

NEC Electronics Europe introduces “Touch-it!” Development Kit for touch-controlled TFT project development

Combining semiconductor and TFT-LCD portfolio provides a unique single source solution

DUESSELDORF (Germany), February 5, 2007 — NEC Electronics Europe announces its new Touch-it! Development Kit, designed to make touch-controlled TFT project development as easy as possible. The box includes everything required to get going immediately, such as 32-bit V850 All Flash microcontroller with large embedded Flash memory, TFT-LCD controller / driver, the 3.5” colour TFT itself, including built-in touch-screen, plus RTOS, graphics libraries and software examples. To enable future expansion and upgrades, the kit has also been designed in a modular way so that additional boards may be connected for extra functionality.

At the heart of the system is an NEC Electronics V850ES/JG2 All Flash 32-bit microcontroller, offering 20MHz performance, 640K Flash, 48K RAM and an abundance of general purpose peripherals. Memory sizes from 64K Flash with 6K RAM up to a huge 1M Flash with 60K of RAM are available in the V850 All Flash family, so the actual device used in the final design can easily be tailored exactly to the end application’s functionality and graphics output requirements. An external bus interface is also provided, enabling additional external memory or graphic controller IC’s to be connected.

The kit is supplied with NEC’s new NL2432HC22-41K 3.5” transfective Quarter VGA colour LCD-TFT module, which includes driver LSI’s for the TFT array, touch screen and backlight and is qualified to industrial specifications. As well as offering low power, high luminance, and high contrast, the display is based on NEC’s unique Super-Reflective Natural Light TFT Technology (SR-NLT) for optimum performance in any light environment. Connectors are also provided on the board making it easy to switch to larger displays if desired.

The system software is based on NEC Electronics’ partner Segger’s popular embOS Real Time Operating System (RTOS), offering the benefits of a fully featured multitasking system for graphics, touch screen / user input and any communications to other boards, and the Segger emWIN graphics library, probably the most efficient and comprehensive embedded GUI available to handle character and graphic display routines, fast drawing of circles and polygons, string / value output routines, management of multiple windows, optional widgets for a PC-style look and feel, and touch screen support. Demonstration versions are supplied, as well as an appetiser version of the IAR Workbench ‘C’ compiler suite, and application as well as function-based program examples.

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Combining semiconductor and TFT-LCD portfolio provides NEC Electronics with a unique single source solution, with expertise spanning across products and technologies to provide a complete platform offering, including software, from just one supplier.

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About NEC Electronics (Europe) GmbH

NEC Electronics (Europe) GmbH, headquartered in Duesseldorf, Germany, is a leading developer and supplier of semiconductor products in Europe. Committed to meeting customers' cost, performance and time-to-market requirements, the company offers solutions ranging from standard products to system-on-a-chip (SoC) solutions, as well as customized products for next-generation designs. Our customers also benefit from state-of-the-art manufacturing from the global production network of our parent company, NEC Electronics Corporation. Additionally, NEC Electronics (Europe) GmbH is the exclusive European sales and marketing channel of LCD modules from NEC LCD Technologies Ltd.. For more information visit <http://www.eu.necel.com>.

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