



Renesas Ready Ecosystem Partner Solution SEGGER emPower OS

RENESAS

PARTNER
NETWORK

READY

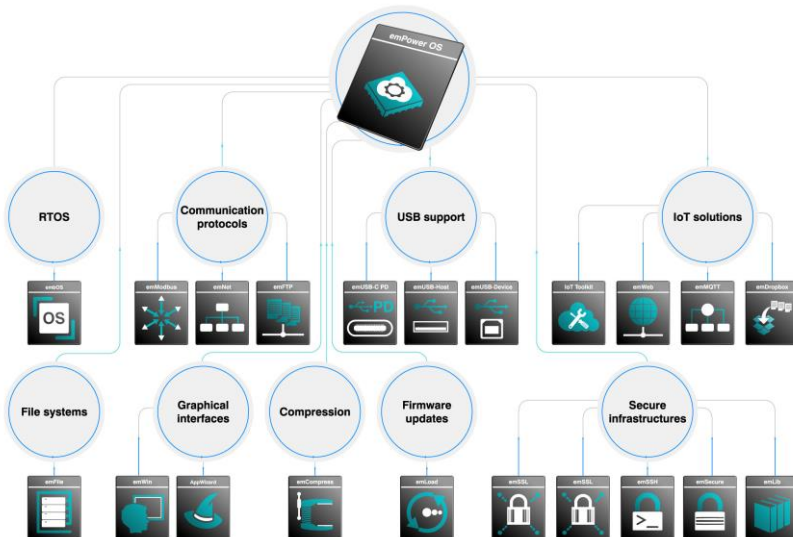
Solution Summary

SEGGER's emPower OS is a high-performance software platform and complete operating system designed for embedded systems and IoT devices. It includes essential components such as a real-time operating system (RTOS), file system, user interface, web server, connectivity libraries, and robust security protocols. This all-in-one solution supports any CPU, manufacturer, or cloud provider. It is compatible with Renesas's [RA](#), [RL78](#) and [RH850](#) MCUs, and [RZ](#) MPUs and [RISC-V](#) MCUs/MPUs.

Features/Benefits

- Simplifies porting software across different hardware platforms
- Operates independently of specific providers and manufacturers
- Enables immediate application development with minimal setup

Diagrams/Graphics



Target Markets and Applications

- Automotive
- Healthcare
- Industrial controls
- Energy-saving IoT appliance
- Home appliance
- Smart come

www.segger.com/products/empoweros/

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At SEGGER, we provide a comprehensive suite of tools and software solutions for every stage of creating embedded systems. Our portfolio is organized into five categories perfectly aligning with the workflow of the development process.



Create—Laying the groundwork

Every project requires a solid foundation. SEGGER's efficient software libraries are used to create the application and serve as the building blocks for composing code.



Build—Turning ideas into reality

Once the application code is created, it must be transformed into machine-executable instructions. SEGGER's Embedded Studio, a complete IDE with a flexible toolchain, optimizes speed and resource usage, often lowering project costs.



Debug—Perfecting the application

The debugging process ensures applications are ready for final development steps. SEGGER's market-leading debug and trace probes provide accurate insights, helping optimize the application during test runs.



Verify—Ensuring quality and reliability

No project is complete without thorough verification. SystemView reveals the true runtime behavior of an application, helping developers in ensuring systems perform as intended with powerful profiling and analysis tools.



Program—Delivering the final product

During verification, programming is used to transfer the application to the target hardware and to test it. Once the application is finalized, it is deployed to the intended hardware. Together, the application and hardware become the final product.

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