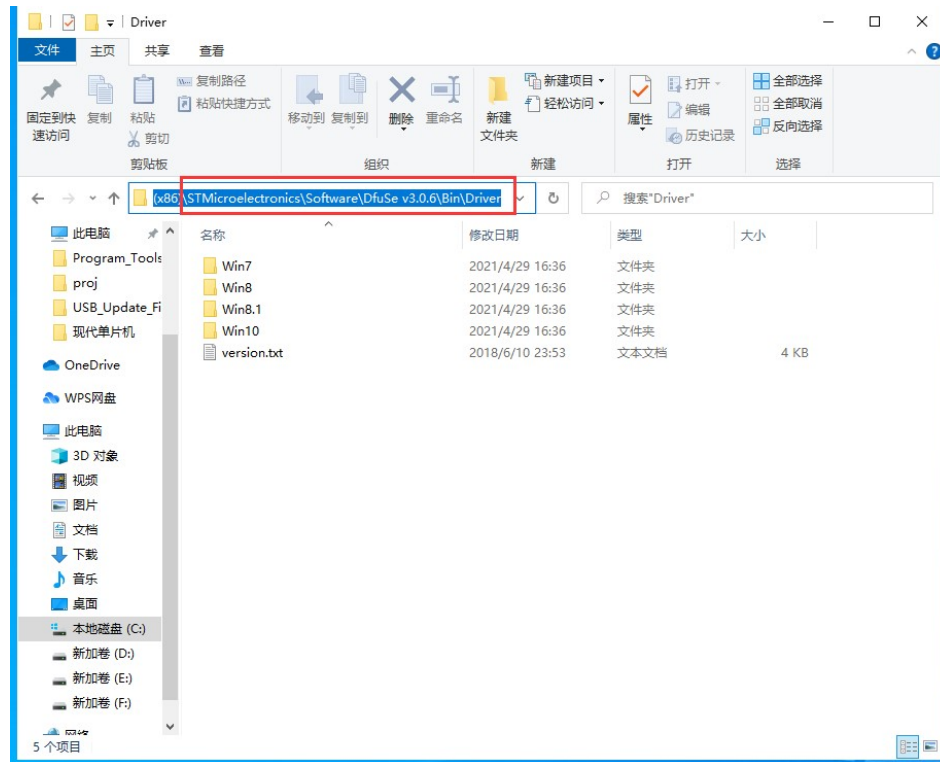
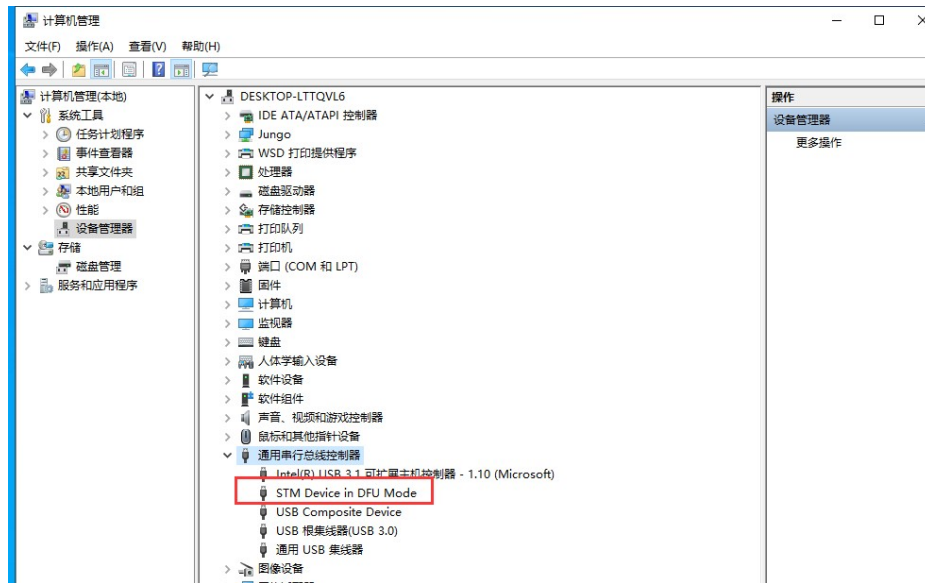


