

USB2CAN Series Python On Windows

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1. General Description:

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



USB2CAN



USB2CAN-C



USB2CAN-DEV



USB2CAN-X2

2. Driver Install

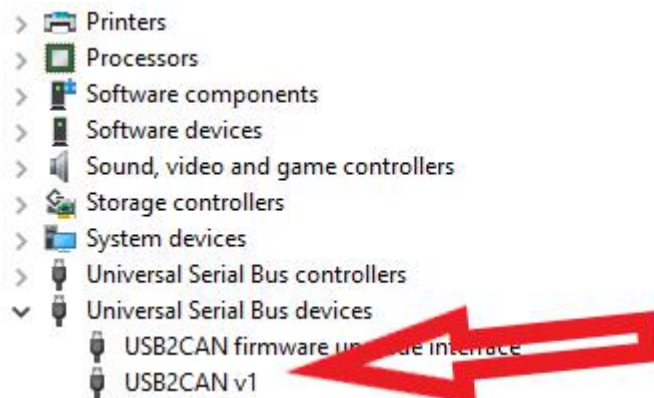
USB2CAN module is a Winusb device on Windows platform. Windows 10/8 have already autoinstall the driver default. If your computer do not have the driver, pls install the driver by Zadig tools.

<https://github.com/pbatard/libwidi/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:\> cd Test
PS C:\Test> ls

    目录: C:\Test

Mode                LastWriteTime         Length Name
----                -
-a-----         2022/7/2   14:12           4933 usb2can.py

PS C:\Test> 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 bitrate for test. If you want communicate with other CAN device. Change the work mode to GS_USB_MODE_NORMAL and reset bitrate.

```
# 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 |
| | | | |