

Microchip Expands Portfolio of Digitally Enhanced Power Analog Controllers with Integrated MCU

MCP19114/5 Family Provides Flexible, Analog-Based 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 an expansion of its Digitally Enhanced Power Analog controller product line. With the introduction of the MCP19114 and [MCP19115](#) devices, Microchip's diverse range of intelligent DC/DC power-conversion solutions grows to include controllers supporting flyback, boost and SEPIC topologies. These latest devices introduce a step-up PWM-controller and low-side MOSFET driver architecture, with a mid-voltage LDO and fully-functional microcontroller all integrated into a small, high-density power package. This solution continues to offer the power conversion performance typical of an analog-based controller, with the flexibility approaching a fully-digital power conversion solution. These new analog power-management devices, in combination with the fully-functional microcontroller (MCU), support configurable, high-efficiency power-conversion designs across a broad array of consumer and automotive applications and power conversion topologies.

The MCP19114 and MCP19115 hybrid digital-analog control solutions offer the speed and responsiveness expected of a high-performance analog control loop; the flexibility expected of a digital MCU; operate across wide operating voltage ranges; support conventional 5, 12, and 24 V rails; and meet automotive load dump requirements. The MCP19114/19115 analog-based controllers with digital interface offer cost-efficient adjustability in a high-performance power conversion solution. These devices support operation up to 42V, and have integrated MOSFET drivers configured for step-up applications.

"Microchip's MCP19114 and MCP19115 family of Digitally Enhanced Power Analog controllers are the latest products to use Microchip's highly flexible and highly configurable, DC/DC PWM controller technology," said Bryan J. Liddiard, marketing vice president of Microchip's Analog and Interface Products Division. "Building on our MCP19110 and MCP19111 families, today's devices continue to expand the capabilities of high-efficiency analog solutions, enabling new levels of flexibility and optimization, in a very small footprint."

Development Tool Support

Microchip's [MCP19114 Flyback Standalone Evaluation Board](#) (part # ADM00578, \$49.99), also announced today, is available now. This evaluation board is offered with a flyback design supporting 0V to 50V output from an 8V to 14V input. Microchip's full suite of development tools support the MCP19114 and MCP19115 power controllers, including the

MPLAB® X Integrated Development Environment (IDE), **PICkit™ 3** (part # PG164130, \$44.95), PICkit Serial Analyzer (part #DV164122, \$49.99), and the **MPLAB XC8 Compiler**.

Pricing & Availability

The MCP19114 is available now for sampling and volume production in 24-lead QFN 4 mm x 4 mm packages, for \$2.61 each, in 10,000-unit quantities. The MCP19115 is available now for sampling and volume production in 24-lead QFN 5 mm x 5 mm packages, for \$2.78 each, in 10,000-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/get/TB5H>. To purchase products mentioned in this press release, go to [microchipDIRECT](http://www.microchip.com/DIRECT) or contact one of Microchip's authorized distribution partners.

Resources

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

- Chip Graphic: <http://www.microchip.com/get/R3BK>
- Block Diagram: <http://www.microchip.com/get/38T2>
- MCP19114 Flyback Standalone Evaluation Board: <http://www.microchip.com/get/0LQF>

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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/HPPG>.

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