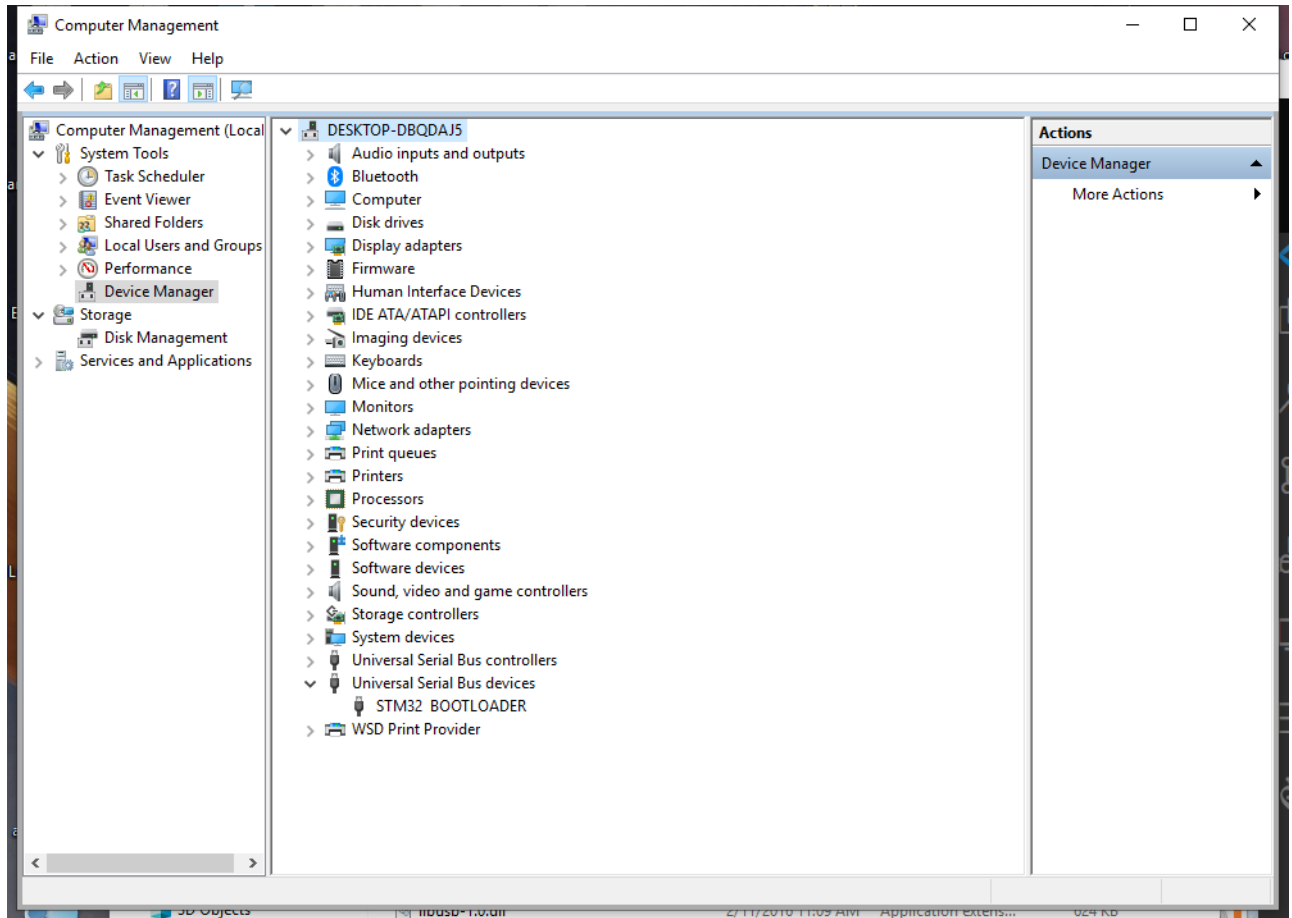


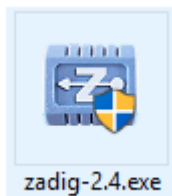
