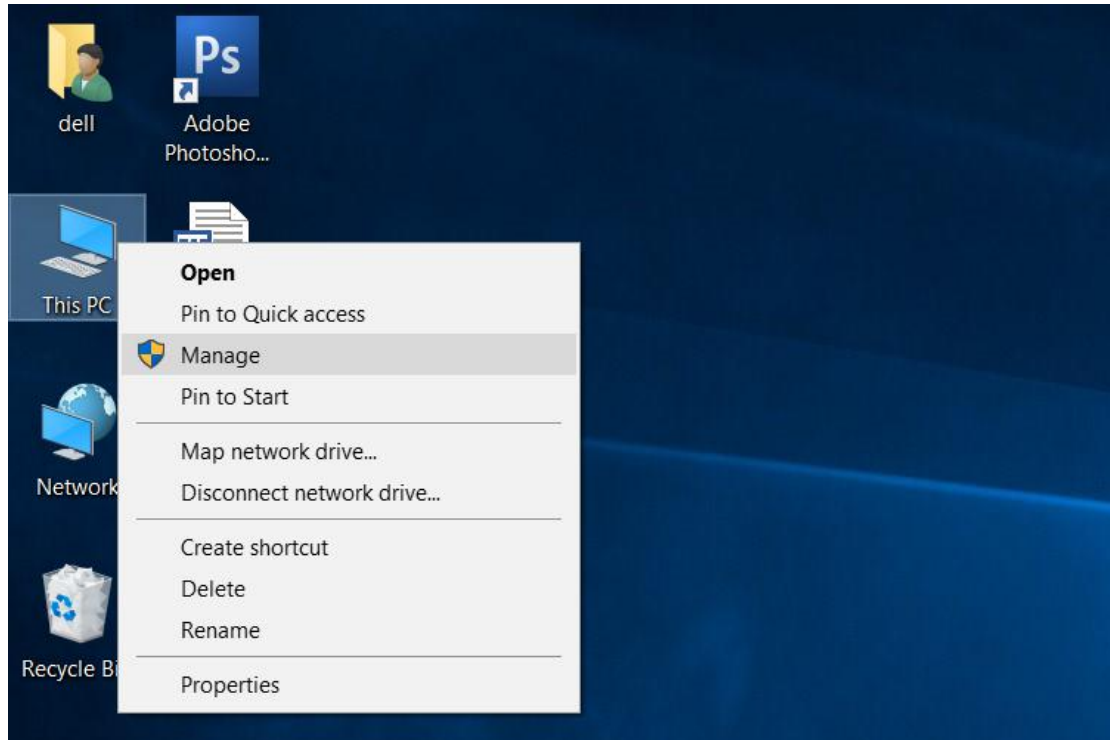


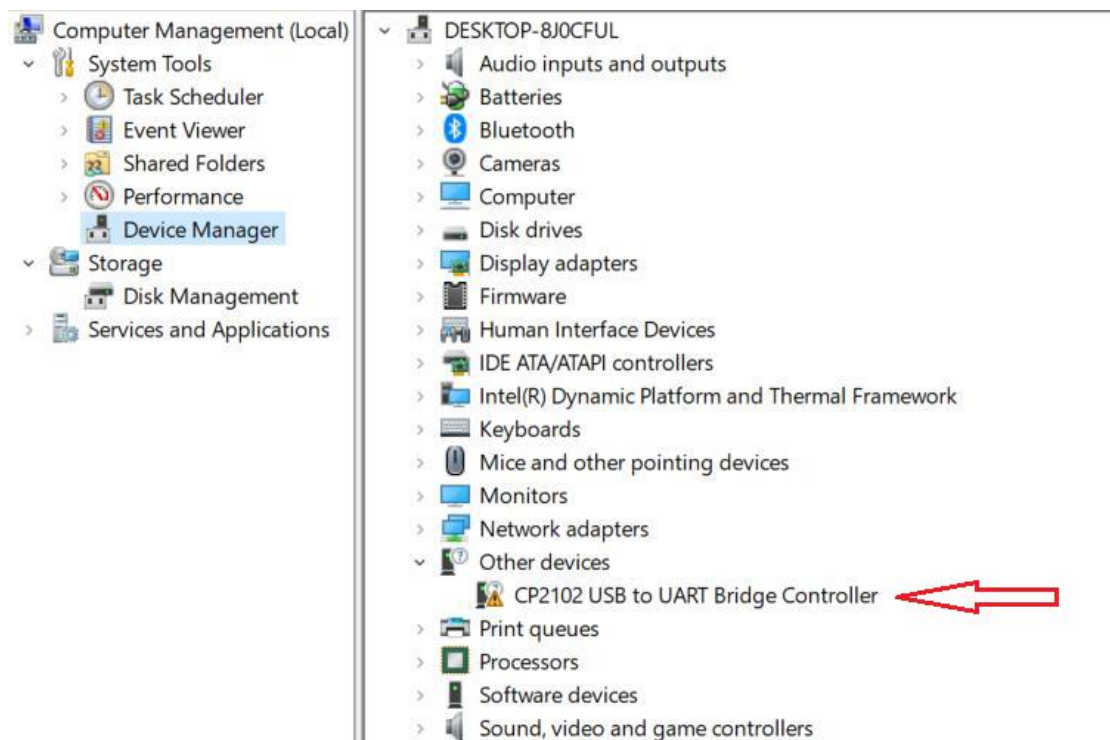
iCubeSmart 3D8S Led Cube Program Download Manual

Step 1: Install the driver for the downloader

Plug the download cable into the computer's USB port , right click on the *THIS PC* icon and left click *manage*.



You can see that the system has detected the download cable device, but an *exclamation mark* is displayed on the device icon because there is no driver.



Open the the file 5-Download Tool , in which there are the software for downloading the animation program and the driver for the download cable. Then extract them.

Here we take the windows10 system as an example. For other versions of the system, please search for CP2102 WindowsX(**X corresponds to your computer system**) drives in google, and download the corresponding driver. The method to install the drivers for other versions of the system is similar to the windows10.

This PC > FILE (E:) > icubesmart DIY file > 5- Download Tool >

Name	Date modified	Type	Size
CP210x_Windows_Win10_Drivers	12/25/2018 11:04 ...	WinRAR ZIP 压缩...	3,768 KB
stc-isp-v5.01-setup-english	12/25/2018 11:20 ...	WinRAR 压缩文件	74 KB



CP210x USB to UART Bridge VCP Drivers - Silicon Labs

<https://www.silabs.com/products/.../software/usb-to-uart-bridge-vcp-drivers>

Download **Software**. The **CP210x** Manufacturing DLL and Runtime DLL have been updated and must be used with v6.0 and later of the **CP210x** Windows VCP ...

[Legacy OS Software and ...](#) · [Direct Access Drivers](#) · [USB Bridges](#)

Downloading CP210x drivers from Windows Update - Silicon Labs

https://www.silabs.com/community/...base.../downloading_cp210xd-ek07

2016年12月30日 - **CP210x** USB-to-UART devices necessarily require **drivers** to operate. ... / products/development-tools/**software/usb-to-uart-bridge-vcp-drivers**.

Installing CP210x VCP on Windows 7 64-bit - Silicon Labs

https://www.silabs.com/community/interface/.../installing_cp210xvc-WuTT

2014年8月12日

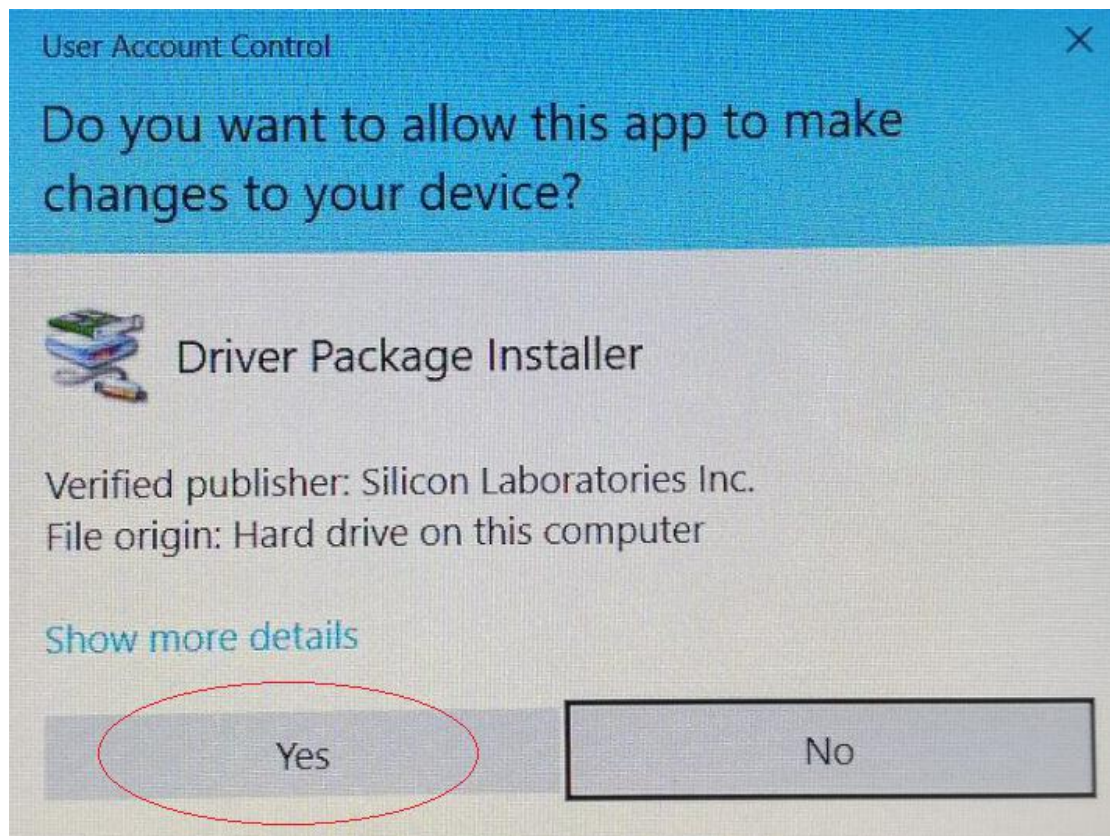
I have recertified this **driver**. When I run the CP210xVCPInstaller_64.exe to install the **driver** on **Windows 7**, the UAC window that comes up with ...

