

## Install Keil MDK Version 5 - www.keil.com/mdk5/install

Download and install MDK Core and add these Software Packs:

- Keil::STM32F7xx_DFP - STMicroelectronics STM32F7 Series Device Support

Verify the installation using example projects provided in the Software Packs:

- Connect a 5V/2A power supply to the Power receptacle.
- Do not connect the board to the PC! Go to C:IKeil_v5\ARMISTLink\USBDriver and doubleclick stlink_winusb_install.bat. The USB drivers for the on-board ST-Link/V2 will install.
- Connect the board's Debug \& Power port to your computer using a Mini USB cable.

Windows will now recognize the ST-Link/V2 device and install the drivers automatically.

## More Information

- Getting Started User's Guide
- ARM Cortex-M7 Support
www.keil.com/gsg
www.keil.com/mdk5/cortex-m7


## Related Products

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


## ST-Link Debugger

| W. Options for Target 'STM32F756 Flash' |  |  |  |  | $x^{-}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Device \| Target | Output | Listing | User | + ${ }^{\text {asm }}$ | Linker Debug \| Utilities | |  |  |  |
| $\begin{aligned} & C \text { Use Simulator with restrictions } \\ & \Gamma \text { Limit Speed to Real-Time } \end{aligned}$ | Settings | C. Use: ST-Link Debugger | $\cdots$ | Settings |  |


| Cortex-M Target Driver Setup |  |
| :---: | :---: |
| Debug \|Trace | Flash Download | |  |
| -Debug Adapter |  |
| Unit: ST-LINKN2.1 | $\checkmark$ |
| Serial Number: |  |
| 066EFF525053885087053533 |  |
| HW Version: V2-1 |  |
| FW Version: V2J24M11 |  |
| Port: SW |  |
| Max Clock: 4 MHz | $-$ |

- Connect using Serial Wire Debug (SWD) by selecting the Port SW.
- Configure ITM Trace by selecting the Trace tab and enter the correct CPU Core Clock speed
 as specified in your project. Check the Trace Enable box.


## Trace with ULINKpro

For full trace capability, connect a ULINKpro to the board's Trace connector and choose ULINK Pro Cortex Debugger. Configure ETM trace for instruction tracing:


Note: You need to lower the core clock as trace is not supported for clock frequencies above 180 MHz on this microcontroller device.

## More Information

- Getting Started User's Guide www.keil.com/gsg

