

2.2. Installation of MDK and various driver software

User Notice:

1. The software involved in this chapter is only for teaching use, not for commercial use. If individuals or companies need commercial use, please purchase genuine
2. The required software installation package can be downloaded from the official website Baidu cloud disk.

1、Install KEIL5 software

MDK's official website download address: <https://www.keil.com/download/product/>

KEIL™
Tools by ARM

ARM

Home Products Download Events Support Search Keil.com... Go

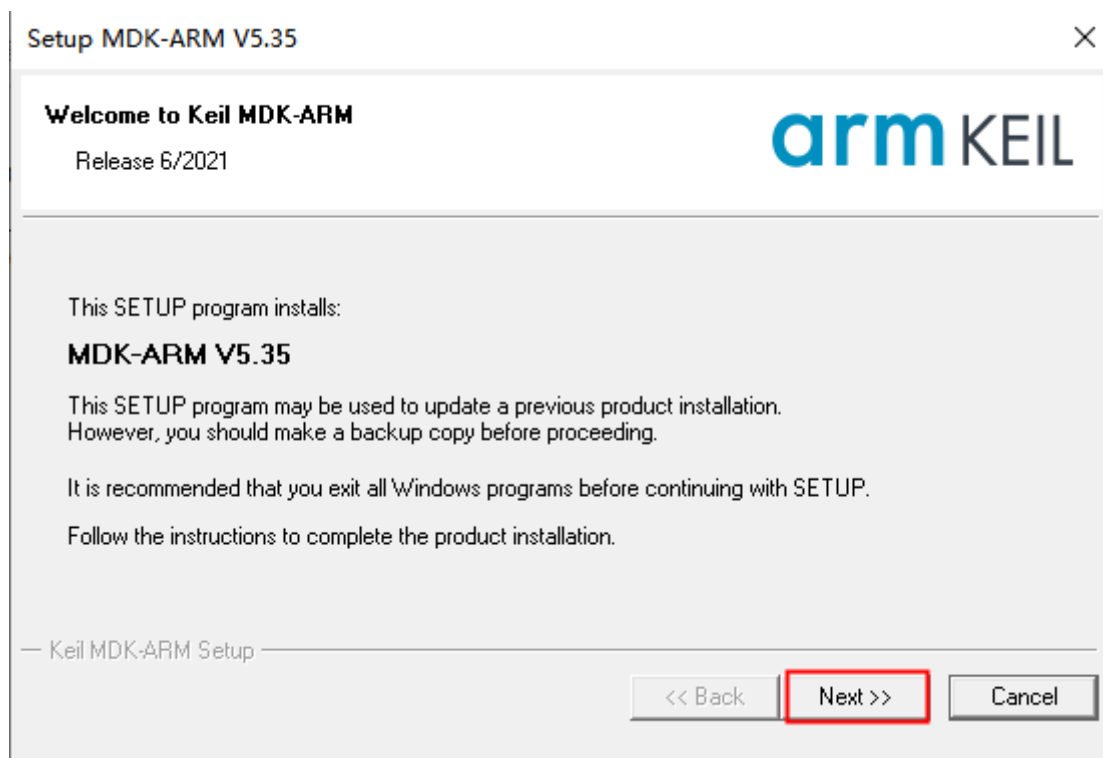
Download Products

Select a product from the list below to download the latest version.