After you extract the driver folder, double-click the corresponding driver to install it according to the number of system bits. Install the X86 driver for the 32-bit system, or install the X64 driver for the 64-bit system.

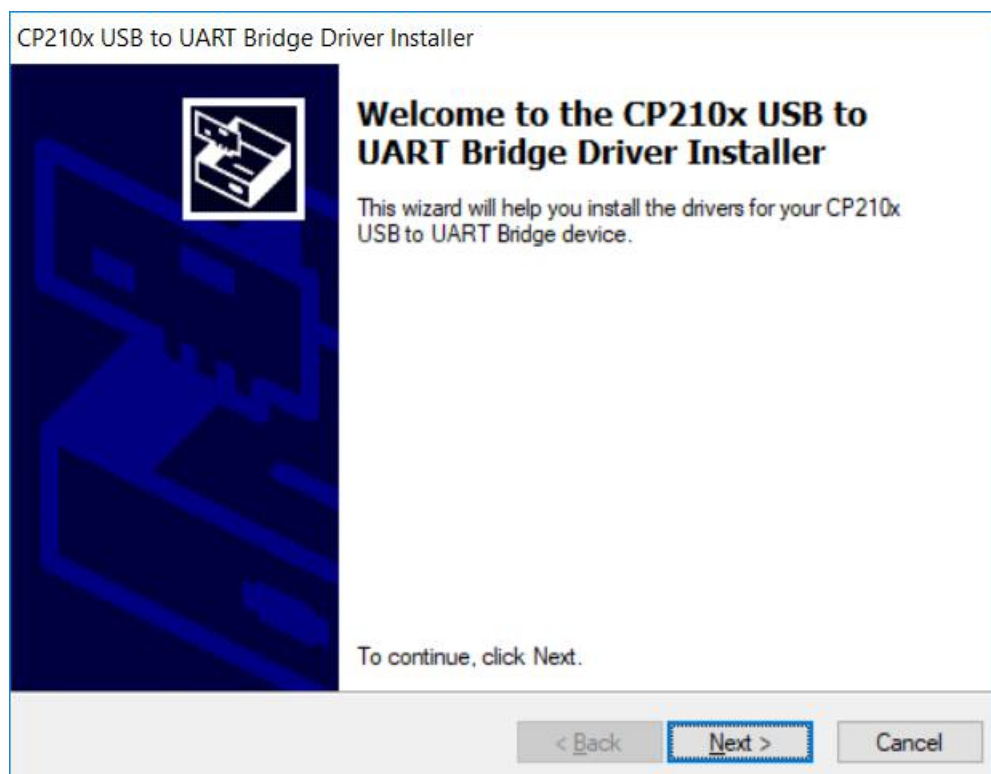
This PC > FILE (E:) > icubesmart DIY file > 5- Download Tool > CP210x_Windows_Win10_Drivers

Name	Date modified	Type	Size
x64	5/4/2016 8:42 PM	File folder	
x86	5/4/2016 8:42 PM	File folder	
CP210xVCPInstaller_x64	3/28/2016 10:38 PM	Application	1,034 KB
CP210xVCPInstaller_x86	3/28/2016 10:38 PM	Application	911 KB
dpinst	3/28/2016 10:32 PM	XML Document	12 KB
SLAB_License_Agreement_VCP_Windows	3/28/2016 10:32 PM	Text Document	9 KB
slabvcp	5/2/2016 11:59 PM	Security Catalog	11 KB
slabvcp	5/2/2016 11:53 PM	Setup Information	12 KB

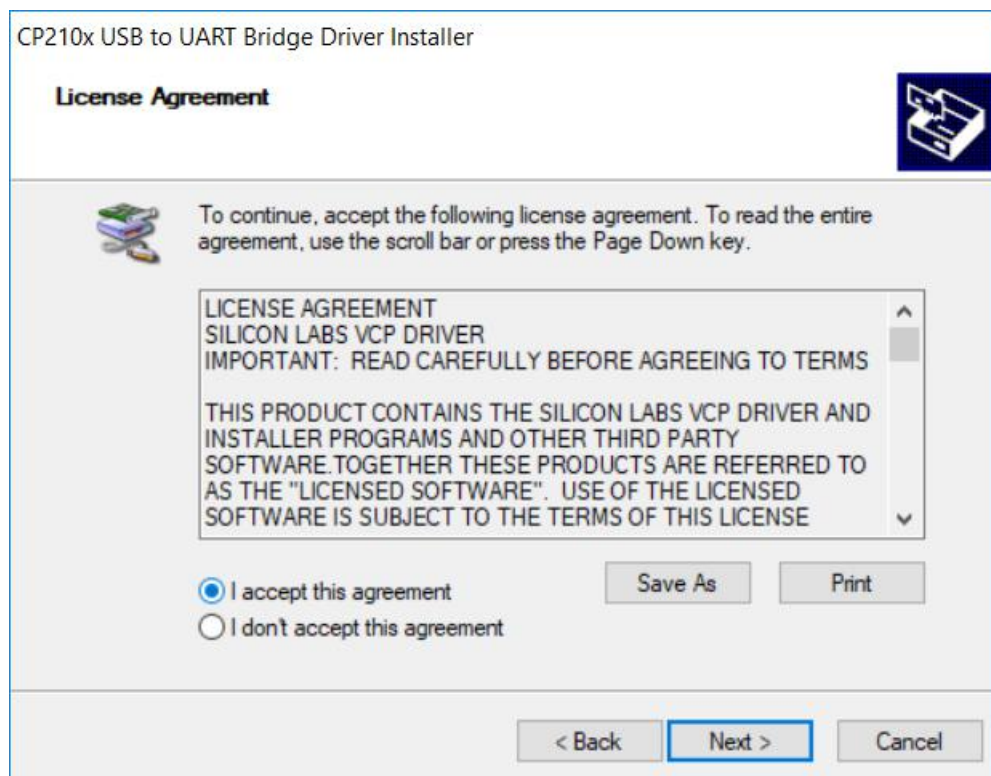
After your double clicking, the following dialog box pops up , then click *YES*.



Then click *NEXT*



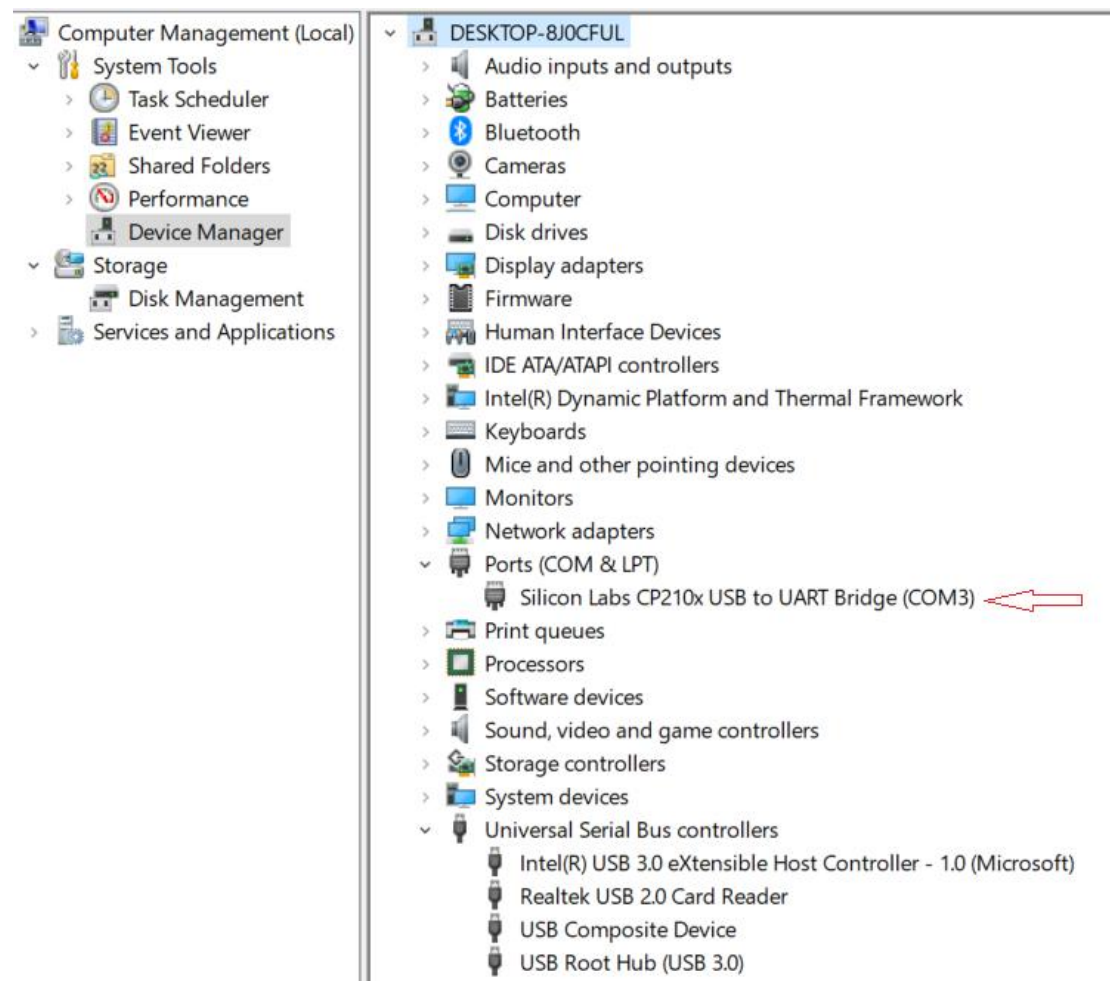
Choose *i accept this agreement*, then click *NEXT*.