Guidance on WS90 firmware upgrade

1. Double-click "dfuse_demo_v3.0.6_setup.exe" to install the software. After the installation is completed, open the installation path, select and install the corresponding USB driver of STM32 according to the computer system, and various driver paths are shown in the following figure:

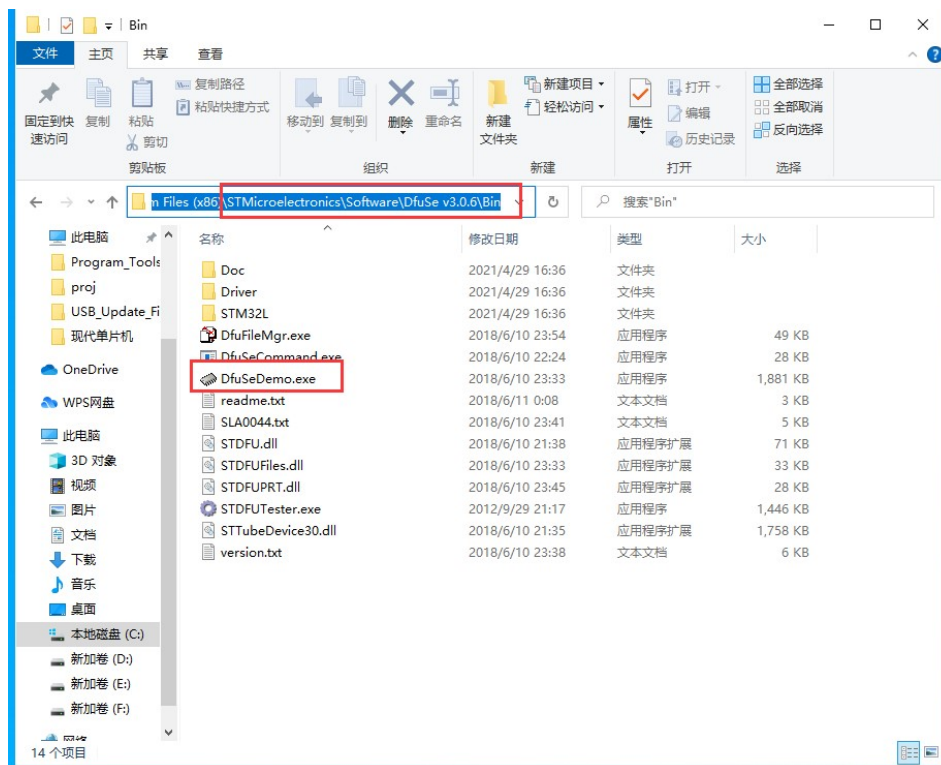


2. Connect the WS90 Device to computer with USB cable, and press the reset button to restart the Device. Make sure the USB port on your PC is USB2.0. The hardware can't be recognized if USB3.0 port is used. The blue LED light flashes, and check whether STM32 Device is recognized in the Device manager of the computer, and "STM Device in DFU Mode" shows that the driver is normal. If not, please reinstall USB driver, and if still have problem, please contact support@ecowitt.com for further help.