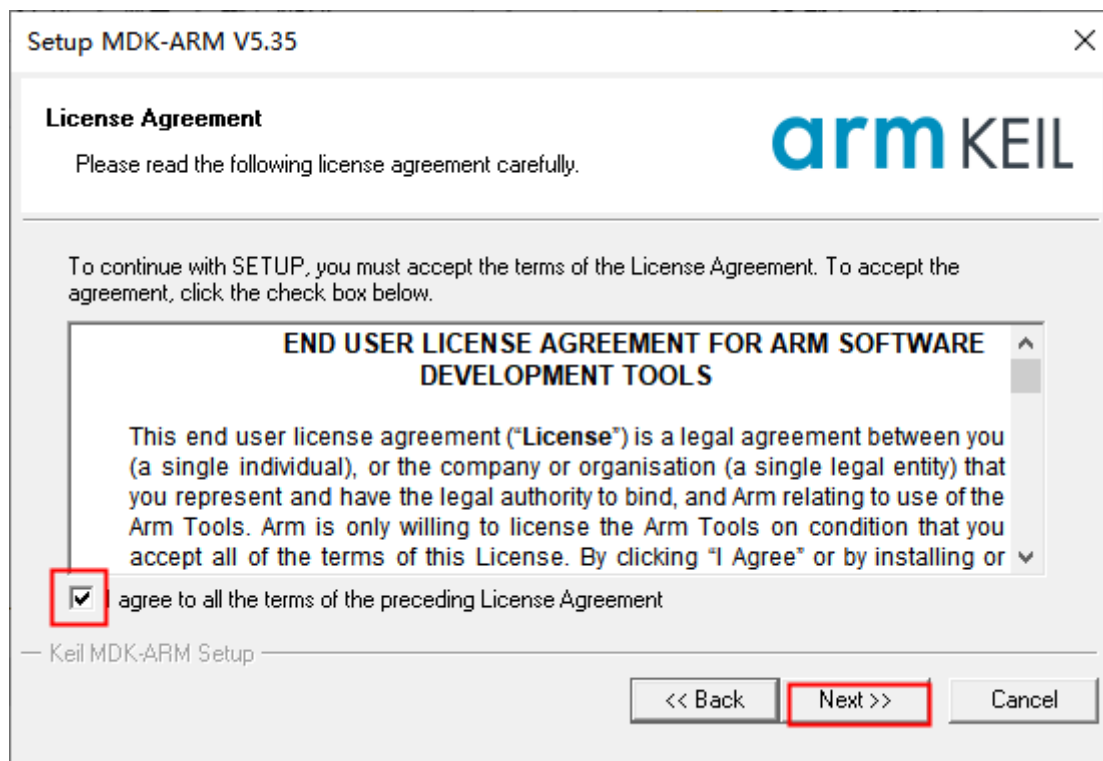
	MDK-ARM Version 5.16a (August 2015) Development environment for Cortex and ARM devices.		C51 Version 9.54a (May 2015) Development tools for all 8051 devices.
	C251 Version 5.58 (October 2015) Development tools for all 80251 devices.		C166 Version 7.55 (April 2015) Development tools for C166, XC166, & XC2000 MCUs.

1.1Install MDK

Double-click the KEIL5 installation package to start the installation, select next.



Select the Agree option and click Next



Select the installation path, pay attention to the path can not contain Chinese and spaces, next

Folder Selection

Select the folder where SETUP will install files.

arm KEIL

Press 'Next' to install MDK-ARM to these folders. Press 'Browse' to select different folders for installation.

Destination Folders

Core: C:\KEIL Browse ...

Pack: C:\KEIL\ARM\PACK Browse ...

Update Installation: Create backup tool folder

☒ Backup old core files to C:\KEIL\Backup.001

— Keil MDK-ARM Setup —

<< Back Next >> Cancel

Fill in the user information, the content of the information is arbitrary, you can fill in all 1 or blanks, and click next after finishing

Customer Information

Please enter your information.

arm KEIL

Please enter your name, the name of the company for whom you work and your E-mail address.

