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Microchip Adds MTCH2120 to its Portfolio of Turnkey Capacitive Touch Controllers

The touch controller is designed to integrate with a comprehensive ecosystem of tools to streamline development and speed time to market

CHANDLER, Ariz., Dec. 18, 2024 (GLOBE NEWSWIRE) -- Turnkey touch controllers are a fast and easy way to upgrade from mechanical buttons to modern touch buttons or displays. With the launch of its 12-button **MTCH2120 touch controller**, Microchip Technology **(Nasdaq: MCHP)** is providing designers with a straightforward pathway for implementing touch button capabilities on user interfaces. The low-power, water-tolerant turnkey touch device is integrated with Microchip's unified ecosystem, allowing for an easier design process and facilitating transitions between other turnkey solutions and MCU-based touch implementations. The MTCH2120 is the first of what will be a family of I^2C-based touch controllers with a comprehensive design-in ecosystem.

The MTCH2120 provides a robust touch experience independent of noise events and moisture, while offering high flexibility to adapt to individual product requirements. Low-power features allow buttons to be grouped, which reduces scan activity and lowers power while enabling the buttons to remain fully operational.

The MTCH2120's features and ecosystem include:

- Easy Tune feature that automatically adjusts sensitivity and filters levels based on real-time noise assessment, removing the need for cumbersome threshold tuning
- An MPLAB® Harmony Host Code Configurator plug-in that removes the need to implement the I^2C protocol on the host and allows for a straightforward connection to Microchip MCUs and MPUs
- Design validation via MPLAB Data Visualizer
- I^2C port expander capabilities
- Access to, and compatibility with, Microchip's touch library, which minimizes the need for complex software engineering and firmware handling by the designer, helping reduce design cycles
- The **MTCH2120 evaluation board**, which comes with a SAM C21 host MCU on board for out-of-the box integration into prototypes

"The MTCH2120 brings together decades of touch experience with Microchip's comprehensive ecosystem of support and development tools to deliver an easy-to-use, advanced touch experience," said Rodger Richey, vice president of development systems and academic programs at Microchip Technology. "It's a win-win solution. Developers can implement the highest level of touch robustness and great design flexibility, without the hassle of tuning or programming."

The MTCH2120 is the first in Microchip's MTCH family to incorporate I^2C, with the recently released MTCH1010, MTCH1030 and MTCH1060 offering the same robust touch performance and an uncomplicated GPIO interface. The MTCH2XXX family will add more solutions with bus-controlled flexibility, making the ease of use provided by the design-in ecosystem available to additional markets. Visit the website to learn more about Microchip's full portfolio of **turnkey touch solutions**.

Pricing and Availability
For additional information and to purchase, contact a Microchip sales representative, authorized worldwide distributor or visit Microchip's Purchasing and Client Services website, **www.microchipdirect.com**.

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

- Application image: **https://www.flickr.com/photos/microchiptechnology/54177833917/sizes/l**

About Microchip Technology:
Microchip Technology Inc. is a leading provider of smart, connected and secure embedded control and processing 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 100,000 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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