MDK-ARM Installation

MDK-ARM Installation

1. Software Download
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    2. Select product
    3. Fill in information
    4. Download the installation package
2. Software installation
    1. Open the installation package
    2. Installation process-settings
3. Software configuration
    1. Open the application
    2. Close the start interface
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4. ARM Compiler
    1. Install the compiler
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    3. Verify the installation

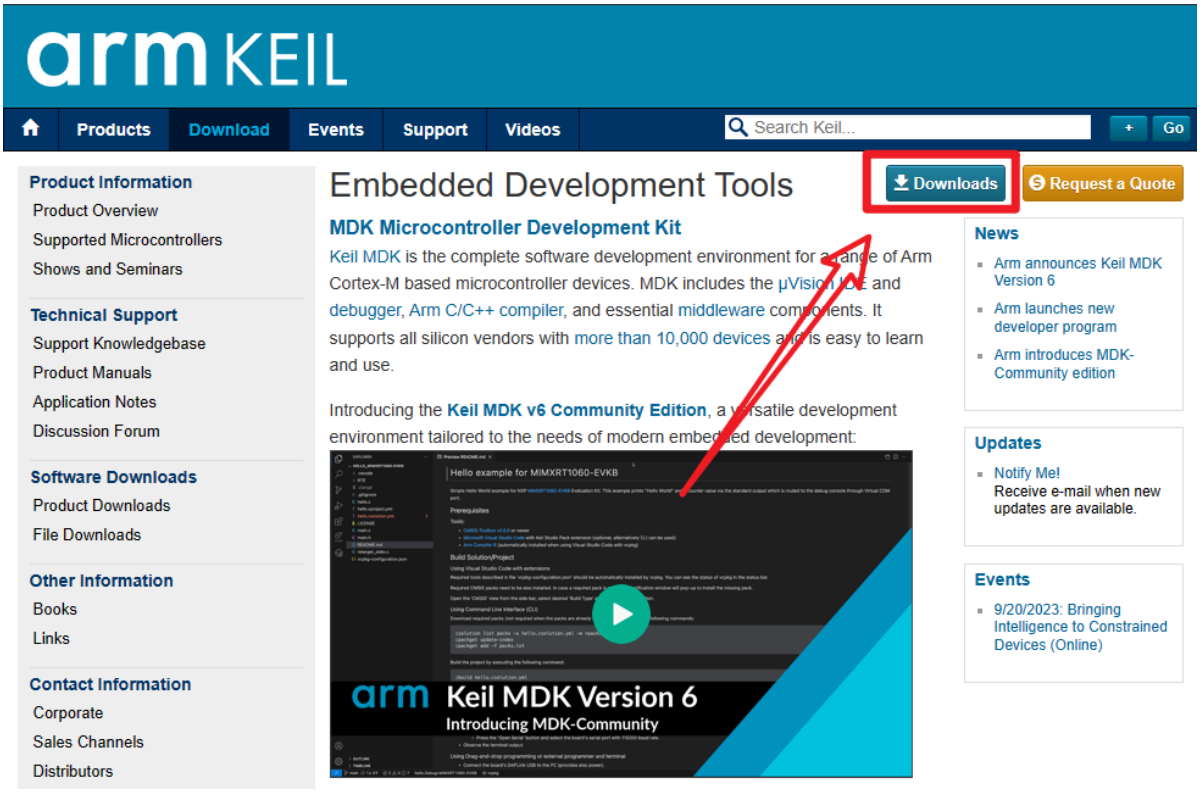
Since MDK-ARM software is a paid software, we will only demonstrate how to install it, and will not introduce the software usage and activation in detail!

```
Software offline installation package path: Attachment → Software Tools
```

