

ARM-KEIL Advanced Debugging Workshop

Advanced Debugging in ARM Keil Embedded Development Tools

We impart the expertise about Advanced Debugging to you using the ARM Keil development environment(IDE) μ Vision and the different ULINK debug adapters. You will learn the debug capabilities of a Cortex-M and its "Coresight debug Macrocell". You can engrass the newly gained knowledge directly with the various practical examples.



For whom is this workshop appropriate?

Hardware- and Software-Developers and Test-Engineers, who want to improve their knowledge about the Debug-capabilities of the ULINK Debuggers and the MDK-ARM Development Environment

Requirements

- A basic understanding of the programming language C
- A basic understanding of MDK-ARM

Topics

- Introduction into the ARM Coresight Debug and Trace technology
 - ARM Core Sight debug and Trace Macrocell
- Keil Debugger and their capabilities
- Overview and Function-comparison
 - Simulation
 - ULINK-ME
 - ULINK2
 - ULINKpro D
 - ULINKpro
- Debugger configuration*
 - Debug connections and their possibilities
 - Project configuration
 - negative influences on the Debug performance
- Debugging**
 - Printf
 - Advanced Breakpoints
 - Symbols Window
 - Toolbox
 - Event Viewer
 - Logic Analyzer
 - Execution Profiling
 - Code Coverage
 - Performance Analyzer
 - Trace
- Time to discuss
- Certification Test

* Advanced Software examples

** Advanced On-Board (Hardware) examples

Languages: German or English

Included Material:

- 20% discount on a KEIL Debug Adapter of Choice
- Book
- USB-Pen with examples and documentation

Information about the course instructor:

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