# 1. 驱动的安装和识别

1. 按住板子boot按键，然后插入到USB,设备管理器通用串行总线设备应该显示如下图

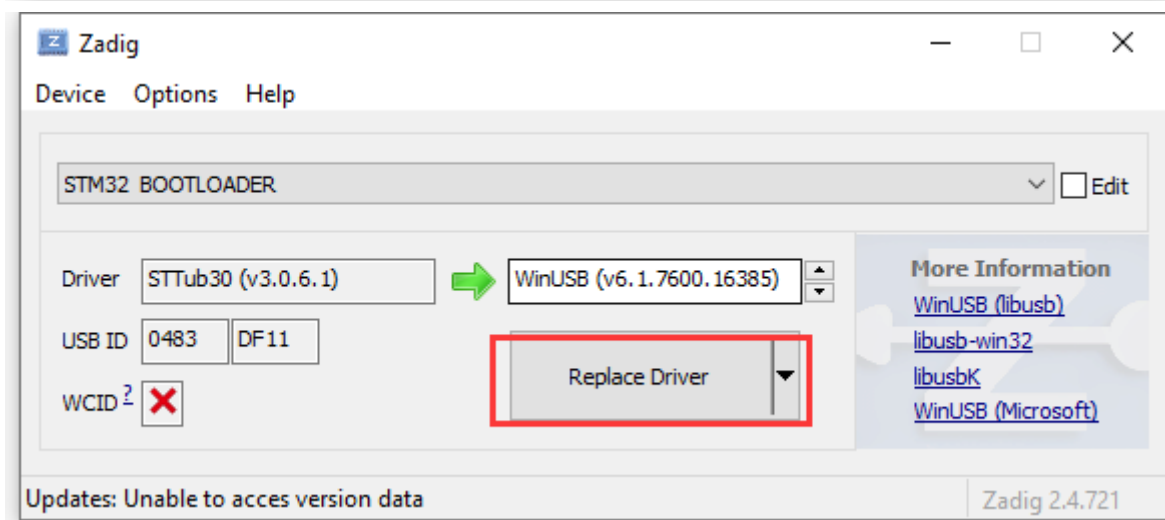