1. Software Download

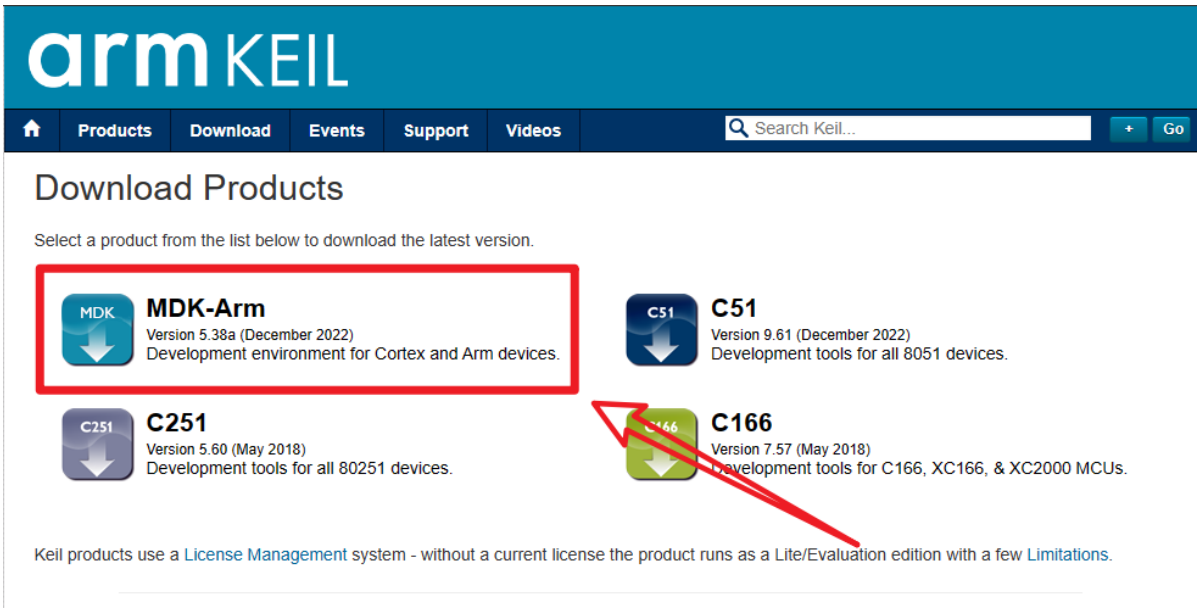
1. Download URL

Keil official website: https://www.keil.com/

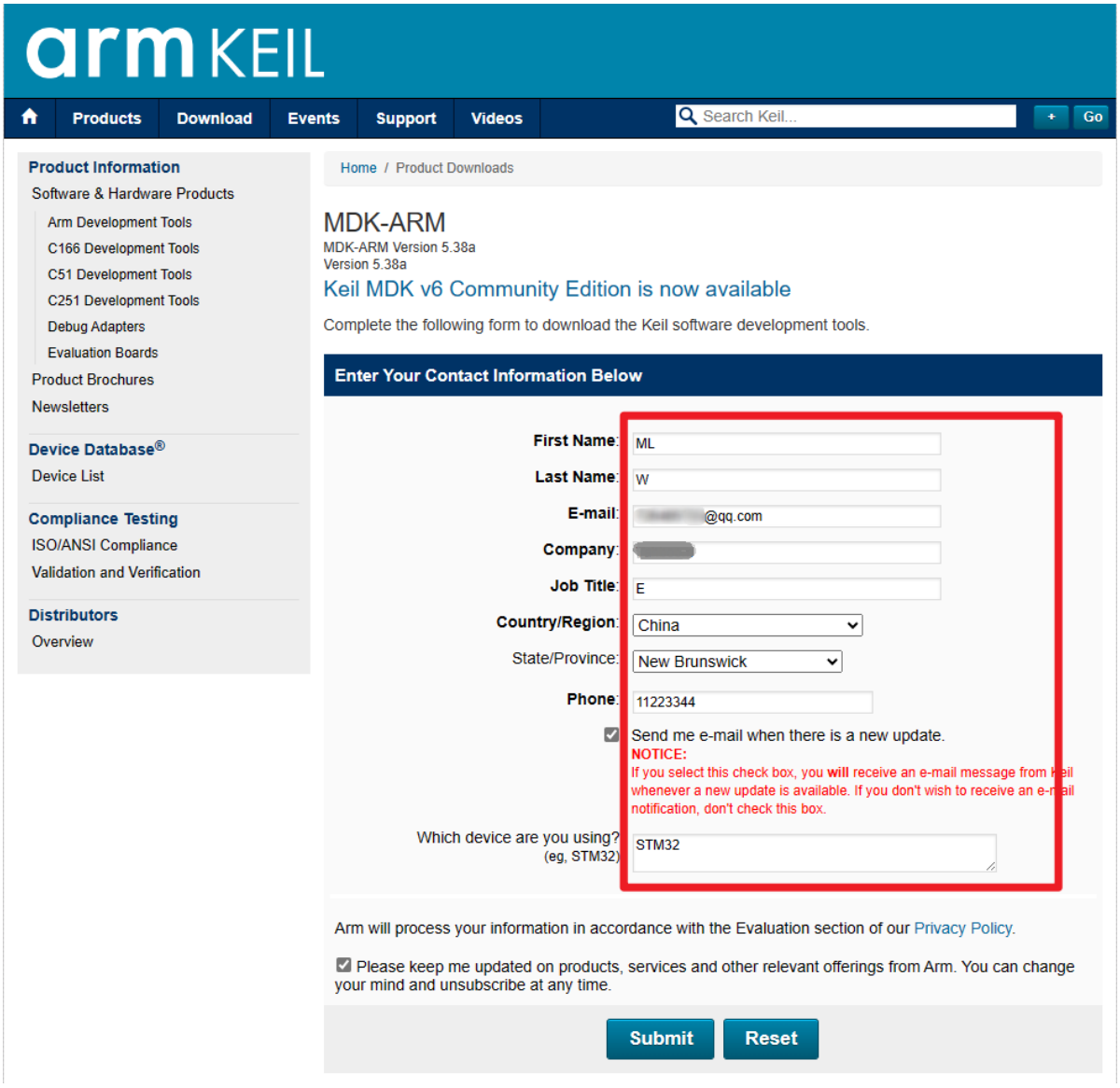


2. Select product

Download Products: MDK-Arm

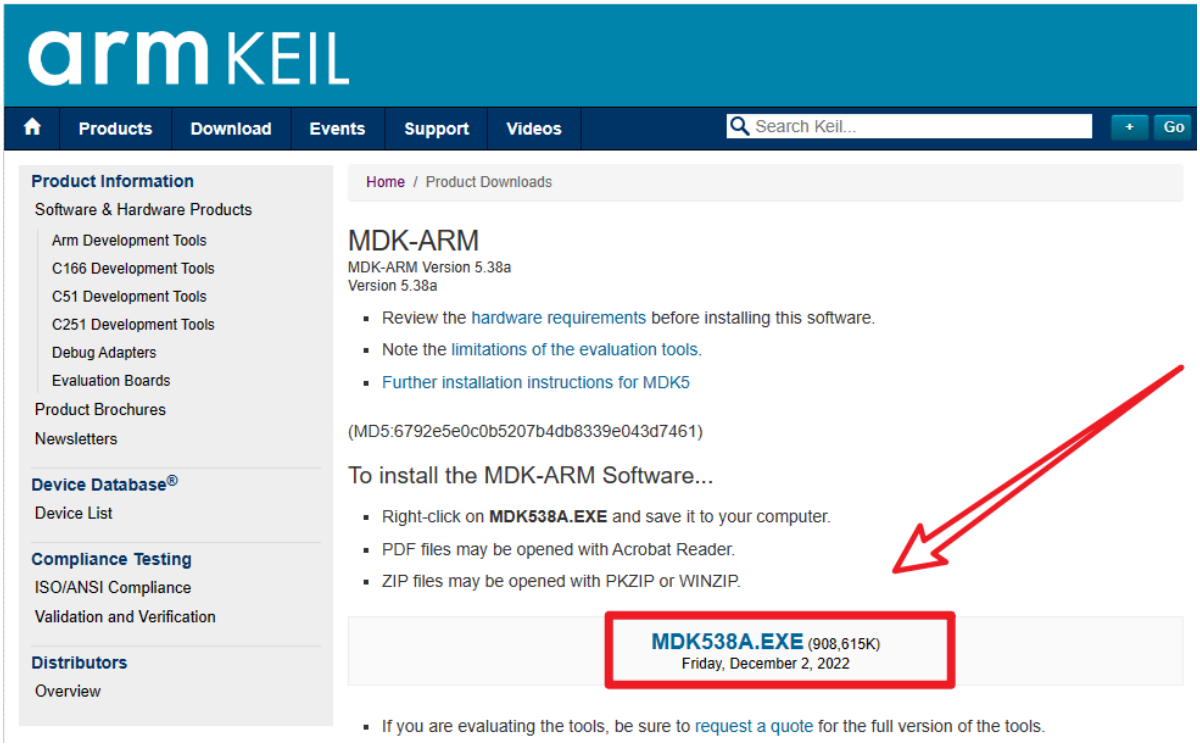


3. Fill in information



```
This content can be filled in at will
```

4. Download the installation package



2. Software installation

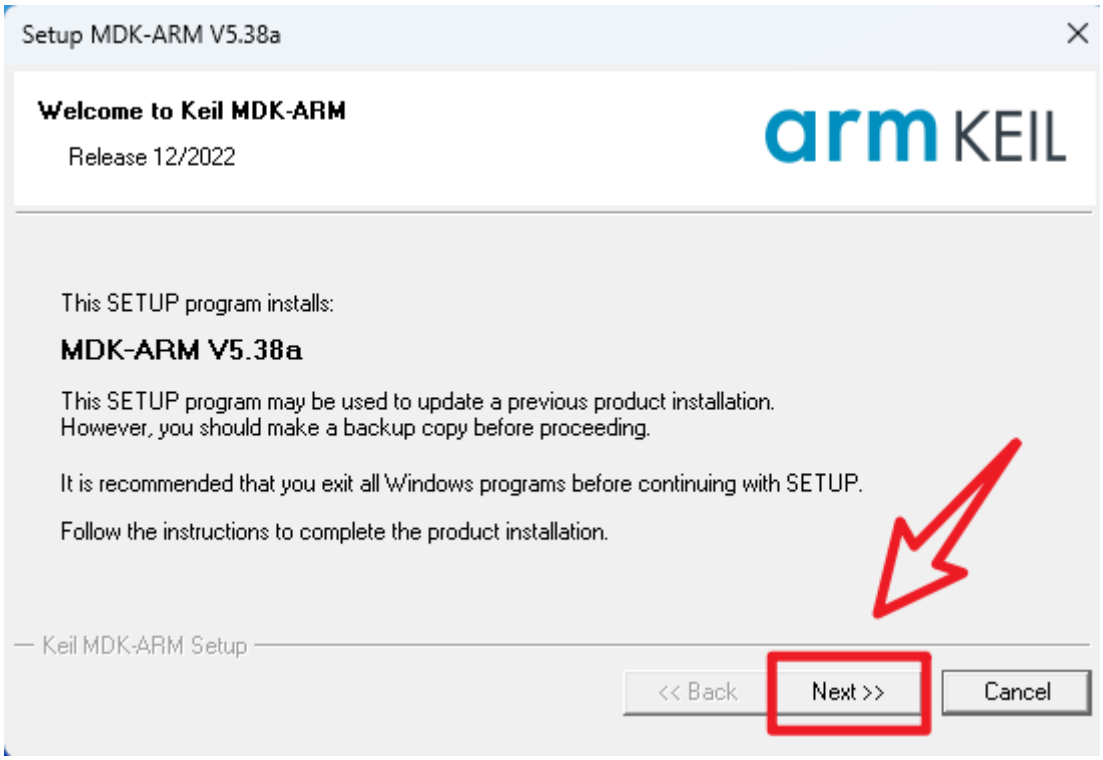
1. Open the installation package

- **Administrator**

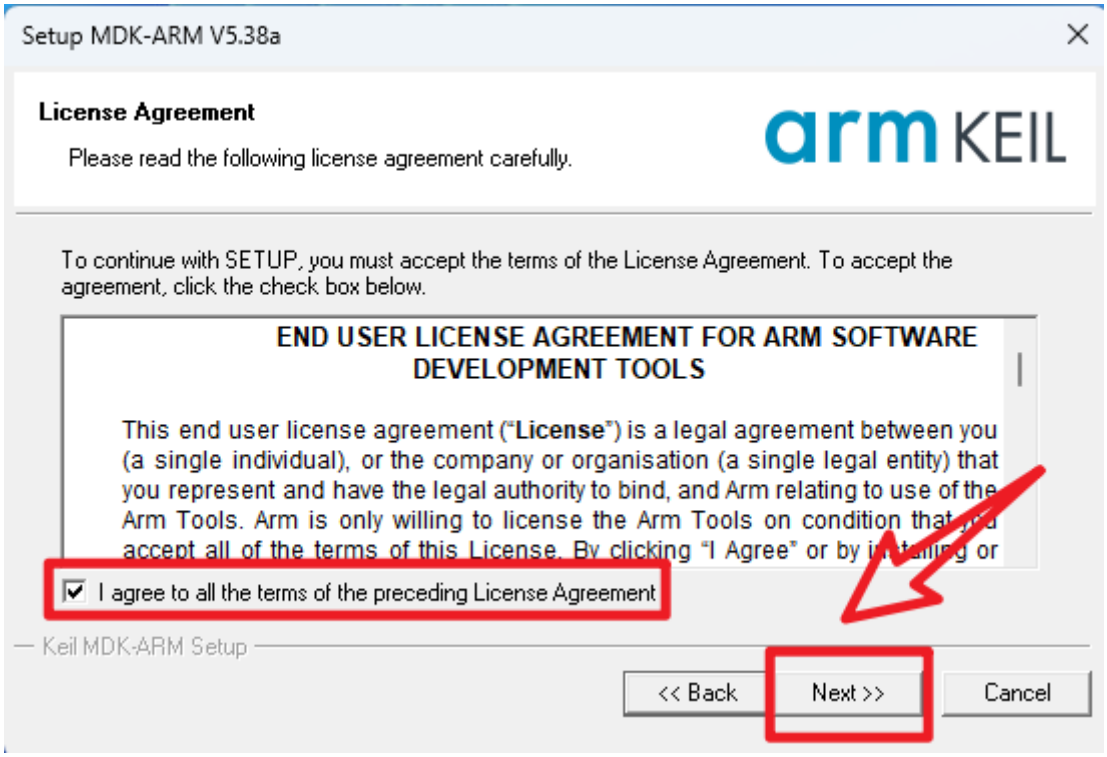
Open the MDK installation package as an administrator.

2. Installation process-settings

- **Next**

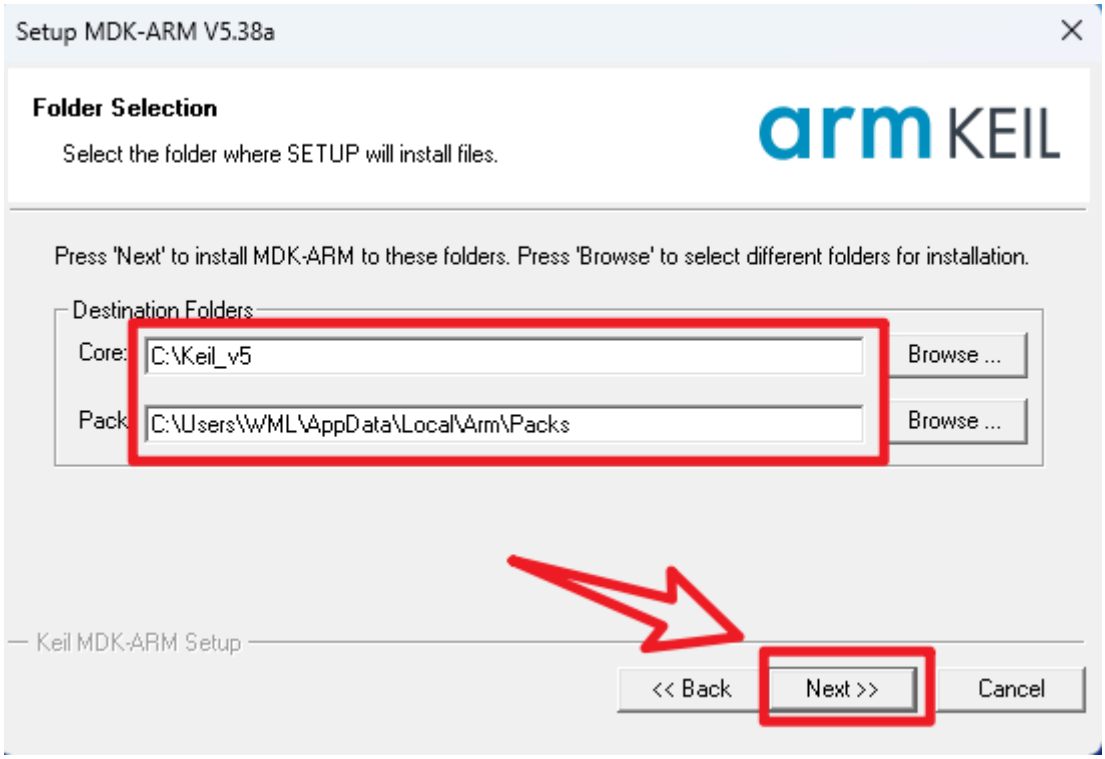


- **Check the agreement → Next**



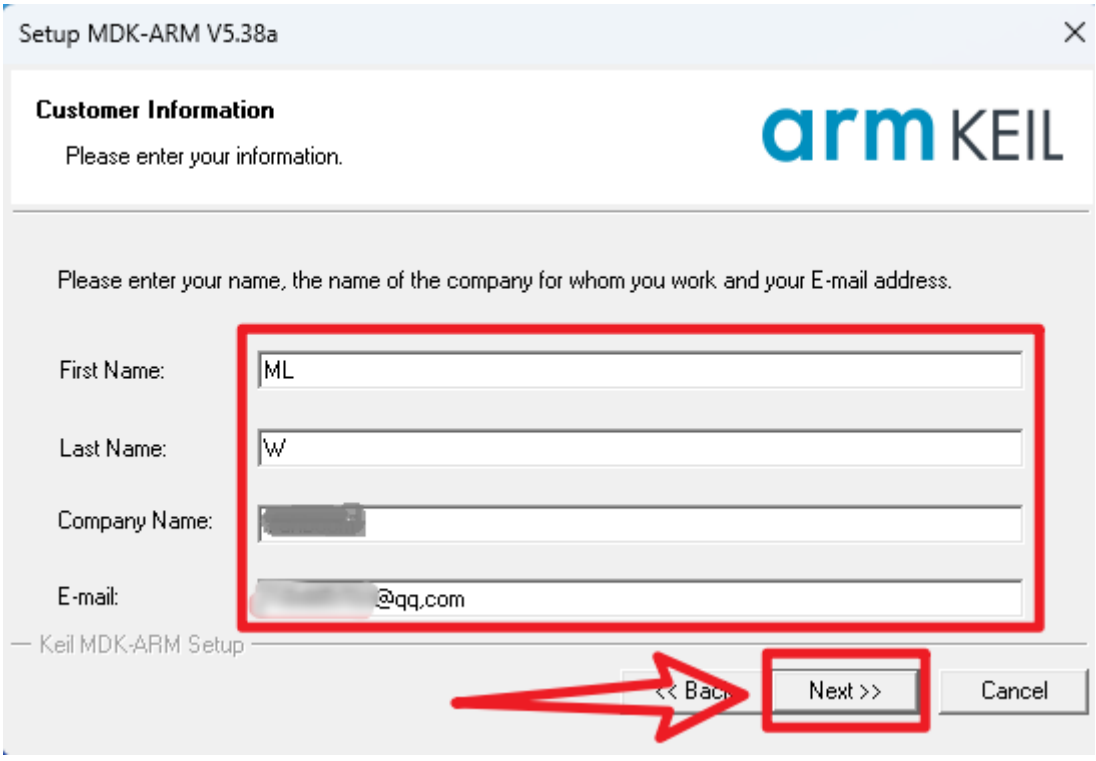
- **Installation location → Next**

```
It is recommended to use the system default location
```