First Name: 1

Last Name: 1

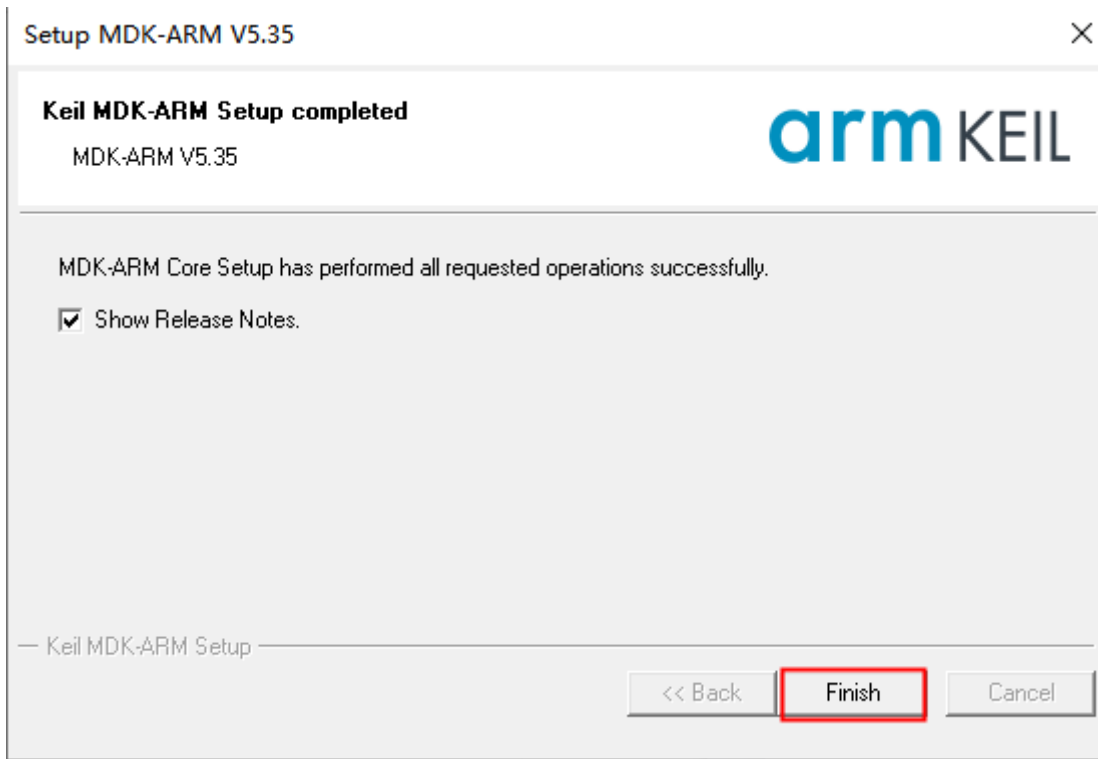
Company Name: 1

E-mail: 1

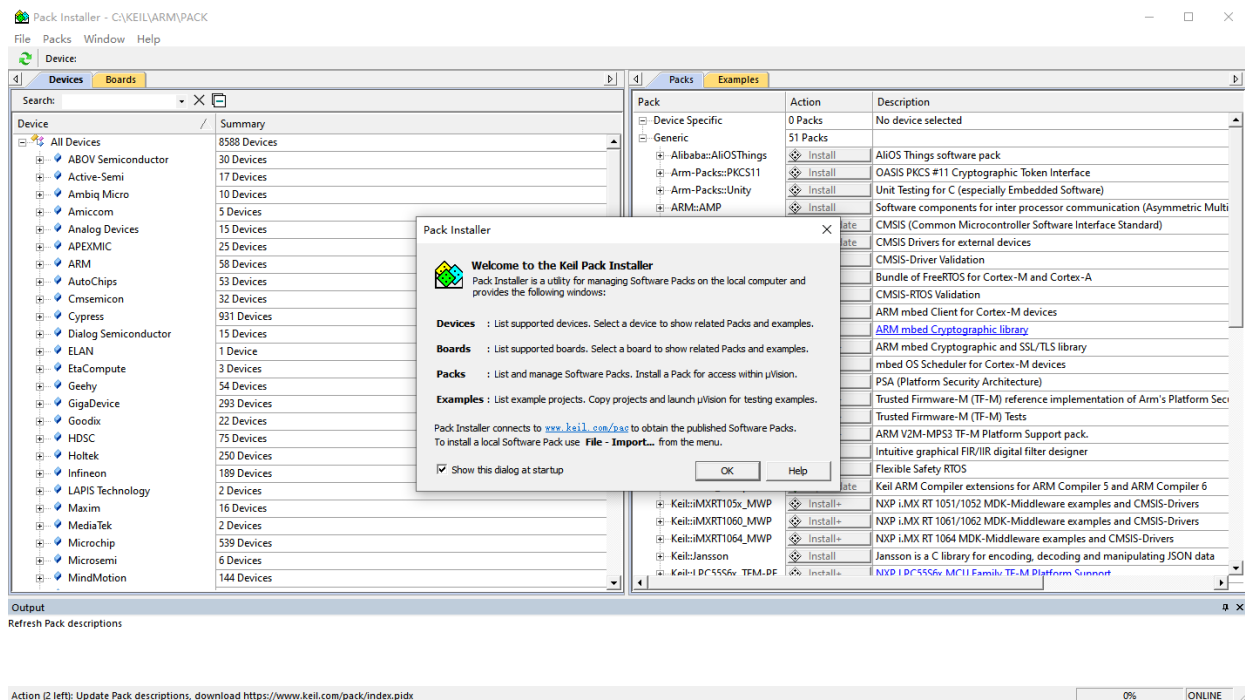
— Keil MDK-ARM Setup —

<< Back Next >> Cancel

Select Finish and the installation is complete



The following pop-up interface can be closed directly



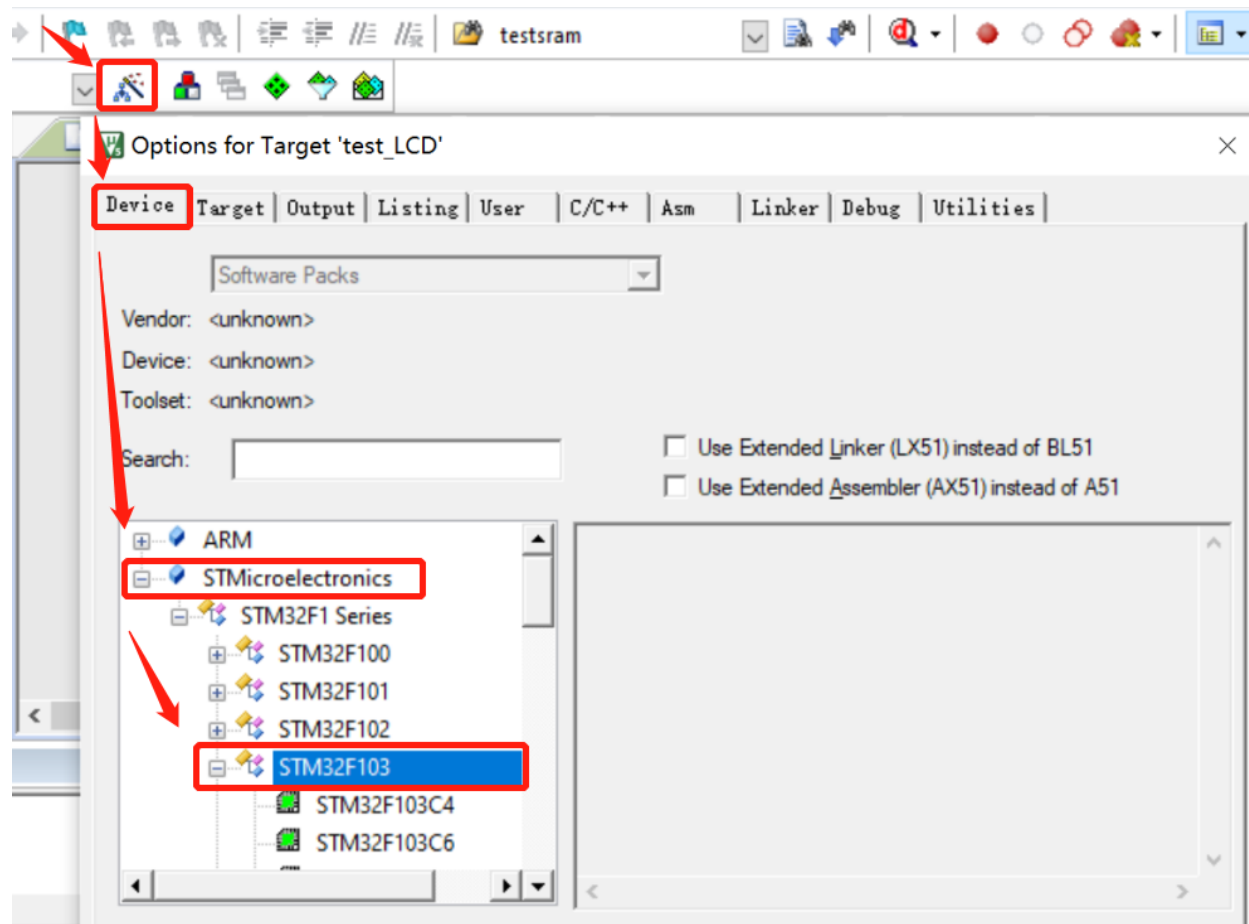
1.2 Install Chipset

KEIL5 requires the chip package of the STM32F1 series.

Chip package download address: <http://www.keil.com/dd2/pack/>

➤ STMicroelectronics STM32F0 Series Device Support, Drivers and	BSP	DFP	2.1.1	⬇
➤ STMicroelectronics STM32F1 Series Device Support, Drivers and	BSP	DFP	2.4.0	⬇
➤ STMicroelectronics STM32F2 Series Device Support, Drivers and	BSP	DFP	2.10.0	⬇
