Renesas Ready Ecosystem Partner Solution

SEGGER Embedded Studio

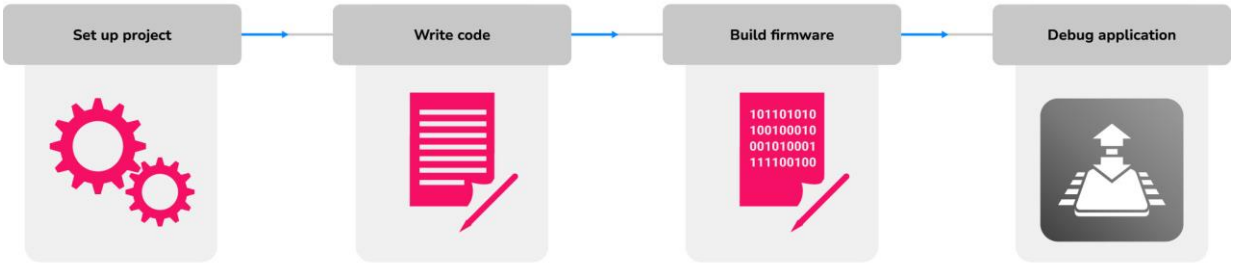
Solution Summary

SEGGER's Embedded Studio IDE is a comprehensive integrated development environment (IDE) designed specifically for managing, building, testing, and deploying embedded applications. This means smooth, efficient development operations thanks to a wide range of features. Embedded Studio streamlines the entire development process, reducing time-to-market and ensuring reliable, robust performance. Compatible with Renesas's RA MCUs, RZ MPUs and RISC-V MCUs/MPUs, it provides a powerful solution for low-power, resource-constrained embedded systems.

Features/Benefits

- Single application including an editor, compiler, debugger, and simulator
- Fast start-up editor and rapid build process
- Includes SEGGER's runtime and floating-point libraries, compiler, and linker
- Optimized for speed, memory efficiency, and ease of customization
- Minimizes code size and maximizes execution speed
- Compatible with Windows, macOS, and Linux

Diagrams/Graphics



Target Markets and Applications

- Automotive
- Energy-saving IoT appliances
- Healthcare
- Home appliance
- Industrial controls
- Smart home

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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.

Contact us: www.segger.com