



Firmware Upgrading User Guide in Ubuntu OS

上海途视传感技术有限公司

Xvisio Technology (Shanghai) Co., Ltd.

Innovating machine perception capability beyond human capacity

www.xvisiotech.com | +86 21 5290 0903 | contact@xvisiotech.com

目录

1. Overview	- 3 -
2. Pre-install System Environment	- 3 -
3. Upgrading	- 5 -

1. Overview

This document mainly describes the upgrading method of Xvisio device in Ubuntu OS.

2. Pre-install System Environment

Before upgrading, user should pre-install the system environment completely.

- 1) Open the terminal and input “*lsusb -vvv*”:

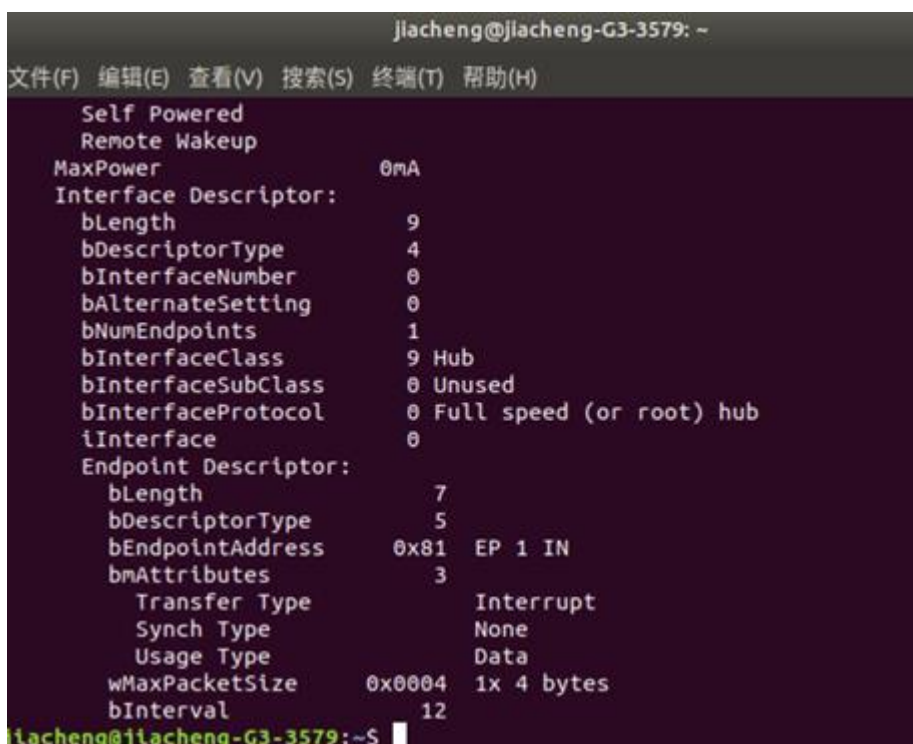


```

jlacheng@jlacheng-G3-3579: ~
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
jlacheng@jlacheng-G3-3579:~$ lsusb -vvv

```

- 2) Press “enter” button:



```

jlacheng@jlacheng-G3-3579: ~
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
Self Powered
Remote Wakeup
MaxPower          0mA
Interface Descriptor:
  bLength          9
  bDescriptorType  4
  bInterfaceNumber 0
  bAlternateSetting 0
  bNumEndpoints   1
  bInterfaceClass  9 Hub
  bInterfaceSubClass 0 Unused
  bInterfaceProtocol 0 Full speed (or root) hub
  iInterface       0
Endpoint Descriptor:
  bLength          7
  bDescriptorType  5
  bEndpointAddress 0x81 EP 1 IN
  bmAttributes     3
    Transfer Type   Interrupt
    Synch Type      None
    Usage Type      Data
  wMaxPacketSize   0x0004 1x 4 bytes
  bInterval        12
jlacheng@jlacheng-G3-3579:~$

```

- 3) Do not close the window of setp2. Open a new terminal and input “*sudo gedit /etc/udev/rules.d/50-myusb.rules*”:



```

jlacheng@jlacheng-G3-3579: ~
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
jlacheng@jlacheng-G3-3579:~$ sudo gedit /etc/udev/rules.d/50-myusb.rules

```

- 4) A text will show after pressing “enter” button. Copy “*SUBSYSTEMS=="usb",ATTRS{idVendor}=="1a86",ATTRS{idProduct}=="7523", GROUP="users", MODE="0666"*” into the text for several times.

- 5) Open the terminal of step1, find the codes behind "idVendor" and "idProduct" then modify the correspond correctly in text. For example, in the text “*idVendor 0xAAAA Sunplus Innovation Technology Inc.idProduct 0xBBBB*” should be changed to “*SUBSYSTEMS=="usb",ATTRS{idVendor}=="AAAA",ATTRS{idProduct}=="BBBB", GROUP="users", MODE="0666"*”.
- It needs to be modified only when “*idVendor*” and “*idProduct*” appears in two consecutive lines.

No need to modify anything when “*idVendor*” or “*idProduct*” appears alone.

Modification completed:

Save and exit after delete the unnecessary instructions.

(If a terminal pops up in step2, input “wq!” to save and exit.)