At last, click *Finish*.

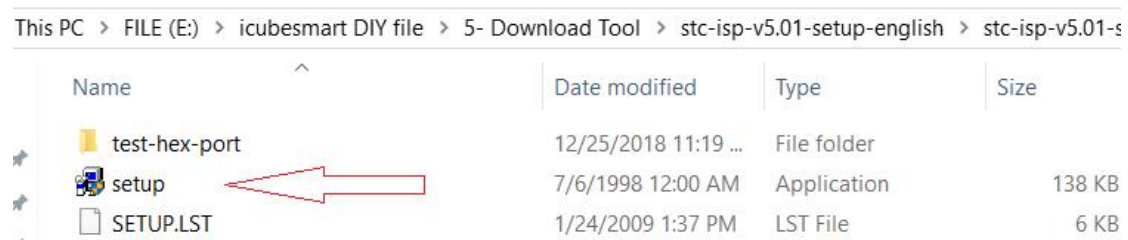


After the installation is completed, return to the *THIS PC* icon , right click on it and click *manage*. You can see that the driver has been installed.

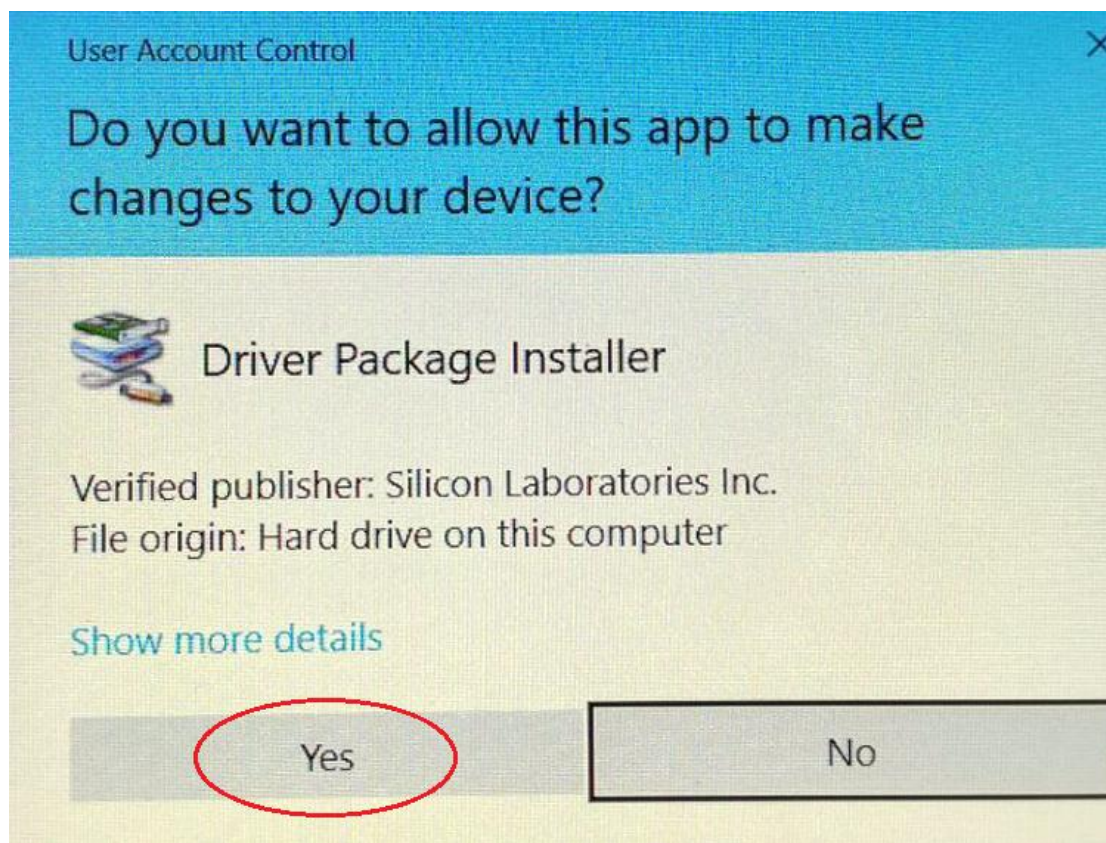
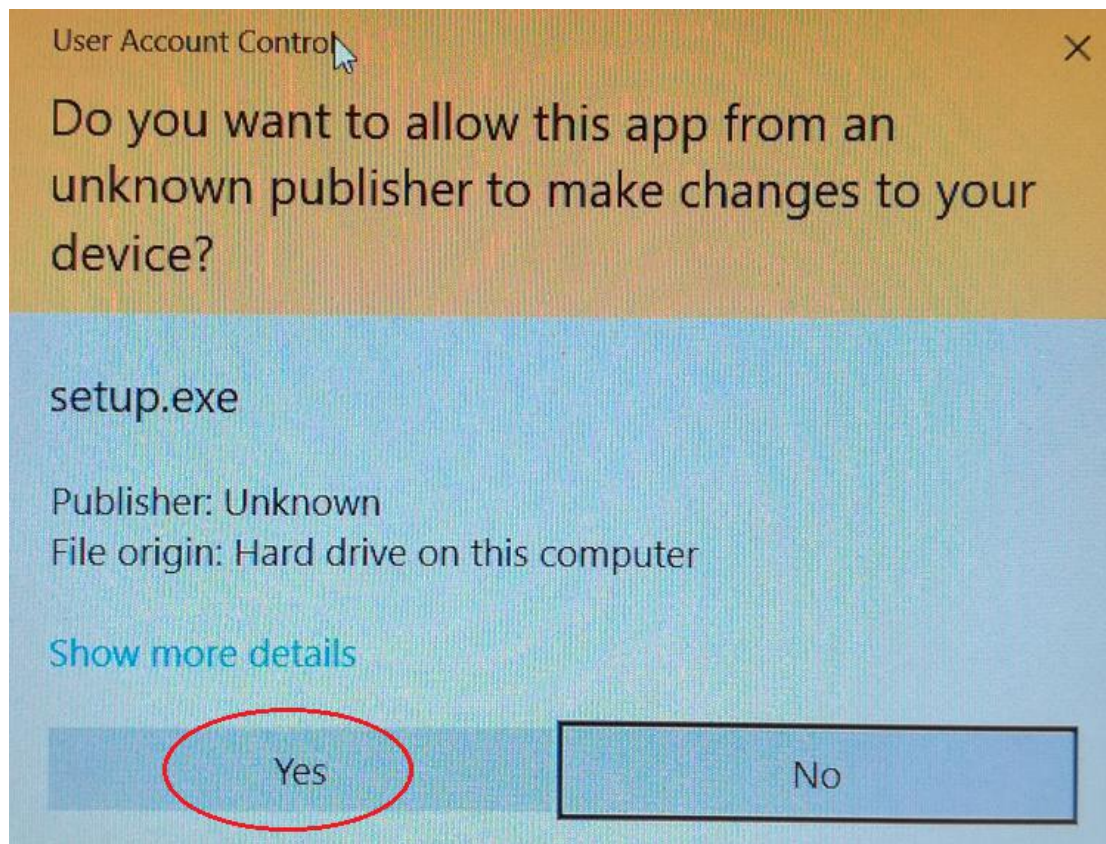