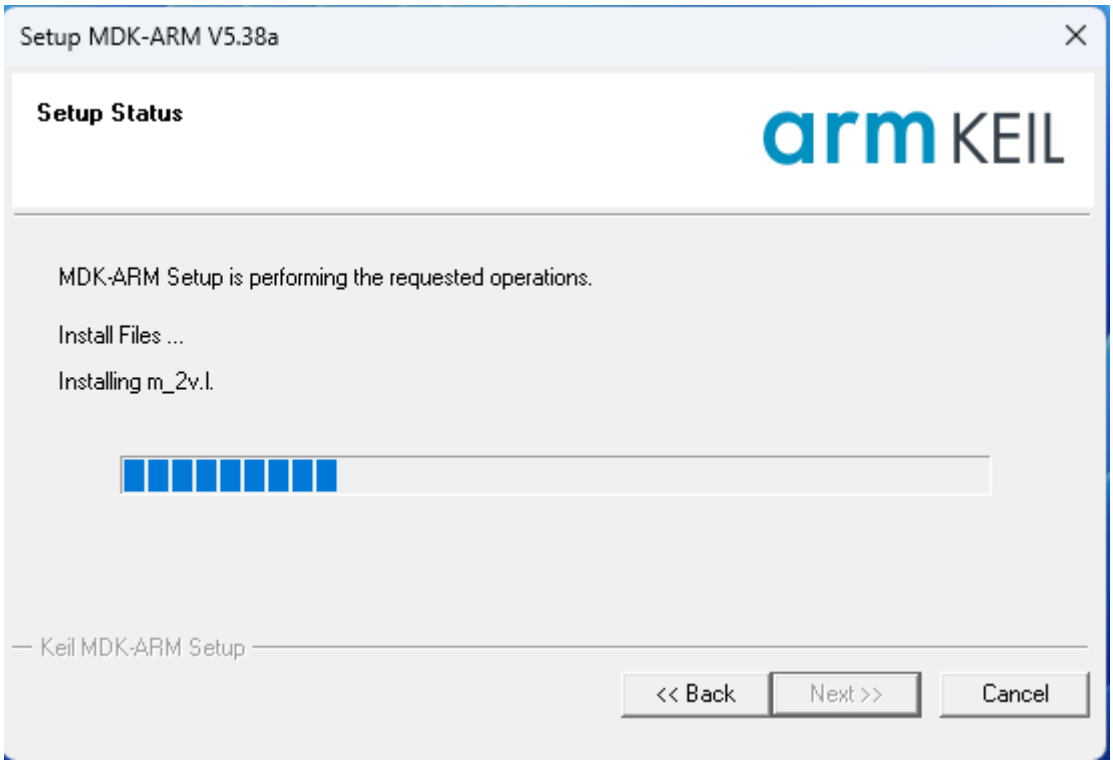


- **User information → Next**

```
You can fill in as you like
```



- **Waiting for installation**




```
This process takes a long time
```

- **ULINKL driver installation**

- **Installation completed**

3. Software configuration

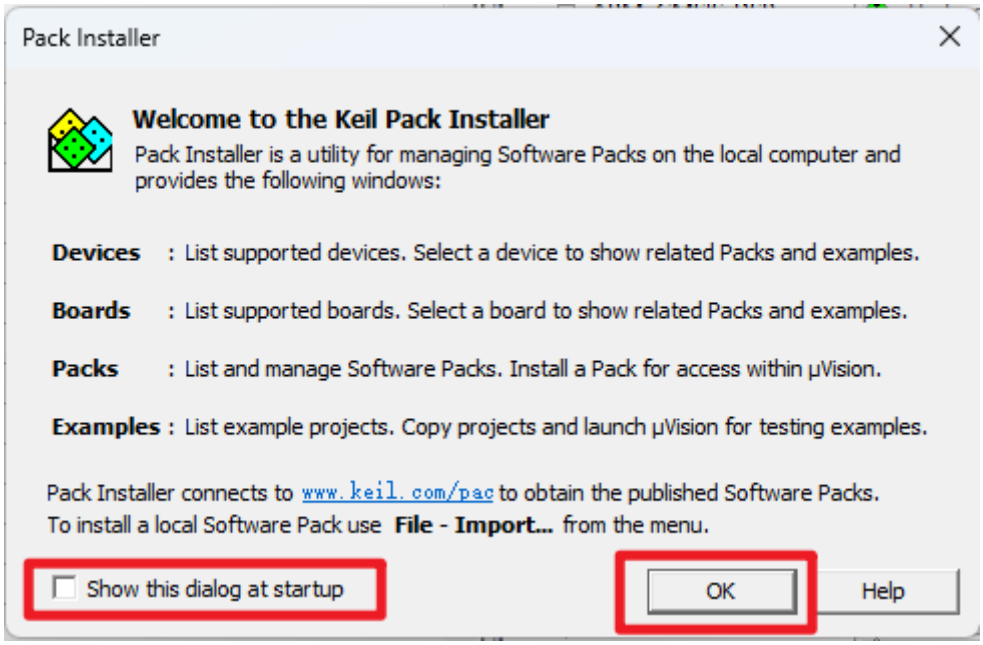
Install the chip package required during development

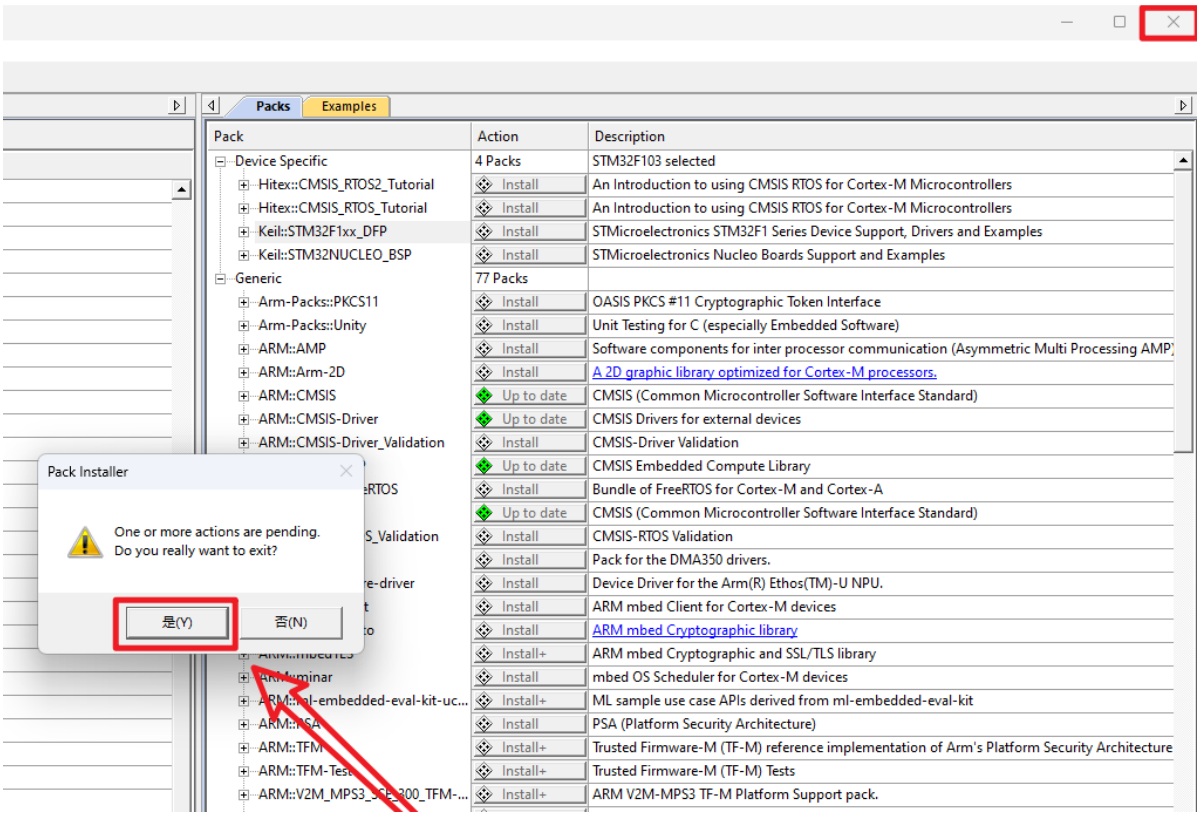
```
Tutorial demonstrates how to install the STM32F1xx series chip package
```