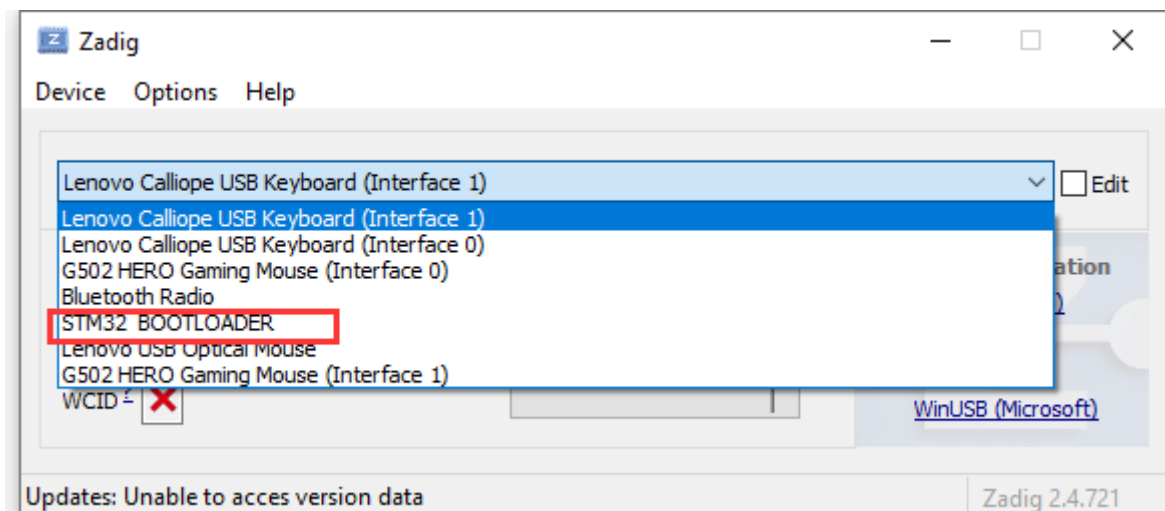
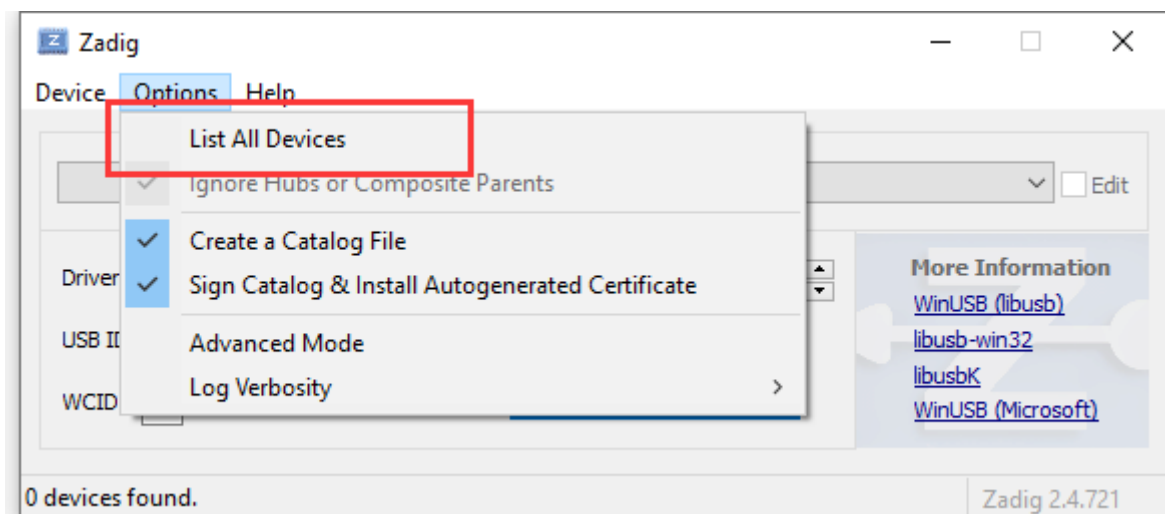