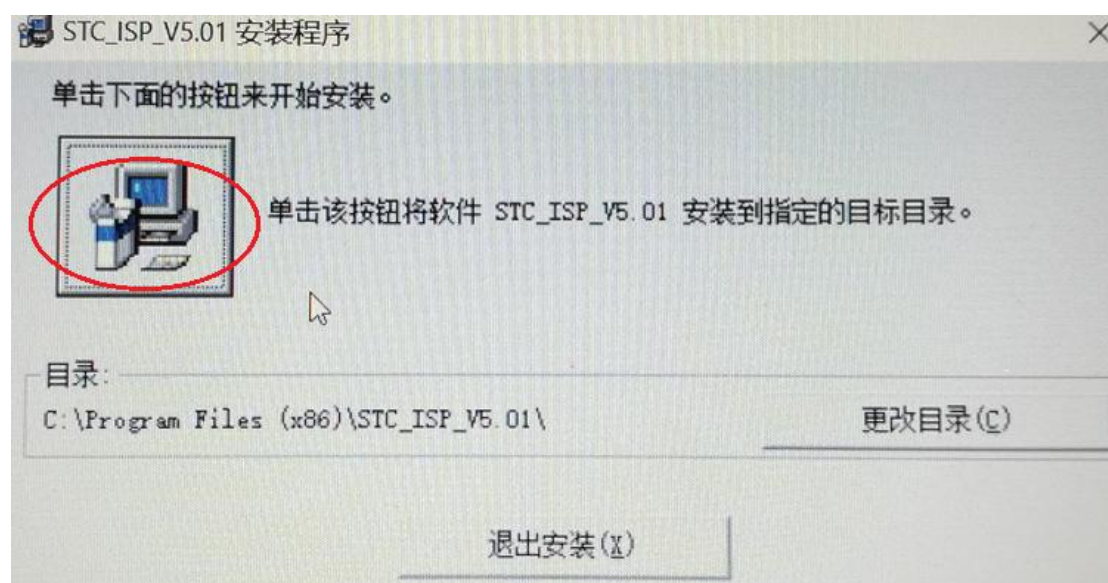
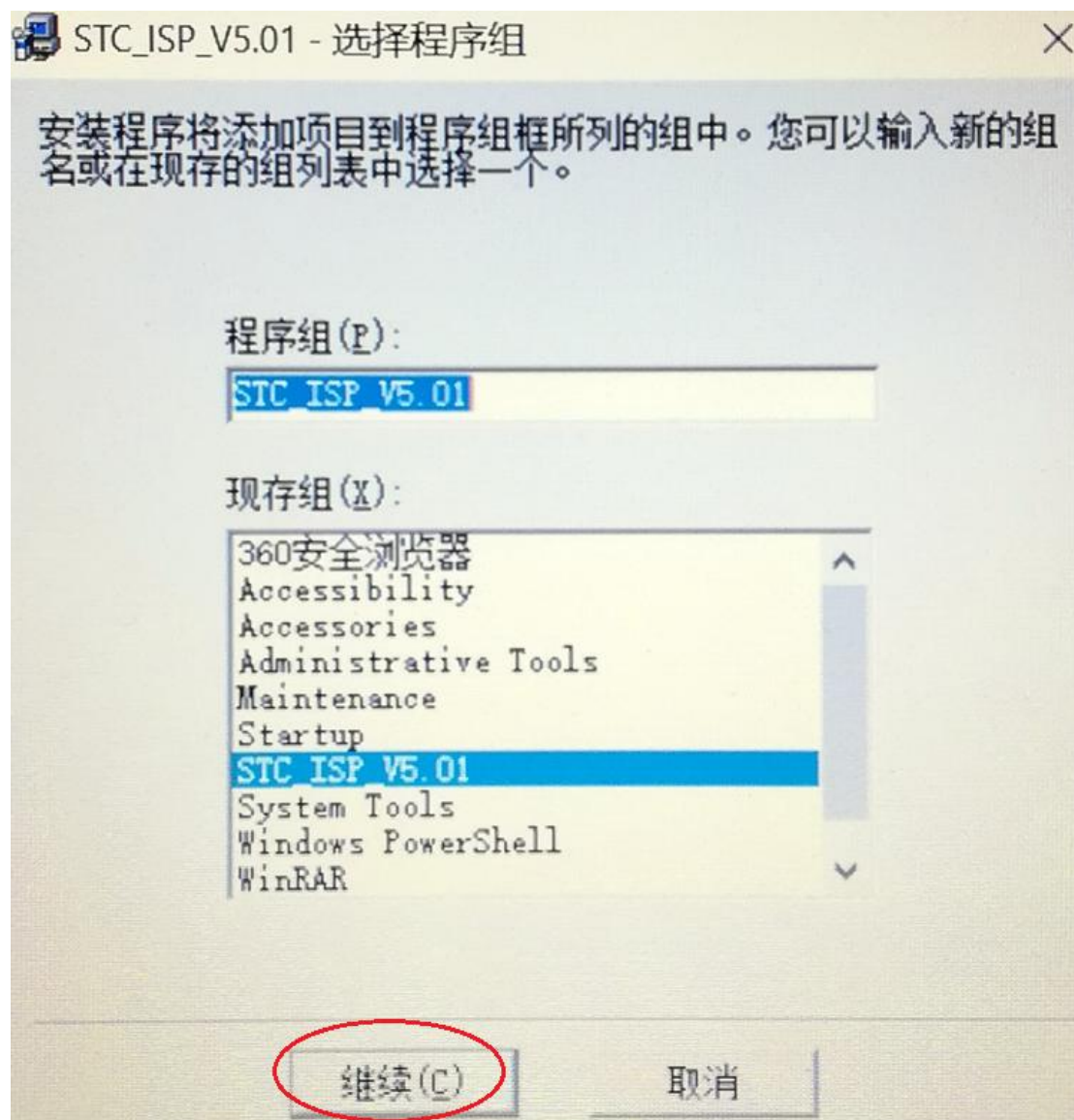
Step 2: Install the software for downloading the program

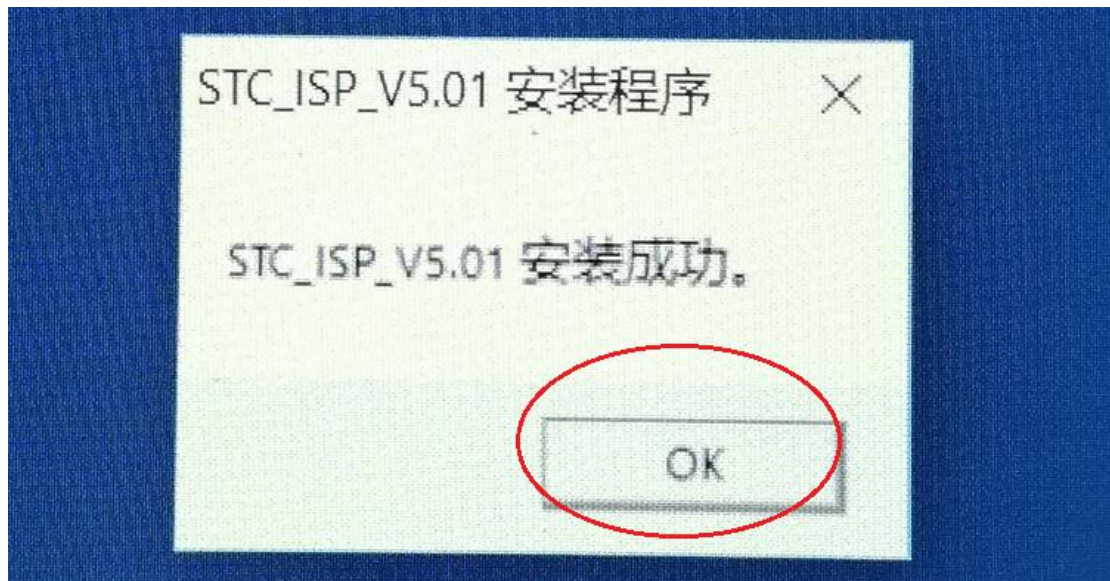
Find *stc-isp-v5.01-setup-english* in the *download tool*, extract it, and double-click the *setup* in the extracted folder.



Click Yes, then click the button marked by the red circle as is shown in the following pictures to continue to the next step, until *OK* shows

