SEGGER emPower OS Enables On-Going Production During Chip Shortages

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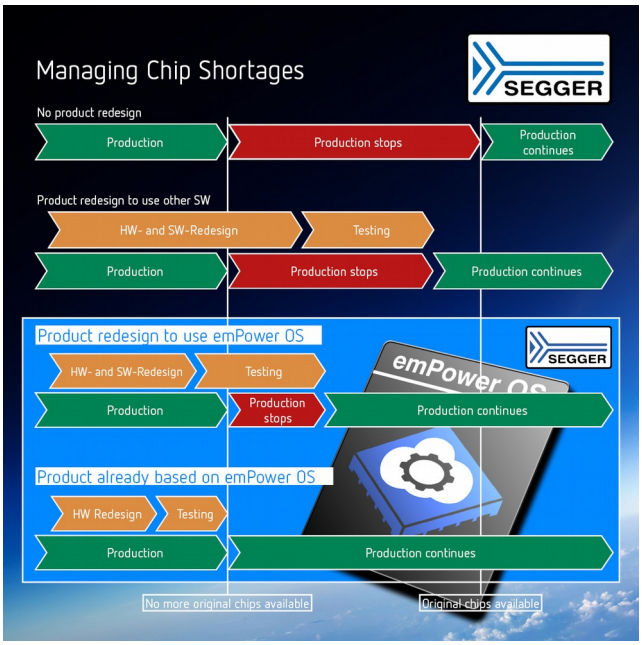
SEGGER introduces its all-in-one embedded operating system emPower OS. It uses proven components from the software toolbox that already lays the groundwork for many customer products and for SEGGER's successful J-Link debugger. emPower OS provides an out-of-the-box experience for complex embedded software applications on close to one thousand hardware platforms while supporting many more.



The emPower OS software package includes all core components (RTOS, GUI, File System) and communication software (TCP/IP, USB Device, USB-Host, Modbus), as well as IoT Toolkit, Security and Compression modules serving all the software needs of modern embedded industrial and IoT devices.

The available hardware support enables abstraction of the application from the used microcontroller. This means being able to quickly switch the hardware without completely rewriting the software. Software development is simplified to merely switching a few drivers, adapting the remaining direct hardware accesses and testing functionality.

This provides a solution to supply shortages on the hardware side. The redesign process could possibly be finished before the estimated arrival time of silicon vendor's delivery.

"Because of the chip crisis, many industrial companies are rethinking their software development processes – how to break dependencies and gain flexibility," explains SEGGER CEO Ivo Geilenbrügge. "emPower OS offers the flexibility to prevent production downtime."

The root cause of production challenges today is the chip shortage. Still, this is not the only challenge responsible managers need to keep in mind. Other challenges are suppliers changing owners, suppliers changing license models, changing pricing or even canceling a product, political decisions that prevent deliveries and many more. You can obtain further information on how to deal with these challenges in our risk management article at SEGGER's blog.

emPower OS is a high-performance software platform for embedded systems and Internet of Things (IoT) devices. It is optimized for high performance and a small memory footprint. In many cases, the small memory footprint enables the use of a typical microcontroller, eliminating the need for expensive external memory, keeping the cost of the embedded computing system to a minimum.

SEGGER’s embedded operating system emPower OS is offered as source code under a perpetual license model with a one-time cost without hidden follow-up costs. The customer always owns the product license. As part of the Embedded Studio PRO package, emPower OS is offered in object code.

Please find more information about emPower OS here:

https://www.segger.com/products/empoweros/

Please find more about reducing risks for embedded developers here:

https://blog.segger.com/risks-are-often-underestimated-it-is-not-only-the-chip-crisis-that-threatens-embedded-manufacturers/

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About SEGGER

SEGGER Microcontroller has over twenty-eight years of experience in Embedded Systems, producing state-of-the-art software libraries, and offering a full set of hardware tools (for development and production) and software tools.

SEGGER's All-in-One solution emPower OS provides an RTOS plus a complete spectrum of software libraries including communication, security, data compression and storage, user interface software and more. Using emPower OS gives developers a head start, benefiting from decades of experience in the industry.

SEGGER’s professional software and tools for Embedded System development are designed for simple usage and are optimized for the requirements imposed by resource-constrained embedded systems. The company also supports the entire development process with affordable, high-quality, flexible, easy-to-use tools.

The company was founded by Rolf Segger in 1992, is privately held, and is growing steadily. SEGGER also has a U.S. office in the Boston area and branch operations in Silicon Valley, Shanghai and the UK, plus distributors on most continents, making SEGGER’s full product range available worldwide.

Why SEGGER?

In short, SEGGER has a full set of tools for embedded systems, offers support through the entire development process, and has decades of experience as the Embedded Experts.

In addition, SEGGER software is not covered by an open-source or required-attribution license and can be integrated in any commercial or proprietary product, without the obligation to disclose the combined source.

Finally, SEGGER offers stability in an often volatile industry making SEGGER a very reliable partner for long-term relationships.

For additional information please visit: www.segger.com

Contact information:

Dirk Akemann
Marketing Manager
Tel: +49-2173-99312-0
E-mail: info@segger.com

Issued on behalf of:

SEGGER Microcontroller GmbH

Ecolab-Allee 5
40789 Monheim
Germany
www.segger.com

SEGGER Microcontroller Systems LLC

101 Suffolk Lane
Gardner, MA 01440
United States of America
www.segger.com

SEGGER Microcontroller China Co., Ltd.

Room 218, Block A,
Dahongqiaoguoji
No. 133 Xiulian Road
Minhang District, Shanghai
201199
China

www.segger.cn