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Industry's First Automotive-Grade LIN System-in-Package Solution Including a Microcontroller with Touch Hardware Support

New SAMHA1GxxA Microcontroller Family Delivers Integrated Peripheral Touch Controller for Automotive HMI Applications

CHANDLER, Ariz., Oct 27, 2016 /PRNewswire/ -- The industry's first automotive-grade Local Interconnect Network (LIN) System-in-Package (SiP) solution including a microcontroller with integrated touch hardware support is now available from Microchip Technology Inc. (NASDAQ: MCHP), a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions. The SAMHA1GxxA microcontroller family contains capacitive touch hardware support, an event system and complex PWM capability. The series is ideal for touch button, touchpad, slider, wheel or proximity sensing applications, including optical and haptic feedback.



MICROCHIP

The SAMHA1GxxA contains an ARM[®] Cortex[®]-M0+ microcontroller (MCU), a LIN transceiver based on Microchip's fourth-generation LIN IP and a voltage regulator. The system solution comes in a 7 × 7 mm QFN package, with wettable flanks ready for automatic optical solder inspection and is available with 16k, 32k or 64k Flash memory, up to 8 KB SRAM and 2 KB Read-While-Write Flash.

The microcontroller family is automotive grade and designed to meet the high quality standards of the automotive industry. It features easy-to-create touch buttons with high sensitivity and outstanding noise immunity, supported by our QTouch[®] software function library. The high electromagnetic compatibility (EMC) robustness of the LIN communication is fulfilling the requirements of OEMs worldwide.

"The high performance and small package size of the SAMHA1GxxA microcontroller allows designers to create unique human machine interfaces in automotive and industrial applications," said Matthias Kaestner, automotive vice president. "As a leader in both automotive touch and LIN solutions, we are committed to bringing innovative, cost-effective solutions to next-generation vehicles."

For more information about Microchip's SAMHA1GxxA microcontroller family, visit:

<http://www.atmel.com/products/automotive/lin/default.aspx>

Development Support

To accelerate development for customers, Microchip provides the SAMHA1G16X-XPRO development kit, which includes support from Atmel® Software Framework (ASF). The SAMHA1GxxA device is implemented in the Atmel Studio 7 Integrated Development Environment. Various tools like GCC and IAR C/C++ compilers, ICE debuggers and a QTouch software function library are also available.

Pricing and Availability

All devices in the SAMHA1GxxA microcontroller family are offered in a 7 × 7 mm QFN package with wettable flanks. The SAMHA1GxxA is available today in volume production with prices starting at \$2.88.

For additional information, contact any Microchip sales representative or authorized worldwide distributor.

Resources

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

- Tool Photo:
<http://www.flickr.com/photos/microchiptechnology/30315516542/sizes/>

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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 www.microchip.com.

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