1. Open the application

Left mouse button: Double-click the desktop "Keil uVision5" icon

2. Close the start interface



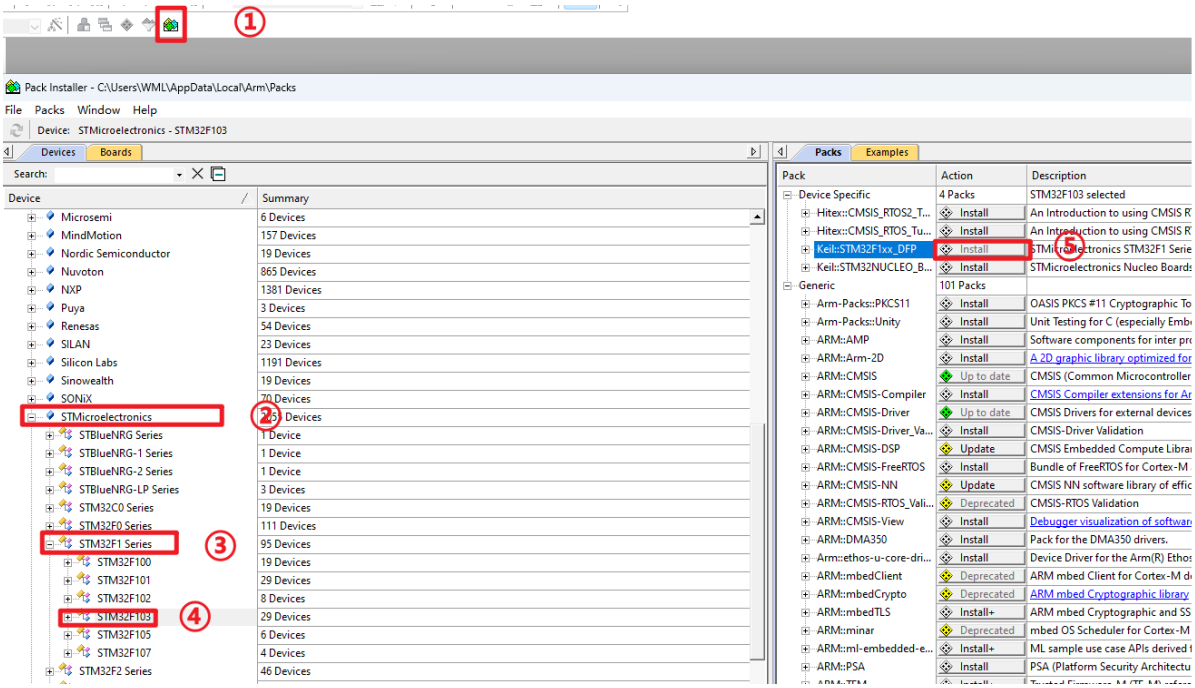


3. Install the chip support package

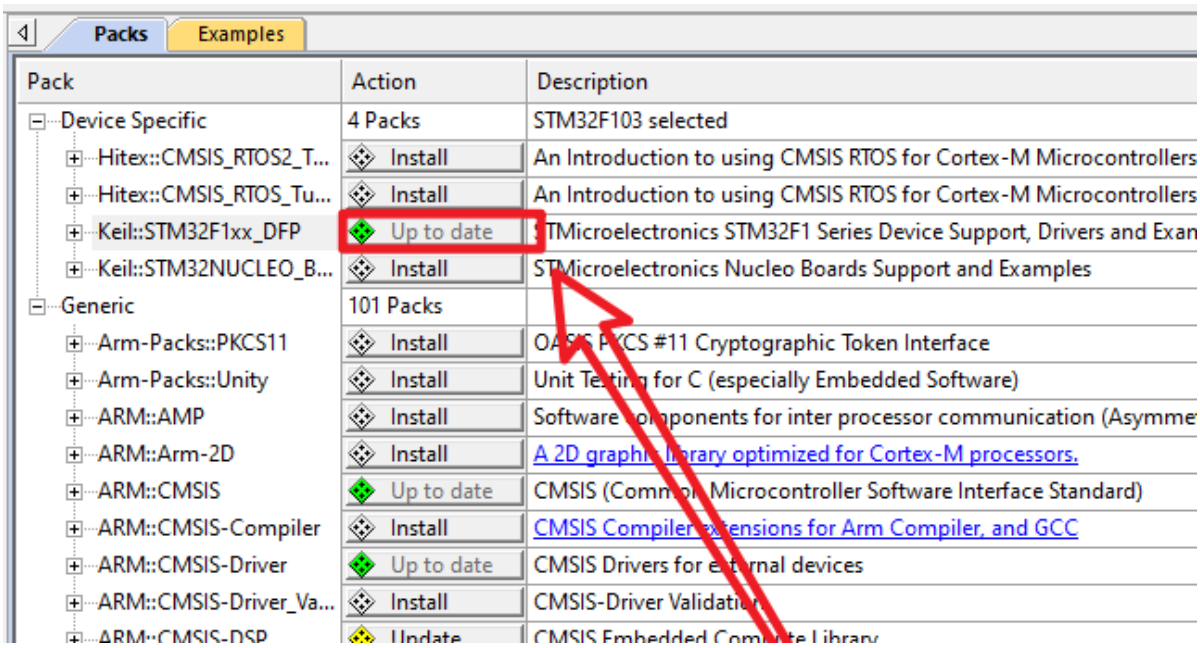
- **Pack Installer**

```
Keil software comes with it, loading is very slow, not recommended
```

Installing: The download and installation progress bar is in the lower right corner of the page



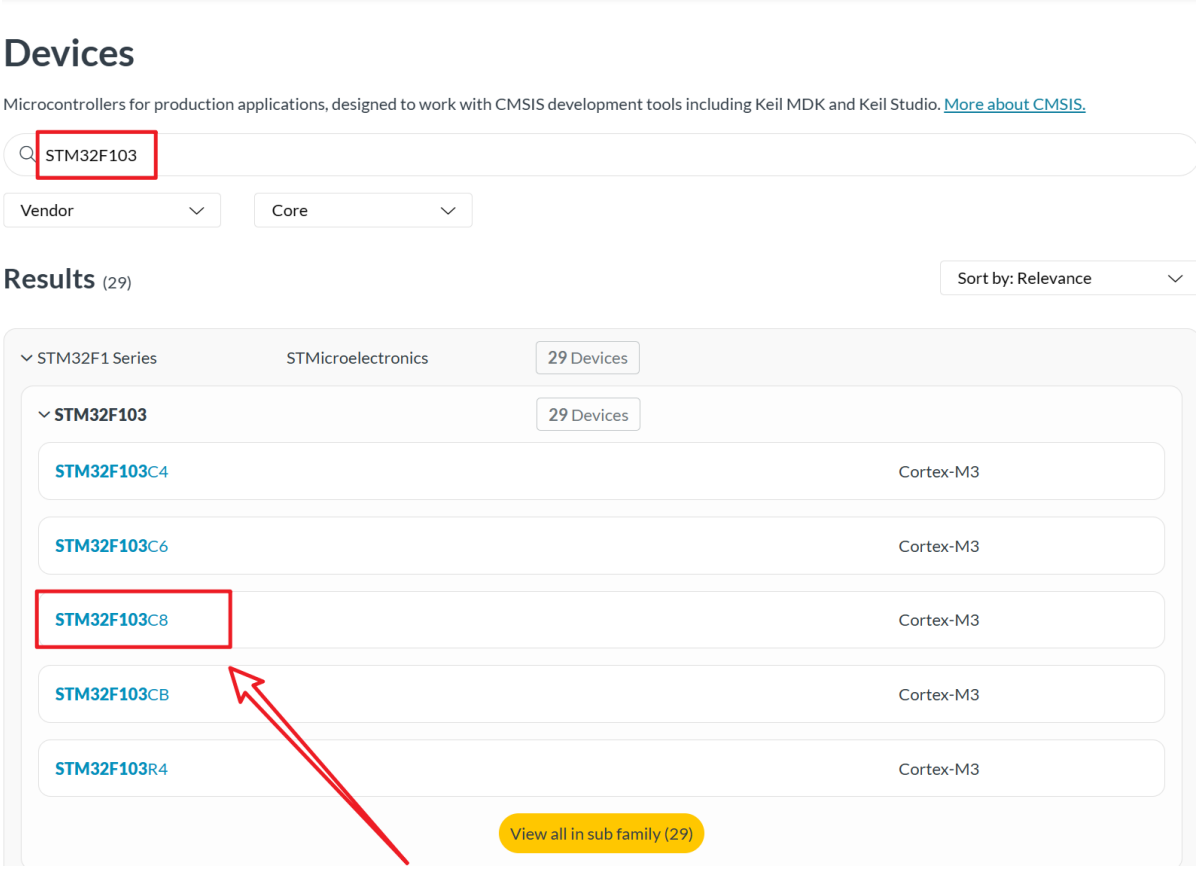
Installation completed: After the installation is completed, the update option "Up to date" will appear



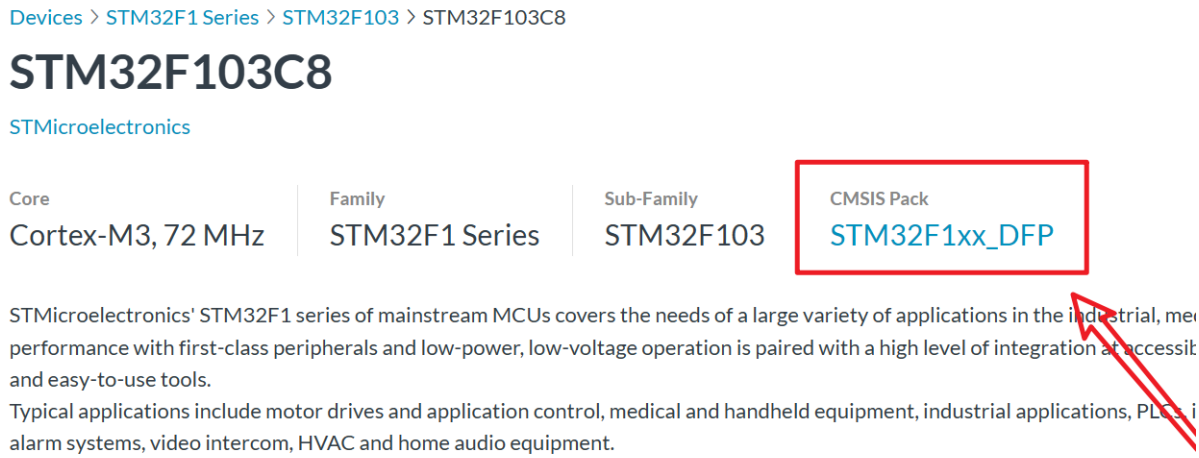
- **Official website download chip package**

Official website address: https://www.keil.arm.com/devices/

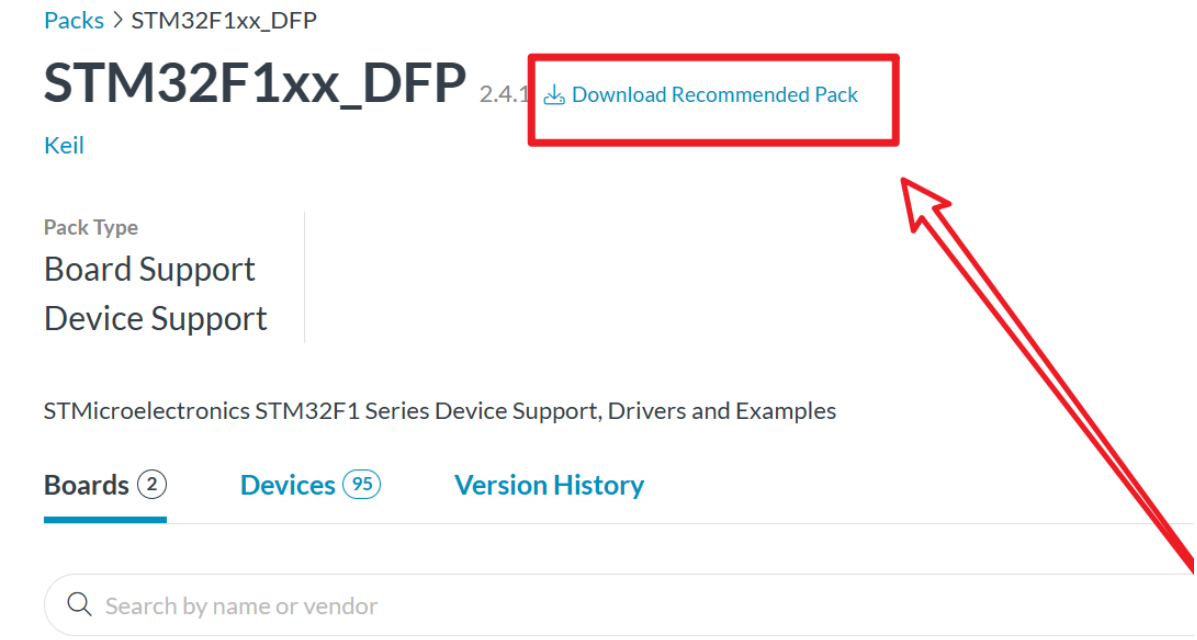
Search chip package: Search for STM32F103 and click on any chip



