



IAR platform scales embedded software development for Renesas RH850 with cloud-enabled, container-ready toolchains

December 9, 2025 – Uppsala, Sweden – IAR, a global leader in software solutions for embedded systems, has announced new enhancements to its development toolchain for Renesas RH850 microcontrollers (MCUs). The RH850 architecture, widely adopted in automotive applications, now benefits from modern development capabilities as part of the IAR embedded development platform, including cloud-enabled licensing, container support, and CI/CD integration.

The RH850 family is central to advanced automotive systems, powering applications such as electrification, ADAS, and safety-critical ECUs. With the latest updates, developers gain streamlined access to DevOps workflows, cross-platform builds, and scalable infrastructure options to accelerate innovation while meeting strict safety and compliance requirements.

“IAR has a decades-long collaboration with Renesas, and RH850 is a strategic architecture in the automotive sector,” said Thomas Andersson, Chief Product Officer at IAR. “By enabling cloud flexibility, container-based builds, and CI/CD integration, we’re helping automotive developers adopt modern software practices while ensuring the functional safety, performance, and reliability that RH850-based systems demand.”

The updated RH850 toolchain is fully aligned with the IAR platform, giving distributed automotive development teams cloud-enabled workflows with flexible licensing and capacity-based builds, container and virtualization support (including Docker, Kubernetes, virtual machines, and self-hosted runners) for scalable and automated pipelines, cross-platform compatibility across Windows, Ubuntu, and Red Hat environments, and safety certification support to simplify compliance with automotive standards such as ISO 26262.

“Renesas RH850 is a key enabler of next-generation automotive platforms,” said Michael Spandick, Senior Manager at Renesas Electronics. “IAR’s latest platform enhancements provide the flexibility developers need to embrace DevOps, accelerate time-to-market, and maintain the high standards of safety and reliability required in automotive systems.”

IAR’s toolchain for RH850 is available in safety-certified editions, supporting developers in achieving compliance with international standards such as ISO 26262, IEC 61508, and IEC 62304. These capabilities reduce certification complexity and enable OEMs and suppliers to focus on innovation rather than tooling overhead.

As part of the broader IAR platform, the RH850 solution integrates seamlessly with support for Renesas RA, RX, RL78, RZ, and RISC-V, allowing automotive and industrial teams to unify development workflows across architectures while maintaining code quality, security, and compliance.



Contacts IR

Hanna Laurentz, Head of Corporate Communications, IAR

Tel: +46 735 12 51 37; E-mail: hanna.laurentz@iar.com

About IAR

IAR delivers world-leading software and services for embedded development, empowering companies worldwide to create secure, high-quality products that shape the future. Since 1983, our solutions have helped ensure reliability, security, and efficiency in the development of more than one million embedded applications across industries such as Automotive, Industrial Automation, IoT, MedTech, and Safety.

With support for 15,000 devices from over 70 semiconductor partners, we enable innovation and success for our customers. Headquartered in Uppsala, Sweden, we operate globally through strategically located sales and support offices.

IAR is now part of Qt Group, operating as an independent business unit while strengthening our ability to deliver comprehensive solutions for embedded systems.

Learn more at <http://www.iar.com>.

Image Attachments

[IAR Renesas Dec 2025 2](#)

Attachments

[IAR platform scales embedded software development for Renesas RH850 with cloud-enabled, container-ready toolchains](#)