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New Low-Power PIC24 “GA7” Microcontroller Family Now Available

Microchip’s New Low-Power Family Enables Cost-Effective, Space-Constrained Designs

CHANDLER, Ariz., Dec. 12, 2016 (GLOBE NEWSWIRE) -- The new PIC24 “GA7” family of microcontrollers (MCU) is now available from Microchip Technology Inc. (NASDAQ:MCHP), a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions. As the lowest-cost 256 KB Flash memory 16-bit MCUs available today, these PIC24 devices enable extremely cost-effective designs for Internet of Things (IoT) sensor nodes, portable medical devices and industrial control applications. For more information about Microchip’s PIC24 “GA7” family visit: **http://www.microchip.com/pic24ga705**

The PIC24 “GA7” family enables developers to cut power consumption, cost and space. The devices offer low-power modes including multiple sleep modes, down to 190 nA, to greatly decrease power consumption for extended battery life in portable applications at a fraction of the cost of previous solutions. The new devices also offer up to 256 KB Flash and 16 KB RAM and are available in 28, 44 and 48 pin count package options, some as small as 4 x 4mm.

Products in the PIC24 “GA7” family support Core Independent Peripherals (CIPs) such as configurable logic cell (CLC), Multi-output Capture Compare Pulse Width Modulation module (MCCP) and Direct Memory Access (DMA), which allow developers to accomplish tasks in hardware while freeing up the central processing unit (CPU) to do other tasks or to go to sleep. The new microcontrollers also features a robust peripheral set including 12-bit, 200 ksps Analog to Digital Converter (ADC), up to seven timers and two Universal Asynchronous Receiver/Transmitters (UARTs).

“Designers are demanding more program memory in smaller pin count packages. With the PIC24 ‘GA7’ family, Microchip offers a cost-effective solution packing 256 KB Flash into small 4 x 4 mm packages,” said Joe Thomsen, Vice President of Microchip’s MCU16 Division. “This PIC24 family also offers various power-down modes for power-sensitive and handheld applications.”

Development Support
The new PIC24 “GA7” family is supported by the Explorer 16/32 Development Board ecosystem (DM240001-2) as well as the new PIC24FJ256GA705 Plug-In Module (MA240039) which plugs into the Explorer 16/32 Board for easy evaluation and development. Speed up development by leveraging the “GA7” family’s compatibility with Microchip’s established software development platforms including MPLAB® Code Configurator (MCC), MPLAB X IDE and XC16 Compiler.

The PIC24 ”GA7” devices are also supported by Microchip’s MPLAB Xpress Cloud-Based IDE, which is an online development environment containing the most popular features of

MPLAB X IDE. MPLAB Xpress incorporates the latest version of MPLAB Code Configurator, which enables users to automatically generate initialization and application C code using a graphical interface and pin map. Best of all, MPLAB Xpress IDE is free, and can be accessed from any Internet-connected computer, anywhere in the world.

Pricing and Availability
The PIC24 "GA7" family is available in 64KB, 128KB and 256KB Flash variants with 28-pin, 44-pin and 48-pin packaging options. All devices are currently available with volume pricing starting at $0.80 USD.

For additional information, contact any Microchip sales representative or authorized worldwide distributor. To purchase products mentioned in this press release, go to **microchipDIRECT (www.microchipdirect.com/searchparts.aspx?q=ga7&resperpage=10)** or contact one of Microchip's authorized distribution partners.

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

- Chip graphic: **https://www.flickr.com/photos/microchiptechnology/31193387532**
- Block diagram: **https://www.flickr.com/photos/microchiptechnology/30968396590**

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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