

### Install Keil MDK Version 5

- Download and install the MDK Core from [www.keil.com/mdk5/install](http://www.keil.com/mdk5/install)

### Add Software Pack using the Pack Installer

- **Keil::LPC1700\_DFP** – NXP LPC1700 Series Device Support

### Power up the board

- Connect a USB power supply to the **Power** receptacle
- Connect the board to the PC using the **Trace Connector** and a debug adapter, for example ULINK<sub>pro</sub>

### Verify Installation

using example projects provided in the Software Pack or download examples that apply to this board

- Copy an example using the Pack Installer. Compile, download to Flash, and debug the application. The provided examples are ready to run. Trace settings might have to be adapted.

### More Information

- Evaluation Board Description [www.keil.com/boards2/keil/mcb1700](http://www.keil.com/boards2/keil/mcb1700)
- MCB1700 User's Guide [www.keil.com/support/man/docs/mcb1700](http://www.keil.com/support/man/docs/mcb1700)

### Related Information

- MDK Version 5 [www.keil.com/mdk5](http://www.keil.com/mdk5)
- Getting Started User's Guide [www.keil.com/gsg](http://www.keil.com/gsg)
- MDK-Professional Middleware [www.keil.com/middleware](http://www.keil.com/middleware)
- Learning Platform [www.keil.com/learn](http://www.keil.com/learn)

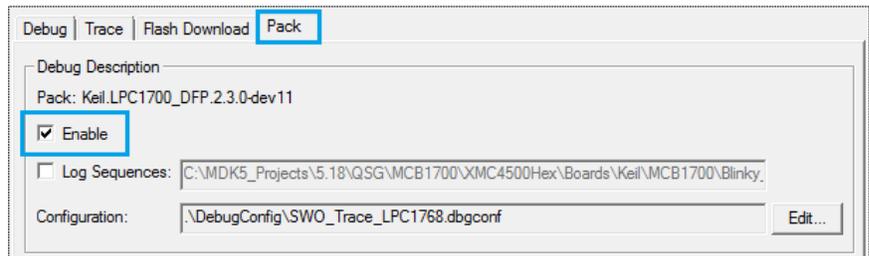
### ULINKpro Debugger and Trace Adapter

In the dialog **Options for Target – Debug** enable **Use** and select **ULINK Pro Cortex Debugger**.

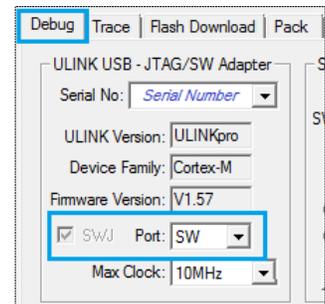
Click on **Settings**.



Switch to the **Pack** tab and check **Enable** to activate the Debug Description.



Switch to the **Debug** tab and ensure that **Port** is set to SW for Serial Wire Debug. You may adjust the **Max Clock** to the desired debug speed.

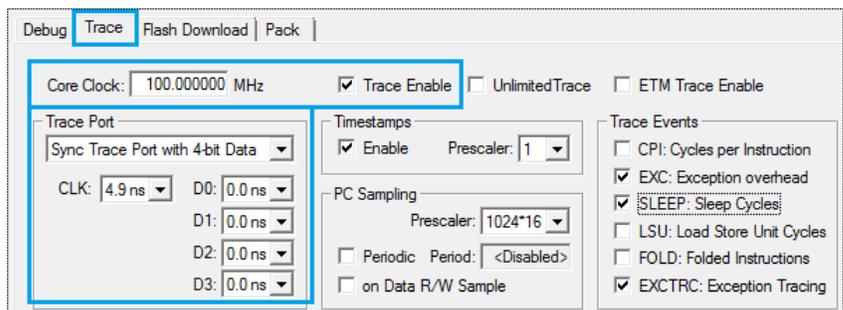


### Trace Settings

For full trace capability, switch to the **Trace** tab, enter the correct CPU **Core Clock** speed as specified in your project and check **Trace Enable**.

Set **Trace Port** to *Sync Trace Port with 4-bit Data*.

Set the clock delay time for data pins **CLK** to *4.9ns*. Leave the individual delay times at zero.



Complete trace configuration instructions for this board can be found on the web page [www.keil.com/mdk5/ulink/ulinkpro](http://www.keil.com/mdk5/ulink/ulinkpro). Choose **ULINKpro User's Guide** in the **Quick Links** and continue with the chapter **Configure Cortex-M Devices for Tracing**. Select chapter **NXP LPC17xx Devices** and then **Enable 4-Pin Trace (ETM)**.