

NEC Electronics and Vector Collaborate on new AUTOSAR

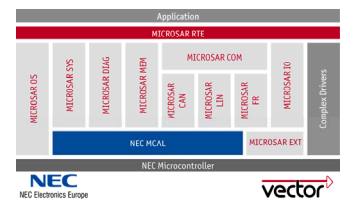
3.0-Compatible Solution

Optimal support for NEC microcontroller

Düsseldorf and Stuttgart (Germany), Kawasaki (Japan), Santa Clara (USA), September 7, 2009 – NEC Electronics Corporation and Vector today announced the availability of an AUTOSAR 3.0 compatible software package for various hardware platforms. This software package enables easy design of application software without the need for new developments. The package includes AUTOSAR Basic Software and a comprehensive tool chain. The solution was developed under close cooperation between the two companies.

An automotive supplier receives all hardware independent AUTOSAR basic software modules from Vector, including the operating system, memory management and communication functions for FlexRay systems, and CAN and LIN bus systems. Additionally an easy-to-use and well-proven tool-chain for application design, configuration, and generation of AUTOSAR Software is also available. NEC Electronics supplies the specified AUTOSAR Microcontroller Abstraction Layer (MCAL), which is completely optimized on hardware from NEC Electronics and acts as an interface between the HW-independent basic software and hardware.

"We are convinced that our collaboration enables us to support our customers with innovative and efficient AUTOSAR solutions today and in the future" said Hiroaki Kaneko, general manager of the Automotive Systems Division, NEC Electronics Corporation. "Our customer's satisfaction is proof of our strategy to search for new and improved features that speed up and simplify AUTOSAR integration". "The availability of a seamless tool chain from high level system and application design down to optimized hardware-



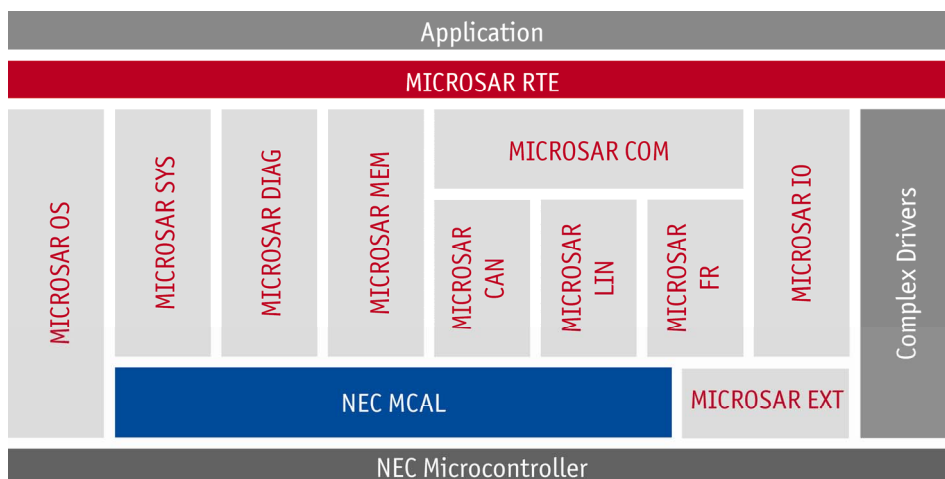
dependent MCAL software simplifies and accelerates the integration process for the Electronic Control Unit manufacturers” says Volker Ebner, Director Embedded Software at Vector. “A reduction of cost is - among many others - the most important aspect for our customers.”

The AUTOSAR standard clearly defines the software interfaces and unifies them for all manufacturers and is continuously developed by a development partnership of leading automotive manufacturers, semiconductor manufacturers and suppliers. Current versions available are Version 3.0 and 3.1.

More information can be found on www.eu.necel.com/autosar.

Availability

The AUTOSAR 3.0-compatible solution is currently available for NEC Electronics’ V850E/PHO3 and V850ES/Fx3 microcontrollers.



NEC Electronics Europe



[Figure: NEC Electronics Corporation and Vector developed in close cooperation a comprehensive software package for AUTOSAR 3.0/3.1]

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About Vector Group (Revised: 200-09-01):

Vector is the leading manufacturer of software tools and software components for networking of electronic systems based on CAN, LIN, FlexRay, MOST as well as multiple CAN based protocols. The Vector know-how is reflected in a wide range of tools as well as in integrated consulting services with software and systems engineering. Workshops and seminars complete the manifold training program.

Customers from the automotive engineering, the commercial vehicle, transportation and control technologies around the world trust in the solutions and products from the independently-owned Vector Group.

Vector Informatik GmbH was founded in 1988. About 880 employees work for Vector Informatik and Vector Consulting Services in Stuttgart or in one of the subsidiaries in USA, Japan, France, Great Britain, Sweden, the Republic of Korea and India. The group's revenue in 2008 was 131 million Euros.

About NEC Electronics Corporation

NEC Electronics Corporation (TSE: 6723) specializes in semiconductor products encompassing advanced technology solutions for the high-end computing and broadband networking markets; system solutions for the mobile handset, PC peripheral, automotive and digital consumer markets; and multi-market solutions for a wide range of customer applications. NEC Electronics Corporation has subsidiaries worldwide including NEC Electronics America, Inc. (www.am.necel.com) and NEC Electronics (Europe) GmbH (www.eu.necel.com). More information about NEC Electronics worldwide can be found at www.necel.com.

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