➤ STMicroelectronics STM32F3 Series Device Support and Examples	BSP	DFP	2.2.2	⬇
➤ STMicroelectronics STM32F4 Series Device Support, Drivers and	BSP	DFP	2.16.0	⬇
➤ STMicroelectronics STM32F7 Series Device Support, Drivers and	BSP	DFP	2.15.1	⬇
➤ STMicroelectronics STM32G0 Series Device Support	DFP		1.4.0	⬇

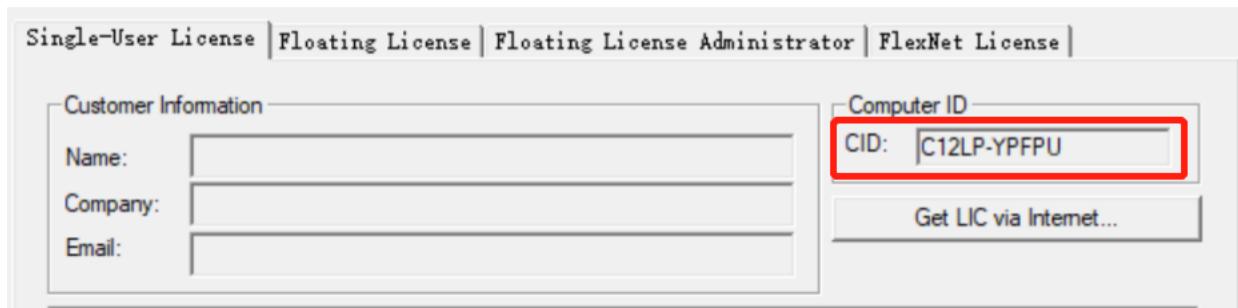
Double-click the downloaded chip package to quickly install it. After the installation is successful, you can see the package we installed in the magic wand tool of KEIL5. When we build a new project in the future, we will have the model of the single-chip microcomputer to choose from.



1.3 Cracking of KEIL software

If KEIL5 is not cracked, there will be a limit of 32K code capacity, and if it exceeds 32K, it will not be compiled. Here is a demonstration of how to crack, but only for teaching use, not for commercial use.

Open KEIL5 as an administrator, File->License Management copy CID



Single-User License | Floating License | Floating License Administrator | FlexNet License

Customer Information

Name:

Company:

Email:

Computer ID

CID:

Get LIC via Internet...

Open the registration machine, paste the CID just copied into the CID box of the registration machine, select ARM for Target, and then click Generate to copy the License ID Code generated by the registration machine.



