MARKET NEWS

New Automotive PSoC™ Multitouch controller supports OLED and ultra-large screens with superior touch performance

Munich, Germany – 14 October 2024 – In the ever-evolving automotive industry, users demand a seamless Human-Machine-Interface (HMI) experience for their infotainment application. Customers are looking for large touchscreens with advanced features and are venturing into OLED and Micro OLED as their choice of display. OLED is seen as the future of smart mobility applications, enabling flexible design and free-form shapes. Best customer experience coupled with functional safety standards must go hand in hand to provide a seamless journey for the end user. To address these challenges, Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) introduces the Automotive PSoC™ Multitouch GEN8XL (IAAT818X), a new generation of touch controllers. Designed for OLED and micro-LED displays up to 24 inches, the touch controller delivers performance and frame rates that meet today's demands. It ensures a seamless user experience on various touch-based interfaces, such as touchscreens, touchpads, and sliders, while meeting the rigorous automotive standards for electromagnetic compatibility (EMC IEC 61967), including chip-level emission, conducted emission (IEC 62132), and radiated emission (ISO 11452).

The PSoC Automotive Multitouch GEN8XL is AEC-Q100 qualified as well as Auto-SPICE level 3 and ASIL-B compliant. It is offered in two different packages, 128-pin and 100-pin TQFP. The touch controller operates reliably despite water droplets, condensation or sweat and enables users to perform touch operations with gloves up to 4mm. The touch controller's design allows for scalability to accommodate larger screen sizes, with the possibility of supporting screens up to 55 inches via the implementation of multi-chip architectures. It also supports advanced add-on features like rotary dial and built-in haptics.

Infineon offers a comprehensive support package, including application firmware, design guidance for sensor and Flexible Printed Circuit (FPC), as well as a touch tuning host emulator (TTHE) tuning, to facilitate seamless integration and production.

Availability

The Automotive PSoC Multitouch GEN8XL (IAAT818X) is expected to go into production in Q4 2025, samples are available now. More information is available at www.infineon.com/psocmultitouchgen8.

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A demo of the new controller will be showcased at Infineon's global technology forum OktoberTech™ 2024 in Silicon Valley on 17 October and at electronica 2024 in Munich from November 12 to 15 (hall C3, booth 502).

About Infineon

Infineon Technologies AG is a global semiconductor leader in power systems and IoT. Infineon drives decarbonization and digitalization with its products and solutions. The company has around 58,600 employees worldwide and generated revenue of about €16.3 billion in the 2023 fiscal year (ending 30 September). Infineon is listed on the Frankfurt Stock Exchange (ticker symbol: IFX) and in the USA on the OTCQX International over-the-counter market (ticker symbol: IFNNY).

Further information is available at www.infineon.com
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