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Peripheral Touch Controller with Superior Water Tolerance Now Available on Several Microchip MCUs

Latest Advancement in Touch Peripheral also First to be Supported by START Code Configurator

CHANDLER, Ariz., Nov. 15, 2016 /PRNewswire/ -- Microchip Technology Inc. (NASDAQ: MCHP), a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, has added an enhanced version of the Peripheral Touch Controller (PTC) to their most recently announced microcontrollers, including the ATtiny817/816/814. The PTC is a small and cost-effective Core Independent Peripheral (CIP) that enables high-performance capacitive touch on standard microcontrollers. The PTC features superior water tolerance and is configured through the Atmel START Code Configurator for ease of use.

CIPs are designed to handle their task with no code or supervision from the CPU to maintain operation. As a CIP, the Peripheral Touch Controller simplifies the implementation of touch sensing and thus gives designers the flexibility to focus on the rest of the application.

Touch solutions using the PTC combine advanced noise handling, water-tolerant touch and low-power wake-on-touch operation. An IEC 61000-4-6 conducted immunity rating of 15 Vrms makes it easy for customers to pass the strictest electromagnetic compatibility (EMC) standards especially in the home appliance and automotive markets. Water-tolerant touch enables outdoor usage and enhances user experience. In addition, it is able to use less power with advanced sleep and wake-up functionality, making it ideal for wearable and other battery-powered applications.

The software support provided by Microchip's ecosystem further adds to the ease of use. The ATtiny817 is the first in a line to be supported by Atmel START Code Configurator and the code-compact QTouch® modular library of firmware. As a web-based tool, Atmel START will enable users to always benefit from the latest state-of-the-art touch libraries.

"Microchip continues to be a leader in touch technology," said Fanie Duvenhage, vice president of Microchip's Touch Sensing Group. "In the creation of this newest peripheral touch controller, we wanted to push the boundaries on water resistance and noise immunity while keeping implementation easy for designers. What resulted was a top-of-line CIP that was an excellent addition to the ATtiny817/816/814 and will be an excellent addition to many MCUs in the future."

For more information on Microchip's peripheral touch controller, visit:
www.microchip.com/touch or
http://www.atmel.com/products/microcontrollers/avr/tinyAVR.aspx

Resources

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

- ATtiny817 QTouch Water Demonstration Board:
  www.flickr.com/photos/microchiptechnology/22804183668/sizes/l
- ATtiny817 Xplained Pro Board:
  www.flickr.com/photos/microchiptechnology/30836177851/in/dateposted/
- ATtiny817 Xplained Mini:
  www.flickr.com/photos/microchiptechnology/30923903525/in/dateposted/

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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