

# ULINKpro Debug and Trace Unit



The Keil ULINKpro Debug and Trace Unit connects your PC's USB port to your target system (via a JTAG, Cortex Debug, or Cortex Debug+ETM connector). It allows you to program, debug, and analyze your applications using its unique streaming trace technology.

ULINKpro, together with [MDK-ARM](#), provides extended on-the-fly debug capabilities for Cortex-M devices. You are able to control the processor, set breakpoints, and read/write memory contents, all while the processor is running at full speed. High-Speed data and instruction trace are streamed directly to your PC enabling you to analyze detailed program behaviour.

## Features

- Supports ARM7, ARM9, Cortex-M0, Cortex-M1, Cortex-M3, and Cortex-M4 devices
- JTAG support for ARM7, ARM9, and Cortex-M
- Serial Wire Debug (SWD) support for Cortex-M
- Serial Wire Viewer (SWV) [Data and Event](#) Trace for Cortex-M up to 100Mbit/s (Manchester mode)
- Instruction Trace (ETM) for Cortex-M3 and Cortex-M4 up to 800Mbit/s
- Unique [Streaming Trace](#) direct to your PC, provides unlimited trace buffer
- JTAG Clock Speed up to 50MHz
- Supports Cortex-M devices running at up to 200MHz
- High-Speed Memory Read/Write up to 1MBytes/sec
- Seamless integration with the Keil [uVision](#) IDE & Debugger
- Wide target voltage range: 1.2V - 3.3V, 5V tolerant
- Support for 5V only devices using optional [5V Adapter](#)
- Optional [Isolation Adapter](#) provides electrical isolation from the target system
- USB 2.0 High-Speed connection
- USB powered (no power supply required)
- Target [Connectors](#)
  - 10-pin (0.05") - Cortex Debug Connector
  - 20-pin (0.10") - ARM Standard JTAG Connector
  - 20-pin (0.05") - Cortex Debug+ETM Connector

The unique streaming trace capabilities of ULINKpro delivers sophisticated analysis features such as:

- Complete [Code Coverage](#) information about your program's execution ensures thorough application testing and verification
- Performance Analysis using the [Execution Profiler](#) and [Performance Analyzer](#) enable you to identify program bottlenecks, optimize your application, and to isolate problems
- Streaming instruction trace requires the target device to have [ETM](#) (Embedded Trace Macrocell)

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