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Microchip's New PIC32 MPLAB® Harmony Ecosystem Development Program Offers Embedded Software Developers Access to Comprehensive Tools and New Markets

Program Provides Developers Multiple Channels for Increasing Business and Marketing to Rapidly Growing PIC32 MPLAB Harmony User Base

CHANDLER, Ariz., Dec. 7, 2015 /PRNewswire/ -- Microchip Technology Inc. (NASDAQ: MCHP), a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, today announced its **MPLAB® Harmony** Ecosystem Program for the developers of embedded middleware and operating systems who are seeking to unlock the business potential of Microchip's 32-bit **PIC32 MCU** customer base. Ecosystem partners also gain early and easy access to the complete and current set of MPLAB Harmony tools. MPLAB Harmony is the industry's most comprehensive 32-bit microcontroller firmware development framework, which integrates licensing, resale and support of both Microchip and third-party middleware, drivers, libraries and real-time operating systems. This new Ecosystem Program builds on that framework by offering an open and structured method to become certified as "Harmony Compatible," using the embedded-control industry's only set of test harnesses, checklists and reference validation points. By accessing this broader, code-compatible ecosystem when creating complimentary value-added software, developers can reduce risks and overall costs, accelerate time to market, and grow their businesses by gaining opportunities to market to thousands of PIC32 MPLAB Harmony users.

Watch a short video on MPLAB Harmony TV at: **http://www.microchip.com/Videos-120715a**.

"Customers need access to more software solutions, in order to expand the capabilities of their embedded applications while reducing overall risk and time to market," said Rod Drake, vice president of Microchip's MCU32 Division. "Microchip is significantly expanding its

MPLAB Harmony third-party program to benefit developers and customers alike, and to provide the broadest and best integrated offering in the embedded microcontroller industry."

As today's applications get increasingly sophisticated, embedded developers need to rapidly bring complex solutions to market. Microchip's MPLAB Harmony framework for its PIC32 MCUs can reduce the development time of a typical project by a minimum of 20-35 percent, by providing a single integrated, abstracted and flexible source of tested, debugged and interoperable code. Additionally, MPLAB Harmony provides a modular architecture that enables the efficient integration of multiple drivers, middleware and libraries, while offering an RTOS-independent environment. Not only does this pre-verification and integration speed development, it also increases reuse. On the hardware side, the MPLAB Harmony framework makes it even easier to port code, thereby simplifying migration among all of Microchip's 32-bit PIC32 microcontrollers, enabling a highly profitable, multi-tiered end equipment offering with minimal code redevelopment. Middleware and Operating System developers who take advantage of Microchip's Ecosystem Development Program will be better able to offer customers solutions that leverage MPLAB Harmony's efficiency and reliability advantages.

Development Support

The **MPLAB Harmony Integrated Software Framework** is also supported by Microchip's free **MPLAB Harmony Configurator** and **MPLAB XC32 Compiler v1.40**, all of which operate within Microchip's **MPLAB X Integrated Development Environment** (IDE), and all of which are available now for free download. Additionally, MPLAB Harmony and the PIC32 are supported with a comprehensive set of low-cost **development boards** available from **microchipDIRECT** or by contacting one of Microchip's authorized distribution partners. For information on Microchip's extensive portfolio of 32-bit PIC32 microcontrollers and development tools, including a rich ecosystem of third parties, visit **http://www.microchip.com/PIC32-120715a**.

Pricing & Availability

MPLAB Harmony is available today, and the basic framework is free. Once downloaded, there is a modular menu of free and premium software options. The expanding list of offerings includes RTOSs—FreeRTOS from Real Time Engineers Ltd. and OPENRTOS from Wittenstein High Integrity Systems—a TCP/IP stack from InterNiche Technologies, an Embedded SSL/TLS Library from wolfSSL, and IoT enablement from PubNub, among many other software offerings from vendors such as Micrium, SEGGER and Express Logic. For downloads and more information, visit **http://www.microchip.com/Harmony-120715a**.

Resources

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

- Harmony Block Diagram: **http://www.microchip.com/Diagram-120715a**

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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-120715a**.

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