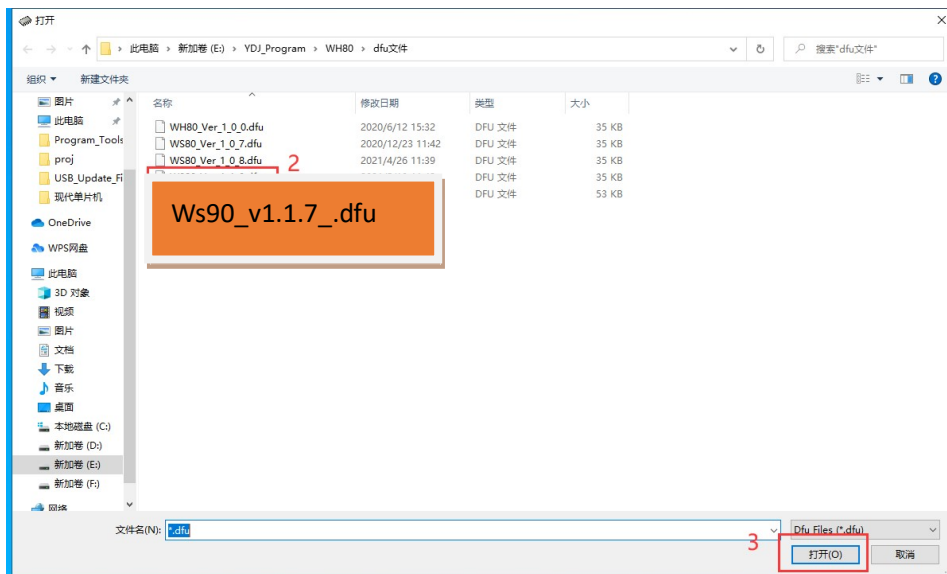
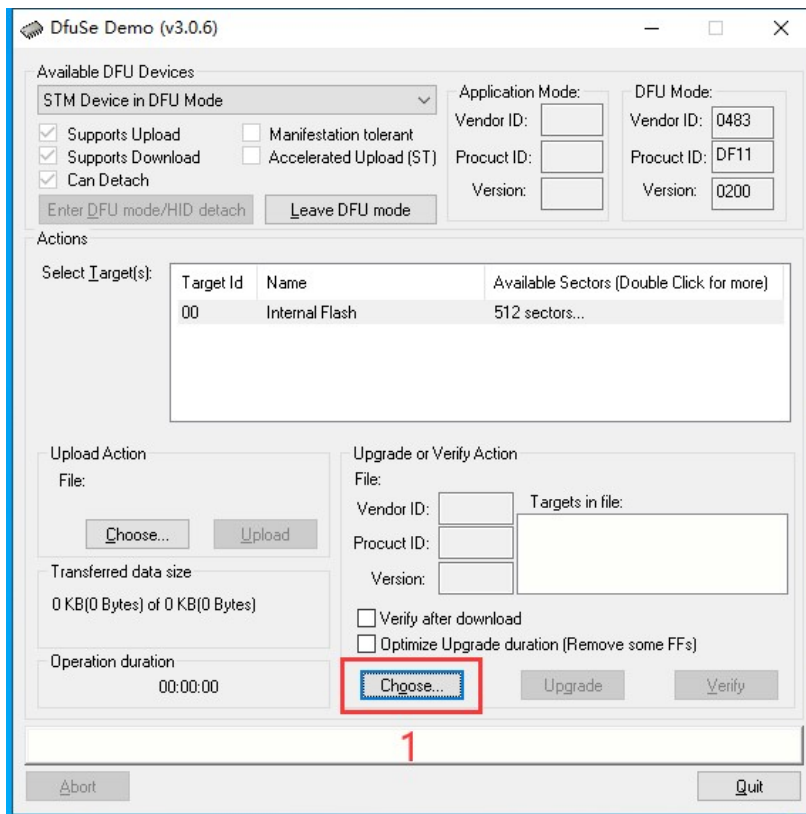