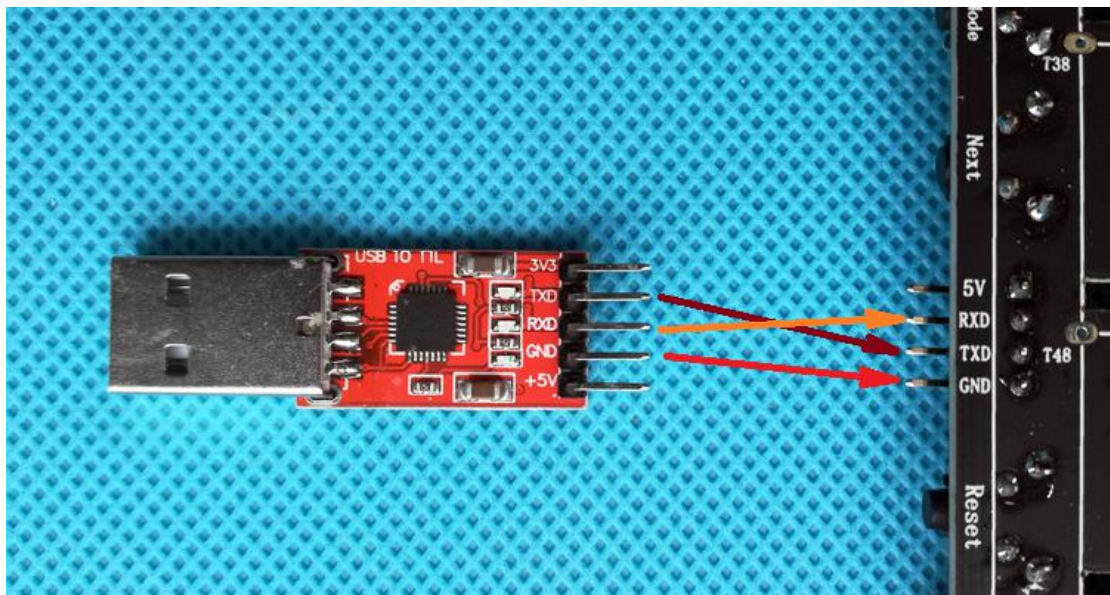




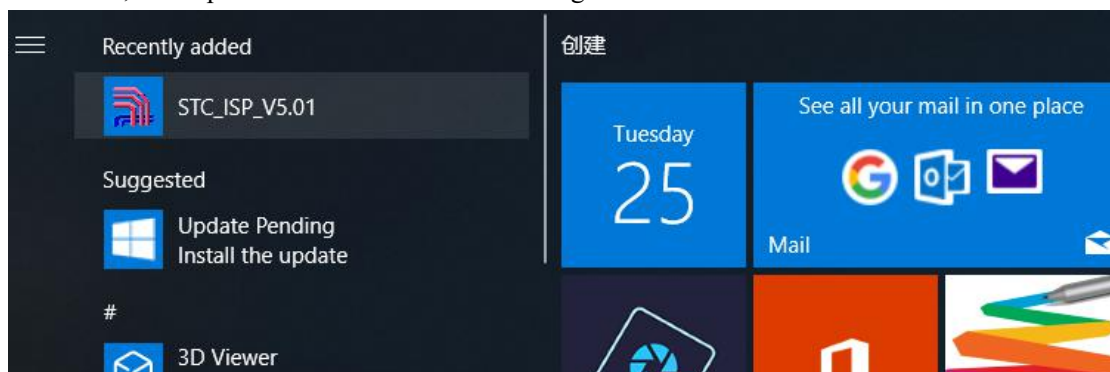


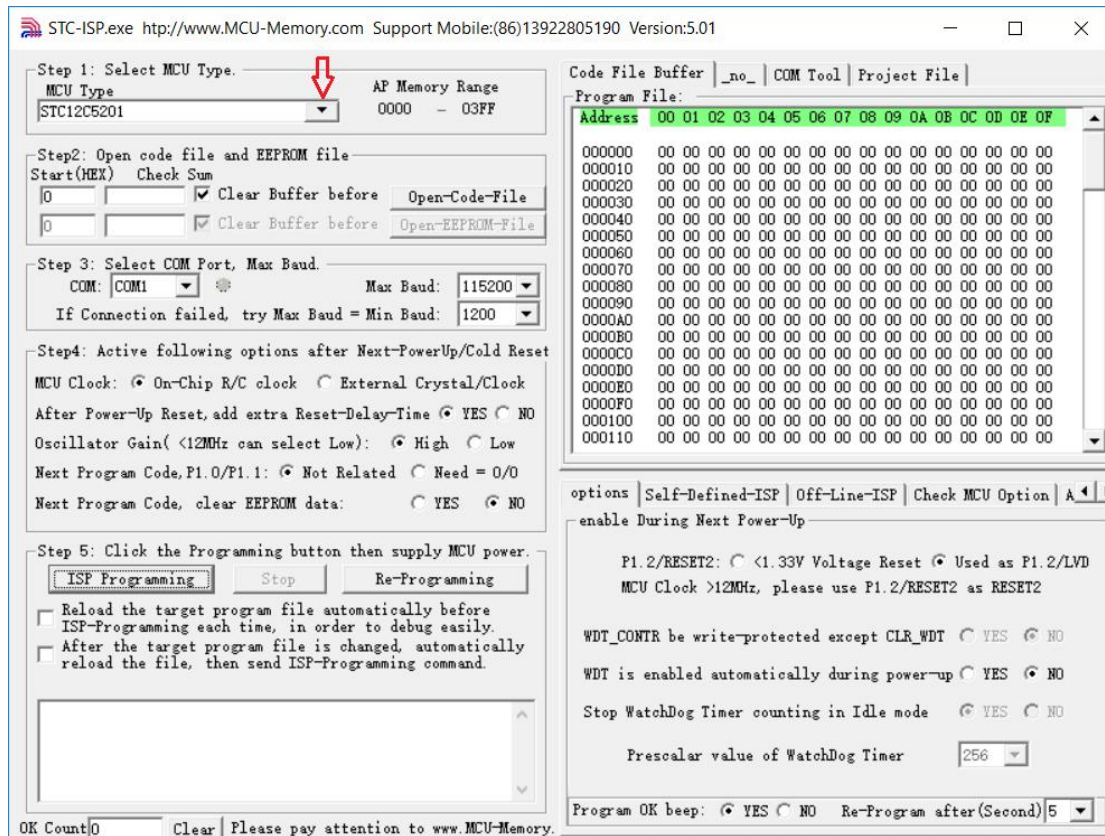
Step 3: Download the animation program

Connect the data line port on the main board to the GND, TXD, and RXD cables as is shown below. **Do not plug in the usb power adapter.**

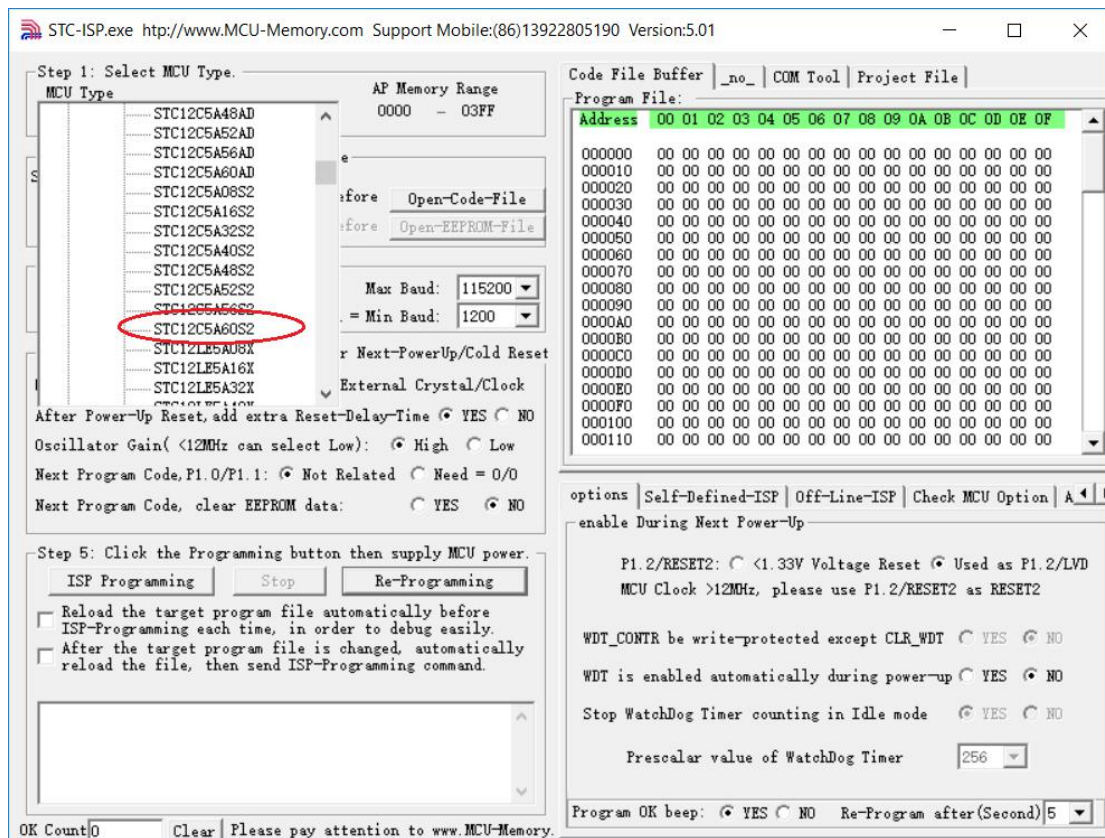


Click start, then open the software for downloading.



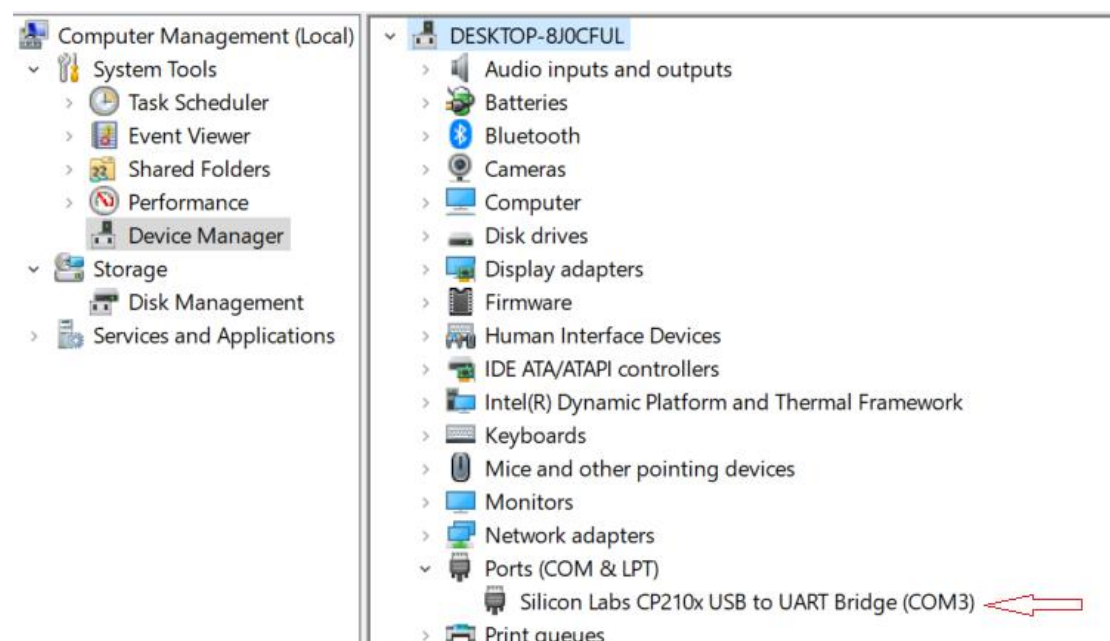
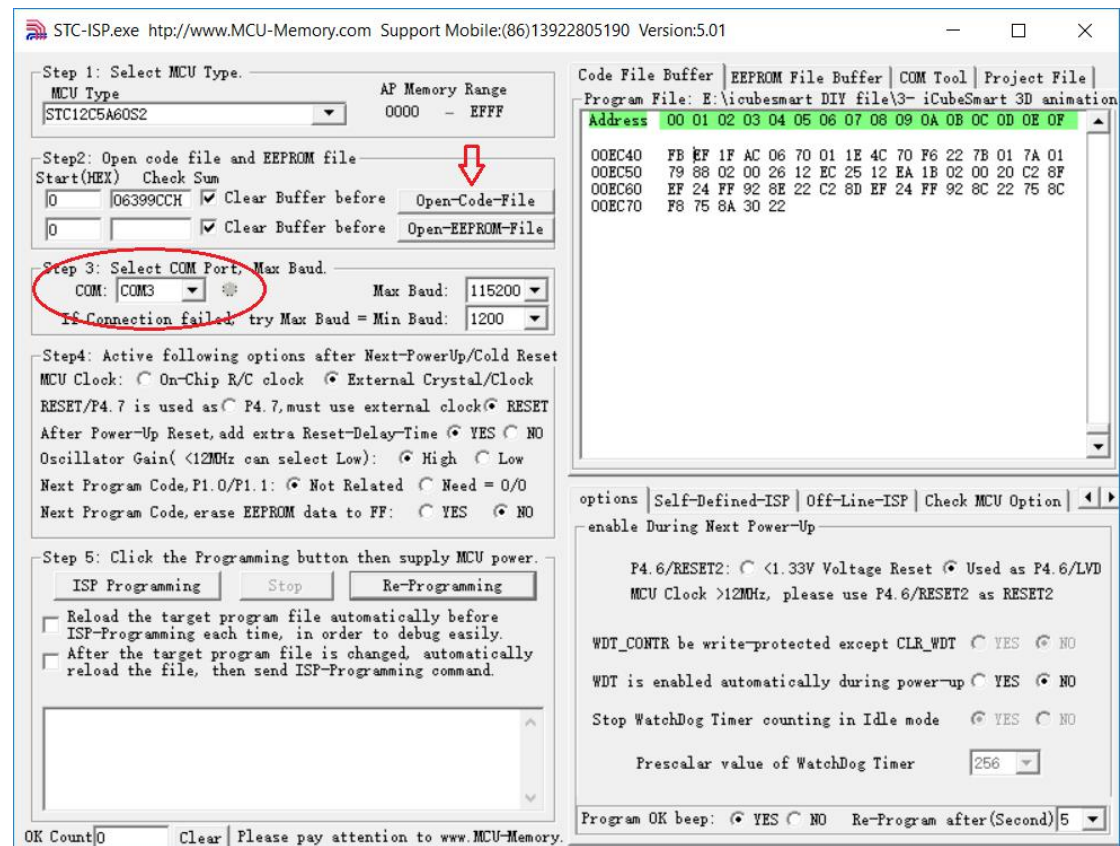


Choose the MCU model at first, the MCU model we use is *STC12C5A60S2*.



