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World's First Safety Certified Capacitive Touchscreen Controller Family for the Home Appliance Market

Microchip's new MXT336UD-MAUHA1 family offers IEC/UL 60730 Class B pre-certified solutions for OEMs, eliminating the need for a separate emergency stop or unlock buttons on touch enabled appliances

CHANDLER, Ariz., Nov. 16, 2020 (GLOBE NEWSWIRE) -- To reduce the risk of fires in the kitchen and also floods in the laundry room, European IEC 60730 and U.S. UL 60730 Class B specifications require safety mechanisms in home appliances, such as ovens, cooktops, washing machines and clothes dryers. Helping designers meet these functional safety requirements in touch screen enabled appliances, Microchip Technology Inc. **(Nasdaq: MCHP)** today announced its maXTouch® **MXT336UD-MAUHA1 capacitive touchscreen controller family** — the market's only touchscreen controllers to offer pre-certified, Class B firmware. The family includes three controllers, the MXT112UD-MAUHA1, the MXT228UD-MAUHA1 and the MXT336UD-MAUHA1, each fulfilling different screen size needs, ranging from 2-to 8-inches.

The Class B certified touch controllers offer unique safety-related features that enable system shut off through an intuitive soft button on a touchscreen, removing the requirement for an external safety certified stop or cancel button and associated microcontroller (MCU). They also allow an appliance to detect a touchscreen or appliance failure and shut down automatically through a variety of self-testing capabilities. For example, if the glass breaks on a cooktop, the touchscreen will turn dark and shut off the machine, eliminating accidental damage in the home. As the number of touch enabled home appliances continue to increase, the MXT336UD-MAUHA1 family shifts the required safety functionality to a simplified single touchscreen interface, helping OEMs reduce costs and improve time to market.

"Due to the risk of house fires caused by home appliances, appliance manufacturers must add functional safety to their machines, and Microchip's MXT336UD-MAUHA1 touchscreen controller family is already certified for these required safety standards," said Fanie Duvenhage, vice president of Microchip's human machine interface business unit. "Integrating Class B certification into our touch controllers eases the design and qualification process for touch enabled appliances, ultimately putting safety first, while reducing costs and enabling modern user interface solutions."

In addition, this new family leverages a high signal to noise ratio (SNR) design and proprietary differential mutual acquisition scheme. This allows the machine to reliably detect and track multiple fingers on surfaces exposed to moisture, water, grease and more — even if the user is wearing gloves.

Development Tools
Software and hardware tools are available. Software tools include maXTouch Studio and maXTouch Analyzer. Hardware tools include an evaluation kit, available upon request.

Pricing and Availability
The MXT336UD-MAUHA1 family is available in volume production starting at $1.82 in 10,000-unit quantities.

For additional information, contact a Microchip sales representative, authorized worldwide distributor or visit **Microchip's website**. To purchase products mentioned here, **click to order now** or contact a Microchip authorized distributor.

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

- Kitchen application image: **https://www.flickr.com/photos/microchiptechnology/50409490386**
- Laundry room application image: **https://www.flickr.com/photos/microchiptechnology/50560164978**
- Chip image: **https://www.flickr.com/photos/microchiptechnology/50408789848**

About Microchip Technology
Microchip Technology Inc. is a leading provider of smart, connected and secure embedded control solutions. Its easy-to-use development tools and comprehensive product portfolio enable customers to create optimal designs which reduce risk while lowering total system cost and time to market. The company's solutions serve more than 120,000 customers across the industrial, automotive, consumer, aerospace and defense, communications and computing markets. 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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