Quick Start Guide

STMicroelectronics 32F429I Discovery Board

ARM KEIL
Microcontroller Tools

Reset Button
USB ST-Link/V2
User Button
User LEDs (3..4)
TFT LCD Display
Micro USB OTG FS

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

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.
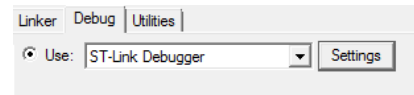
More Information

- Getting Started User's Guide   www.keil.com/gsg
- Board Information   www.keil.com/boards2/st/stm32f429i_discovery
- STM32F4 Discovery User's Guide   www.st.com/stm32f4-discovery

Related Products

- MDK Version 5   www.keil.com/mdk5
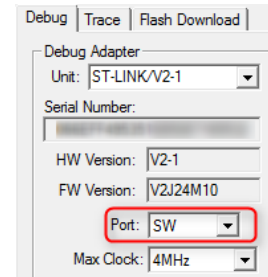- MDK-Professional Middleware   www.keil.com/mdk5/middleware

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 JTAG.

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.

Note:

To use trace, you have to close the solder bridge **SB9** on the board. Refer to the documentation on the STMicroelectronics webpage for further instructions.

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