



Install Keil MDK Version 5

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

Add Software Pack using the Pack Installer

- **Keil::STM32F4xx_DFP** STMicroelectronics STM32F4 Series Device Support
- Keil::STM32NUCLEO_BSP STMicroelectronics NUCLEO Board Support

Power up the board

- Do **not** connect the board to the PC! Go to C:\Keil_v5\ARM\STLink\USBDriver and double-click **stlink winusb install.bat** to install the drivers for the on-board USB ST-Link/V2.
- Connect a USB power supply USB ST-Link/V2 port to the computer using a Mini USB cable.
 Windows recognizes the ST-Link/V2 device and installs the drivers automatically.

Verify Installation using example projects provided in the Software Pack

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

More Information

Getting Started User's Guide <u>www.keil.com/gsg</u>

Board Information http://www.keil.com/boards2/st/nucleo-f446re

Related Products

MDK Version 5 www.keil.com/mdk5

MDK-Professional Middleware www.keil.com/mdk5/middleware

Debug and Trace Configuration





Enable ST-Link Debugger

Select **Options for Target** or press **ALT+F7**.

Go to the **Debug** tab and select the **ST-Link Debugger**.



Connect Using SWD

Click on the **Settings** button. On the **Debug** tab select the Port **SW**. This board does not support |TAG.



Configure Trace using Serial Wire Viewer

Go to the **Trace** tab and enter the correct CPU **Core Clock** speed as specified in your project. Check the **Trace Enable** box.

When debugging, the Status bar shows information about the Trace connection.

