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Low-Cost Debugging and Programming is Now Faster and More Feature Rich with MPLAB® PICkit™ 4 Development Tool

New tool features faster programming, wider voltage range and improved interface options for a variety of Microchip devices

CHANDLER, Ariz., Feb. 27, 2018 (GLOBE NEWSWIRE) --

The debugging process remains an important area where many embedded design engineers would like to see improvements, according to AspenCore's 2017 Embedded Market Study. To address these needs and enhance the development experience, Microchip Technology Inc. (NASDAQ:MCHP) introduces the **MPLAB® PICkit™ 4** In-Circuit Debugger. The low-cost PICkit 4 in-circuit programming and debugging development tool is meant to replace the popular PICkit 3 programmer by offering five times faster programming, a wider voltage range (1.2-5V), improved USB connectivity and more debugging interface options. In addition to supporting Microchip's PIC® microcontrollers (MCUs) and dsPIC® Digital Signal Controllers (DSCs), the tool also supports debugging and programming for the CEC1702 family of hardware cryptography-enabled devices.

This low-cost programming and debugging solution is ideal for those designing in the 8-bit space, but it is also perfectly suited for 16- and 32-bit development due, in part, to its 300 MHz, high-performance ATSAME70Q21B microcontroller on board. The benefits of faster programming time are less waiting and better productivity during development. This is especially important when designing with 32-bit microcontrollers with larger memory capacities.

The PICkit 4 development tool enables debugging and programing using the graphical user interface of MPLAB X Integrated Development Environment (IDE). The tool connects to the design engineer's computer using a hi-speed USB 2.0 interface and can be connected to the target via an 8-pin single inline header that supports advanced interfaces such as 4-wire JTAG and serial wire debug with streaming data gateway. It is also backward compatible for demo boards, headers and target systems using 2-wire JTAG and In-Circuit Serial Programming™ (ICSP) compatibility.

The new interfaces make this low-cost tool compatible with Microchip's CEC1702 hardware cryptography-enabled devices. This low-power, but powerful, 32-bit MCU offers easy-to-use encryption, authentication and private and public key capabilities. CEC1702 users can now benefit from using Microchip's development tools and support rather than being required to invest in third-party tools for programming and debugging.

"A better and faster development tool doesn't have to be expensive," said Rodger Richey, Microchip's director of Development Systems. "The MPLAB PICkit 4 programmer has all the features a design engineer needs for working with PIC, dsPIC and CEC1702 devices, as

well as the capability to support future products for many years to come. Our mission is to provide the highest-performing and easiest-to-use development tools in the industry at an affordable price."

For more information about the MPLAB PICkit 4 development tool, visit: **www.microchip.com/PICkit4**

Pricing and Availability
The MPLAB PICkit 4 (PG164140) development tool is available today for $47.95. To purchase, go to Microchip's easy-to-use online sales channel **microchipDIRECT** or contact one of Microchip's authorized distribution partners. For additional information, contact any Microchip sales representative or authorized worldwide distributor, or visit Microchip's website.

Resources
High-res image is available through Flickr or editorial contact (feel free to publish):

- Tool Graphic: **www.flickr.com/photos/microchiptechnology/39976070952/sizes/l**

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 **www.microchip.com**.

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