

**NEC Electronics Europe and Vector Informatik release complete AUTOSAR software stack based on combined hardware and software know-how**

***Seamless Support for Customers in Europe and the Americas Available  
To Assist AUTOSAR Adopters***

**DUESSELDORF and STUTTGART (Germany), SANTA CLARA, Calif. (U.S.A.), September 3 2007** – NEC Electronics Europe and Vector Informatik have introduced a complete AUTOSAR software stack for NEC Electronics' V850ES/Fx3™ and V850E/PHO3™ microcontrollers, based on NEC Electronics' 32-bit V850™ CPU core.

NEC Electronics' microcontroller abstraction layer (MCAL) software contains all AUTOSAR device driver and interface modules. To match the exceptional quality standards of the hardware, the MCAL software was developed using best-in-class software processes certified to CMMI Level 5 and SPICE Level 3.

Vector incorporated NEC Electronics' device driver modules into its AUTOSAR solution, which consists of the remaining basic software modules, from operating system through memory management to communication. The tool of choice for this integration is Vector's MICROSAR configuration suite thanks to its efficacy in integrating third-party components. Continuous cross checks and validation during the development process ensure integration without any loss in quality.

The joint AUTOSAR solution from NEC Electronics and Vector Informatik GmbH is customer oriented and is a seamless system with coordinated basic software modules optimized for microcontroller hardware.

Gerd Look, General Manager Automotive Business Group at NEC Electronics Europe, states that "as a semiconductor vendor, NEC Electronics knows its own microcontroller hardware best. It stands to reason that NEC Electronics supplies the hardware-dependent software modules. This ensures best-in-class software implementation for our microcontrollers, minimizing memory usage and maximising performance."

The first vehicle manufacturers planning to introduce the AUTOSAR software as a software standard for vehicle platforms are expected to begin mass production around 2010. The combination of the AUTOSAR basic software (BSW) and run-time environment (RTE) from Vector Informatik and the MCAL from NEC Electronics merges hardware and software know-how to create a complete product optimized for NEC Electronics microcontrollers.

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## **Availability**

NEC Electronics' V850ES/Fx3 and V850E/PHO3 microcontrollers with the AUTOSAR software stack are currently available, and additional devices are scheduled to be available soon.

## **About NEC Electronics**

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 handsets, PC peripherals, automotive and digital consumer markets, and multi-market solutions for a wide range of customer applications. NEC Electronics Corporation has 25 subsidiaries worldwide including NEC Electronics America, Inc. ([www.am.necel.com](http://www.am.necel.com)) and NEC Electronics (Europe) GmbH ([www.eu.necel.com](http://www.eu.necel.com)). For additional information about NEC Electronics worldwide, visit [www.necel.com](http://www.necel.com).

## **About Vector Informatik GmbH**

Vector Informatik is the leading producer of software tools and components for networking in electronic systems based on CAN, LIN, FlexRay and MOST as well as a number of CAN-based protocols. This know-how is conveyed in the form of products or as a comprehensive consultation package with system and software engineering. Workshops and seminars round out our multifaceted training program. Worldwide customers in the automotive, heavy-duty vehicle, transport and control engineering fields rely on solutions and products from the independently-owned Vector Group. Vector Informatik, founded in 1988, currently employs 750 people together with Vector Consulting GmbH and in the year 2006 achieved sales of 105 million euros. In addition to its headquarters in Stuttgart, Vector Informatik also has an international presence with subsidiaries in the USA, Japan, France and Sweden.

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V850ES/Fx3, V850E/PHO3 and V850 are trademarks of NEC Electronics Corporation.

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