Keil ULINK

a family of Debug and Trace Adaptors

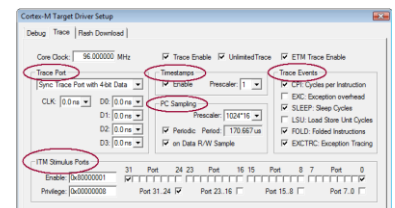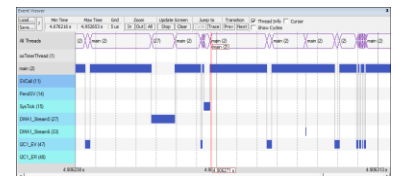**ARM®KEIL®**
Microcontroller Tools

www.keil.com/ulink

The Keil ULINK family of Debug Adaptors connects your PC´s USB port to your target system via JTAG or via other on-chip debug interfaces. The ULINK allows you to download and debug programs on target hardware as well as do flash programing.

Via Serial Wire Viewer (SWV), ULINKpro is supporting Data and Event trace up to 100Mbit/s in Manchester Mode and up to 1Mbit in UART Mode.

Following the implementation of ETM (Embedded Trace Module) into your target device, ULINKpro is supporting Instruction Trace with up to 800Mbit/s. The ULINK-family seamlessly connects to the Keil µVision IDE & Debugger. ULINKproD additionally connects to ARM DS-5 .

ULINK – Edition	ULINKpro	ULINKproD	ULINK2
Debug & Trace			
• Serial Wire Debug (SWD)	✓	✓	✓
• Data Trace (ITM)	✓	✓	✓
• Data & Event Trace (SWV)	100Mbit/s	100Mbit/s	1Mbit/s
• Instruction Trace (ETM)	800Mbit/s		
Supported Devices			
• ARM7/9	✓	✓	✓
• Cortex-M series	✓	✓	✓
• XC800/µPSD/XC166/LPC950			✓
I/O Voltage Range	1,2V -3,3V	1,2-3,3V	2,7V – 5,5V
Target Connector			
• 10-pin (0.05”)	✓	✓	✓
• 20-pin (0.10”)	✓	✓	✓
• 20-pin (0.05”)	✓	✓	
Connects to			
• MDK-family	✓	✓	✓
• PK51	✓	✓	✓
• PK166	✓	✓	✓
• ARM DS5		✓	
Order-Code	ULINKPRO	ULINKPRO-D	ULINK2

Debug and Trace features

- Program Download
- Program Flashing
- Support of CoreSight Technology
- Debug program code on target
- Unlimited trace buffer
- Streaming Trace
- Complete Code Coverage
- Execution Profiling

Related Products

- ULINKpro Isolation Adapter
- ULINKpro 5V Adapter

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