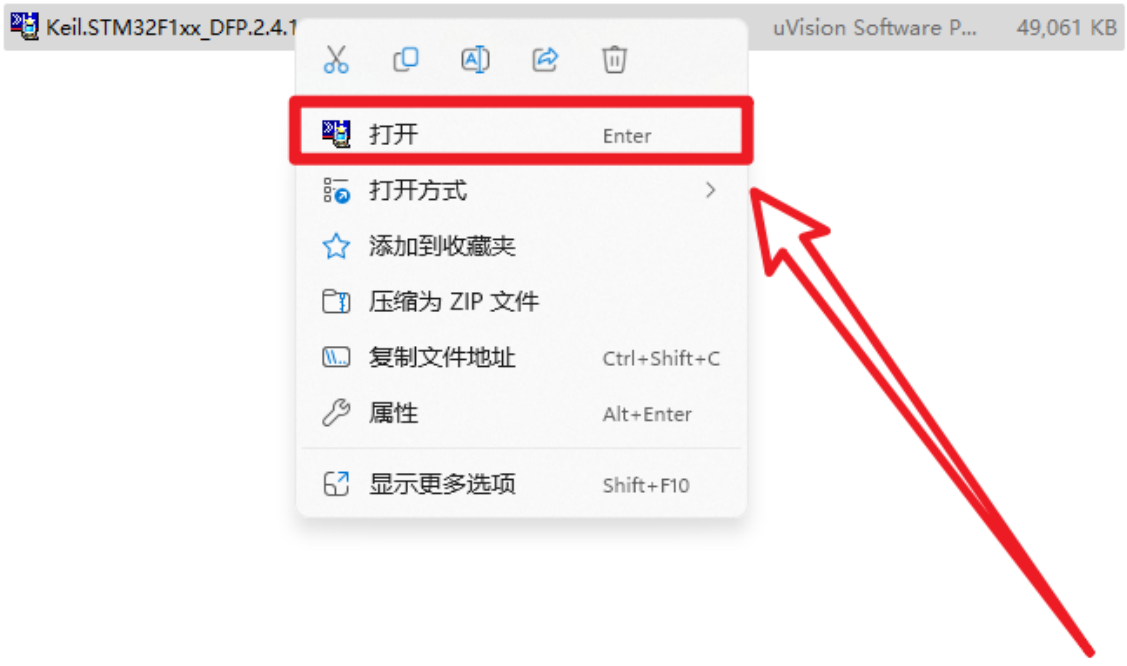
Download chip package: Click "STM32F1xx_DFP"



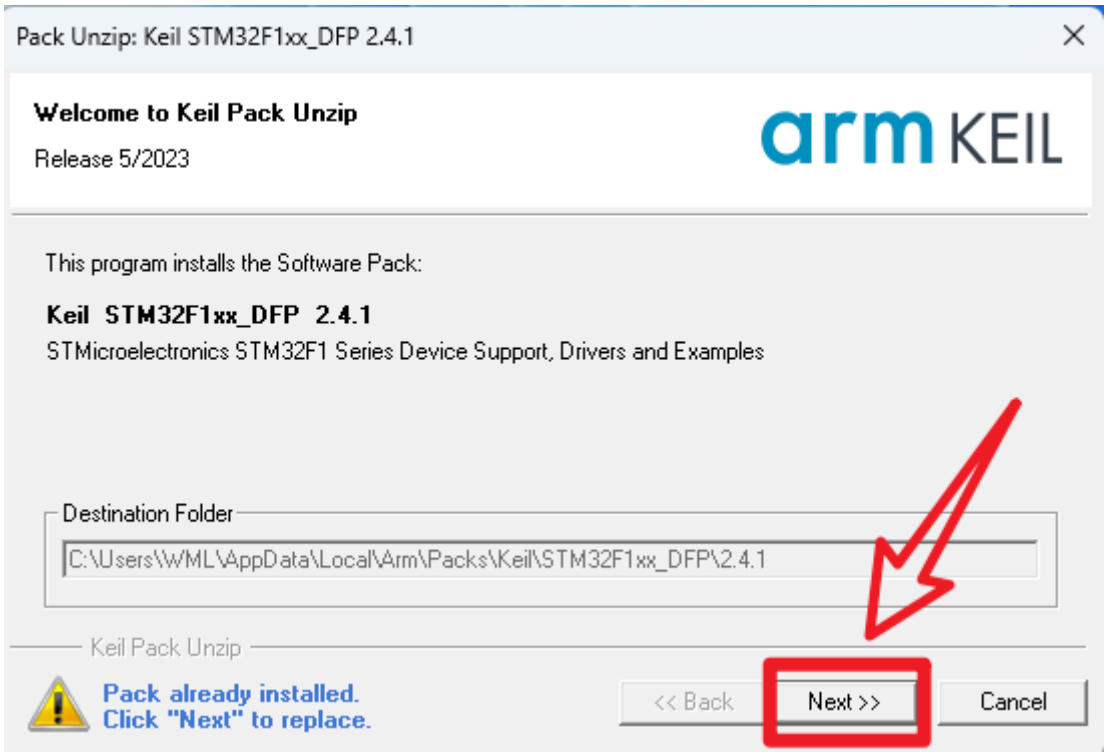
Download the official recommended chip package



Open chip support package: Keil.STM32F1xx_DFP.2.4.1

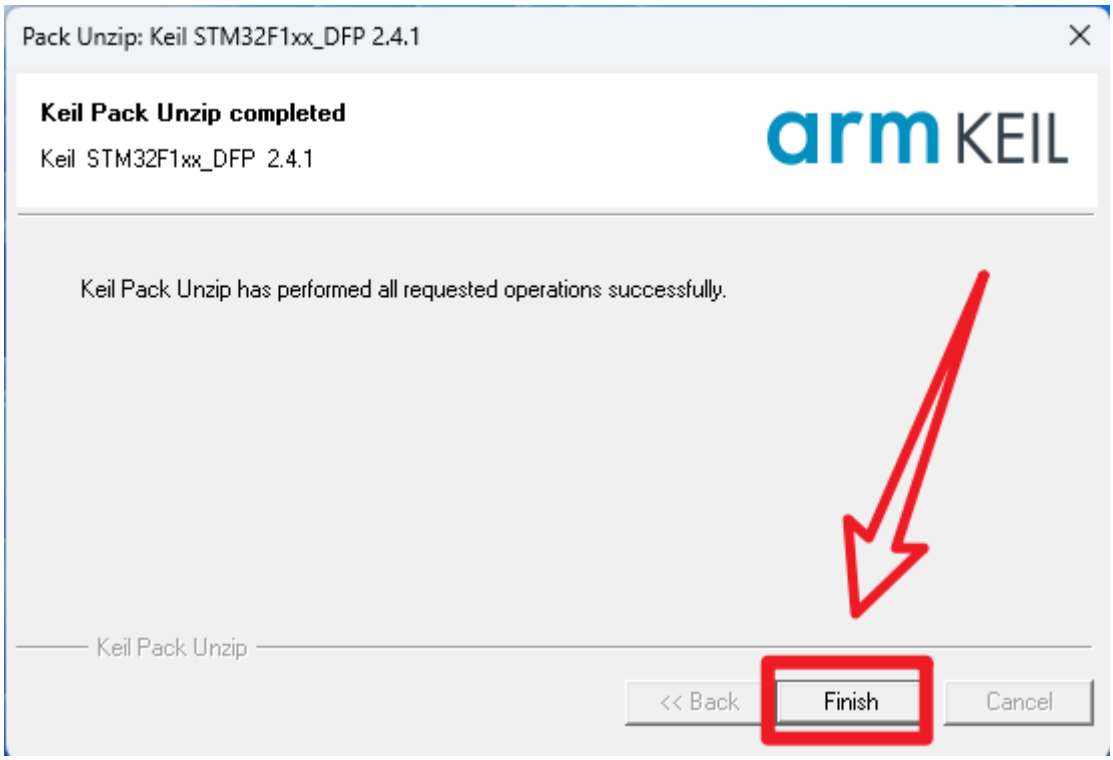


Install chip support package




```
Since I have installed the chip support package through the "Pack Installer"
option, a replacement prompt will appear during installation
```

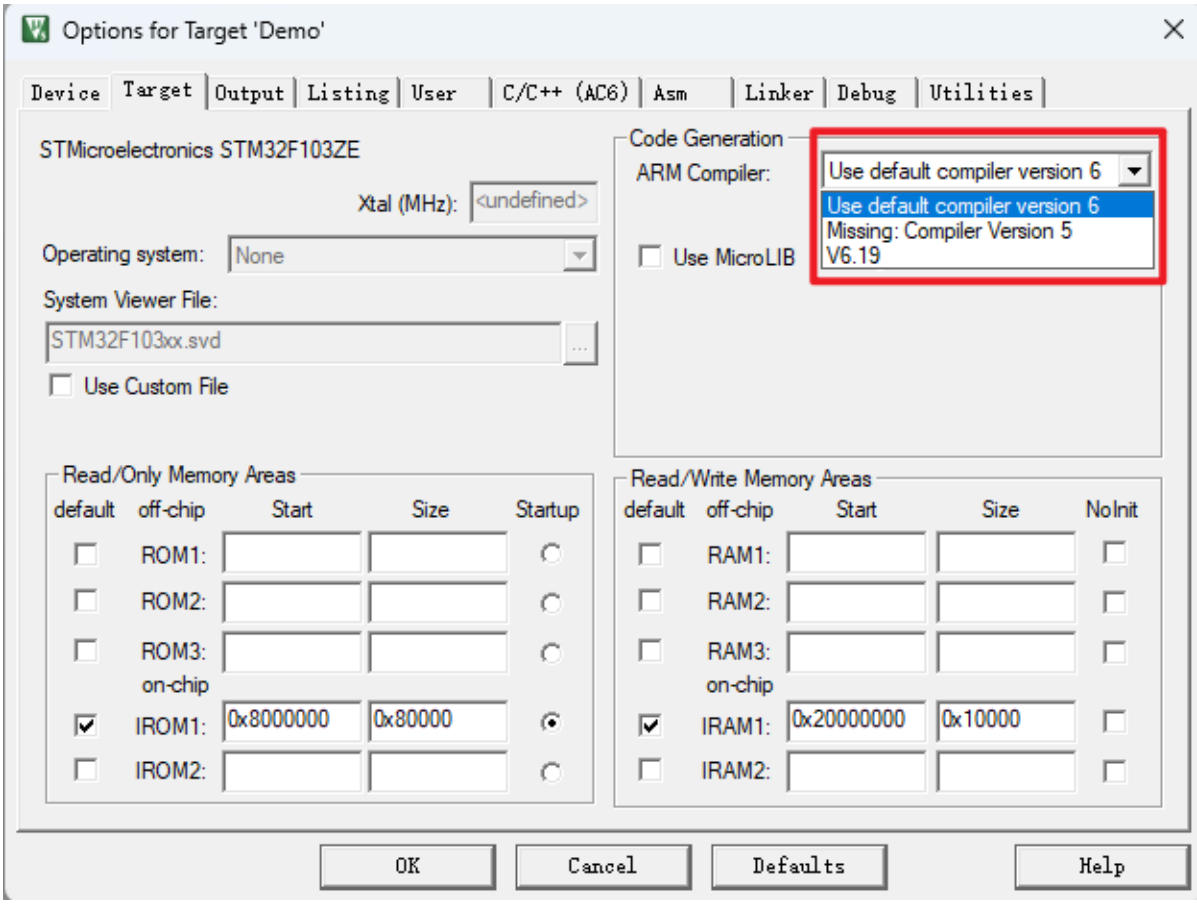
Installation completed



4. ARM Compiler

Starting from MDK5.37, the AC5 (ARMCC) compiler is no longer installed by default and needs to be installed independently.

```
You need to open a project before you can click this option. You can use the
template project provided in the document [Attachment → Source Code Summary] to
operate
```

