Press Release
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SiFive and IAR collaborate to drive RISC-V innovation in Automotive electronics

Uppsala, Sweden – December 15, 2025 –IAR, a global leader in embedded development software, and SiFive, a leading provider of commercial RISC-V processor IP and silicon solutions, today announced the full support of IAR's toolchain for SiFive's Automotive IP cores. With the latest release of Embedded Workbench for RISC-V, IAR expands its support from the E6-A series to include the SiFive Essential™ E7-A and S7-A series products, providing automotive developers with a complete, commercial-grade solution that accelerates time-to-market.

IAR Embedded Workbench is a leading commercial embedded development toolchain, known for powerful code optimization and a highly reliable environment. Optimized for the RISC-V architecture, the latest v3.40.2 release integrates a high-performance compiler, debugger, and static analysis tool, helping teams enforce standards such as MISRA C/C++ and strengthen the safety and reliability of SiFive Automotive-grade IP–based applications. The toolchain is compliant with ISO 26262 and other automotive standards, ensuring certified development assurance for safety-critical systems including intelligent driving and advanced cockpit applications.

As part of the IAR embedded development platform, the toolchain seamlessly connects with modern workflows, including CI/CD, cloud licensing, and automated debugging and testing, supporting scalable development across safety-critical automotive programs.

SiFive Automotive RISC-V IP has achieved functional safety and cybersecurity certifications across both its 32-bit E Series and 64-bit S Series. The E6-A series supports real-time and safety-critical applications for real-time workloads and advanced driver-assistance systems (ADAS).

The new Essential **E7-AD** and **E7-AS** products are also 32-bit, providing 30% higher performance than the E6 series. The 64-bit **S7-AD** delivers high-performance functional safety for domain controllers, safety islands, and other demanding automotive systems.

"We have been deeply engaged in the RISC-V ecosystem since its early stages, and our long-term collaboration with SiFive reflects that commitment. As RISC-V adoption expands in automotive, the latest IAR tools now fully support SiFive's Automotive IP. Together, we empower customers to leverage high-performance RISC-V cores in intelligent driving, digital cockpit, and other safety-critical systems with reliable toolchain support and safety assurance." said Thomas Andersson, Chief Product Officer at IAR.

"As the company founded by the inventors of RISC-V, SiFive is driving rapid RISC-V adoption across industries, including automotive. We delivered our first automotive products in 2022 and all three series are now broadly adopted by commercial customers. IAR's comprehensive support for SiFive Essential Cores and Automotive IP accelerates integration for emerging automotive applications." said John Ronco, Senior Vice President of Products at SiFive.

As advanced, safety-certified IP and a mature, reliable toolchain come together, RISC-V automotive developers gain access to a strong, trusted platform to accelerate innovation across electrification and intelligent mobility.

For more information on IAR's RISC-V solutions, please visit https://www.iar.com/mcu-architectures/risc-v

For more information on SiFive Essential Cores and Automotive IP solutions, please visit www.sifive.com/risc-v-core-ip

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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 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.

About SiFive
As the pioneers who introduced RISC-V to the world, SiFive is transforming the future of compute by bringing the limitless potential of RISC-V to the highest performance and most data-intensive applications in the world.

SiFive's RISC-V compute platforms have enabled leading technology companies around the world to innovate, optimize and deliver the most advanced solutions of tomorrow across every market segment of chip design, including artificial intelligence, machine learning, automotive, data center, mobile, and consumer. With SiFive, the future of RISC-V has no limits.

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Image Attachments
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Attachments
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