# SEGGER introduces new Open Flashloader for direct programming of any RISC-V system

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**SEGGER just released a new Open Flashloader for RISC-V systems. The template, which can be adjusted to fit any RISC-V system, allows engineers to write flash loaders which fit into just 2kB of RAM.**

This enables J-Link debug probes to download directly and easily into the flash memory of a RISC-V Microcontroller or SoC. At the same time it provides a solution for mass production programming using the Flasher series of flash programmers.

These flash loaders work with any software supporting J-Link, from simple command line programs such as J-Link Commander, to debuggers such as GDB or SEGGER's Ozone, or more production-oriented utilities such as J-Flash, and development tools such as Embedded Studio. The J-Link GDB Server enables the use of GDB, Eclipse and any debugger supporting the GDB protocol.

When debugging with the J-Link Plus, Ultra+ or PRO models, an unlimited number of breakpoints in flash memory are available.

"We are seeing RISC-V gain more and more traction in the market, especially in China," says Rolf Segger, founder of SEGGER. "Now even very small RISC-V systems can be programmed at blistering speed using SEGGER J-Link and Flasher. I think the convenience and performance of J-Link is industry leading, boosting developer productivity. With J-Link debugging and flash programming, a complete ecosystem of tools is available."
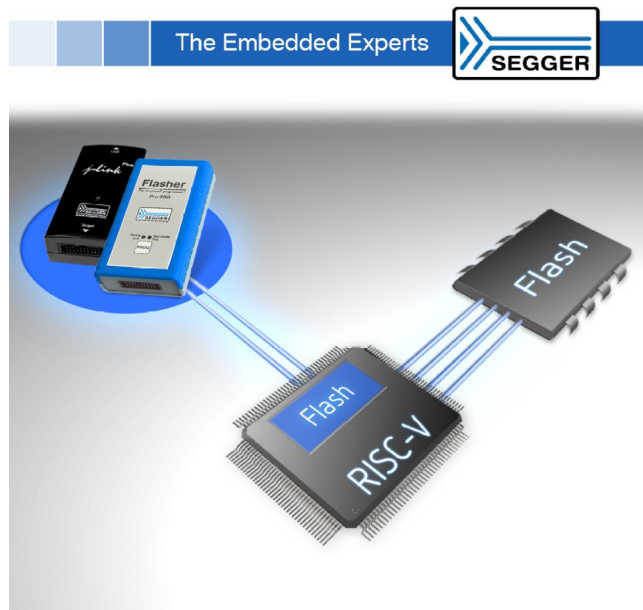
Any qualified engineer can write a flash loader for J-Link and RISC-V, usually within a day or two. SEGGER also offers the service of writing flash loaders for particular devices where desired. Proven flash loaders can be added to the J-Link software, so that they will simply work out of the box.

More information on J-Link and Open Flashloaders can be found here:
https://www.segger.com/products/debug-probes/j-link/
https://www.segger.com/products/debug-probes/j-link/technology/flash-download/#adding-support-for-new-devices-open-flashloader

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## About SEGGER

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

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

SEGGER's professional software libraries 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 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

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