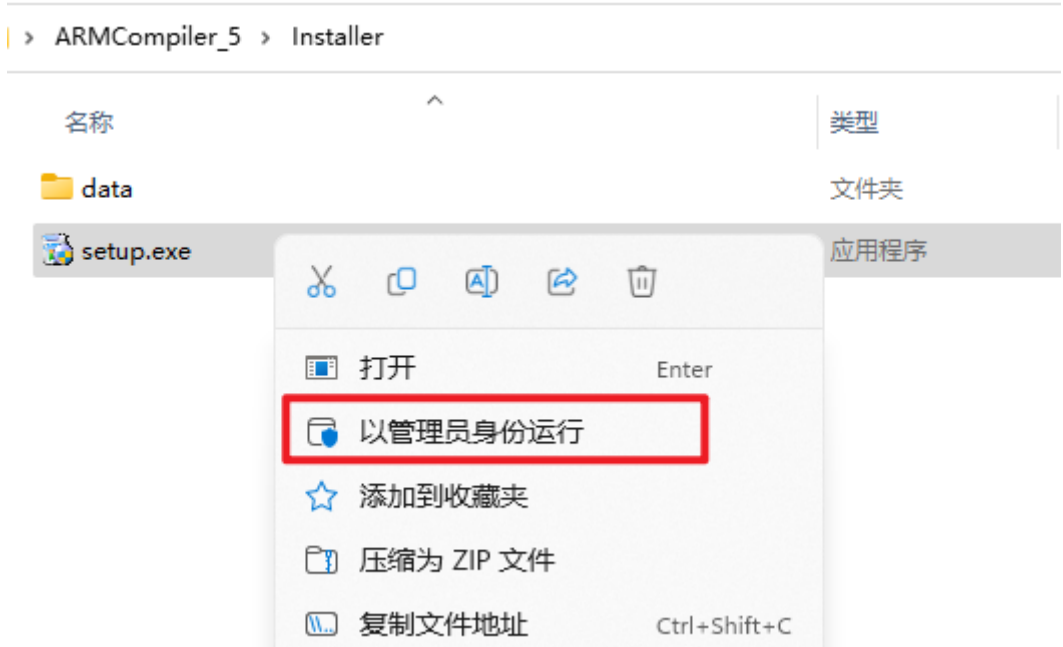


1. Install the compiler

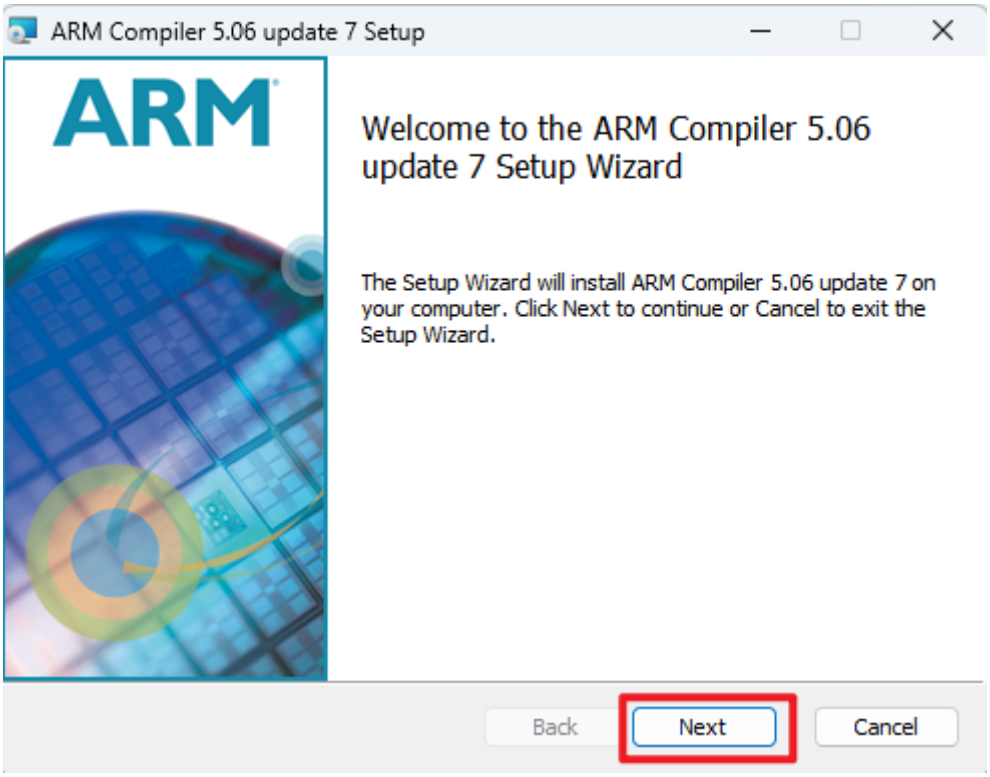
- **Unzip the compressed package**

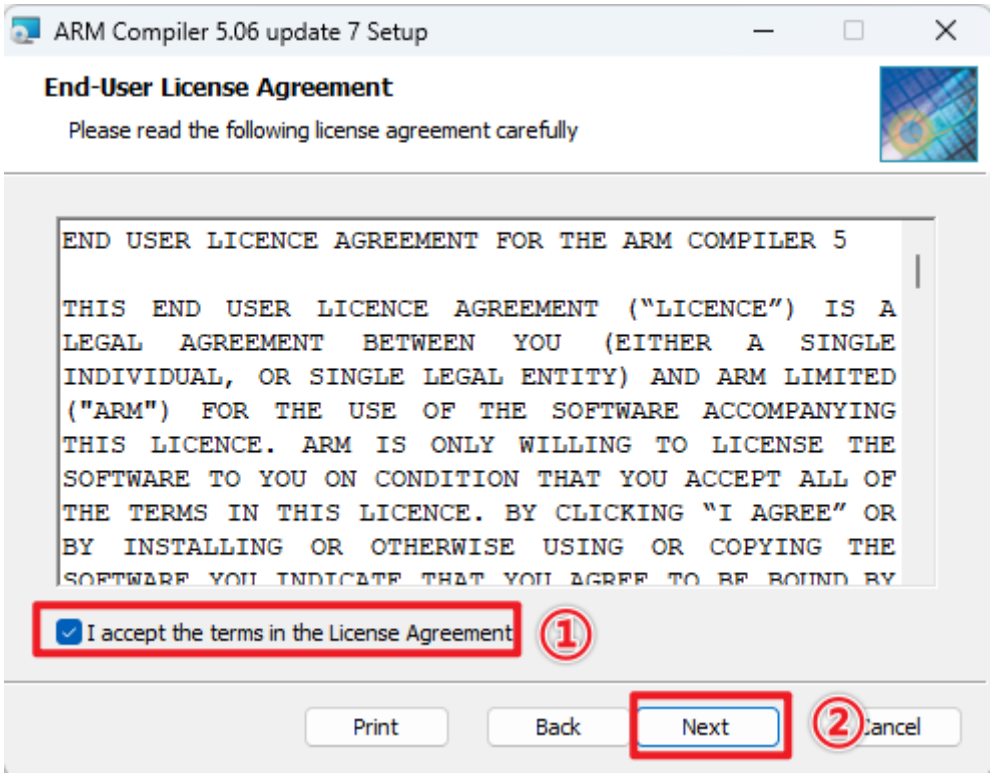
Unzip the ARMCompiler_5.zip file, the file location is under [Software-Project File] in this chapter

