

LynxOS-SE Supports ARM Cortex-A8 on a TI OMAP 3 for Secure Mobile Applications



LynuxWorks, Inc., a world leader in the embedded software market, today announced that its LynxOS-SE operating system supports the ARM Cortex-A8 processor, with the first port on the Texas Instruments OMAP 3 platform. Designed for portable and mobile applications, OMAP 3 is the first family of multimedia application processors to integrate the superscalar ARM Cortex-A8 processor.

“We are seeing increased demand from our aerospace and defense customers for low power/high performance processor support. Particularly, there is interest in the ARM processor-based platforms which are ideally suited for mobile applications such as software defined radio and man-wearable systems,” said Robert Day, vice president of marketing, LynuxWorks. “Similarly, customers in other segments such as medical also need the utmost security, performance, and power efficiency for applications such as patient monitoring and analysis systems.”

LynxOS-SE 5.1 is the first and only time- and space-partitioned RTOS with the ability to run POSIX and ARINC 653 applications simultaneously. Designed to meet the most stringent requirements for secure real-time mission-critical applications, LynxOS-SE allows developers to quickly benefit from an out-of-the-box hardware/software solution that is optimized for the harshest environments. It offers a single, powerful solution for real-time systems that cannot afford downtime. The operating system provides open APIs including full POSIX conformance, medium-assurance security per the general purpose operating-system-protection profile (GPOSP), and an advanced set of networking features for uncompromised performance.

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“The porting of secure operating systems such as LynxOS-SE helps to extend the security functionality of ARM processor-based devices,” said Haydn Povey, director of Product Marketing, Processor Division, ARM. “It will also allow embedded developers in other industry segments such as military and medical to take advantage of the low power characteristics that are inherent in the ARM architecture, without sacrificing security requirements.”

LynxOS-SE 5.1 currently supports the OMAP3430 and OMAP35x processors. These are the first OMAP 3 series processors designed to enable faster user interfaces, faster data access and to run high-quality productivity applications on a mobile platform, while maintaining power efficiencies expected in a wireless handset or mobile device.

Customers who purchase LynxOS-SE with the ARM Cortex-A8 processor port will get access to a pre-built LynxOS-SE platform that has been pre-compiled, integrated, and tested for the Mistral OMAP35x EVM Development Platform, which is a commercial platform that houses the OMAP 3 processor.

For more information, visit www.linuxworks.com.

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