Brother Industries Selects eSOL's RTOS-based Software Platform for its Sewing and Embroidery Machine "Innov-is XV"

Innov-is XV

Tokyo, Japan. November 5, 2014 – eSOL, a leading developer of real-time embedded software solutions, announced today that Brother Industries, Ltd. has adopted eSOL's eT-Kernel RTOS-based software platform for use in its highly functional sewing and embroidery machine for overseas markets, the "Innov-is XV"(European model). The eT-Kernel Platform consists of the eT-Kernel real-time operating system (RTOS), the eBinder IDE, middleware components – file systems, USB stacks, network protocols, and GUI – backed by professional services. The eT-Kernel Platform helped developers to efficiently develop software while ensuring high real-time capabilities and quality.

The Innov-is XV is a highly functional sewing and embroidery machine equipped with a high-resolution LCD touch screen, intelligent camera eye system for easier embroidery positioning and more. A number of on-screen video tutorials and more than 1,500 built-in stitch patterns make it easier for beginners to fully utilize the machine. Embroidery data

can be created in many ways: from scanning handwriting characters or the user's own drawings by its camera, or sending JPEG images from a USB device, or even drawing directly on the touch screen. The users can choose their favorite color palette for the embroidery, which leads to creating infinite unique embroidery designs. The Innov-is XV also has useful functions such as MPEG4 video replay, language switching to any of the built-in languages, and clock display.

The eT-Kernel/POSIX RTOS, the eBinder IDE, the PrFILE2 file system, and the USB stacks were used to develop the Innov-is XV. The eT-Kernel/POSIX is an enhanced POSIX-compliant RTOS, and enables developers to ensure high real-time performance while reusing software assets and widely available commercial/open source software developed for UNIX-based OSs, including Linux. The eBinder IDE facilitates the efficient development of high-quality software. Developers can build their original eT-Kernel Platform to match their system needs by combining the eT-Kernel/POSIX, tightly integrated with the eBinder IDE, and necessary middleware components and device drivers.

The eT-Kernel Platform is used worldwide and is known for proven reliability and quality. In addition to this highly functional sewing and embroidery machine, it is used in other digital consumer products such as game consoles and mobile phones, in-vehicle infotainment systems including car navigation and car audio, and office automation equipment.

“We are pleased to announce that Brother Industries selected our eT-Kernel Platform for the Innov-is XV,” said Hiroaki Kamikura, General Manager of the Embedded Products

Division, eSOL. “eSOL’s eT-Kernel Platform, consisting of the RTOS, development tools and middleware components, has been adopted in a wide variety of consumer products including sewing machines. We consider that its high reliability and functionality contributed to Brother Industries selecting our software platform for use in their product. eSOL will provide comprehensive support for software development for embedded use through offering embedded software products and professional services.”

About eSOL

eSOL is a leading embedded software developer that enables customers to accelerate development of applications based on high-end single-core, multi-core, and many-core embedded processors. eSOL’s advanced, scalable, multi-profiled real-time operating systems are tightly integrated with development tools and middleware components to create flexible development platforms used by OEMs and ODMs worldwide, in competitive vertical markets such as automotive, consumer electronics, industrial and medical equipment, and aerospace. Founded in 1975, eSOL is based in Tokyo, Japan.

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