- **Open as Administrator**



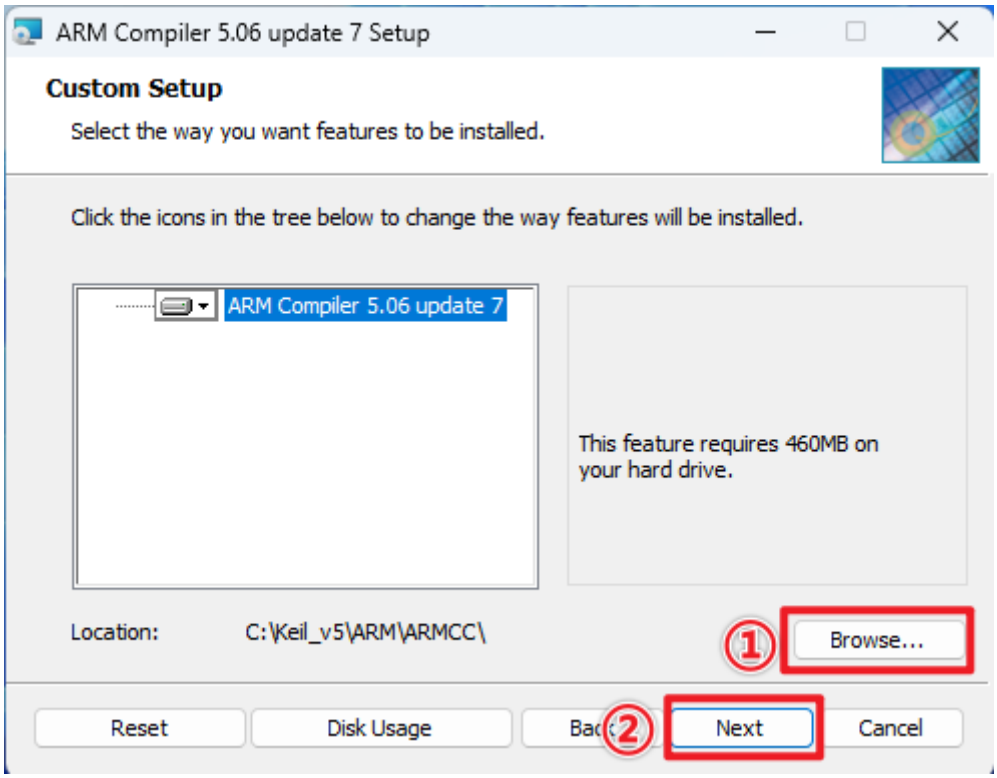
- **Next**

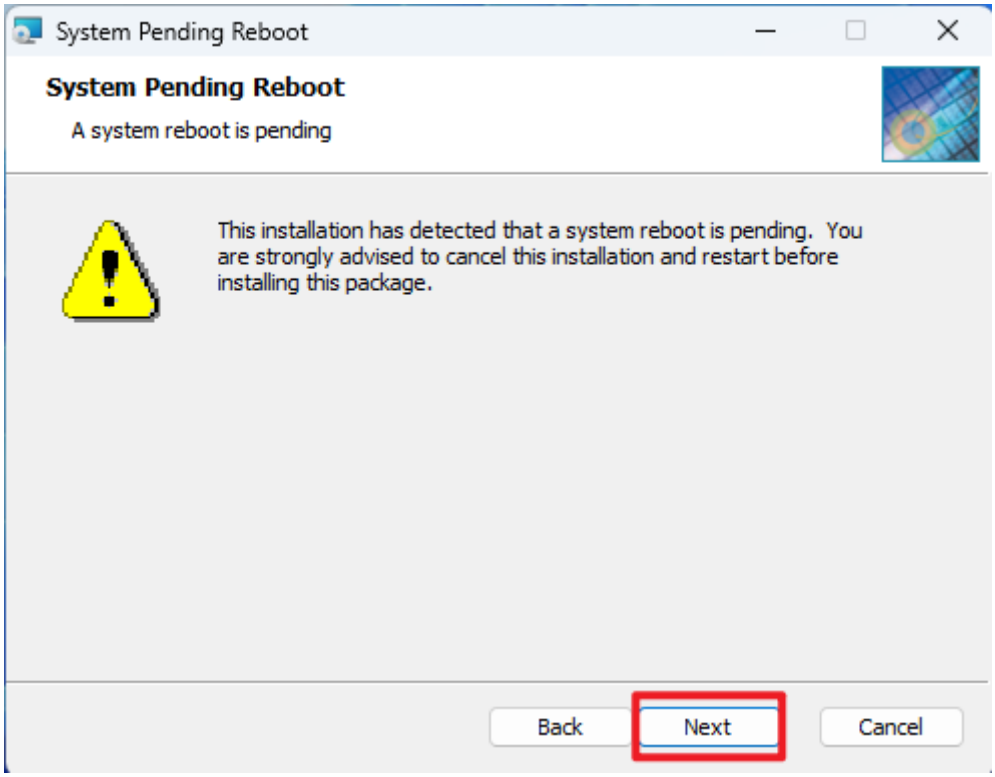




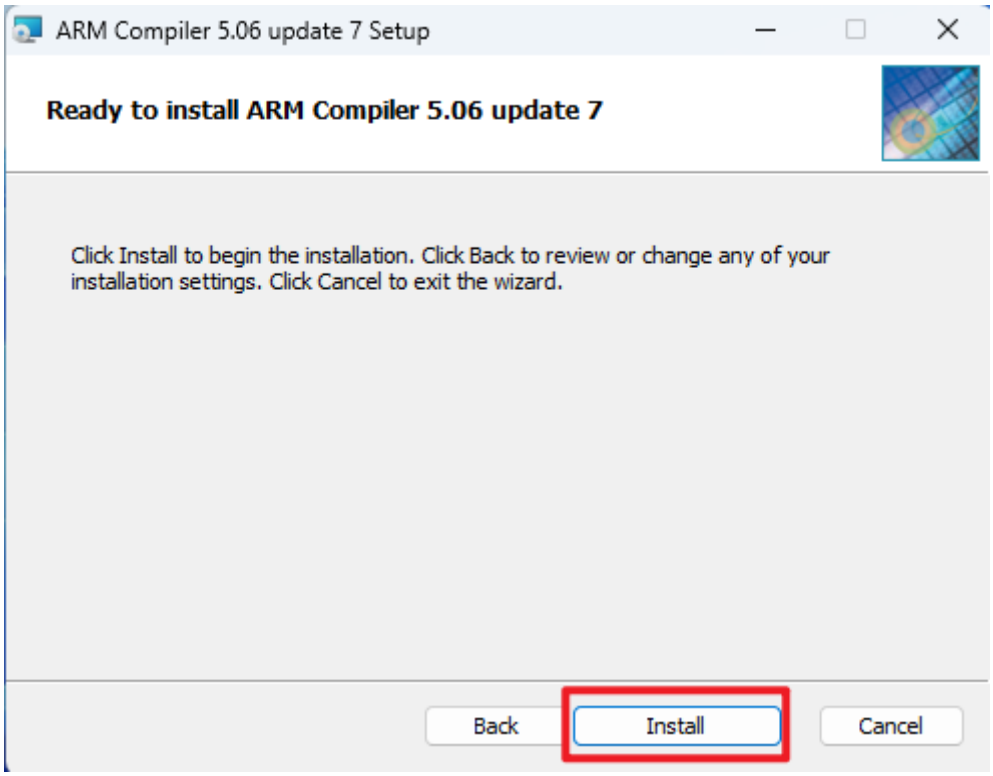
- **Modify the installation location**

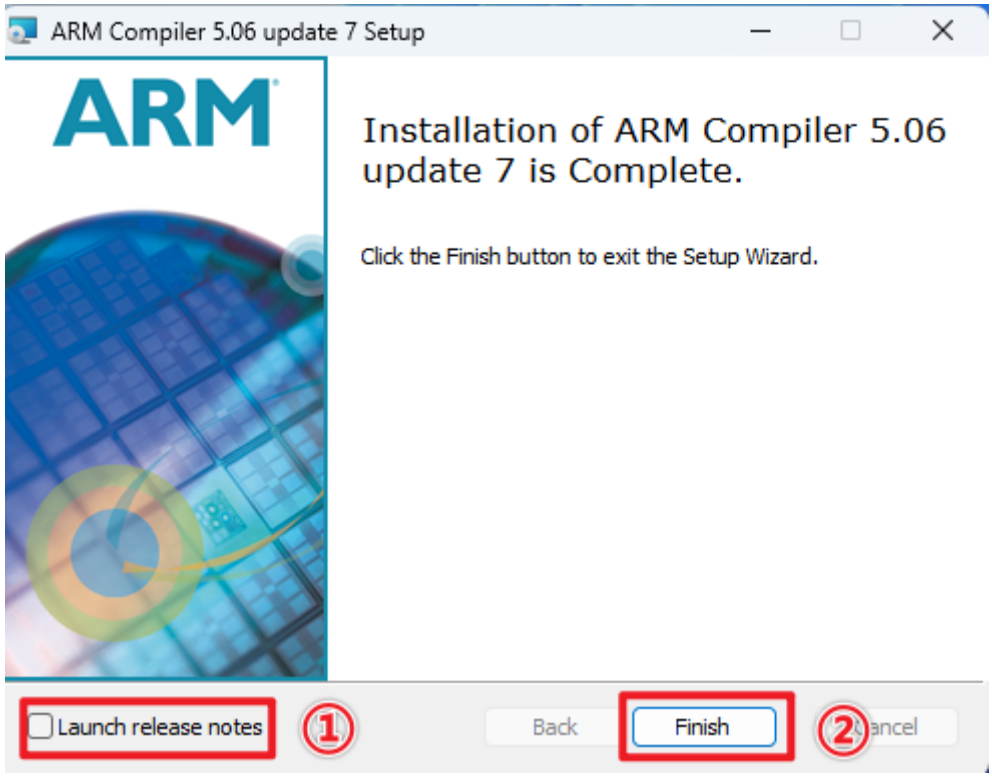
Installation location: Create a new ARMCC folder under the C:\Keil_v5\ARM folder and select this folder as the software installation location





- **Installation completed**

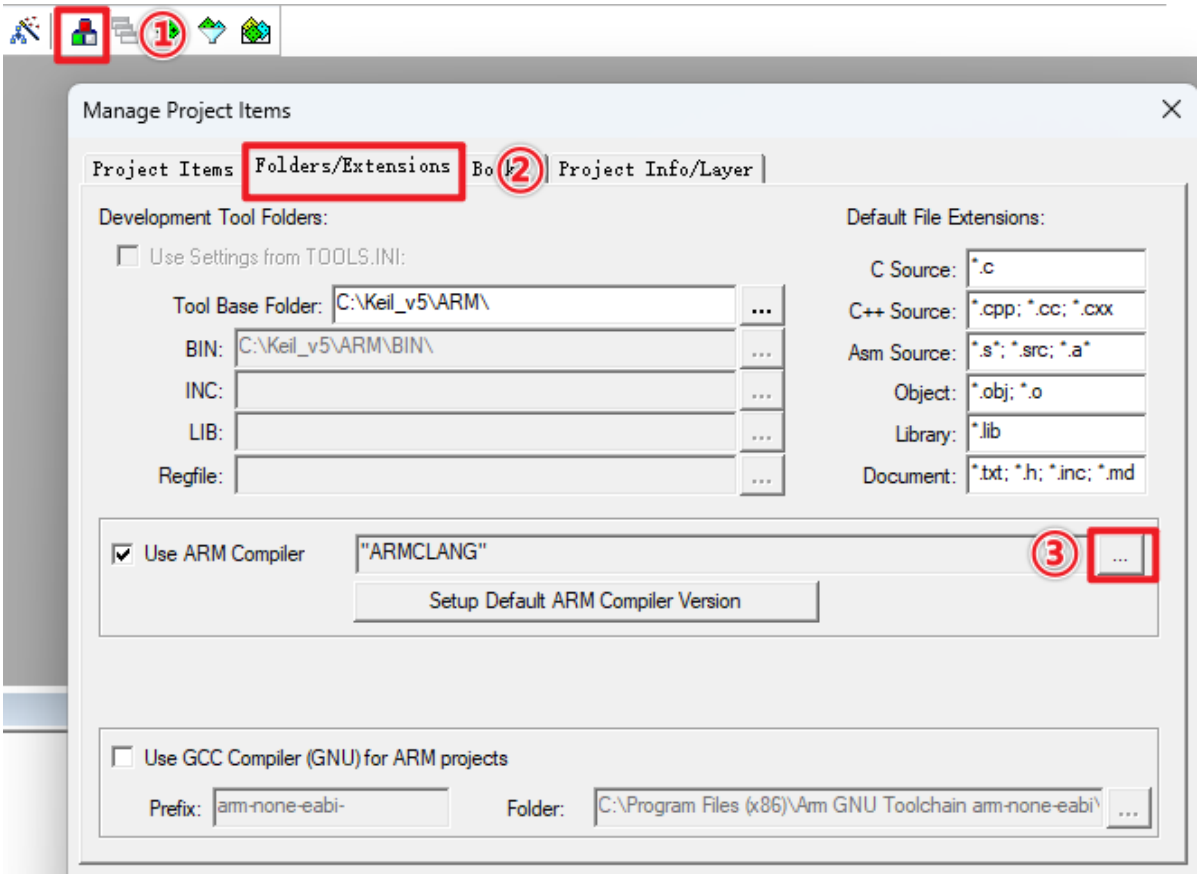


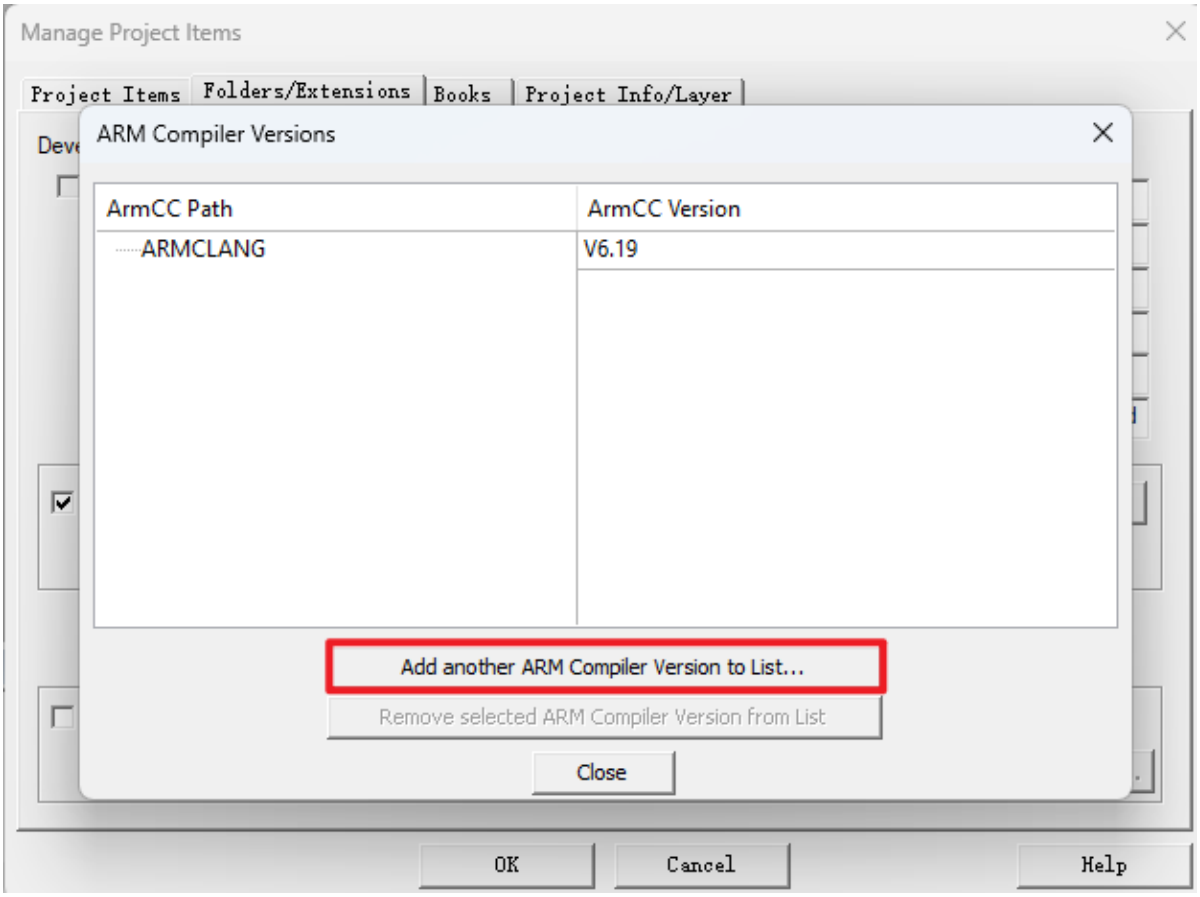


2. Add compiler

The following operations involve Keil5 software, and you need to open a project; otherwise, the relevant menu options cannot be selected

