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Microchip Announces Projected-Capacitive Touch Screen Controller With Noise-Robust, Advanced Multi-Touch and Gesture Performance

MTCH6303 Provides Advanced Multi-Touch and Gesture Solution for Touch Screens up to 10"

CHANDLER, Ariz., June 29, 2015 /PRNewswire/ -- Microchip Technology Inc., (NASDAQ: MCHP), a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, today announced a new addition to its Human Interface Solutions portfolio with the [MTCH6303](#), an innovative, turnkey projected-capacitive touch controller for touch pads and screens. Touch sensors with up to 1000 nodes and diagonals of up to 10" are supported. The MTCH6303 provides multi-touch coordinates as well as a readymade multi-finger surface gesture suite that brings modern user interface (UI) elements—such as pinch and zoom, multi-finger scrolling, and swipes—to any embedded design, with minimal host requirements.



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For more information on the MTCH6303, visit <http://www.microchip.com/MTCH6303-062915a>.

The MTCH6303's advanced signal processing provides noise-avoidance techniques and predictive tracking for 10 fingers, at scan rates of up to 250 Hz with a minimum of 100 Hz each for five touches. It also combines with Microchip's [MTCH652 high-voltage line driver](#) to achieve a superior signal-to-noise ratio (SNR) for outstanding touch performance in noisy environments.

When combined with the MGC3130, the MTCH6303 solution is capable of supporting 3D air gestures up to 20 cm distance from the touch panel. Microchip's [MGC3130 E-field-based 3D tracking and gesture controller](#) includes Microchip's patented GestIC[®] technology,

allowing user input via natural hand and finger movements in free space. This unique combination empowers designers to create interface-control possibilities in two and three dimensions that differentiate their products from the competition.

The advanced capabilities of the MTCH6303 create robust, ready-to-go touch and gesture solutions for the rapid growth of human-interface applications and requirements in the **industrial** (e.g., machine control panels, HVAC controls, metering and test equipment), **home-automation** (e.g., security control panels, thermostat and lighting controls) and **office-equipment** (e.g., printers, copiers and fax machines) markets, among others.

"Microchip offers exciting new options for customers to enhance their user-interface designs with innovative gesture control and multi-touch, using the new MTCH6303 turnkey projected-capacitive touch screen controller," said Dr. Roland Aubauer, director of Microchip's Human-Machine Interface Division. "Designers can develop touch screens with noise-robust performance, fast and smooth finger tracking, high signal levels and the ability to add 3D gesturing."

Development Support

The MTCH6303 is supported by Microchip's new Multi-Touch Projected Capacitive Touch Screen Development Kit <http://www.microchip.com/DV102013-062915a> (part # DV102013, \$149.99), which is available to order today with free, downloadable software. The DV102013 incorporates the MTCH6303 projected-capacitive touch controller and the MTCH652 high-voltage driver on a controller board, and includes a transparent, 8" ITO touch panel for easy demonstration of the MTCH6303's touch-controller capabilities and supporting graphical user interface (GUI) functionality.

Microchip's free MTCH6303 GUI provides designers with complete access to the configuration and tuning parameters. Advanced visualization windows assist all user levels with easy-to-comprehend feedback, to accelerate design integration for fast time-to-market.

Additionally, Microchip empowers designers by providing access to the firmware library, to enable further customizations for maximum design flexibility and control.

Pricing & Availability

The new **MTCH6303** is available today in 64-pin QFN and TQFP packages, for sampling and volume production. Pricing starts at \$2.46 each, in 10,000-unit quantities.

The **MTCH652** is available today in 28-pin QFN, SOIC and SSOP packages, for sampling and volume production. Pricing starts at \$1.04 each, in 10,000-unit quantities.

The **MGC3130** is available today in a 28-pin QFN package, for sampling and volume production. Pricing starts at \$2.26 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/MTCH6303-062915a>. To purchase products mentioned in this press release, go to [microchipDIRECT](http://www.microchip.com/microchipDIRECT) 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: <http://www.microchip.com/Chip-Graphic-062915a>

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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-062915a>.

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