



[www.keil.com/ulink](http://www.keil.com/ulink)

The Keil ULINK family of debug and trace adapters connects the host computer via USB to your target system. ULINK uses on-chip debug interfaces and supports application debugging and flash programming.

The ULINK family supports traditional features like simple and complex breakpoints, watch windows, and execution control. Using the Serial Wire Output (SWO), additional trace features like system analyzer are supported.

ULINK*pro* interfaces to ETM trace connectors and uses streaming trace technology to capture the complete instruction trace for code coverage and execution profiling.

ULINK*plus* additionally offers power measurement for energy optimization and I/Os for test automation.

Feature	ULINK <i>pro</i>	ULINK <i>pro</i> D	ULINK <i>plus</i>	ULINK2
<b>Debug &amp; Trace</b>				
Serial Wire Debug (SWD)	✓	✓	✓	✓
Data Trace (ITM)	✓	✓	✓	✓
Data & Event Trace (SWO)	100 Mbit/s	100 Mbit/s	50 Mbit/s	1 Mbit/s
Instruction Trace (ETM)	800 Mbit/s			
<b>Supported Devices</b>				
ARM7/9	✓	✓		✓
Arm Cortex-M series	✓	✓	✓	✓
XC800/μPSD/XC166/LPC950				✓
<b>Energy measurement &amp; Test I/O</b>			✓	
Electric isolation (1 kV)	optional	optional	integrated	
I/O Voltage Range	1.2 V - 3.3 V	1.2 V - 3.3 V	1.2 V - 5.5 V	2.7 V - 5.5 V
<b>Target Connector</b>				
10-pin (0.05"), 20-pin (0.10")	✓	✓	✓	✓
20-pin (0.05")	✓	✓		
<b>Connects to</b>				
Keil MDK	✓	✓	✓	✓
Keil PK51, PK166				✓
Arm DS-5	✓	✓	✓	
<b>Order-Code</b>	ULINKPRO	ULINKPRO-D	ULINKPLUS	ULINK2

## Related Products

- Keil MDK Microcontroller Development Kit
- Arm DS-5 Development Studio
- ULINK*pro* Isolation Adapter
- ULINK*pro* 5V Adapter

[www.distributor.com](http://www.distributor.com)

All brand names or product names are the property of their respective holders. Neither the whole nor any part of the information contained in, or the product described in, this document may be adapted or reproduced in any material form except with the prior written permission of the copyright holder. The product described in this document is subject to continuous developments and improvements. All particulars of the product and its use contained in this document are given in good faith. All warranties implied or expressed, including but not limited to implied warranties of satisfactory quality or fitness for purpose are excluded. This document is intended only to provide information to the reader about the product. To the extent permitted by local laws ARM shall not be liable for any loss or damage arising from the use of any information in this document or any error or omission in such information. Copyright © 2017 ARM Ltd..

[www.keil.com](http://www.keil.com)