Quick Start Guide

STMicroelectronics 32F746GDISCOVERY Board



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:

- Do not connect the board to the PC! Go to C:\Keil v5\ARM\STLink\USBDriver and double-• click 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:
 - www.keil.com/mdk5 MDK-Professional Middleware: www.keil.com/mdk5/middleware

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Microcontroller Tools

Debug and Trace Configuration

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Enable ST-Link Debugger

Select **Options for Target** so press **ALT+F7**. Go to the **Debug** tab and select the **ST-Link** Debugger.

Linker D	ebug Utilities		
Ose:	ST-Link Debugger	•	Settings

Connect Using SWD

Click on Settings next to ST-Link Debugger. On the **Debug** tab select the Port SW. This board does not support JTAG.

Debug	Trace F	Flash Download		
Debug Adapter				
Unit: ST-LINK/V2-1				
Serial Number:				
	Mamian	V2 1		
	Version.	V2-1		
PVV Version. V2J24WTU				
	Port:	ISW -		
1	Max Clock:	4MHz ▼		

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.

Debug Trace Rash Download					
Core Clock: 216.000000 MHz	✓ Trace Enable				
Trace Port Serial Wire Output - UART/NRZ SWO Clock Prescaler: 108 Autodetect SWO Clock: 2.000000 MHz	Timestamps Trace Events Image: Enable Prescaler: Image: CPI: Cycles per Instruction PC Sampling EXC: Exception overhead Prescaler: 1024*16 • Image: Prescaler: 1024*16 • Image: Prescaler: CPI: Cycles per Instruction Image: Prescaler: 1024*16 • Image: Prescaler: CPI: Cycles per Instruction Image: Prescaler: 1024*16 • Image: Prescaler: CPI: Cycles per Instruction Image: Prescaler: 1024*16 • Image: Prescaler: CPI: Cycles per Instruction Image: Prescaler: 1024*16 • Image: Prescaler: CPI: Cycles per Instruction Image: Prescaler: 1024*16 • Image: Prescaler: CPI: Cycles per Instruction Image: Prescaler: 1024*16 • Image: Prescaler: CPI: Cycles per Instruction Image: Prescaler: 1024*16 • Image: Prescaler: CPI: Cycles per Instruction Image: Prescaler: CPI: Cycles per Instruction Image: Prescaler: CPI: Cycles per Instruction Image: Prescaler: Image: Prescaler: Image: Prescaler:				
ITM Stimulus Ports 31 Port 24 23 Port 16 15 Port 8 7 Port 0 Enable: 0xFFFFFFFF Image: <t< td=""></t<>					

More Information

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