



Product News

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IAR Systems provides tools for new Atmel MPU series targeting industrial IoT and wearable applications

IAR Embedded Workbench supports latest series of Atmel | SMART ARM Cortex-A5-based microprocessors with low power consumption and advanced security features

Uppsala, Sweden—October 7, 2015—IAR Systems® announces that the world-leading development toolchain IAR Embedded Workbench® for ARM® now supports the Atmel | SMART SAMA5D2 series. With its highly optimizing build tools and comprehensive debugging capabilities, IAR Embedded Workbench enables developers to fully leverage the high performance of the new series.

The Atmel | SMART SAMA5D2 series is based on the high-end ARM Cortex®-A5 core and features an ARM NEON™ engine. ARM NEON is a Single Instruction Multiple Data (SIMD) architecture extension providing the top performance that is crucial to developers working for example with multimedia and signal processing applications. Using IAR Embedded Workbench for ARM, developers are able to fully benefit from this technology thanks to the automatic NEON vectorization available in the tools. By vectorizing their code, developers can achieve faster application response time, improve application battery lifetime and further meet the market demands for low cost and low power.

The new SAMA5D2 includes a robust security system including ARM TrustZone® technology, along with secure boot, hardware cryptography, RSA/ECC, on-the-fly encryption/decryption on DDR and QSPI memories, tamper resistance, memory scrambling, independent watchdog, temperature, voltage and frequency monitoring and a unique ID in each device.

The complete development toolchain IAR Embedded Workbench for ARM features the powerful IAR C/C++ Compiler™ and the comprehensive C-SPY® Debugger in a user-friendly integrated development environment. The toolchain provides extensive debugging and profiling possibilities such as complex code and data breakpoints, runtime stack analysis, call stack visualization, code coverage analysis and integrated monitoring of power consumption. For complete code control, IAR Systems provides integrated add-on tools for static and runtime analysis.

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“We are excited to see early support for our latest low-power MPUs in IAR Systems’ leading development toolchain,” says Jacko Wilbrink, Sr. Director of MPUs, Atmel Corporation. “In order to be able to develop next-generation industrial IoT and wearables applications, developers require more performance, lower power and additional security. The Atmel | SMART SAMA5D2 series and IAR Embedded Workbench deliver excellent performance and a wide range of features to fulfill these requirements and deliver truly differentiating products to help bring products faster to market.”

Support for the SAMA5D2 series is available using IAR Embedded Workbench for ARM, version 7.40.5 and later. More information about the tools, and free evaluation licenses, are available at www.iar.com/iar-embedded-workbench/arm.

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Editor's Note: IAR Systems, IAR Embedded Workbench, C-SPY, C-RUN, C-STAT, visualSTATE, IAR KickStart Kit, IAR Experiment!, I-jet, I-jet Trace, I-scope, IAR Academy, IAR, and the logotype of IAR Systems are trademarks or registered trademarks owned by IAR Systems AB. All other names of products and companies are trademarks of their respective owners.

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About IAR Systems

IAR Systems provides developers of embedded systems with world-leading software tools for developing competitive products based on 8-, 16-, and 32-bit processors. Established in Sweden in 1983, the company has over 46,000 customers globally, mainly in the areas of industrial automation, medical devices, consumer electronics, telecommunication, and automotive products. IAR Systems has an extensive network of partners and cooperates with the world’s leading semiconductor vendors. IAR Systems Group AB is listed on NASDAQ OMX Stockholm. For more information, please visit www.iar.com.