USB2CAN Series Python On Windows

Menu

1. General Description:

This document is for people want to use below product with Python programing on Windows platform.

USB2CAN

USB2CAN-C

USB2CAN-DEV

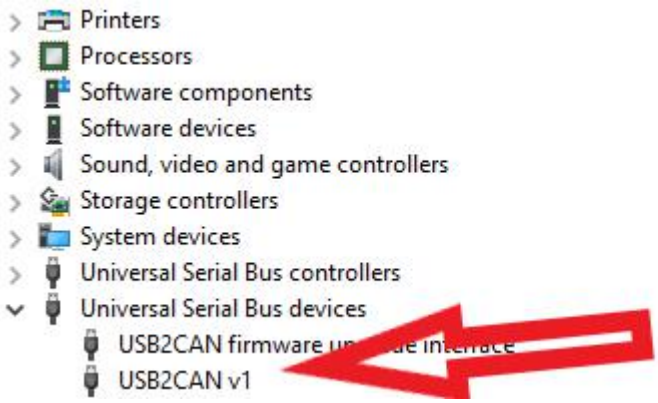
USB2CAN-X2

2. Driver Install

USB2CAN module is a WinUsb device on Windows platform. Windows 10/8 have already auto-install the driver default. If your computer do not have the driver, please install the driver by Zadig tools.

https://github.com/pbatard/libwdi/wiki/Zadig
Or
https://github.com/INNO-MAKER/usb2can/tree/master/For%20Windows/Windows%20Driver%20Tool

USB2CAN can be find in the device manager on Windows after Install completes.



3. Python Demo

Innomaker usb2can device use the gs-usb lib on Python. I use the python 3.7-64bit and Windows PowerShell(terminal) to show you how to run the demo.

3.1 install gs-usb

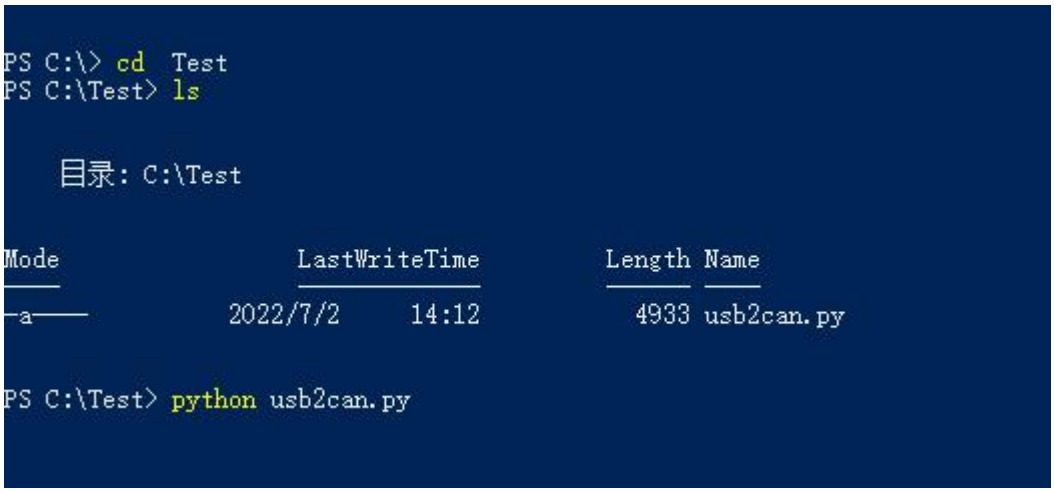
Use below command install gs-usb

```
pip install gs-usb
```

3.2 Running Demo

Download the demo usb2can.py, use PowerShell runing it. You could the USB2CAN device send and receice frame.

```
Python usb2can.py
```



```
PS C:\Test> python usb2can.py
[<gs_usb.gs_usb.GsUsb object at 0x0000023AAC717F08>]
TX        7FF    [8]   12 34 56 78 9A BC DE F0
RX        7FF    [8]   12 34 56 78 9A BC DE F0
RX        7FF    [8]   12 34 56 78 9A BC DE F0
TX        7FF    [0]
RX        7FF    [0]
RX        7FF    [0]
TX        7FF    [8]   12 34 56 78 9A BC DE F0
RX        7FF    [8]   12 34 56 78 9A BC DE F0
TX   12345678    [8]   12 34 56 78 9A BC DE F0
RX   12345678    [8]   12 34 56 78 9A BC DE F0
RX   12345678    [8]   12 34 56 78 9A BC DE F0
TX   12345678    [0]
RX   12345678    [0]
RX   12345678    [0]
TX        7FF    [0]   remote request
RX        7FF    [0]   remote request
RX        7FF    [0]   remote request
TX   12345678    [0]   remote request
RX   12345678    [0]   remote request
RX   12345678    [0]   remote request
TX        7FF    [8]   remote request
RX        7FF    [8]   remote request
RX        7FF    [8]   remote request
TX        7FF    [8]   12 34 56 78 9A BC DE F0
RX        7FF    [8]   12 34 56 78 9A BC DE F0
RX        7FF    [8]   12 34 56 78 9A BC DE F0
TX        7FF    [0]
RX        7FF    [0]
RX        7FF    [0]
TX        7FF    [8]   12 34 56 78 9A BC DE F0
RX        7FF    [8]   12 34 56 78 9A BC DE F0
TX   12345678    [8]   12 34 56 78 9A BC DE F0
RX   12345678    [8]   12 34 56 78 9A BC DE F0
RX   12345678    [8]   12 34 56 78 9A BC DE F0
TX   12345678    [0]
RX   12345678    [0]
RX   12345678    [0]
TX        7FF    [0]   remote request
RX        7FF    [0]   remote request
RX        7FF    [0]   remote request
TX   12345678    [0]   remote request
RX   12345678    [0]   remote request
RX   12345678    [0]   remote request
```

The code default is loop-back mode and 1M baud rate for test. If you want communicate with othe CAN device. Change the work mode to GS_USB_MODE_NORMAL and reset baud rate.

```
# Configuration
if not dev.set_bitrate(1000000):
    print("Can not set bitrate for gs_usb")
    return

# Start device, If you have only one device for test, pls use the loop-back mode,
dev.start(GS_USB_MODE_LOOP_BACK)
#dev.start(GS_USB_MODE_NORMAL)
```

3.3 Can Not Find gs_usb Device

If you could see the usb2can device in the device manager, But PowerShell print 'Can not find gs_usb device' when you running the demo. The libusb driver may install failed.

Download the libusb packet from below link:
https://sourceforge.net/projects/libusb/

Copy the MS64\dll\libusb-1.0.dll to your computer C:\Windows\System32. Try run the demo again.

4. Python Programme

For more Programming detail , please refer to Comments in demo code and the source code for python gs_usb library:

https://github.com/jxltom/gs_usb

5. User Manual Version Descriptions

Version	Description	Date	E-mail
V1.0		2022.07.02	support@inno-maker.com calvin@inno-maker.com