Input “*sudo udevadm control --reload*” in terminal to reload udev rules. Then input “*sudo apt-get install dfu-util*” to install driver.

```
jlacheng@jlacheng-G3-3579:~$ sudo udevadm control --reload
jlacheng@jlacheng-G3-3579:~$ sudo apt-get install dfu-util
正在读取软件包列表... 完成
正在分析软件包的依赖关系树
正在读取状态信息... 完成
下列软件包是自动安装的并且现在不需要了:
  linux-hwe-5.4-headers-5.4.0-42 linux-hwe-5.4-headers-5.4.0-77
使用 'sudo apt autoremove' 来卸载它(它们)。
下列【新】软件包将被安装:
  dfu-util
升级了 0 个软件包, 新安装了 1 个软件包, 要卸载 0 个软件包, 有 93 个软件包未被升级。
需要下载 33.1 kB 的归档。
解压后会消耗 118 kB 的额外空间。
获取:1 http://cn.archive.ubuntu.com/ubuntu bionic/universe amd64 dfu-util amd64
0.9-1 [33.1 kB]
已下载 33.1 kB, 耗时 1 秒 (31.3 kB/s)
正在选中未选择的软件包 dfu-util。
(正在读取数据库 ... 系统当前共安装有 251790 个文件和目录。)
正准备解包 .../dfu-util_0.9-1_amd64.deb ...
正在解包 dfu-util (0.9-1) ...
正在设置 dfu-util (0.9-1) ...
正在处理用于 man-db (2.8.3-2ubuntu0.1) 的触发器 ...
jlacheng@jlacheng-G3-3579:~$
```

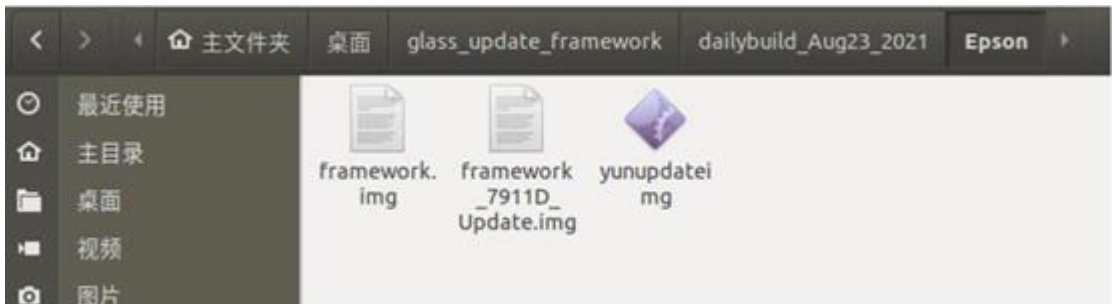
3. Upgrading

- 1) Connect the module with PC.
- 2) Open the terminal and input “lsusb”. “f408” indicates the usb port is normal.



```
good@xvisio: ~
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
good@xvisio:~$ lsusb
Bus 004 Device 007: ID 040e:f408 MCCI
Bus 004 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub
Bus 003 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 002 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub
Bus 001 Device 003: ID 0c45:6718 Microdia
Bus 001 Device 002: ID 30fa:0300
Bus 001 Device 004: ID 8087:0aaa Intel Corp.
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
good@xvisio:~$
```

- 3) Put “framework.img” with “yunupdateimg” into the same catalog.



- 4) Input “ls” to show all the files in the catalog. Then input “sudo ./yunupdateimg framework.img” and press “enter” button:

```
good@xvisio: ~/桌面/glass_update_framework/dailybuild_Aug23_2021/Epson
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)
good@xvisio:~/桌面/glass_update_framework/dailybuild_Aug23_2021/Epson$ ls
framework_7911D Update.img framework.img yunupdateimg
good@xvisio:~/桌面/glass_update_framework/dailybuild_Aug23_2021/Epson$ sudo ./yunupdateimg framework.img
```

5) Upgrading:

```
good@xvisio: ~/桌面/glass_update_framework/dailybuild_Aug23_2021/Epson
文件(F) 编辑(E) 查看(V) 搜索(S) 终端(T) 帮助(H)

Copyright 2005-2009 Weston Schmidt, Harald Welte and OpenMoko Inc.
Copyright 2010-2016 Tormod Volden and Stefan Schmidt
This program is Free Software and has ABSOLUTELY NO WARRANTY
Please report bugs to http://sourceforge.net/p/dfu-util/tickets/

dfu-util: Invalid DFU suffix signature
dfu-util: A valid DFU suffix will be required in a future dfu-util release!!!
Opening DFU capable USB device...
ID 040e:f003
Run-time device DFU version 0110
Claiming USB DFU Interface...
Setting Alternate Setting #0 ...
Determining device status: state = dfuIDLE, status = 0
dfuIDLE, continuing
DFU mode device DFU version 0110
Device returned transfer size 4096
Copying data from PC to DFU device
Download [=====] 100% 3968948 bytes
Download done.
state(7) = dfuMANIFEST, status(0) = No error condition is present
state(7) = dfuMANIFEST, status(0) = No error condition is present
state(7) = dfuMANIFEST, status(0) = No error condition is present
```

6) Upgrading done.

```
state(7) = dfuMANIFEST, status(0) = No error condition is present
state(2) = dfuIDLE, status(0) = No error condition is present
Done!
good@xvisio:~/桌面/glass_update_framework/dailybuild_Aug23_2021/Epson$
```