

Install Keil MDK Version 5

- Download and install the MDK Core from www.keil.com/mdk5/install

Add Software Pack using the Pack Installer

- **Infineon::XMC4000_DFP** – Infineon XMC4000 Series Device Support

Power up the board

- Connect the board to the PC using the **Debug Micro USB Connector**
- Windows will recognize the USB device and install the required drivers automatically

Verify Installation using example projects provided in the Software Pack or download examples that apply to this board www.keil.com/boards2/infineon/xmc4500cpuboard_generalpurpose_cpu_45b/

- Copy an example using the Pack Installer. Compile, download to Flash, and debug the application. The provided examples are ready to run.

More Information

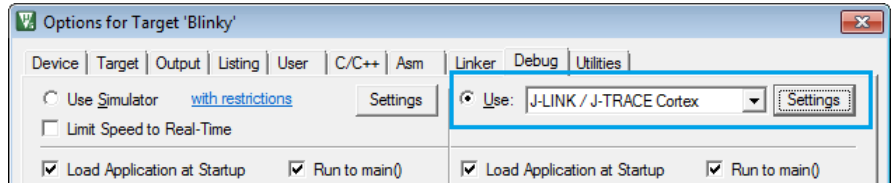
- Board Supplier www.infineon.com

Related Products

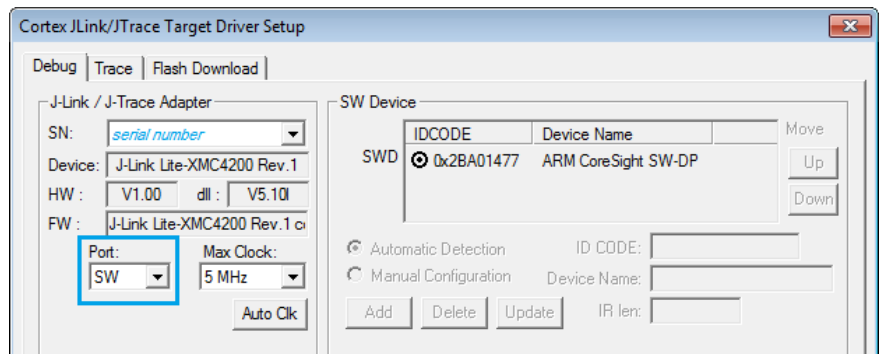
- MDK Version 5 www.keil.com/mdk5
- Getting Started User's Guide www.keil.com/gsg
- MDK-Professional Middleware www.keil.com/middleware
- Learning Platform www.keil.com/learn

J-LINK / J-TRACE Cortex

Select the **J-LINK / J-TRACE Cortex** driver on the **Debug** tab.



Click on **Settings** and select the **SW** Port to configure the Serial Wire Debug (SWD) port.



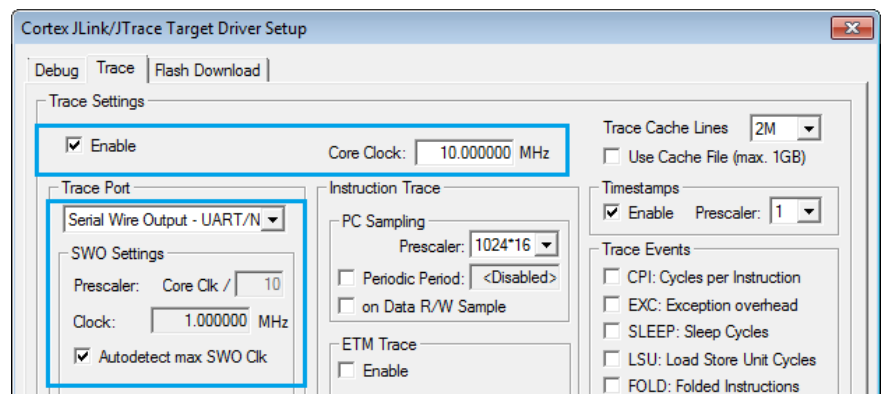
Trace Settings

For trace capability, configure ITM Trace by selecting the **Trace** tab.

Check **Enable** in **Trace Settings** and set the **Core Clock** speed to correspond to the CPU Core Clock.

Set **Trace Port** to *Serial Wire Output – UART/NRZ*.

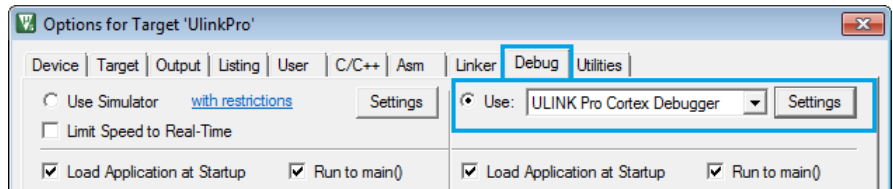
Ensure to set the **SWO Clock** speed to maximum *1.000000 MHz*.



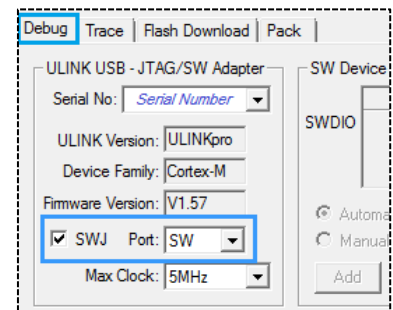
ULINKPro Debug and Trace Adapter

Connect the board to the PC using the **Cortex Debug+ETM Connector** and a debug adapter, for example *ULINKpro*. In μ Vision, select

Project – Options for Target – Debug and choose **ULINK Pro Cortex Debugger**.



Click **Settings** and configure the **Debug** connection for Serial Wire Debug (SWD) by selecting the Port **SW**.



Trace Settings

For full trace capability, configure ITM Trace by selecting the **Trace** tab.

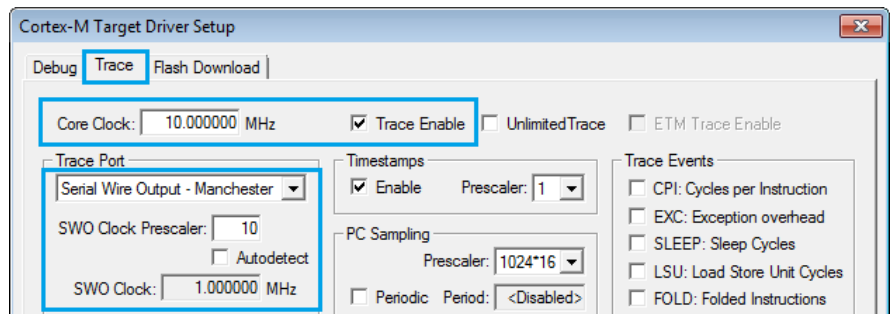
Check the **Trace Enable** box.

Set the **Core Clock** speed to correspond to the CPU Core Clock.

Set **Trace Port** to

Serial Wire Output – Manchester.

Ensure to set the **SWO Clock** speed to maximum *1.000000 MHz*.



Other trace configuration settings are described in the **ULINKpro User's Guide**.

Go to www.keil.com/mdk5/ulink/ulinkpro. Choose **ULINKpro User's Guide** in the **Quick Links** and continue with chapter **Configure Cortex-M Devices for Tracing**. Select the section that applies to the device used in the project target and continue with the topic **Enable 4-Pin Trace (ETM)**.