2. 如果没有显示在通用串行总线设备一栏而显示在通用总线控制器一栏那么需要重新更新驱动才行，步骤如下：

- 打开**Zadig**,按照下图操作



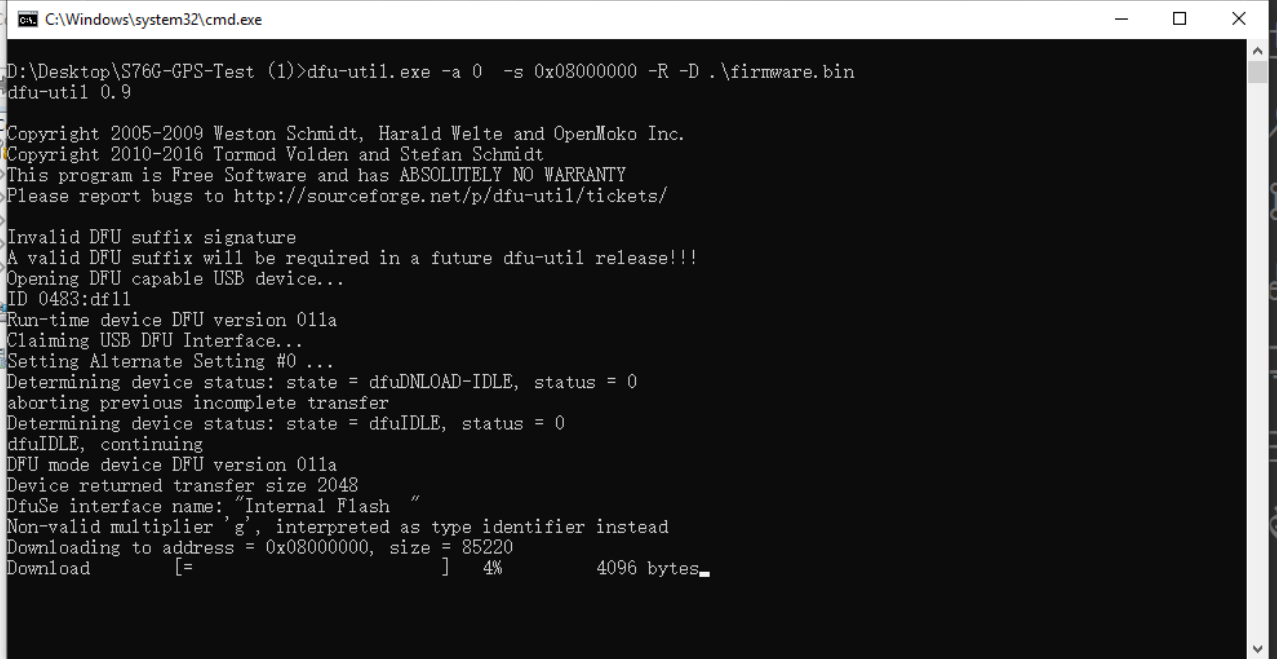
zadig-2.4.exe



- 点击替换之后应该在**通用串行总线设备**一栏，到此驱动就更新完成，在后续不断的插入新的板子时，有时候会掉驱动，要按照上面方法重新替换一下驱动即可

3. 点击**flash.bat**进行程序的烧写,这时候等待烧写完成,如果进度条卡住了,那么按下键盘回车就能恢复了

Name	Date modified	Type	Size
SerialTools	4/14/2021 11:14 AM	File folder	
dfu-prefix.exe	2/11/2016 1:59 PM	Application	175 I
dfu-suffix.exe	2/11/2016 1:59 PM	Application	176 I
dfu-util.exe	2/11/2016 1:59 PM	Application	285 I
dfu-util-static.exe	2/11/2016 2:00 PM	Application	781 I
firmware.bin	4/14/2021 10:15 AM	BIN File	84 I
<b>flash.bat</b>	6/15/2020 1:57 PM	Windows Batch File	1 I
libusb-1.0.dll	2/11/2016 11:09 AM	Application extens...	624 I
zadig-2.4.exe	12/6/2019 4:45 PM	Application	5,038 I



```

C:\Windows\system32\cmd.exe
D:\Desktop\S76G-GPS-Test (1)>dfu-util.exe -a 0 -s 0x08000000 -R -D .\firmware.bin
dfu-util 0.9

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Please report bugs to http://sourceforge.net/p/dfu-util/tickets/

> Invalid DFU suffix signature
> A valid DFU suffix will be required in a future dfu-util release!!!
> Opening DFU capable USB device...
ID 0483:df11
Run-time device DFU version 011a
Claiming USB DFU Interface...
Setting Alternate Setting #0 ...
Determining device status: state = dfuDNLOAD-IDLE, status = 0
aborting previous incomplete transfer
Determining device status: state = dfuIDLE, status = 0
dfuIDLE, continuing
DFU mode device DFU version 011a
Device returned transfer size 2048
DfuSe interface name: "Internal Flash "
Non-valid multiplier 'g', interpreted as type identifier instead
Downloading to address = 0x08000000, size = 85220
Download      [=                ]  4%      4096 bytes

```

4. 要烧写下一个板子,那么不需要重新打开**flash.bat**,只需要重新在串口按下回车键即可烧写下一个板子,记住烧写板子要按住boot按键

## 2. 更换固件

- 固件在文件夹内的文件名称为**firmware.bin**,如果要替换固件,那么只需要将新的固件重命名为**firmware.bin**替换掉文件夹内的文件即可