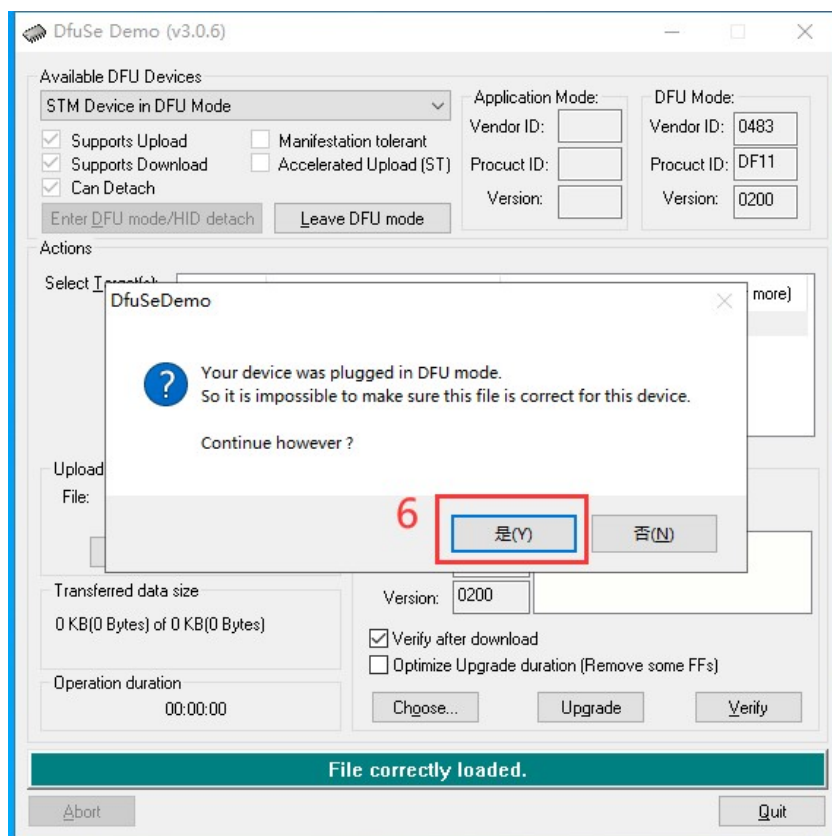
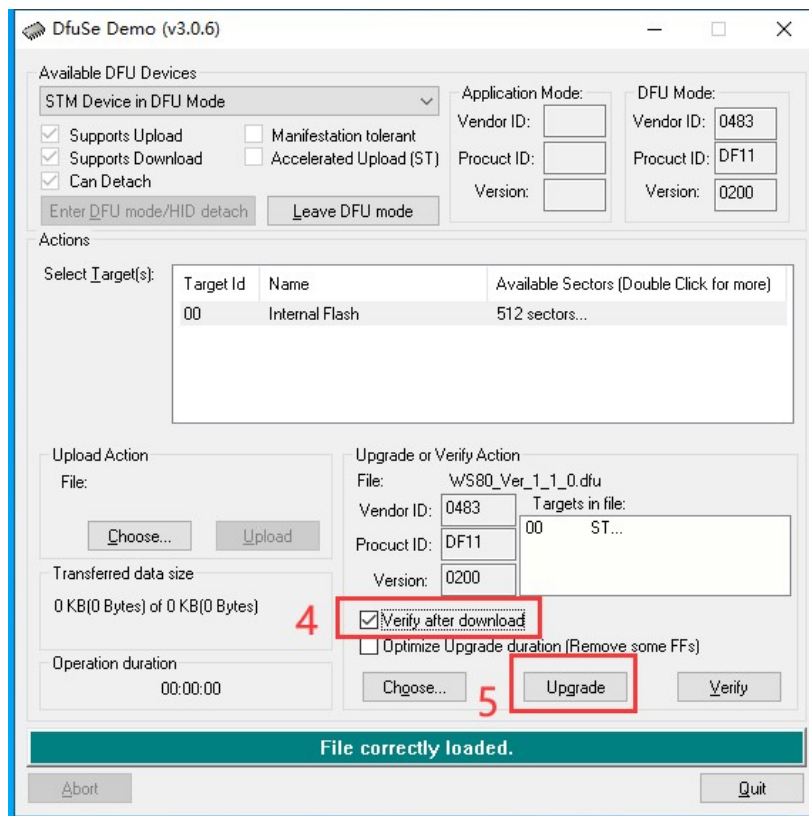


3. Open the installation path, double-click "DfuSeDemo.exe" to run the software;



4. Click the "Choose..." and choose the "WS90_V1.1.7_.dfu" file for upload, then check the "Verify after download" option and click "Upgrade" to Upgrade the firmware.





5.The interface for completion of upgrade is as follows. Click "Leave DFU mode" and the program will jump to complete upgrade. Press “reset” button to restart the sensor and make

sure the LED flashes every 8s.

DfuSe Demo (v3.0.6)

Available DFU Devices

STM Device in DFU Mode

☒ Supports Upload ☐ Manifestation tolerant
☒ Supports Download ☐ Accelerated Upload (ST)
☒ Can Detach

Enter DFU mode/HID detach Leave DFU mode

Application Mode:

Vendor ID: DFU Mode:

Product ID: Vendor ID: 0483

Version: Product ID: DF11

Version: 0200

Actions

Select Target(s):

Target Id	Name	Available Sectors (Double Click for more)
00	Internal Flash	512 sectors...

Upload Action

File: Choose... Upload

Transferred data size

34 KB(35508 Bytes) of 34 KB(35508 Bytes)

Operation duration

00:00:56

Upgrade or Verify Action

File: WS80_Ver_1_1_0.dfu

Vendor ID: 0483 Targets in file: 00 ST...

Product ID: DF11

Version: 0200

☒ Verify after download
☐ Optimize Upgrade duration (Remove some FFs)

Choose... Upgrade Verify

Target 00: Verify successful !

Abort Quit