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# **USB2CAN Series Python On Windows**

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# 1. General Description:

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





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

 $\underline{https://github.com/INNO-MAKER/usb2can/tree/master/For\%20Windows/Windows\%20Driver\%20Tool}$ 

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

>		Printers				
>		Processors				
>		Software components				
>		Software devices				
>	Sound, video and game controllers					
>	<u>C</u>	Storage controllers				
>		System devices				
>	Universal Serial Bus controllers					
~	Ÿ	Universal Serial Bus devices				
		USB2CAN firmware up ae interrace				
		♥ USB2CAN v1				



## 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



```
C:\Test> python usb2can.py
[<gs_usb.gs_usb.GsUsb object at 0x00000023AAC717F08>]
TX 7FF [8] 12 34 56 78 9A BC DE FO
RX 7FF [8] 12 34 56 78 9A BC DE FO
TX
RX
                        7FF
7FF
RX
                               12 34 56 78 9A BC DE FO
TX
RX
              7FF
RX
              7FF
                              12 34 56 78 9A BC DE FO
12 34 56 78 9A BC DE FO
12 34 56 78 9A BC DE FO
TX
RX
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              7FF
TX
RX
                                   34
34
                                        56
56
                                             78 9A BC
78 9A BC
      12345678
      12345678
                               12
                                                           DE
                                                               F0
      12345678
                               12 34 56
RX
                                             78 9A BC DE FO
      12345678
TX
RX
RX
TX
RX
RX
      12345678
      12345678
              7FF
                              remote request
              7FF
                              remote request
              7FF
                              remote request
TX
RX
      12345678
                              remote request
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RX
TX
RX
RX
      12345678
                             remote request
              7FF
                             remote request
              7FF
                              remote request
                              remote request
12 34 56 78 9A BC DE FO
12 34 56 78 9A BC DE FO
              7FF
TX
RX
RX
TX
              7FF
                               12 34 56 78 9A BC DE FO
12 34 56 78 9A BC DE FO
              7FF
              7FF
              7FF
RX
RX
              7FF
              7FF
TX
RX
                              12 34 56 78 9A BC DE FO
              7FF
              7FF
TX
RX
      12345678
12345678
                                            78 9A BC DE FO
78 9A BC DE FO
                                   34
34
                                        56
56
      12345678
RX
                               12
TX
      12345678
RX
RX
      12345678
      12345678
TX
RX
              7FF
                              remote request
              7FF
                              remote request
RX
              7FF
                               remote request
      12345678
TΧ
                               remote request
      12345678
RX
                               remote request
                        [0]
      12345678
                               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: <a href="https://sourceforge.net/projects/libusb/">https://sourceforge.net/projects/libusb/</a>

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