# Solutions for Arm

High-performance tools, 8,700+ supported devices, professional support and services

Thanks to the long history with Arm, IAR Systems offers the broadest device support of all development tools vendors. This is made possible thanks to our wide ecosystem of partners, independent offering and strong technology.

If you are working with Arm-based products, you can be sure we are committed to supporting you with the solutions you need. Today, and in the future.

Key capabilities

- Compiler, assembler, linker and debugger in one IDE
- Leading optimization technology built by compiler experts
- Performance analysis, power debugging and breakpoint features
- Additional debugging capabilities with I-jet and I-jet Trace
- Integrated static analysis tools
- Integrated runtime analysis tools
- Pre-integrated solutions for leading RTOS and middleware
- Code examples and project templates for a quick start
- Proven in use by thousands of users all over the world
- Extensions for ensuring secure, encrypted code
- Pre-certified editions for functional safety
- Build tools enabling automated workflows
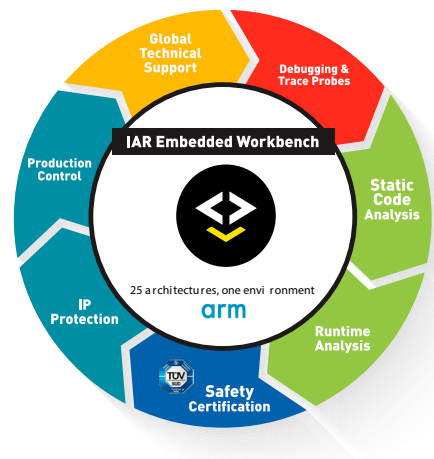
Supported Arm cores

Cortex-M0	Cortex-R4	Cortex-A15
Cortex-M0+	Cortex-R5	Cortex-A17
Cortex-M1	Cortex-R7	Cortex-A32
Cortex-M3	Cortex-R8	Cortex-A35
Cortex-M4	Cortex-R52	Cortex-A53
Cortex-M7	Cortex-R52+	Cortex-A55
Cortex-M23	Cortex-R82	Cortex-A57
Cortex-M33	Cortex-A5	Cortex-A72
Cortex-M55	Cortex-A7	Arm11
Cortex-M85	Cortex-A8	Arm9
	Cortex-A9	Arm7
		SecurCore

Integrated static and runtime analysis

The static analysis tool C-STAT is integrated in IAR Embedded Workbench and helps to find potential issues in the code by doing an analysis on the source code level. C-STAT is covering the SEI CERT C Coding Standard, which provide rules for developing safe, reliable and secure systems in the C programming language. C-STAT also checks compliance with rules as defined by coding standards including MISRA C:2004, MISRA C++:2008 and MISRA C:2012, as well as hundreds of rules based on CWE (the Common Weakness Enumeration).

The runtime analysis tool C-RUN is completely integrated with IAR Embedded Workbench, helping you to ensure code quality in your application with flexible rule selection supporting bounds checking, arithmetic checking, and heap and memory leaks checking. C-RUN is designed to be a natural part of your development workflow, when working in a traditional edit/build/debug cycle, running unit tests or doing integration tests.

Functional safety and security

Our Arm tools are available in functional safety editions, certified by TÜV SÜD according to the requirements of IEC 61508, ISO 26262, IEC 62304, EN 50128, EN 50657, IEC 60730, ISO 13849, IEC 62061, IEC 61511 and ISO 25119.

The Embedded Trust and C-Trust extensions to IAR Embedded Workbench enable you to protect your application and deliver secure, encrypted code, without having to master the deeper complexities of security to ensure security legislation compliance in IoT applications.

Automated workflows with cross-platform benefit

The IAR Build Tools for Arm are streamlined for automated build and test processes supporting modern and scalable build server topologies on Ubuntu, Red Hat and Windows for CI/CD pipelines including Virtual Machines, Containers (Docker) and Self-hosted Runners.

Advanced debugging and trace capabilities

By making use of the advanced debugging tools, you can optimize the working time of your team when investigating issues and testing your application. The modern I-jet debug probe facilitates advanced visualization of the application behavior.

In addition, the advanced I-jet Trace probe enables powerful code coverage and profiling data capabilities in IAR Embedded Workbench and traces every single executed instruction in your application. Many standards require code coverage and trace to prove that you have executed every line of code that is essential for the testing matrix.

Professional technical support

We have global processes in place to ensure we deliver an efficient and smooth experience. With a Support and Update Agreement (SUA), you get access to technical support centers and customer care in multiple time zones globally, as well as the latest updates and features for your product license.