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MDK Microcontroller Development Kit

Keil® MDK is the most comprehensive software development solution for ARM®-based microcontrollers and includes all components that you need to create, build, and debug embedded applications.

Software Packs add device support and software components that you can use as building blocks for your application.
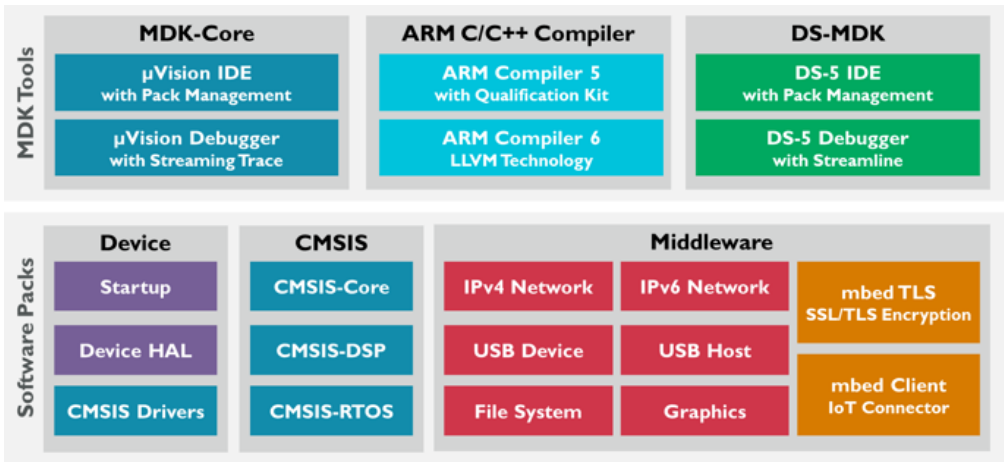
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Product Components

MDK-Core is based on µVision (Windows only) with leading support for Cortex-M devices including the new ARMv8-M architecture.

DS-MDK contains the Eclipse-based (Windows and Linux) DS-5 IDE/Debugger and supports 32-bit ARM Cortex-A processors or heterogeneous systems (32-bit ARM Cortex-A and ARM Cortex-M).

MDK includes two **ARM C/C++ Compilers** with assembler, linker, and highly optimize run-time libraries that are tailored for optimum code size and performance.

Software Packs may be added any time to MDK-Core or DS-MDK making new device support and middleware updates independent from the toolchain. They contain device support, CMSIS libraries, middleware, board support, code templates, and example projects.

The IPv4/IPv6 networking communication stack is extended with ARM mbed™ software components to enable Internet of Things (IoT) applications.

MDK Editions

MDK is available in various editions. **Compare Editions >**

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MDK-Essential
For ARM Cortex-M based microcontroller projects.

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MDK-Plus
For Cortex-M, ARM7, ARM9. Includes middleware (IPv4 Networking, USB Device, File System, Graphics).

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MDK-Professional
For Cortex-M, Cortex-A, ARM7, ARM9. Includes middleware (IPv4/IPv6 Networking, USB Host & Device, File System, Graphics, mbed components).

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