January 27, 2026

Microchip Expands maXTouch® M1 Touchscreen Controller Series for Broader Display Size Coverage

New Touch controllers bring reliable touch sensing to both very small and very large display formats in modern automotive applications

CHANDLER, Ariz., Jan. 27, 2026 (GLOBE NEWSWIRE) -- Microchip Technology **(Nasdaq: MCHP)** has again expanded its **maXTouch® M1** family of touchscreen controllers to bring reliable and secure touch detection to an even greater range of automotive displays, now covering free-form widescreen format displays up to 42 inches down to small compact screens in the 2 to 5 inch range. The **ATMXT3072M1-HC** and **ATMXT288M1** products are designed to work with a wide variety of display sizes, while supporting emerging technologies such as Organic Light Emitting Diodes (OLEDs) and microLEDs.

The M1 controllers utilize Microchip's proprietary Smart Mutual touch acquisition scheme and advanced algorithms to boost the touch Signal-to-Noise Ratio (SNR) by up to 15 dB compared to previous generations. Smart Mutual technology is engineered to deliver reliable touch detection even on integrated touch sensors exposed to high capacitive loads and significant display noise coupling. This capability is particularly critical for large, thin displays such as on-cell OLEDs, where embedded touch electrodes are subjected to higher capacitive loads and increased noise coupling, raising the risk of false or missed touch detections with other capacitive solutions.

"Fueled by evolving user expectations and the rise of software-defined vehicles, automotive cockpit displays are rapidly changing, and OEMs are pushing the boundaries in size, shape and technology to deliver more immersive and intuitive user experiences," said Giovanni Fontana, director of Microchip's human machine interface division. "This expansion of our maXTouch M1 family addresses the complexities of integrating touch into these next-generation displays, offering robust and secure touch detection for a diverse array of formats."

The ATMXT3072M1-HC is designed for large, continuous touch sensor designs that cover both the cluster and center information display (CID), addressing the needs of left-hand and right-hand drive vehicles with a single hardware design. This can help eliminate the need for dedicated hardware designs by the OEM and simplify global automotive market support. The continuous touch sensor design maintains uniform optical properties regardless of the ambient lighting environment. The host-client ATMXT3072M1-HC solution appears as a single maXTouch device to the host MCU, streamlining system design by removing the need for an external MCU to merge touch coordinates; maXTouch client interaction is managed by the maXTouch host device.

For small screens, the ATMXT288M1 is designed to meet the increasing demand for compact automotive display solutions, such as traditional analog clocks and AI driver

assistants, where physical space constraints are critical. A Thin Profile Fine-Pitch Ball Grid Array (TFBGA60) package delivers a 20 percent reduction in printed circuit board (PCB) area compared to the previous smallest automotive-qualified maXTouch product. Notably, the ATMXT288M1 is the first TFBGA package introduced in the M1 family, making it well suited for space-sensitive applications utilizing OLED/microLED technologies.

Visit the website to learn more about Microchip's **maXTouch M1 generation** of touchscreen controllers.

Development Tools
ATMXT3072M1-HC and ATMXT288M1 touchscreen controllers are supported by Microchip's maXTouch ecosystem including the maXTouch Studio Integrated Development Environment (IDE) for development and maXTouch Analyzer (MTA) for production line testing. Host software driver support is available for a variety of RTOS platforms, including Linux®, Android™, Windows®, AliOS, Automotive QNXT™ and Zephyr®.

Pricing and Availability
For pricing and sample orders please contact a Microchip **sales representative or authorized worldwide distributor**.

Resources
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