Press release on the EMC^2 research project

Press Release

Europe Researches Embedded Systems: Key Project "EMC^2" Dedicated To Expanding European Embedded Expertise Is Headed by Infineon

Neubiberg, Germany – September 18, 2014 – Europe has started the research project "EMC^2", which is intended to increase the performance and efficiency of embedded systems for the automotive and manufacturing industries, the Internet of Things, healthcare and aerospace. With a budget of around Euros 90 million, EMC^2 is one of the most important subsidized European projects and includes 99 partners from 19 countries. The three-year EMC^2 project is being funded by Artemis Joint Undertaking, now part of the ECSEL Joint Undertaking, and 19 national funding organizations. Infineon Technologies is the project coordinator. The EMC^2 project is intended to simplify and strengthen the use of embedded systems. It is set to end in March 2017. EMC^2 is part of the "European Embedded Systems" industrial program, which is designed to help Europe maintain its leadership position in embedded systems.

The term "embedded systems" refers to systems that are incorporated into larger systems. Examples include the motion control in a robot arm that is integrated – that is to say "embedded" – into a production line, or engine control units of a car. In addition to manufacturing equipment and vehicles, embedded systems can be found virtually everywhere; in households (such as washers or dryers), airplanes, trains and large-scale medical equipment. A medium-sized car, for example, currently contains about 80 embedded systems, all of which must work reliably over the vehicle's entire lifetime; in an airplane more than 100 even higher integrated systems are embedded, and in manufacturing facilities the number of embedded systems may range into the thousands.

Relevance of EMC^2 research project and its goals

Embedded systems are controlled, regulated and monitored by powerful microcontrollers with multiple processing units, the so-called cores. Infineon's microcontroller family AURIX™, for example, currently has up to five cores.

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Embedded systems are becoming increasingly complex. Being the intelligence of so-called Cyber Physical Systems (CPS) they enhance or even replace simple electro-mechanical devices. In addition, the future will see more and more networks of embedded systems. As a consequence, microcontrollers in these embedded systems will be responsible for many more tasks, and will have to be much faster and even more reliable than today. Their real-time capability will thus have to improve drastically.

This is where EMC^2 comes in. The project partners want to lay the foundations for a new microcontroller architecture which is so flexible and reliable that it can be used in all application areas relevant for the European industries; mainly automotive, industrial manufacturing and logistics, Internet of Things, healthcare and aerospace. The aim of EMC^2 is to reduce the cost of system design as well as the needed development time by 15 percent each. Another goal is to reduce the time and effort for system validation to an even greater degree.

Further information on the EMC^2 project is available at www.artemis-emc2.eu

About Infineon Technologies AG

Infineon Technologies AG, Neubiberg, Germany, offers semiconductor and system solutions addressing three central challenges to modern society: energy efficiency, mobility, and security. In the 2013 fiscal year (ending September 30), the company reported sales of Euro 3.84 billion with close to 26,700 employees worldwide. Infineon is listed on the Frankfurt Stock Exchange (ticker symbol: IFX) and in the USA on the over-the-counter market OTCQX International Premier (ticker symbol: IFNNY).

Further information is available at www.infineon.com
This news release is available online at www.infineon.com/press

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