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Microchip's New mTouch® Sensing Controllers Make it Easy to Replace Mechanical Buttons With Capacitive Touch in Cost-Sensitive, Low-Power Applications

Embedded Developers Can Quickly Integrate Proximity and Touch Sensing Technology Without Writing any Software

CHANDLER, Ariz., Oct. 28, 2015 /PRNewswire/ -- Microchip Technology Inc. (NASDAQ: MCHP), a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, today announced the expansion of its MTCH10x mTouch® sensing portfolio with the turnkey [MTCH102-5-8 capacitive touch controllers](#). In a hardware-only configuration, these 2, 5 and 8-channel controllers replace mechanical buttons with a simple digital output, making it easy to add proximity and touch detection to any application that is constrained by size, power or cost. To achieve high reliability and more sensitive touch performance, including operation through a glove, the MTCH102-5-8 capacitive touch controllers come with advanced multi-stage noise filtering algorithms. The MTCH102-5-8 controllers support a wide range of touch-sensor shapes and sizes, feature automatic compensation for environmental conditions, and provide reliable operation in the presence of water. Moreover, active guarding increases proximity-sensing sensitivity and makes the electronic design robust, even with long board traces to the touch sensors.



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For an introduction to Microchip's mTouch sensing solutions, please visit <http://www.microchip.com/mTouch-102815a>.

"Our mTouch controllers offer a quick, turnkey solution for developing touch applications in low-cost embedded applications without sacrificing performance," said Dr. Roland Aubauer, director of Microchip's Human Machine Interface Division. "With no software to write and a very simple interface, developers can improve their products by quickly updating mechanical keypads to capacitive touch."

The MTCH102-5-8 low power touch controllers create robust, ready-to-go touch solutions to serve the rapid growth of capacitive human interfaces in the industrial (e.g., light switches), home-automation (e.g., security control panels, thermostats and lighting controls), office-equipment (e.g., printers, copiers and fax machines) and consumer (e.g., toys, white goods and appliances) markets, among others.

Development Support

To enable the easy evaluation and configuration of capacitive-touch interfaces, the MTCH102-5-8 is supported by Microchip's new compact demonstration board (part # DM160229, \$29.95), which will be available in November.

Pricing & Availability

The new [MTCH102](#) mTouch sensing, low-power, two-channel capacitive touch controller is available today in a MSOP or uDFN package, for sampling and volume production. Pricing starts at \$0.44 each, in 10,000-unit quantities.

The [MTCH105](#) low-power, five-channel capacitive touch controller is available today in a QFN or TSSOP package, for sampling and volume production. Pricing starts at \$0.59 each, in 10,000-unit quantities.

The [MTCH108](#) low-power, eight-channel capacitive touch controller is available today in a uQFN or SSOP package, for sampling and volume production. Pricing starts at \$0.65 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/mTouch-102815a>. To purchase products mentioned in this press release, go to [microchipDIRECT](#) or contact one of Microchip's authorized distribution partners.

Resources

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

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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/Homepage-102815a>.

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Editorial Contact:

Eric Lawson
480-792-7182
eric.lawson@microchip.com

Reader Inquiries:

1-888-624-7435
<http://www.microchip.com/mTouch-102815a>

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