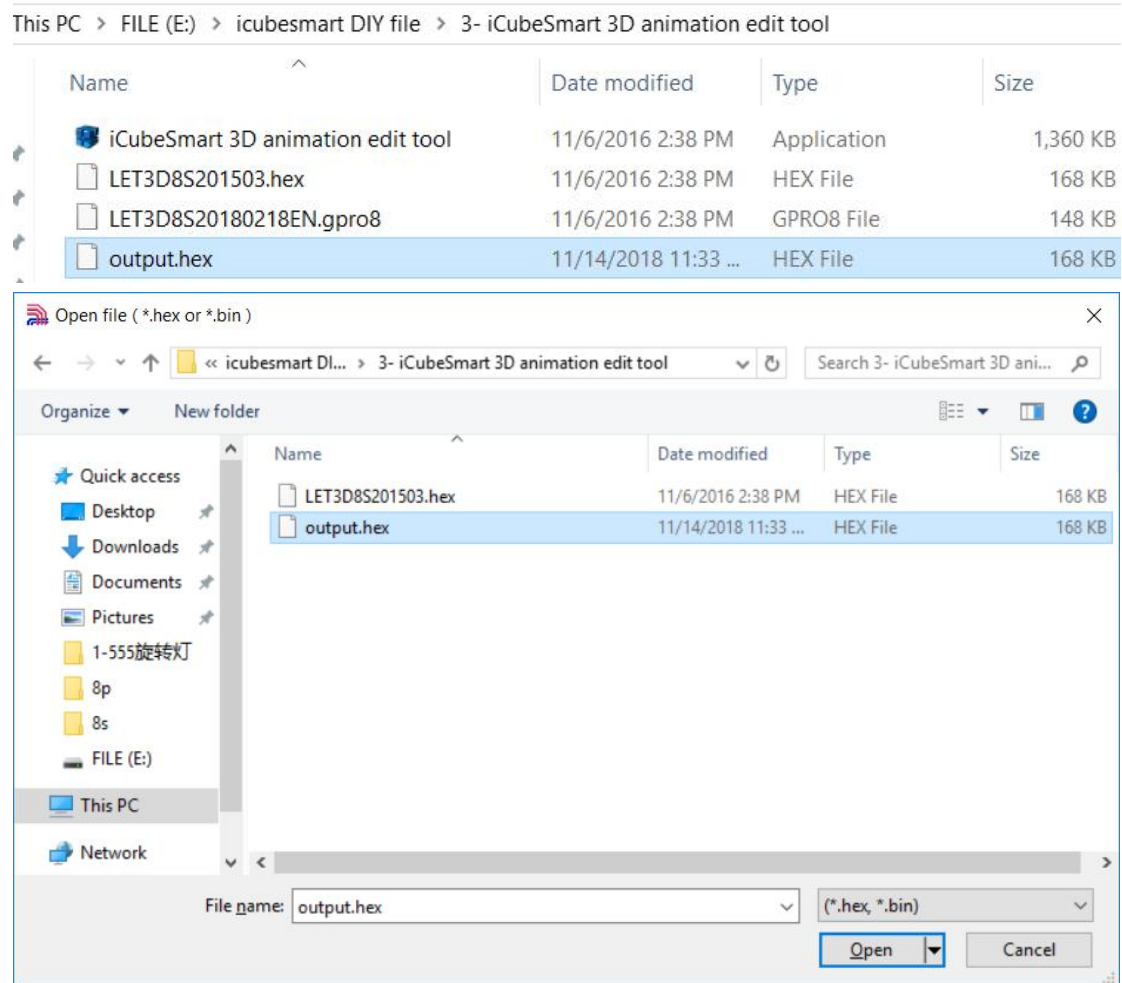
Then select the COM Port number as is in the red circle below. (The COM Port numbers of different computers are different, not necessarily COM3. Please select the COM Port number according to your computer.)

Then click on the *open-code-file* below the red arrow.

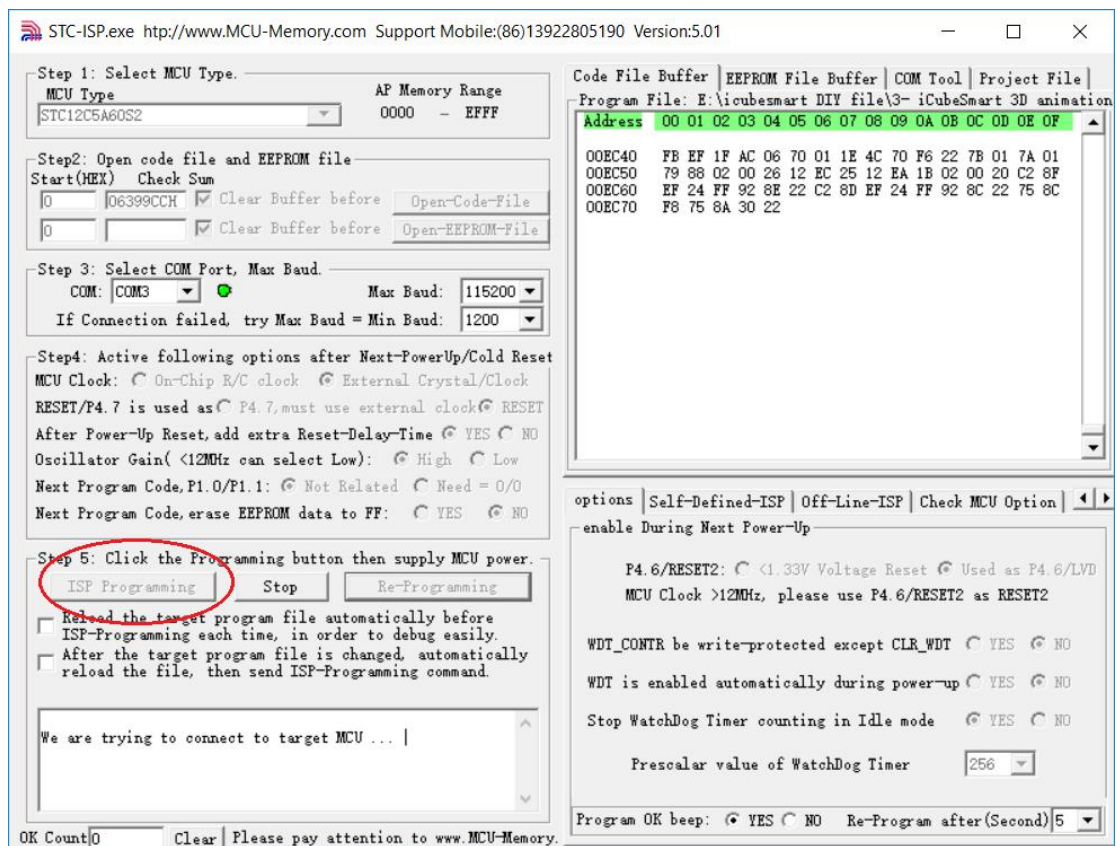


Click *output.hex* in the *3- iCubeSmart 3D animation edit tool* folder.

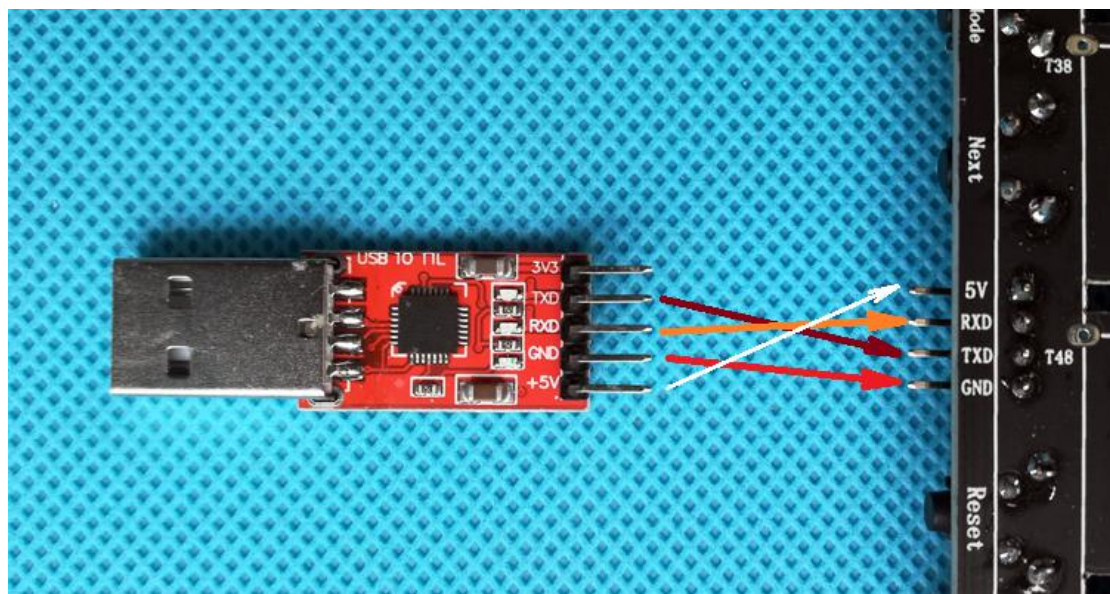
The hex file generated by your own modified animation is in this folder. its name is *output.hex*. You can judge whether it is your own generated hex file based on the time of building of this file.

