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Latest PIC32 Family Increases Performance While Reducing Power Consumption

PIC32MX1/2 XLP Family Expands eXtreme Low Power (XLP) Technology to 32-bit Products

CHANDLER, Ariz., June 19, 2017 (GLOBE NEWSWIRE) -- The latest PIC32 microcontroller family from Microchip Technology Inc. (NASDAQ:MCHP) expands Microchip's eXtreme Low Power (XLP) technology to 32-bit PIC32MX products. The PIC32MX1/2 XLP offers current PIC32MX customers an easy migration path to achieve higher performance at much lower power, enabling both increased functions and longer battery life in portable applications. The PIC32MX1/2 XLP family increases performance in small pin-count devices with little code rework for existing customers.

Microchip's XLP technology is designed for wearable technology, wireless sensor networks and other smart connected devices and offers low current operating modes for Run and Sleep, where extreme low-power applications spend 90–99 percent of their time. XLP technology will enable sleep and deep sleep shutdown states on the PIC32MX1/2 XLP devices, enabling Deep Sleep currents down to 673 nA. The devices offer over 40 percent higher performance than the existing PIC32MX1/2 portfolio while reducing average run currents by 50 percent.

The PIC32MX1/2 XLP family offers a range of memory configurations with 128/256 KB Flash and 32/64 KB of RAM in packages ranging from 28 to 44 pins. They also include a diverse set of peripherals at a low cost including I^2S for digital audio, 116 DMIPS performance for executing audio and advanced control applications, a 10-bit 1 Msps 13-channel ADC and serial communications peripherals. The PIC32MX2 series also supports USB-device, host and OTG functionality.

In addition to the hardware peripheral features, the series is supported by Microchip's MPLAB® Harmony Software Development Framework, which simplifies development cycles by integrating the license, resale and support of Microchip and third-party middleware, drivers, libraries and RTOSs. Specifically, Microchip's readily available software packages such as Bluetooth® audio development suites, audio equalizer filter libraries, decoders (including AAC, MP3, SBC), sample rate conversion libraries and USB stacks will rapidly reduce the development time of digital audio, consumer, industrial and general-purpose embedded control applications.

"The PIC32MX family was a natural fit to include XLP technology," said Rod Drake, vice president of Microchip's MCU32 division. "The family has already been successful in the wearable market with a vast array of software and support. Customers will be able to easily enjoy the benefits associated with this latest expansion."

For more information about PIC32MX1/2 XLP, visit:
http://www.microchip.com/PIC32MX_XLP_Main4380

Development Support
The PIC32MX1/2 XLP family is designed to work with Microchip's MPLAB Harmony, which offers access to software support for digital audio and Bluetooth applications. A PIC32MX XLP Starter Kit (part# DM320105) is available today for $100. A PIC32MX254F256 PIM for Explorer 16 (part #MA320021) is available today for $25. Finally, a PIC32MX274F256 PIM for Bluetooth Audio Development Kit (part #MA320022) is available today for $45.

Pricing and Availability
Parts are available today (PIC32MX274F256D, PIC32MX274F256B, PIC32MX254F128D, PIC32MX254F128B, PIC32MX174F256D, PIC32MX174F256B, PIC32MX154F128D, PIC32MX154F128B) starting at $2.65 each in 10,000 unit quantities.

For additional information, contact any Microchip sales representative or authorized worldwide distributor, or visit Microchip's website. To purchase products mentioned in this press release, go Microchip's easy-to-use online sales channel **microchipDIRECT** or contact one of Microchip's authorized distribution partners.

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

- Block Diagram: **www.flickr.com/photos/microchiptechnology/35072642411/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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