

eSOL's eT-Kernel RTOS Evaluation Kit

Launched for Xilinx Zynq-7000 All Programmable SoC

Complimentary for a 30-day Evaluation of the Zynq-7000 All Programmable SoC Device with the Dual-core ARM Cortex-A9 MPCore Processor and eT-Kernel

Tokyo, Japan. July 24, 2014 – eSOL, a leading developer of real-time embedded software solutions, has started offering the eT-Kernel Evaluation Kit for Xilinx® Zynq-7000 All Programmable SoC, which combines the dual-core ARM Cortex-A9 MPCore processor with Xilinx's 28nm programmable-logic fabric. The Evaluation Kit integrates eSOL's eT-Kernel Multi-Core Edition real time operating system (RTOS), its dedicated eBinder Integrated Development Environment (IDE), middleware components, and device drivers. This complimentary 30-day Evaluation Kit permits developers to easily and quickly evaluate the performance and quality of Xilinx Zynq-7000 All Programmable SoC and eT-Kernel. Since eT-Kernel inherited the functions and architecture of uTRON, the most popular RTOS in Japan and Asian countries, developers can reuse their uTRON-based software assets without further work.

Runtime software in the Evaluation Kit includes the eT-Kernel Multi-core Edition, eSOL's PrFILE2 FAT file system, the SD memory card driver, and the HDMI display driver, all of which are integrated and immediately run on the Zynq-7000 All Programmable SoC Evaluation Board. The eBinder IDE is available for eT-Kernel Multi-Core Edition-based software development. Besides ARM's genuine compiler, eBinder offers various development tools and functions to strongly support multi-programming, debugging, and analysis for complex multi-core software development.

Zynq-7000 All Programmable SoC tightly integrates two ARM Cortex-A9 MPCore processors and FPGA fabric. The hardware and software programmability of Zynq-7000 AP SoC enables system development with high performance, flexibility, and scalability, while achieving lower power consumption and cost. The eT-Kernel/Zynq-7000 All

Programmable SoC Evaluation Kit allows developers to jump-start their evaluation using packaged device drivers, which saves the time and money of developing them. Zynq-7000 All Programmable SoC and the eT-Kernel Platform are an ideal combination for advanced embedded systems in the automotive, industrial, and medical arenas, including Automotive Driver Assistance Systems (ADAS), high-resolution graphic systems, machine vision systems, and network systems.

eSOL has been an active member of the Xilinx Alliance Program. eSOL has a deep knowledge of ARM MPCore processors based on their wide experience in supporting various ARM-core processors. eSOL is committed to strongly back up software engineers using the Zynq-7000 All Programmable SoC-based systems with their expertise in operating systems.

“eSOL has been one of our strategic partners as an operating systems vendor,” said Dave Tokic, Senior Director of Partner Eco System and Alliance, of Xilinx Inc. “eSOL’s eT-Kernel/Zynq-7000 All Programmable SoC Evaluation Kit would promote potential Zynq-7000 AP SoC users to evaluate it at lower cost. We find that the eT-Kernel Multi-Core Edition maximizes the benefit of the integrated ARM MPCore processors. The tightly coupled eBinder IDE would facilitate complex multi-core software development. We will continue to closely partner with eSOL to support software developers of the Zynq-7000 All Programmable SoC systems.”

“The eT-Kernel Multi-Core Edition has been selected worldwide for a variety of multi-core systems since its release in 2006,” said Hiroaki Kamikura, General Manager of the Embedded Products Division, eSOL. “The eT-Kernel/Zynq-7000 All Programmable SoC Evaluation Kit would be an excellent means to evaluate real-time capability and reliability of the eT-Kernel Multi-Core Edition for free for 30 days. Even after the evaluation phase, we will be a reliable OS partner to help developers to benefit from Zynq-7000 All Programmable SoC in commercial projects, since we have experience and technical skills in a wide range of embedded systems, and an ability to meet developers’ various

needs.”

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. These are used in competitive vertical markets such as automotive, consumer electronics, industrial and medical equipment, and aerospace. Founded in 1975, eSOL is based in Tokyo, Japan.

For more information, please visit <http://www.esol.com/>

Notes

* The supported target boards for this evaluation kit are Xilinx Zynq-7000 All Programmable SoC ZC702 Evaluation Kit and the ZedBoard. The boards are not included in this evaluation kit, and are available through Xilinx’s authorized distributors.

** The contents of the package may differ from Japan and abroad.