

Windows 下，請執行\dist\pyusb\pyusb.exe

在 linux 使用 python 及 pyqt 以 USB ISP 燒錄新唐 M0/M4 系列 MCU

請在 linux 的環境下先照下面指令安裝

sudo apt-get update

```
jc@jc-VirtualBox:~/sharefolder/Debug$ sudo apt-get update
[sudo] password for jc:
Hit:1 http://tw.archive.ubuntu.com/ubuntu xenial InRelease
Get:2 http://tw.archive.ubuntu.com/ubuntu xenial-updates InRelease [109 kB]
Get:3 http://tw.archive.ubuntu.com/ubuntu xenial-backports InRelease [107 kB]
Get:4 http://security.ubuntu.com/ubuntu xenial-security InRelease [107 kB]
Get:5 http://tw.archive.ubuntu.com/ubuntu xenial-updates/main amd64 DEP-11
Get:6 http://tw.archive.ubuntu.com/ubuntu xenial-updates/main DEP-11 64x64
Get:7 http://tw.archive.ubuntu.com/ubuntu xenial-updates/universe amd64 DEP-11
Get:8 http://tw.archive.ubuntu.com/ubuntu xenial-updates/universe DEP-11 64x64
Get:9 http://tw.archive.ubuntu.com/ubuntu xenial-updates/multiverse amd64 DEP-11
Get:10 http://tw.archive.ubuntu.com/ubuntu xenial-updates/multiverse DEP-11 64x64
Get:11 http://tw.archive.ubuntu.com/ubuntu xenial-backports/main amd64 DEP-11
Get:12 http://tw.archive.ubuntu.com/ubuntu xenial-backports/universe amd64 DEP-11
```

sudo apt-get install libusb-dev

```
jc@jc-VirtualBox:~/sharefolder/Debug$ sudo apt-get install libusb-dev
Reading package lists... Done
Building dependency tree
Reading state information... Done
libusb-dev is already the newest version (2:0.1.12-28).
0 upgraded, 0 newly installed, 0 to remove and 198 not upgraded.
```

sudo apt-get install libudev-dev

```
jc@jc-VirtualBox:~/sharefolder/Debug$ sudo apt-get install libudev-dev
Reading package lists... Done
Building dependency tree
Reading state information... Done
libudev-dev is already the newest version (229-4ubuntu21.2).
0 upgraded, 0 newly installed, 0 to remove and 198 not upgraded.
```

sudo apt-get -y install python3-pip

```
jc@jc-VirtualBox:~/sharefolder/Debug$ sudo apt-get -y install python3-pip
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libexpat1-dev libpython3-dev libpython3.5-dev python-pip-whl python3-dev
  python3-wheel python3.5-dev
Suggested packages:
  python-setuptools-doc
The following NEW packages will be installed:
  libexpat1-dev libpython3-dev libpython3.5-dev python-pip-whl python3-dev
  python3-setuptools python3-wheel python3.5-dev
0 upgraded, 9 newly installed, 0 to remove and 198 not upgraded.
Need to get 39.2 MB of archives.
```

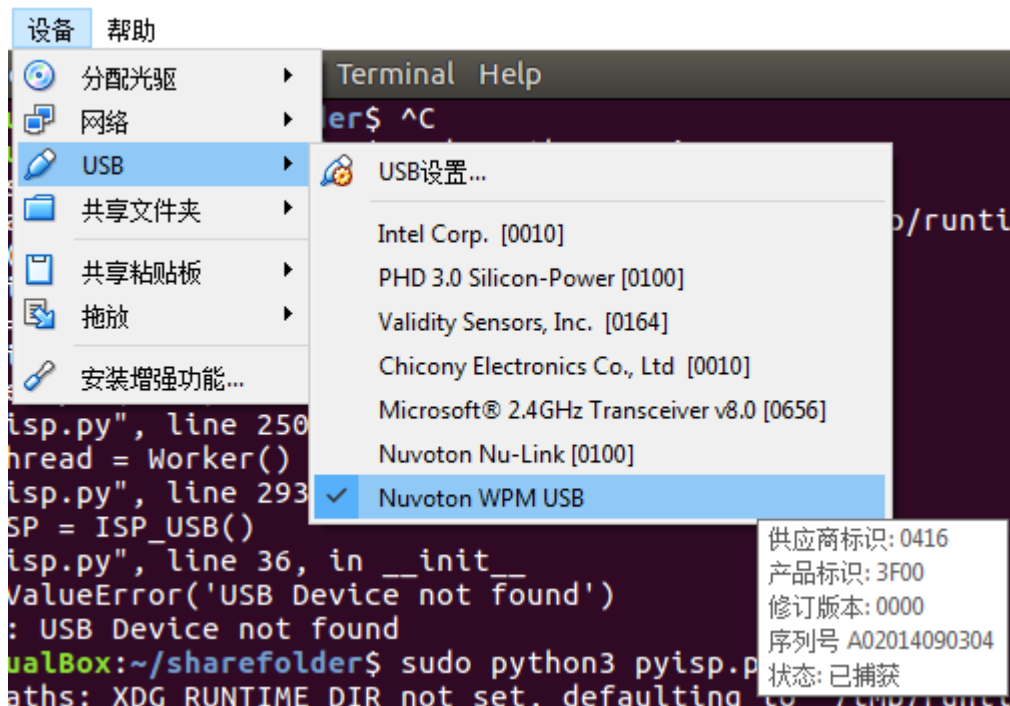
pip3 install pyusb

```
jc@jc-VirtualBox:~/sharefolder/Debug$ pip3 install pyusb
Collecting pyusb
  Downloading https://files.pythonhosted.org/packages/5f/34/2095e821c01225f
e43d3888fa91dd6/pyusb-1.0.2.tar.gz (54kB)
    100% |████████████████████████████████████████| 61kB 64kB/s
Building wheels for collected packages: pyusb
  Running setup.py bdist_wheel for pyusb ... done
  Stored in directory: /home/jc/.cache/pip/wheels/1f/a9/7e/d189b5030ee3a561
08a5
Successfully built pyusb
Installing collected packages: pyusb
Successfully installed pyusb
```

pip3 install pyqt5

```
jc@jc-VirtualBox:~/sharefolder/Debug$ pip3 install pyqt5
Collecting pyqt5
  Downloading https://files.pythonhosted.org/packages/e4/15/4e2e49f64884edb
1f2883e645d4d8f/PyQt5-5.10.1-5.10.1-cp35.cp36.cp37.cp38-abi3-manylinux1_x86
    100% |████████████████████████████████████████| 107.8MB 13kB/s
Collecting sip<4.20,>=4.19.4 (from pyqt5)
  Downloading https://files.pythonhosted.org/packages/6b/46/2869369c8ec634e
328efccfa0c855e/sip-4.19.8-cp35-cp35m-manylinux1_x86_64.whl (66kB)
    100% |████████████████████████████████████████| 71kB 87kB/s
Installing collected packages: sip, pyqt5
Successfully installed pyqt5-5.10.1 sip-4.19.8
```

請先將 USB ISP FW 燒錄到目標的 LDROM,並確認 LDROM 已經正確執行。USB  
VID:0x0416, PID:0x3F00



執行 `sudo python3 pyisp.py`

```
jc@jc-VirtualBox:~/sharefolder$ sudo python3 pyisp.py
QStandardPaths: XDG_RUNTIME_DIR not set, defaulting to '/tmp/runtime-root'
```

即可開啟 NUVTON ISP，"Load Bin File"，可以選擇 bin file.選擇完後，可以使用 `start isp` 開始燒錄。

