AUTOSAR Integrated With MOST® Infotainment and Advanced Driver Assistance Networking Technology

Bosch Subsidiary ETAS Demonstrates Automotive Industry Standard AUTOSAR Solution for Connecting With a MOST Network Using Microchip's Devices

CHANDLER, Ariz., July 7, 2015 /PRNewswire/ -- Microchip Technology Inc. (NASDAQ: MCHP), a leading provider of microcontroller, mixed-signal, analog and Flash-IP solutions, today announced that designers using the Automotive Open System Architecture (**AUTOSAR**) to develop and reuse their in-vehicle software can now connect their systems to not only networking technologies such as CAN and LIN, but also to the **MOST® Cooperation's** automotive-proven MOST networking technology. This means that Microchip's **MOST Intelligent Network Interface Controllers** (INICs) can be used for cross-domain communication in an AUTOSAR system, such as Advanced Driver Assistance Systems (ADAS), which simplifies automotive networking and diagnostics.

To learn more about Microchip's MOST networking products, visit **http://www.microchip.com/INICs-070715a**.

AUTOSAR has developed a standardized, open software architecture for automotive electronic control units, which is increasingly being applied in traditional vehicle electronic domains. For example, after the major German vehicle OEMs successfully utilized AUTOSAR in the central areas of their electrical/electronics architectures, they are now extending its use into additional domains. With the introduction of the AUTOSAR 4.x standard, most other OEMs are now also investigating or actively migrating to AUTOSAR. Therefore, it is increasingly important that the infotainment domain of a vehicle is able to support AUTOSAR, at least where an interaction with other domains is necessary.

"ETAS successfully developed a concept study and demonstration that integrates key elements of MOST technology into AUTOSAR," said Dr. Alexander Leonhardi, senior manager at **Bosch subsidiary ETAS**. "There are several use cases where it is useful for MOST technology and AUTOSAR to interoperate."

To date, more than 170 million MOST interface controllers have been installed in 184 car models since 2001. All major carmakers have for many years successfully implemented MOST technology in their multi-node infotainment networking systems, as it provides a field-proven, low-risk, whole-system solution. The MOST150 standard also meets designers' Internet-connectivity requirements. This latest version of MOST technology continues to predictably and efficiently transport video, audio, packet and control data throughout the vehicle without time-synchronization protocols, using dedicated channels for minimal processor overhead in the main infotainment control unit processors.

MOST150 also provides 150 Mbps performance and proven electromagnetic-compatibility (EMC) behavior. All MOST INICs offer industry-standard hardware interfaces to processor and peripheral devices for the efficient routing of streaming, packet and control data, which greatly simplifies module designs. End users can immediately access the vehicle's infotainment system, due to the MOST INIC's ultra-fast network startup behavior.

The MOST Cooperation standards enable automotive OEMs and their Tier 1 suppliers with a proven and well-supported methodology for defining and implementing high-bandwidth infotainment and ADAS systems, including a standard physical layer and a robust method for system management and control with superior reliability and Quality of Service (QoS). Using MOST technology also results in reduced weight for easier compliance with environmental regulations.

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