

RE Partner Solution

SEGGER J-Link / J-Trace / Flasher



Solution Summary

- [J-Link](#) debug probes are the ideal solution for Renesas' RE-MCU Family. Unparalleled performance, an extensive feature set, many supported CPUs and compatibility with popular environments all make J-Link an unbeatable choice.
- [J-Trace PRO](#) is the leading streaming trace solution from SEGGER well suited for Renesas' RE-MCU Family. This advanced debug probe supports the tracing features of Arm Cortex cores. It captures complete instruction traces over infinite periods of time, enabling the recording of infrequent, hard-to-reproduce bugs, code coverage and code profiling in the live system, not only in the simulation.
- SEGGER's in-circuit [Flash programmers](#) are fast, reliable and easy-to-use. The [Flasher Hub](#) controls multiple Flashers so that they program simultaneously. They can be connected to create a single, powerful gang programmer for efficient high-speed parallel programming.

Features/Benefits

- **J-Link (J-Link PRO / J-Link ULTRA+ / J-Link WiFi / J-Link PLUS):**
Supports not only Renesas RE-MCU Family, but also RA- and RX-MCU families and RZ-MPU Family; supported by all major IDEs including SEGGER [Embedded Studio](#).
- **J-Trace (J-Trace PRO Cortex-M):**
Supports unlimited streaming trace feature, limited by Host SSD/HD capacity only; provides full J-Link debug functionality.
- **Flasher/In-circuit programmer (Flasher PRO / Flasher PRO XL / Flasher Compact / Flasher Portable PLUS / Flasher Hub):** Cross-platform for Linux, macOS and Windows; image size limited by SD card capacity only (Flasher PRO XL, shipped with 2GB exchangeable SD card)

Diagrams/Graphics



SEGGER J-Link debug probes



SEGGER J-Trace PRO



SEGGER Flasher production programmers

Target Markets and Applications

- Industrial Controls
- Smart Home
- Energy Saving IoT Appliance
- Automotive
- Home Appliance
- Health Care
- Aviation Electronic Equipment



SEGGER J-Link



J-Link Debug Probes – Market Leader for 10+ Years

SEGGER [J-Links](#) are the most widely used line of debug probes on the market. Unparalleled performance, an extensive feature set, many supported CPUs & compatibility with popular environments all make J-Link an unbeatable choice. The devices support directly interfacing SPI flashes, without the need for a CPU between J-Link and the SPI flash (directly communicating via the SPI protocol). The J-Links are supported by all major IDEs, from free Eclipse based ones (directly or via GDB) up to commercial ones, including SEGGER Embedded Studio.

[J-Link PRO](#) has an Ethernet interface in addition to the USB interface, as well as two additional LEDs which are used as hardware status indicators. It connects via Ethernet or USB to the host and provides download speed up to 3 MByte/s.

[J-Link ULTRA+](#) is an ultra fast debug probe for JTAG/SWD/FINE. It is 100% compatible with J-Link PLUS and provides download speed up to 3 MByte/s.

[J-Link WiFi](#) is a JTAG/SWD/FINE debug probe with WLAN/WiFi interface. It can communicate at high speed (up to 15 MHz) with the supported target CPUs. If a wireless debug interface is required, J-Link WiFi is the perfect solution. It provides download speed up to 1 MByte/s.

[J-Link PLUS](#) is a JTAG/SWD/FINE debug probe with USB interface. Based on a 32-bit RISC CPU, it can communicate at high speed with the supported target CPUs. It provides download speed up to 1 MByte/s.

More Details:

<https://www.segger.com/products/debug-probes/j-link/>



SEGGER J-Trace



J-Trace PRO Cortex-M – The Leading Trace Solution

Analyze, verify and profile code with [J-Trace PRO Cortex-M](#), the leading trace solution from SEGGER. This advanced debug probe supports the tracing features of Arm Cortex Cores. It captures complete instruction traces over infinite periods of time, enabling the recording of infrequent, hard-to-reproduce bugs. It provides real-time streaming trace at full System Clock and unlimited trace to isolate & identify hidden code defects. Full J-Link debug functionality is available.

More Details:

<https://www.segger.com/products/debug-probes/j-trace/>



SEGGER Flasher



Flash Programmers – Fast, Robust, Reliable, and Easy to Use

Whether the focus is on size, flexibility, portability, security, or mass production, the SEGGER [Flasher Family](#) has the perfect programmer for the task at hand. As a cross-platform solution, the devices come with setup and control software for Linux, macOS and Windows. Software and firmware updates are included.

SEGGER's [Flasher PRO](#) is used to program non-volatile memories of microcontrollers and SoCs as well as (Q)SPI flashes. It is engineered to handle any flash programming requirement in the industry, with the [Flasher PRO XL](#) designed for those that require large amounts of memory. The Flasher PRO can be used in stand-alone or PC-based mode. It connects via USB, Ethernet or an RS232 interface.

[Flasher Portable PLUS](#) is the handheld stand-alone Flash Programmer. It is battery driven, designed to meet the need for an extremely portable, production-grade flash programmer for in-field firmware updates. The device allows up to 16 configurations/image files to be stored on the Flasher, so one unit can be used for different targets, versions or configurations.

The [Flasher Hub](#) controls multiple Flashers (as the [Flasher Compact](#), the ideal solution in size-limited production setups) so that they program simultaneously. They can be connected to create a single, powerful gang programmer for efficient high-speed parallel programming. Each channel can be configured to program a different device with a different firmware image.

More Details:

<https://www.segger.com/products/flasher-in-circuit-programmer/>