Keil Generic Keygen - EDGE

protection: custom

ALWAYS RE

Keil Embedded Workbench

Keygen

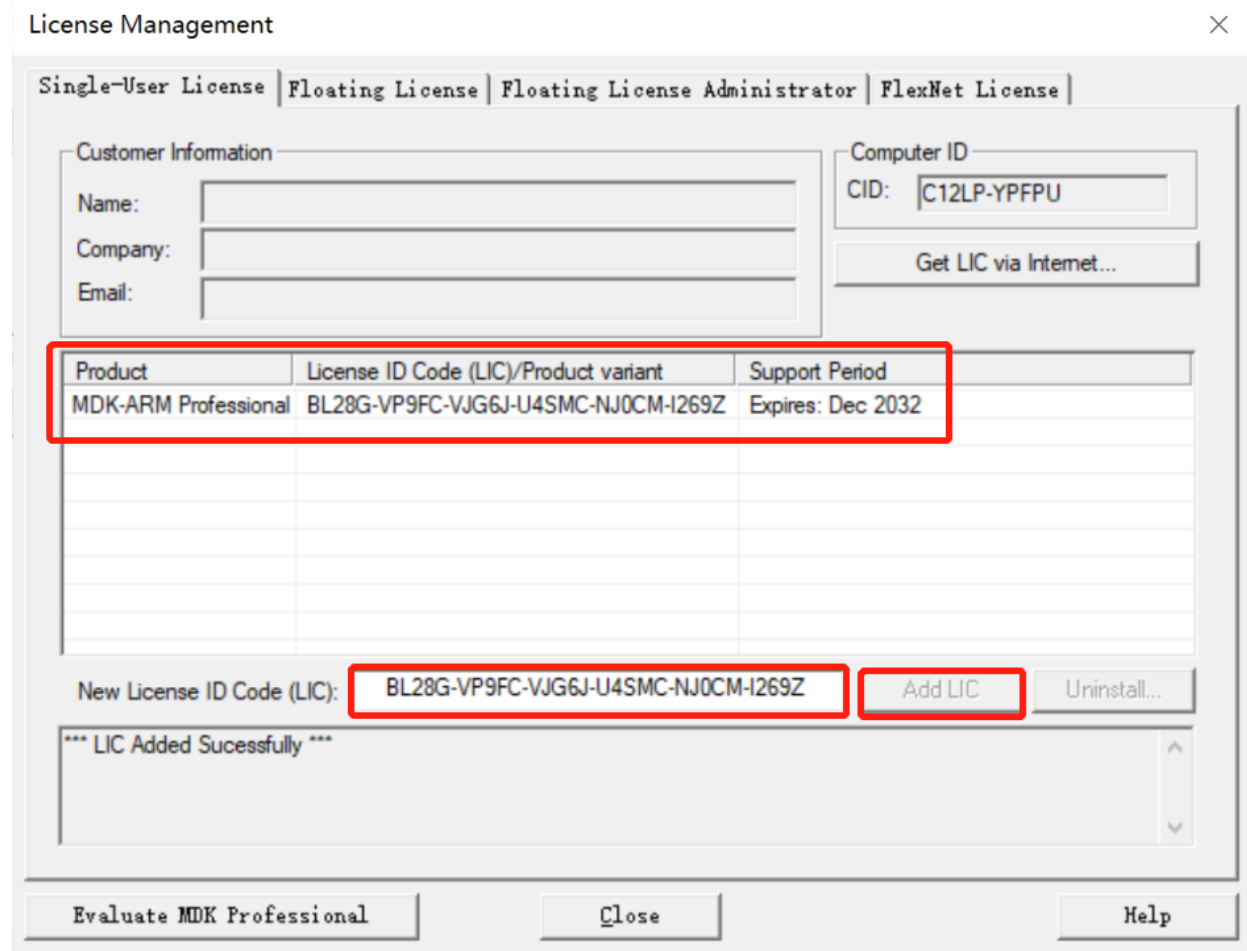
License Details

CID: Target:

Copy

Generate Exit

Go back to KEIL5, File->License Management, paste the License ID Code just copied from the registration machine to the New License ID Code (LIC) box, and click Add LIC. Done, successfully cracked.