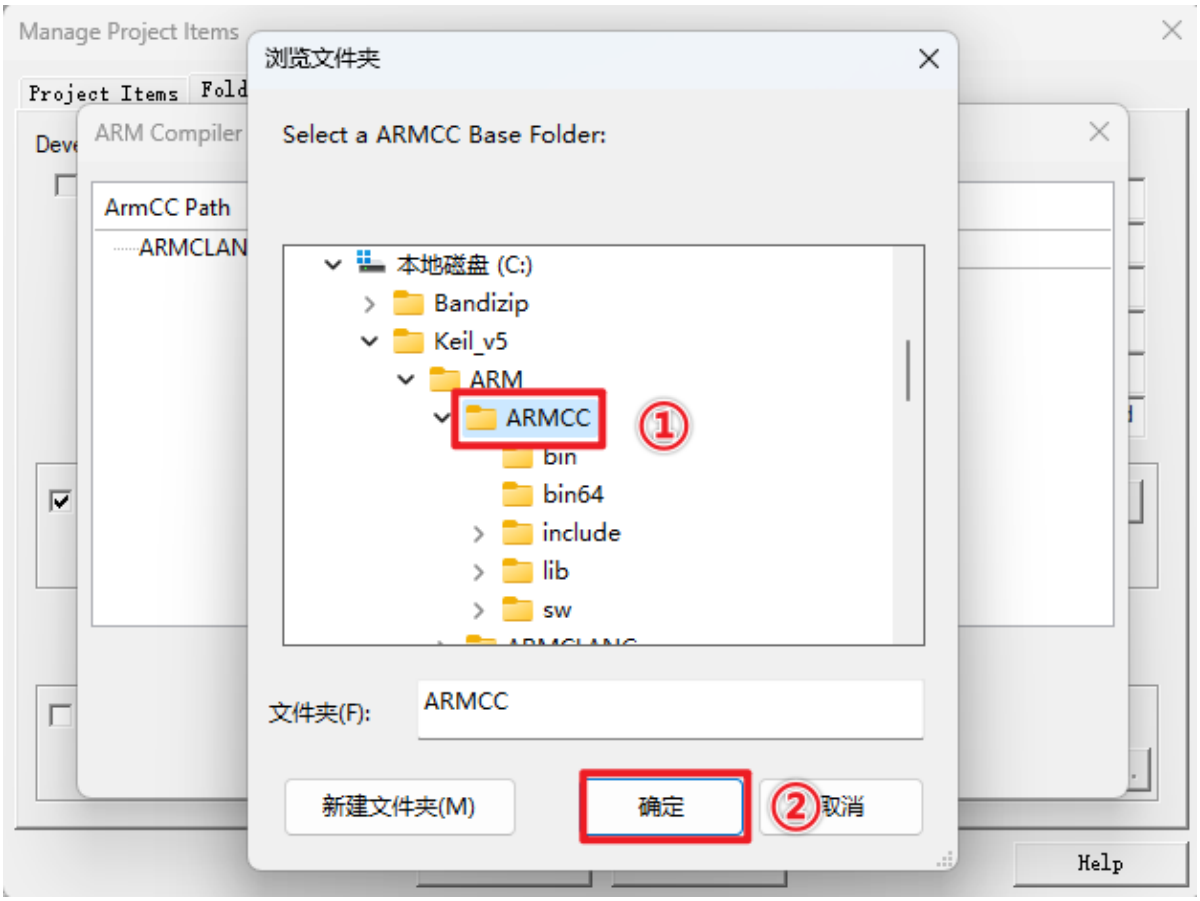
- **Project management**

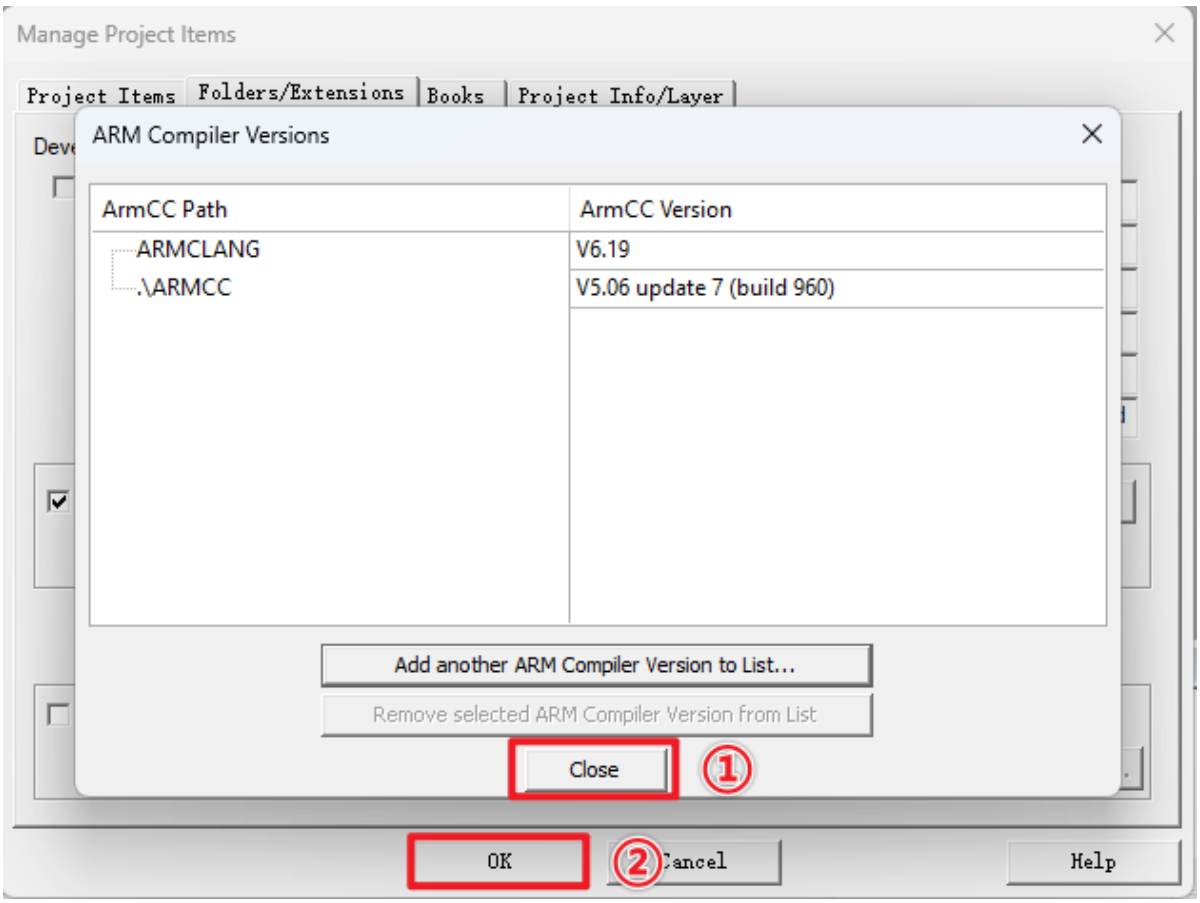




- **Compiler path**

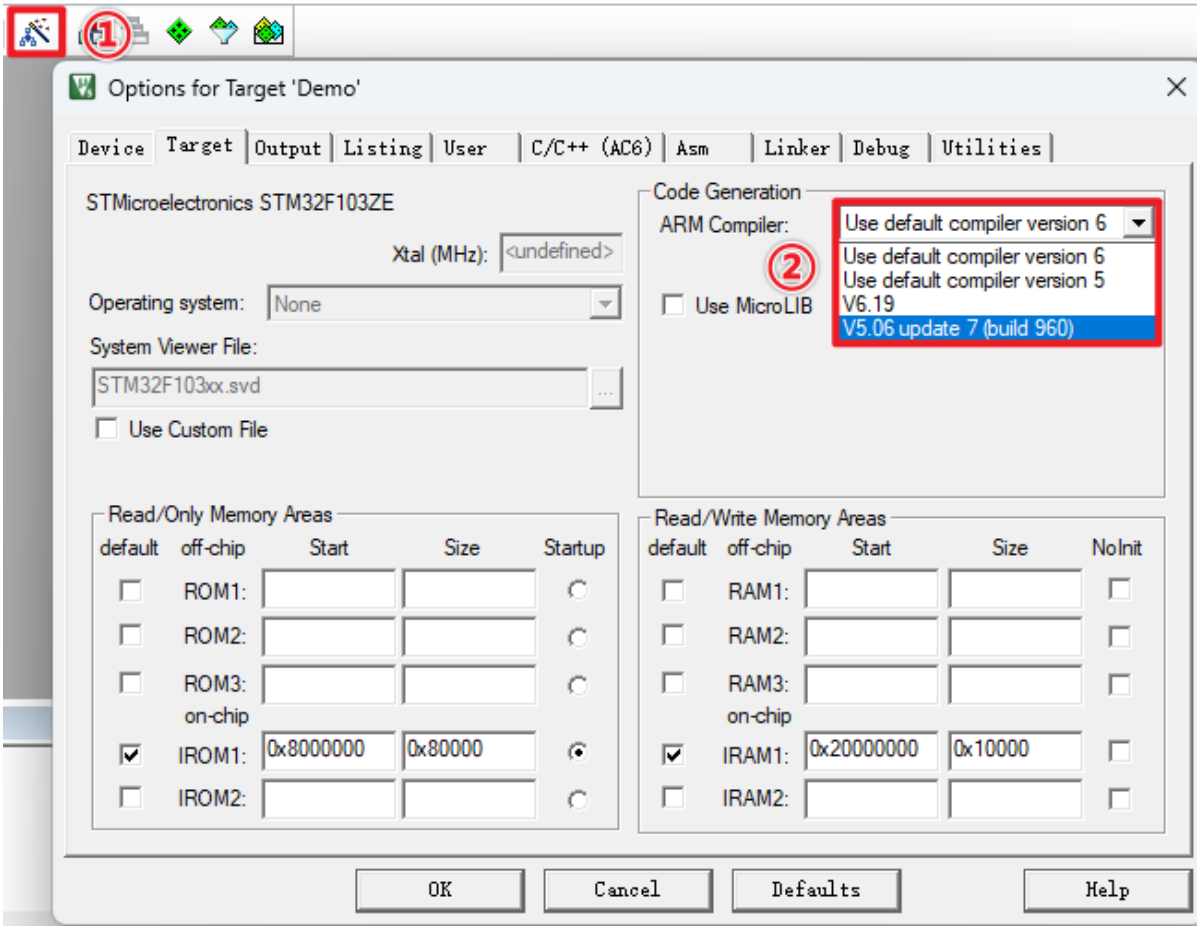
Select the location you just installed





3. Verify the installation

If the following options appear, AC5 has been successfully installed!


1
Options for Target 'Demo'
Device
Target
Output
Listing
User
C/C++ (AC6)
Asm
Linker
Debug
Utilities
STMicroelectronics STM32F103ZE
Xtal (MHz):
<undefined>
Operating system:
None
System Viewer File:
STM32F103xx.svd
Use Custom File
Code Generation
ARM Compiler:
Use default compiler version 6
2
Use default compiler version 6
Use default compiler version 5
V6.19
V5.06 update 7 (build 960)
Use MicroLIB
Read/Only Memory Areas
default
off-chip
Start
Size
Startup
ROM1:
ROM2:
ROM3:
on-chip
IROM1:
0x8000000
0x80000
IROM2:
Read/Write Memory Areas
default
off-chip
Start
Size
NoInit
RAM1:
RAM2:
RAM3:
on-chip
IRAM1:
0x20000000
0x10000
IRAM2:
OK
Cancel
Defaults
Help