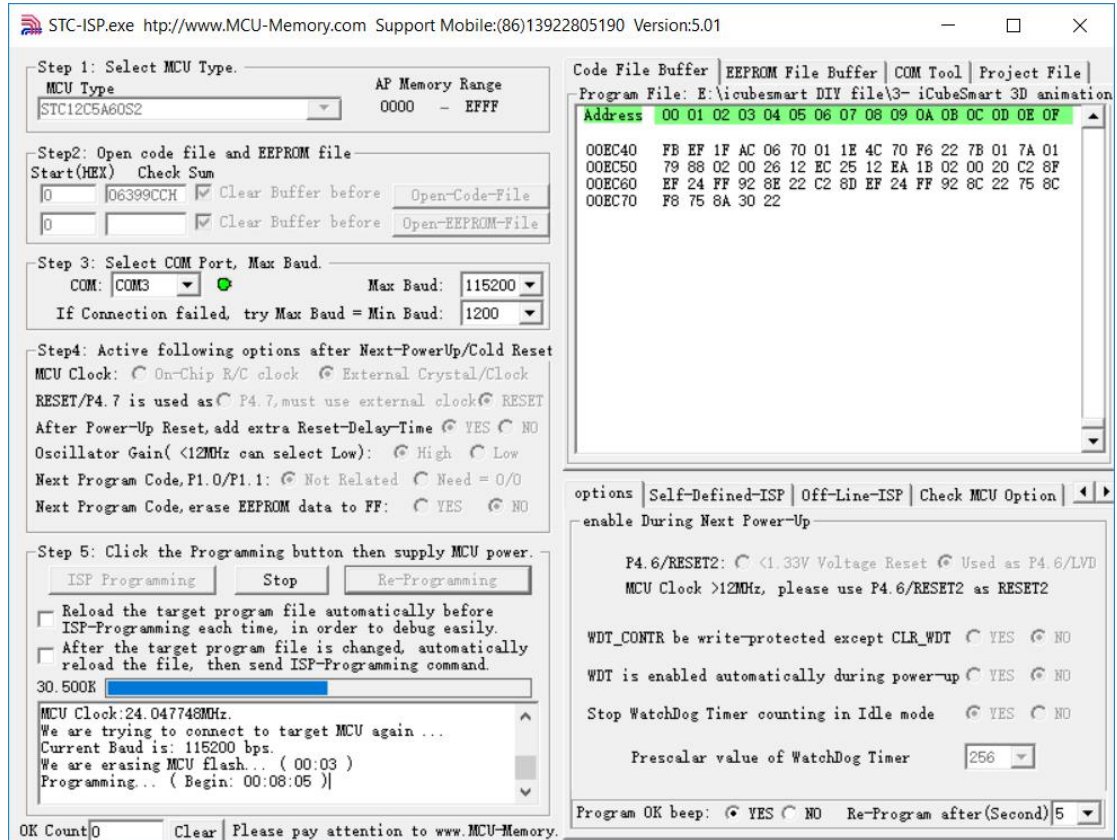


Then click on *ISP programming* in the following red circle,

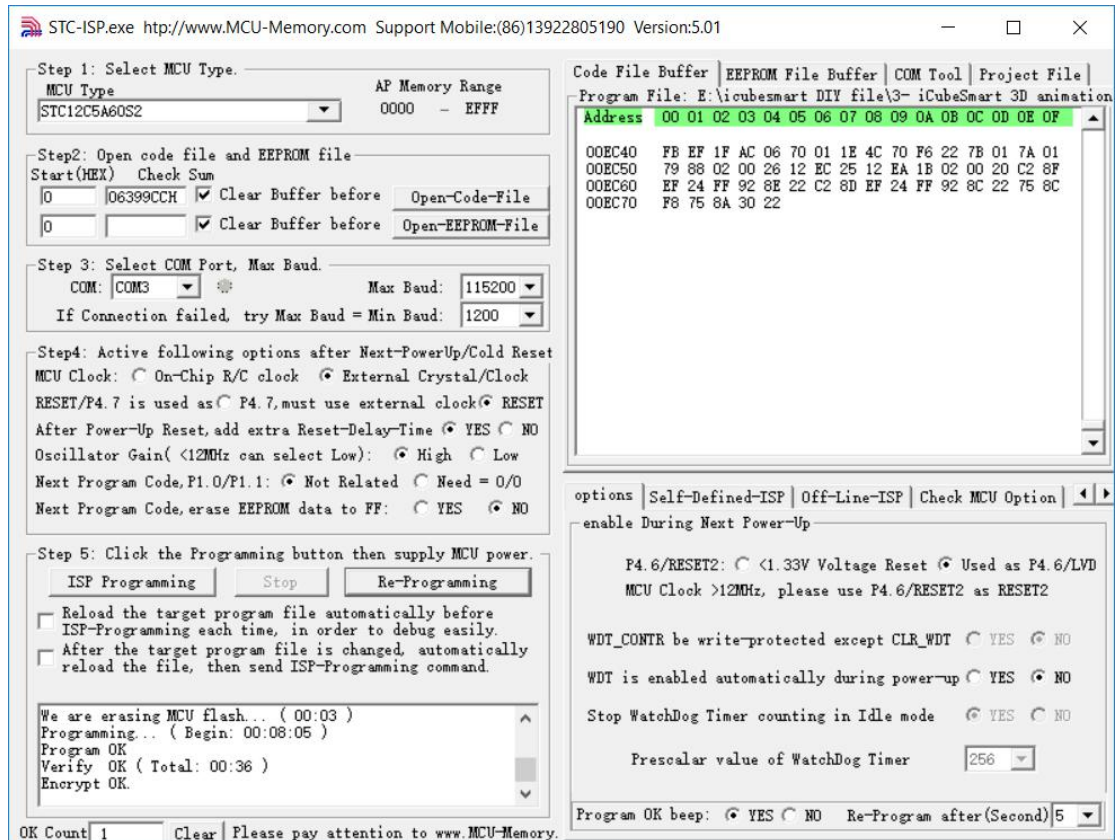


At this time, plug in the VCC download line (Or plug in the usb power adapter), and it starts to download the program.



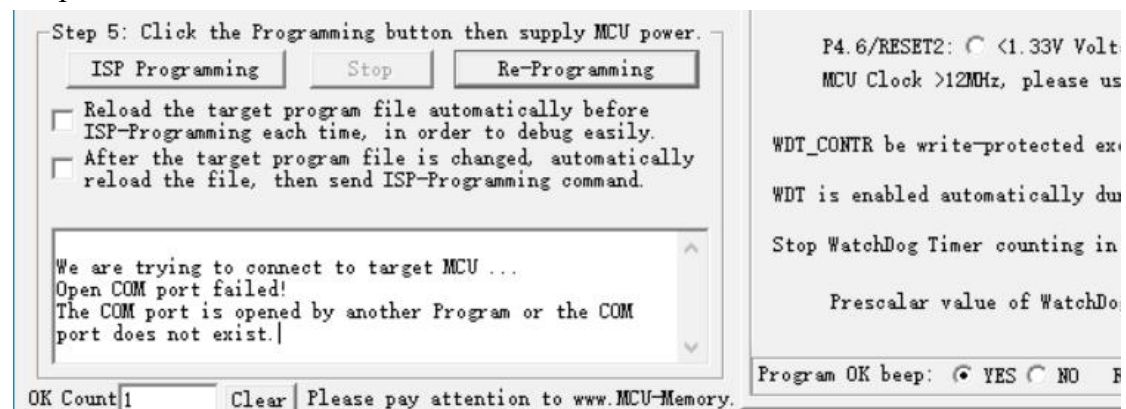


The program download is completed.

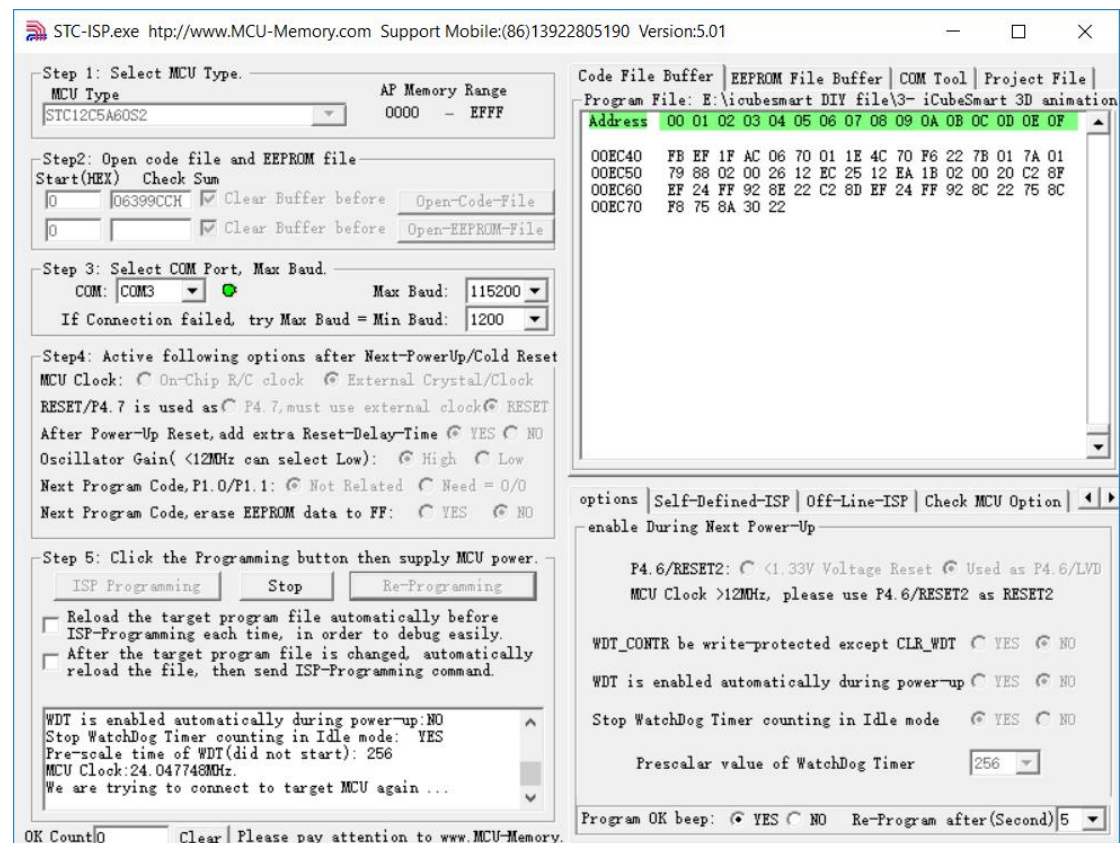


Step 4: Several reasons and solutions for download failure.

