

ARM® DS-5 Development Studio

Complete suite of tools for embedded C/C++ software development on ARM-based targets

ARM® DS
Development Tools



<http://ds.arm.com/>

DS-5 provides comprehensive support for software development, and SoC design and bring-up. The suite includes DS-5 Debugger, ARM Compiler, Linaro GCC, Streamline performance analyzer, simulation models and the Eclipse IDE.

ARM® DS-5 Development Studio Streamline performance analyzer enables you to get the best out of your system's resources and create high performance, energy efficient products. It brings together system performance metrics, software tracing, statistical profiling and power measurement to identify code hotspots, system bottlenecks and other unintended effects of your code or the system architecture.

The ARM C/C++ Compiler is **TÜV Certified** and fulfils the requirements for Development tools classified T3 according to IEC 61508-3. The Compiler Safety Package comes with DS-5 Ultimate Edition.



| DS-5 – Edition | Ultimate | Professional |
|---|----------------|----------------|
| Eclipse IDE | ✓ | ✓ |
| ARM processors up to ARMv7 | ✓ | ✓ |
| ARMv8 processors | ✓ | |
| Compiler Safety Package | ✓ | |
| Debugger – | | |
| • Linux and Android gdbserver | ✓ | ✓ |
| • Linux and Android Application rewind | ✓ | ✓ |
| • Bare metal, RTOS and Linux kernel | ✓ | ✓ |
| • Non-invasive instruction and data trace | ✓ | ✓ |
| Streamline Performance Analyser | | |
| • Performance counters | ✓ | ✓ |
| • Multicore analysis | ✓ | ✓ |
| • External energy data | ✓ | ✓ |
| 3 rd party RTOS awareness | ✓ | ✓ |
| Order Code - node-locked | | |
| • Package, perpetual | | DS5PE-KT-30000 |
| • Download, perpetual | | DS5PE-KD-30000 |
| • Package, 1 year limited | DS5UE-KT-30001 | DS5PE-KT-30001 |
| • Download, 1 year limited | DS5UE-KD-30001 | DS5PE-KD-30001 |
| Order Code – Flex-LM-floating | | |
| • Package, perpetual | | DS5PE-KT-40000 |
| • Download, perpetual | | DS5PE-KD-40000 |
| • Package, 1 year limited | DS5UE-KT-40001 | DS5PE-KT-40001 |
| • Download, 1 year limited | DS5UE-KD-40001 | DS5PE-KD-40001 |

Debug and Trace

DS-5 debugger supports software development and debugging, and SoC bring-up, via the following Debug/Trace Adapters:

- ARM DSTREAM
- Keil ULINKpro-D family
- CMSIS-DAP over USB

The ARM® DSTREAM High-Performance Debug and Trace unit enables powerful software debug and optimization on ARM processor-based hardware targets.

- 4GB trace buffer for extended trace capture
- Download speed up to 2.5MB per second
- JTAG clock up to 60 MHz
- Flexible architecture to support 3rd party IP

Related Products

- ARM DSTREAM
- Keil/ARM ULINKpro-D

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