



IAR Systems fully Supports Renesas RZ/T2 & RZ/N2 Series MPUs for Real-Time Control & Industrial Networking

The innovative tools of IAR Embedded Workbench® help accelerate the development of next-generation factory automation applications that require real-time performance, industrial networking, and functional safety essential for high-performance motor control.

Uppsala, Sweden — September 13, 2022 — IAR Systems®, the world leader in software and services for embedded development, today announced the latest version of the complete development toolchain IAR Embedded Workbench™ for Arm v. 9.30, which fully supports the Renesas' RZ/T2 and RZ/N2 series MPUs, based on Arm® Cortex®-R52. With this, IAR Systems is the only toolchain vendor to offer development tools for the entire Renesas MCU/MPU lineup for industrial solutions.

The requirements of today's industrial applications are becoming more complex every year, and their performance requirements are higher. To meet this, customers need a development tool that maximizes the functionality of their chosen MCU/MPU without compromising the efficiency of their development workflow.

IAR Embedded Workbench for Arm helps customers take full advantage of Renesas' industrial solutions that realize fast and exact motor control capabilities and the latest industrial Ethernet on a single chip by providing powerful optimizations to help engineers develop real-time applications such as high-performance precision servo motors. Comprehensive debugging capabilities, including multi-core debugging, enable rapid development of application software for dual Arm Cortex-R52-based RZ/T2M, the first RZ/T2 series product.

In addition, IAR Systems offers a functional safety edition certified by TÜV SÜD, meeting IEC 61508 requirements. Using this edition, Renesas plans to release the RZ/T2M later this year and the RZ/N2L, which was announced in August this year, in 2023 for functional safety solutions such as "Certified Self-Test Software" for self-fault diagnosis and "SIL3 System Software Kit," including mandatory cross-diagnosis for redundant microcontroller configurations. Moreover, IAR's integrated static code analysis tools comply with coding standards such as MISRA-C and CERT, which are essential for modern FS development in terms of IEC61508 and other security standards.

The RZ/T2M and RZ/N2L are equipped with EtherCAT slave controllers, and TSN-compliant 3-port Gigabit Ethernet switches to meet the growing demand for industrial networking.

– more –

Hitoshi Shirakabe, Vice President of the Industrial Automation Business Division at Renesas:

“RZ/T2M and RZ/N2L customers now can use IAR Embedded Workbench for Arm, a high-performance integrated development environment. This enables the RZ/T2M and RZ/N2L to deliver high-speed, high-precision, real-time motor control and the latest industrial network communication capabilities. The upcoming "Certified Self-Test Software" and "SIL3 System Software Kit" for functional safety have been developed using IAR Embedded Workbench. When used with the certified functional safety edition of the tool, customers can significantly reduce the time and workload associated with development.”

Anders Holmberg, CTO at IAR Systems

“Smart motor controllers and highspeed networking are two essential building blocks to create the future of manufacturing. IAR Embedded Workbench for Arm is the leading software development environment in the industrial control segment and is certified for use with all relevant safety standards. Our long and deep collaboration with Renesas has enabled many innovative solutions across the industrial control market. Supporting the RZ/T2 and RZ/N2 series of devices is a logical step on our mutual journey.”

More information on IAR Systems’ strong offering for Arm-based applications is available at www.iar.com/arm and on IAR Systems’ pre-certified solutions for functional safety development at www.iar.com/fs.

Ends

Editor's Note: IAR Systems, IAR Embedded Workbench, Embedded Trust, C-Trust, C-SPY, C-RUN, C-STAT, IAR Visual State, I-jet, I-jet Trace, IAR Academy, IAR, and the logotype of IAR Systems are trademarks or registered trademarks owned by IAR Systems AB. All other product names are trademarks of their respective owners.

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About IAR Systems

IAR Systems provides world-leading software and services that drive developer productivity in embedded development and embedded security, enabling companies worldwide to create and secure the products of today and the innovations of tomorrow. IAR Systems today supports more than 15,000 devices from over 200 semiconductor partners worldwide, serving some 100,000 developers working for a mix of Forbes 2000 companies, SMEs, and startups. Founded in 1983, IAR Systems is still headquartered in Uppsala, Sweden, with more than 220 employees in 14 offices distributed across APAC, EMEA, and North America. IAR Systems is owned by I.A.R. Systems Group AB, listed on NASDAQ OMX Stockholm, Mid Cap (ticker symbol: IAR B). Learn more at www.iar.com.