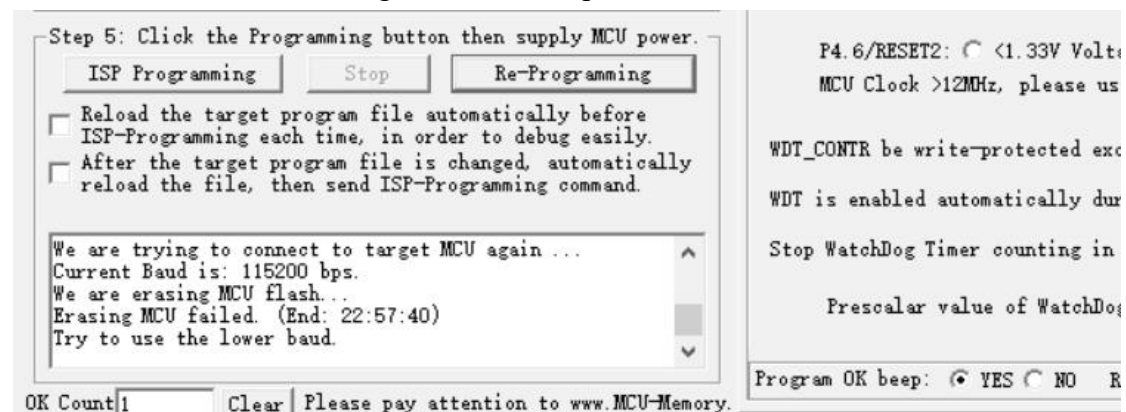
1, “port does not exist”, that is because the driver has’t been installed well.



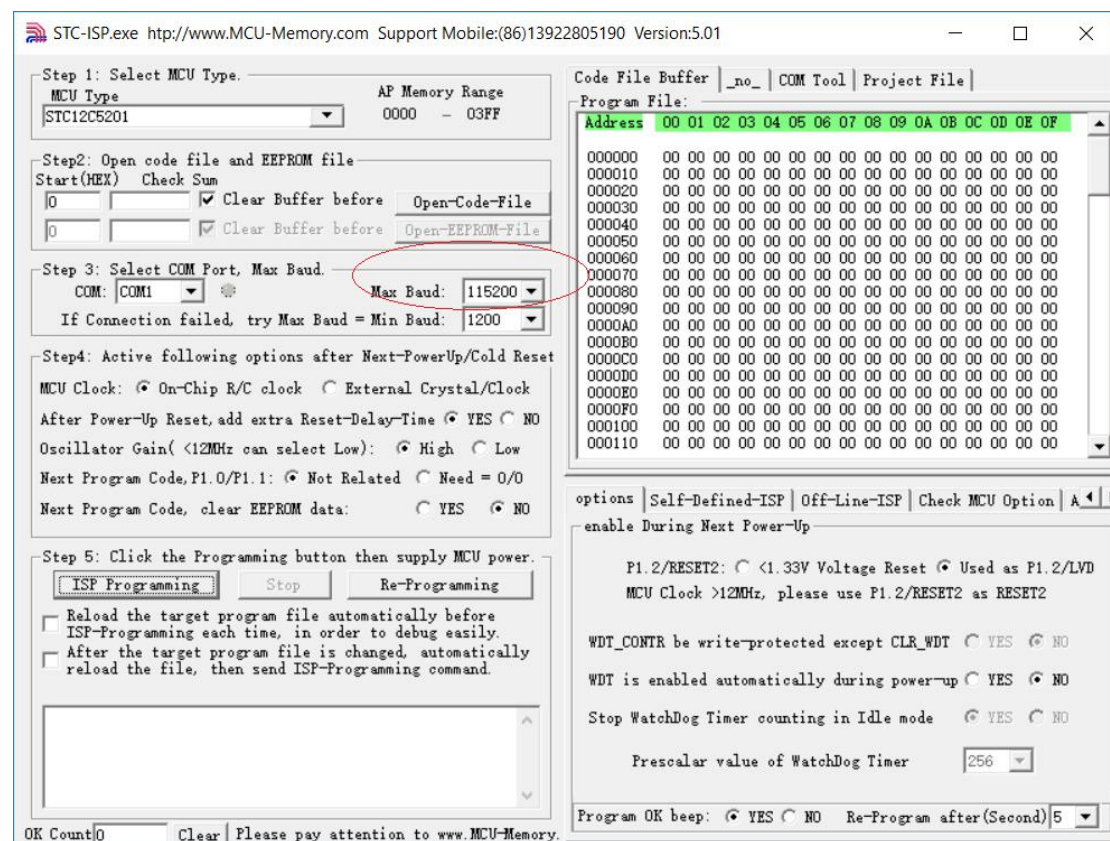
2, After click on *ISP programming*, if it is not plugged in VCC download line for a long time, the following interface will appear. This has no effect. Continue to plug in the VCC line and it will start to download.



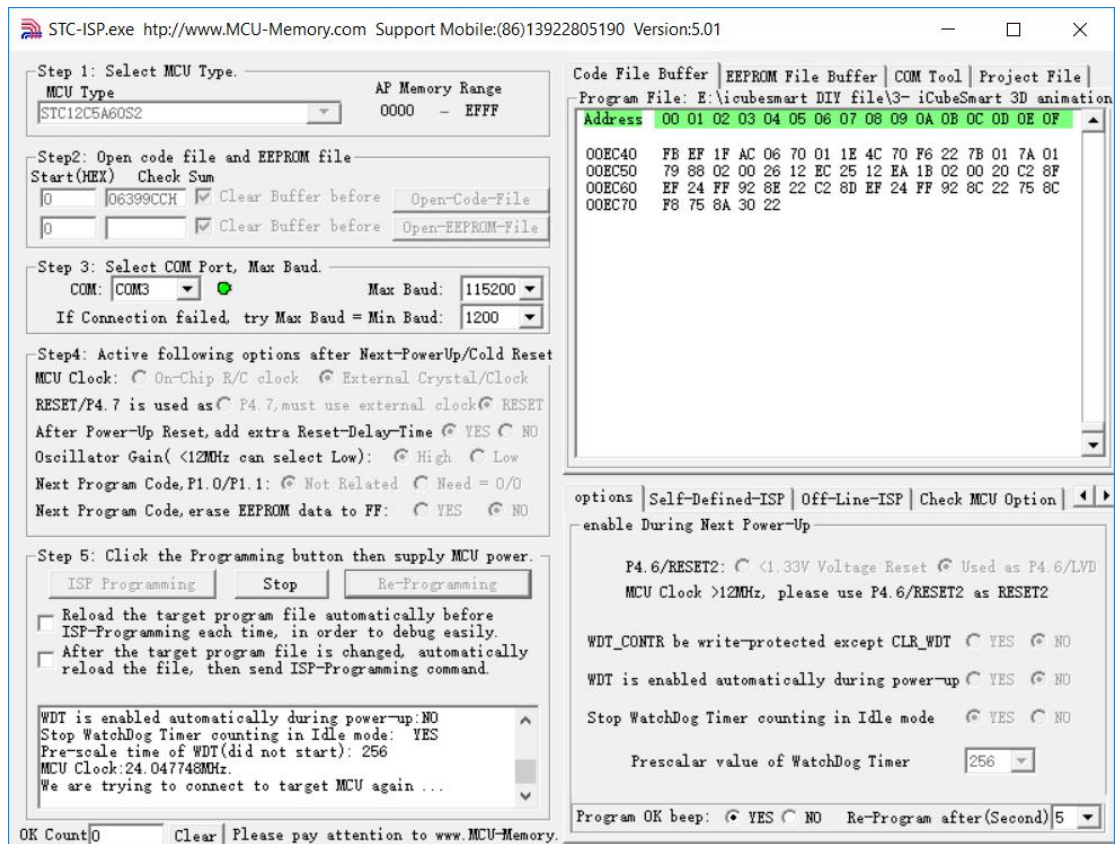
3, The download failed during the download process.



There are many reasons for the download failure. If the above download failure appears repeatedly, please change the value of *Max Baud* to 9600, then the probability of successful download will be much higher.



4, If the interface is as shown below, and do not start to download, please unplug VCC, then press the reset button, release it, and then plug VCC in again. If it still don't start to download, repeat the above operation and try several times.



5, If you encounter other problems, please send us an email (icubessmart@gmail.com). We have professional engineers to help you solve those problems together. Thank you for purchasing icubessmart DIY products, we will continue to launch more and more fun DIY products. We are looking forward to getting your attention, thank you!

We also welcome you add our Facebook, we have a group, and often update some interesting electronic DIY tutorials in the group, as well as discount coupons for various electronic DIY products.

Facebook: Cube Rui <https://www.facebook.com/profile.php?id=100035051435048>