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Microchip Offers Two New PIC32 MCU-based Development Boards, Making it Easy to Create 24-bit Audio Designs

Industry's First Audio Mixer Development Boards

CHANDLER, Ariz.--(BUSINESS WIRE)-- Microchip Technology Inc. (NASDAQ: MCHP), a leading provider of microcontroller, analog and Flash-IP solutions, today announced two new digital audio mixer boards based on low pin count 32-bit PIC32 microcontrollers (MCUs). The **DM320014**, a **USB digital audio accessory board**, utilizes standard USB 2.0 Mini-B connectivity. The **DM320413**, **a digital audio mixer board**, offers Apple® portable device connectivity. These two development boards, each powered by Microchip's **PIC32MX250F128 32-bit MCU**, enable **audio and voice device development** for a broad range of applications.

Both boards are designed for easy integration of digital and analog audio into the target application. Key features include interfaces for digital audio via USB Mini-B or the Apple iOS interface, line-in and microphone-in for convenient connectivity to analog audio sources, such as microphones or instrument pickups, and line-out and headphone out, for line-level output and headphone connectivity. Each provides an excellent starting point for a portable music player dock design. Additionally, these features allow the mixing of digital and analog audio, utilizing the power of the PIC32's advanced processing capabilities. The development boards are suitable for applications in the consumer and automotive markets, such as consumer audio docks (including those in stereo systems), noise-canceling headsets, clock radios or A/V entertainment system sounds bars, as well as in automobiles that offer portable music player docking capabilities.

These two new boards demonstrate Microchip's commitment to making digital audio development easy with the PIC32 MX1 and MX2 microcontrollers. They feature 66 DMIPS of performance, up to 128 KB Flash, 32 KB of RAM, USB, I^2S interfaces and an advanced clocking scheme that provides the signals needed for the external CODEC while eliminating the need for a CODEC with a built-in PLL. In addition, this series of MCUs offers an 8-bit Parallel Master Port (perfect for interface to an LCD), Microchip's mTouch™ capacitive touch technology support and numerous other general-purpose features.

To maximize the cost effectiveness of designs that need to decode MP3 files, Microchip is also releasing a Compact MP3 Decode Library. This new code requires only 21 KB of RAM and can run on the PIC32MX250F128. Utilizing these new boards and the available Compact MP3 Decode Library, designers can reduce development time and shorten their time to market.

"We have seen excellent traction for the PIC32 in audio applications," said Sumit Mitra, vice president of **Microchip's MCU32 Division**. "With Microchip's February announcement of the PIC32MX1 and MX2 series that features I^2S CODEC interface, the demand has really taken

off. These two new digital audio boards make it easy for developers to take advantage of the PIC32's audio features."

Development Support

Developers can begin designing today with these boards, using the Microchip's MPLAB® X Integrated Development Environment. Both development boards can be programmed and debugged by the PICkit™3 (part # PG164130), which is available separately for $44.95.

Packaging, Pricing & Availability

Both boards are available today, starting at $69.99. The **DM320413** is offered exclusively to **Apple MFi licensees**, via Apple's authorized distributor. The **DM320014** is available for purchase at microchipDIRECT. Microchip's Compact MP3 Decode Library will be available by September 28 in non-modifiable binary (part # SW320012-1) form for $197, or $4,497 for modifiable source code (part # SW320012-2) on **microchipDIRECT**. For additional information, contact any Microchip sales representative or authorized worldwide distributor, or visit Microchip's Web site at **http://www.microchip.com/get/LCWH**.

Resources

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

- DM320413 Photo: **http://www.microchip.com/get/4KLB**
- DM320014 Photo: **http://www.microchip.com/get/91SA**

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About Microchip Technology

Microchip Technology Inc. (NASDAQ: MCHP) is a leading provider of microcontroller, 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, Ariz., Microchip offers outstanding technical support along with dependable delivery and quality. For more information, visit the Microchip website at **http://www.microchip.com/get/M45N.**

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