integration offers the flexibility of a digital solution, with the speed, performance and resolution of an analog-based controller. The MCP19111 devices support operation up to 32V, and have integrated MOSFET drivers configured for synchronous, step-down applications. When combined with Microchip's expanded family of high-speed MOSFETs, the MCP19111 drives customizable, high-efficiency power conversion.

"The MCP19111 family increases the capabilities of today's high-efficiency, analog-based power designs, enabling new levels of flexibility, optimization and integration; all in a very small footprint," said Bryan J. Liddiard, marketing vice president of Microchip's Analog & Interface Products Division. "The broad operating range and integrated, mid-voltage synchronous drivers support high-efficiency, power-dense conversion with fast, analog-based control. When combined with Microchip's newly expanded high-speed MOSFET offerings, they form fast, efficient power-conversion solutions that yield highly flexible, highly efficient power designs."

Development Tool Support

The MCP19111 Evaluation Board (part #ADM00397, $49.99), which also includes Microchip's High-Speed MOSFETs, is available now. This evaluation board is offered with standard firmware, which is user-configurable through an MPLAB® X IDE graphical user interface (GUI) plug-in. The combined evaluation board, GUI and firmware allow power-supply designers to configure and evaluate the performance of the MCP19111 for their target applications.

Pricing & Availability

Pricing starts at $2.81 each for the MCP19111 controller and $0.28 each for the MCP87030/090/130/018 Power MOSFETs, in 5,000-unit quantities. All are available now for sampling and volume production, except the MCP87018 with expected availability in February. The MCP19111 controller is offered in a 5x5 mm, 28-pin QFN package. The MCP87030 and MCP87018 MOSFETs are offered in a 5x6 mm, 8-pin PDFN package. The MCP87090 and MCP87130 MOSFETs are offered in both a 5x6 mm, 8-pin PDFN package, as well as a 3.3x3.3 mm, 8-pin PDFN package.

For additional information, contact any Microchip sales representative or authorized worldwide distributor, or visit Microchip's Web site at **http://www.microchip.com/get/G1N7**. To purchase products mentioned in this press release, go to **microchipDIRECT** or contact one of Microchip's authorized distribution partners.

Resources

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

- MCP19111 Photo: **http://www.microchip.com/get/MDNV**
- MCP87XXX Photo: **http://www.microchip.com/get/HX60**
- Block Diagram: **http://www.microchip.com/get/BBVN**
- Tool Photo: **http://www.microchip.com/get/3819**

Video Available Through YouTube or Editorial Contact (feel free to post):

- Introducing the MCP19111—World's First Digitally Enhanced Power Analog Controller: **http://www.microchip.com/get/C0TN**

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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/get/VQTJ.**

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