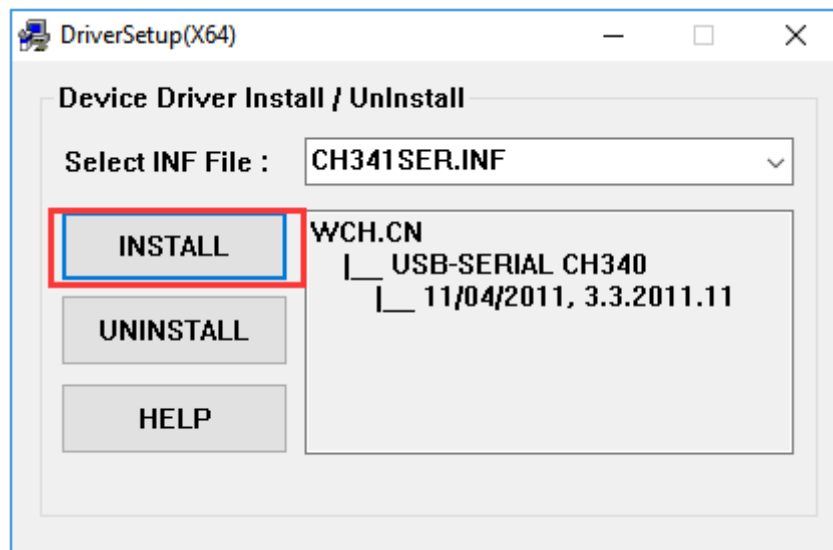


After cracking, it can be used normally now.

