

June 25, 2014



Microchip Announces Expansion of Its Low-Cost PIC32MX1/2 Series with Larger Flash and RAM

PIC32MX1/2 Family Offers the Performance, Memory and Peripheral Mix for Digital Audio with Bluetooth[®], USB Audio, General-Purpose Embedded Control, Low-Cost Graphics and Touch Sensing Applications

CHANDLER, Ariz.--(BUSINESS WIRE)-- Microchip Technology Inc. (NASDAQ: MCHP), a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, today announced a new family of [PIC32MX1/2 microcontrollers](#) (MCUs) in 256/64 KB Flash/Ram configurations. These new MCUs are coupled with comprehensive software and tools from Microchip for designs in digital audio with Bluetooth[®], USB audio, graphics, touch sensing and general-purpose embedded control.

The MCUs are an expansion to the popular PIC32MX1/2 series of low-cost small footprint 32-bit microcontrollers. They now offer larger Flash and RAM options with a feature-rich peripheral set at a lower cost. The PIC32MX1/2 boasts a wide variety of features including I²S for digital audio, large memory configuration and 83 DMIPS performance for executing Bluetooth Audio and advanced control applications, CTMU for capacitive touch sensing, 8-bit PMP for graphics or external memory, a 10-bit 1-Msps 13-channel ADC and serial communications peripherals with the PIC32MX2 series supporting USB-device/host/OTG functionality.

Apart from hardware peripheral features, Microchip's new MPLAB[®] Harmony software development framework that supports these devices simplifies the development cycle 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, various Decoders including AAC, MP3, SBC, sample rate conversion libraries, USB stacks, graphics and touch libraries will rapidly reduce the development time of applications including Bluetooth digital audio, consumer, industrial and general-purpose embedded control.

The PIC32MX1/2 MCUs are targeted for low-cost applications in the consumer markets, such as Bluetooth speakers, consumer music-player docks, noise-cancelling headsets, infotainment systems, clock radios, and entertainment-system sound bars, as well as touch screens with buttons and sliders, and USB device/host/OTG applications. In the medical and industrial markets, applications include industrial-grade noise-cancelling headsets and medical/industrial displays with touch-sensing capabilities.

"The expansion of PIC32MX1/2 with larger Flash and RAM will enable designers to integrate more functionality into applications that need large complex code," said Rod Drake, director of Microchip's MCU32 Division. "Additionally, they further offer flexibility to design into consumer, industrial, medical and other markets that require a combination of Bluetooth

audio, digital audio, touch-sensing, general-purpose embedded control as well as USB communication.”

Development Support

The PIC32MX1/MX2 series is supported by Microchip’s free [MPLAB® X Integrated Development Environment \(IDE\)](#) and [MPLAB XC32 Compiler for PIC32](#). Application specific development tools that support the PIC32MX1/MX2 series include the [PIC32MX270F256D Plug-in-Module for Explorer 16 Development Board](#) (part # MA320014, \$35) and [PIC32MX270F256D Plug-in-Module for Bluetooth Audio Development Kit](#) (part # MA320013, \$25).

Pricing & Availability

These new PIC32MX1/2 MCUs are available now in 28-pin QFN, SOIC, SPDIP and SSOP packages and 44-pin QFN, TQFP and VTLA packages. Pricing starts at \$2.43 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/SRRT>. To purchase products mentioned in this press release, go to [microchipDIRECT](#) or contact one of Microchip’s authorized distribution partners.

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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/A4JV>.

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Tags / Keywords: [32-bit controller](#), [32-bit MCU](#), [Digital Audio MCU](#), [USB Audio](#), [Low-Cost MCU](#), [Embedded Control](#), [Bluetooth](#), [USB Audio](#), [Graphic MCU](#)

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Source: Microchip Technology Inc.