



March 22, 2017

Cypress Expands Family of Automotive Touchscreen Solutions with Industry-Leading Performance

New CYAT8165X Controllers Deliver Best-in-Class Electromagnetic Immunity, Waterproofing and Glove Touch Performance

SAN JOSE, Calif., March 22, 2017 /PRNewswire/ -- Cypress Semiconductor Corp. (NASDAQ: CY) today expanded its automotive solutions portfolio with a capacitive touchscreen controller that delivers best-in-class waterproofing, glove touch and resistance to electromagnetic interference. The EMI resistance is driven by Cypress' proprietary AutoArmor™ technology. The new Automotive TrueTouch® CYAT8165X controllers, which target screens up to 8.5 inches, join a portfolio that includes Cypress' Automotive TrueTouch CYAT8168X controllers, for screens up to 15 inches.



"The Automotive TrueTouch CYAT8165X touchscreen controller family delivers a flawless user experience under the broad range of harsh automotive environments in next-generation vehicles," said Dr. Jing Mu, Senior Director of Automotive HMI Marketing for Cypress. "Our TrueTouch solutions combine with Cypress's wireless connectivity solutions and automotive MCUs and memories to form the industry's broadest automotive portfolio, helping our customers to consolidate their supply chains and accelerate their time to market."

Cypress AutoArmor meets car manufacturers' most challenging electromagnetic compatibility (EMC) (CISPR 25) specifications and requirements for chip-level emissions (IEC 61967), conducted (IEC 62132) and radiated (ISO 11452) immunity. AutoArmor uses automatic frequency hopping to prevent false touches caused by EMI from other electronic systems, and it uses TX frequency spreading to reduce electromagnetic emissions. More information on Automotive TrueTouch is available at <http://www.cypress.com/automotivetouch/CYAT8165X>.

The Automotive TrueTouch CYAT8165X controller family delivers best-in-class accuracy and linearity for fingers of different sizes and gloves of various materials and thicknesses, including ski gloves, and automatically switches between glove and finger tracking without requiring the drivers to switch settings. The controllers include up to 48 I/Os with a host processor interface through I²C or SPI, which help improve touchscreen responsiveness. With Cypress' patented DualSense™ technology to execute both self-capacitance and mutual-capacitance measurements in the same device, the family offers the industry's best water rejection and wet finger tracking for seamless performance in real-world conditions, including the presence of water droplets, condensation, or sweat. The TrueTouch portfolio's unique features are backed by an industry-leading portfolio of more than 200 capacitive touch sensing patents.

Automotive TrueTouch CYAT8165X controllers are based on a 32-bit ARM® Cortex® M-Core processor that is known for high-efficiency MIPS/mW.

Availability

The Automotive TrueTouch CYAT8165X controllers are currently sampling, with AEC-Q100 fully automotive-qualified

products expected in the first quarter of 2017. The controllers are available in automotive-friendly 100-pin TQFP packages.

About TrueTouch

Cypress' TrueTouch technology provides the industry's best noise immunity, highest SNR, best waterproofing, fastest refresh rates, lowest power consumption, and world's best accuracy and linearity. The flexible TrueTouch solution allows customers to rapidly develop leading-edge solutions without having to buy turnkey modules. They have a choice of using touch sensors (glass or film) and LCDs from preferred partners, and can develop innovative mechanical designs ranging from flat to curved surfaces of varying thickness. The patented capacitive sensing technology of TrueTouch devices offers robust noise immunity that enables flawless operation in noisy RF and LCD environments.

Follow Cypress Online

Join the [Cypress Developer Community](#), read our [Core & Code](#) blog, follow us on [Twitter](#), [Facebook](#) and [LinkedIn](#), and watch Cypress videos on our [Video Library](#) or [YouTube](#).

About Cypress

Founded in 1982, Cypress is the leader in advanced embedded system solutions for the world's most innovative automotive, industrial, home automation and appliances, consumer electronics and medical products. Cypress' programmable systems-on-chip, general-purpose microcontrollers, analog ICs, wireless and USB-based connectivity solutions and reliable, high-performance memories help engineers design differentiated products and get them to market first. Cypress is committed to providing customers with the best support and engineering resources on the planet enabling innovators and out-of-the-box thinkers to disrupt markets and create new product categories in record time. To learn more, go to www.cypress.com.

Cypress, the Cypress logo and TrueTouch are registered trademarks and AutoArmor and DualSense are trademarks of Cypress Semiconductor Corp. All other trademarks are property of their owners.



To view the original version on PR Newswire, visit:<http://www.prnewswire.com/news-releases/cypress-expands-family-of-automotive-touchscreen-solutions-with-industry-leading-performance-300427558.html>

SOURCE Cypress Semiconductor Corp.

News Provided by Acquire Media