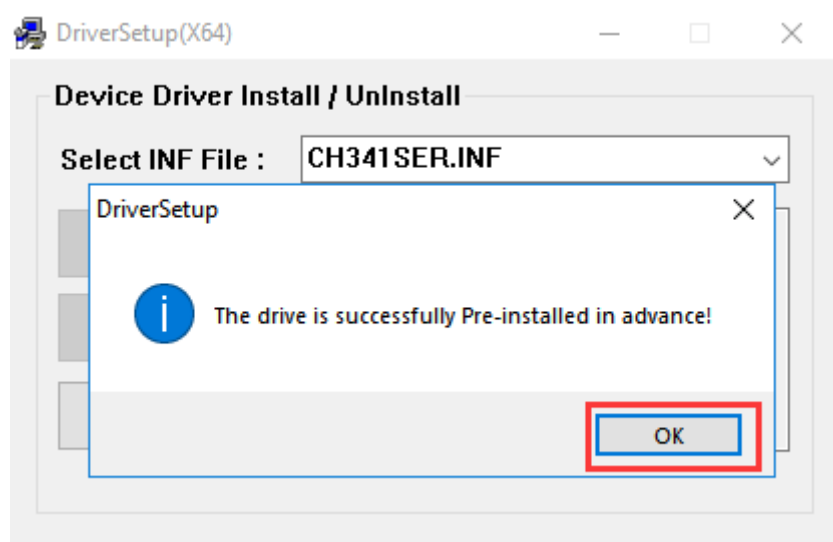
2、Install the CH340 serial port driver

CH340 driver download address: https://www.wch.cn/downloads/CH341SER_ZIP.html

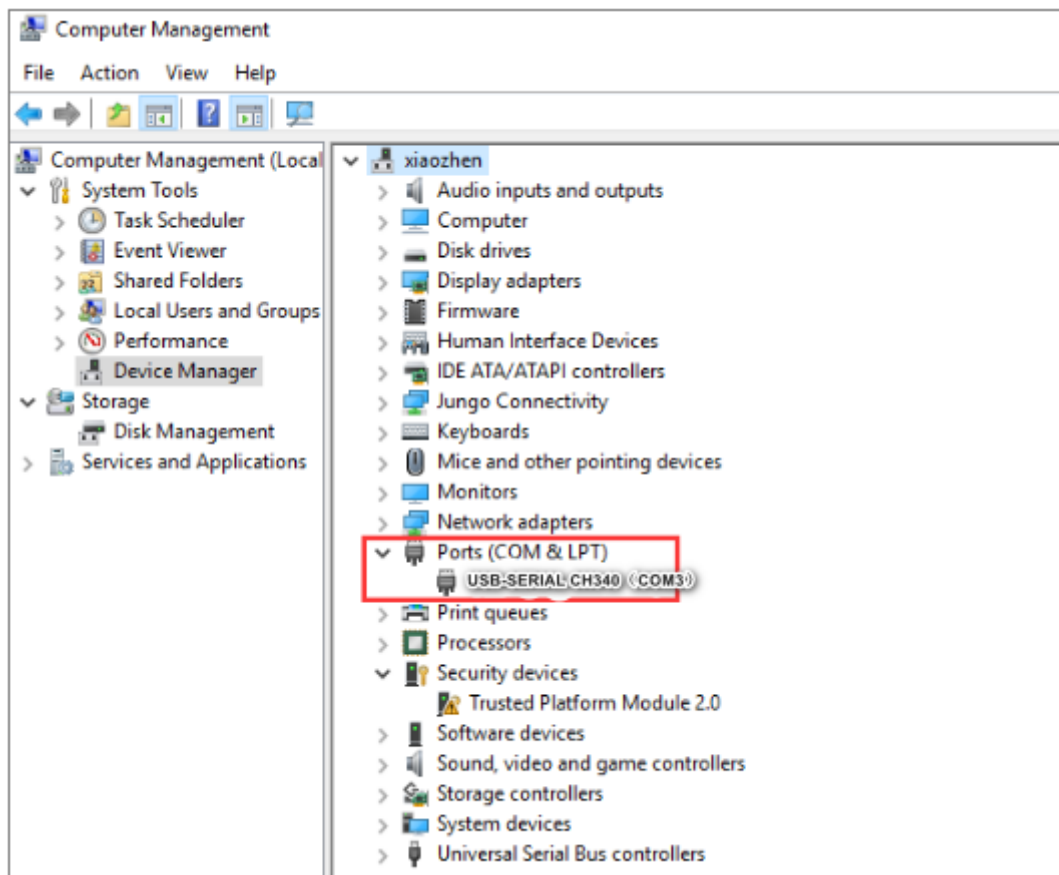
The steps to install the serial port driver are relatively simple. Connect the stm32 motherboard to the computer port through the usb cable, then directly double-click SETUP.EXE in the installation package, and then click "Install".



As shown in the figure below, the installation is successful



Turn on the power, connect the expansion board to the computer with USB, open the device manager, and the port will display CH340 (COMX, X is the port number)



3、Install STLINK driver

download link: <https://www.st.com/zh/development-tools/stsw-link009.html>

If the computer system is 32-bit, click x86.exe to install

If the computer system is 64-bit, click amd64.exe to install

The installation steps are very simple, just click Next and finish.

amd64	2022/12/20 20:15	
x86	2022/12/20 20:15	
dpinst_amd64.exe	2010/2/9 4:36	665 KB
dpinst_x86.exe	2010/2/9 3:59	540 KB
stlink_dbg_winusb.inf	2014/1/21 17:03	4 KB
stlink_VCP.inf	2013/12/10 21:08	3 KB
stlink_winusb_install.bat	2013/5/15 22:33	1 KB
stlinkdbgwinusb_x64.cat	2014/1/21 17:14	11 KB
stlinkdbgwinusb_x86.cat	2014/1/21 17:14	11 KB
stlinkvcp_x64.cat	2013/12/10 21:08	9 KB
stlinkvcp_x86.cat	2013/12/10 21:09	9 KB

Before the installation, there is a yellow exclamation mark in front of the STM32 STLink. After the installation is complete, it is shown in the figure:

