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Microchip Expands PIC32MX1/2 32-bit Microcontroller Series With Devices Featuring Cost-Optimized 256 KB Flash and Performance Up To 83 DMIPS

Large Memory and Smart Peripheral Mix Lowers Development Costs for Touch-Sensing and Embedded-Control Applications In the Consumer, Industrial and Medical Markets

CHANDLER, Ariz., Aug. 19, 2015 /PRNewswire/ -- [NASDAQ: MCHP] — Microchip Technology Inc., a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, today announced a new series within its **PIC32MX1/2 32-bit microcontroller** (MCU) family that features a large 256 KB Flash configuration and 16 KB of RAM in small-footprint packages. These latest additions to this popular MCU family provide flexibility to low-cost applications that need complex algorithms and application code, and they are coupled with Microchip's comprehensive software and tools for designs in graphics, touch sensing and general-purpose embedded control.

To learn more about Microchip's 32-bit PIC32 MCUs, visit: **http://www.microchip.com/PIC32-081115a**.

The new PIC32MX1/2 MCU series boasts a wide variety of rich features, including up to 50 MHz/83 DMIPS performance for executing advanced control applications and mTouch® capacitive touch sensing. Additional features include an enhanced 8-bit Parallel Master Port (PMP) for graphics or external memory, a 10-bit, 1 Msps, 13-channel Analog-to-Digital Converter (ADC), support for SPI and I^2S serial communications interfaces and USB device/host/On-the-Go (OTG) functionality.

"This new 32-bit MCU series is ideal for the designers of embedded-control and touch applications who are looking for low-cost and smaller package options," said Rod Drake,

vice president of Microchip's MCU32 Division. "With their cost-optimized Flash configuration, performance up to 83 DMIPS, package sizes down to 6x6 mm and 0.5mm pitch and feature-packed peripherals, these MCUs offer increased flexibility to a broad range of applications while keeping design size and cost low."

Microchip's **MPLAB® Harmony** software development framework further simplifies designs, by integrating the license, resale and support of Microchip and third-party middleware, drivers, libraries and Real-Time Operating Systems (RTOS). Specifically, Microchip's readily available software packages—including USB stacks and Graphics and Touch libraries—can greatly reduce the development time of applications such as consumer, industrial and general-purpose embedded control.

Designers seeking to launch consumer products with capacitive touch screens, touch buttons or sliders, as well as USB device/host/OTG connectivity, can benefit from the functionality of the PIC32MX1/2 series of MCUs. The feature-rich peripherals of these MCUs are also ideal for medical and industrial applications, which also include displays with touch-sensing capabilities, along with general-purpose embedded control and connectivity capabilities.

Development Support

This latest PIC32MX1/MX2 series is supported by Microchip's free **MPLAB® X Integrated Development Environment (IDE)** and **MPLAB XC32 Compiler for PIC32**. The **MPLAB ICD 3 In-Circuit Debugger** (part # DV164035, $199.95) and **MPLAB REAL ICE™ In-Circuit Emulation System** (part # DV244005, $499.98) are also available. Additionally, the following development board plug-in module supports this series: **PIC32MX270F256D Plug-in-Module for Explorer 16 Development Board** (part # MA320014, $35).

Pricing & Availability

These latest PIC32MX1/2 MCUs are available now in 28-pin QFN, SPDIP and SSOP packages and 44-pin QFN, TQFP and VTLA packages. Pricing starts at $1.91 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/PIC32-081115a**. To purchase products mentioned in this press release, go to **microchipDIRECT** or contact one of Microchip's authorized distribution partners.

Resources

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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-081115a.**

Tags / Keywords: 32-bit Controller, 32-bit MCU, Low-Cost MCU, Embedded Control, Graphic MCU, Connectivity, USB, Touch Sensing

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