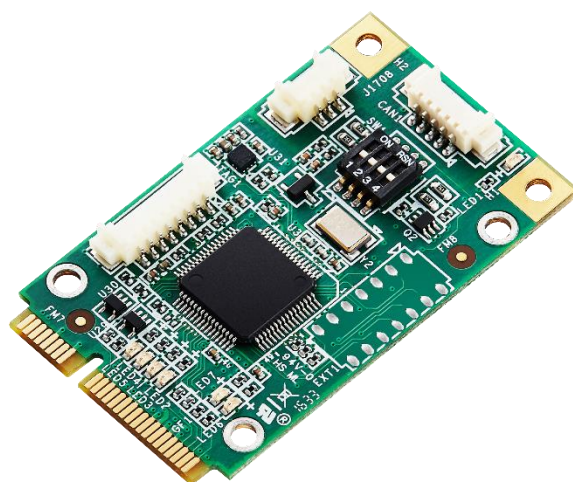


# **AntZer Tech CANbus Module *Solution***

## **FARO**

### **CAN BUS Module Solution**

#### **Basic FARO SDK Operation Guide**



**Version 1.0.0**

**Feb. 9<sup>th</sup>, 2022**

ANTZER TECH CO., LTD.

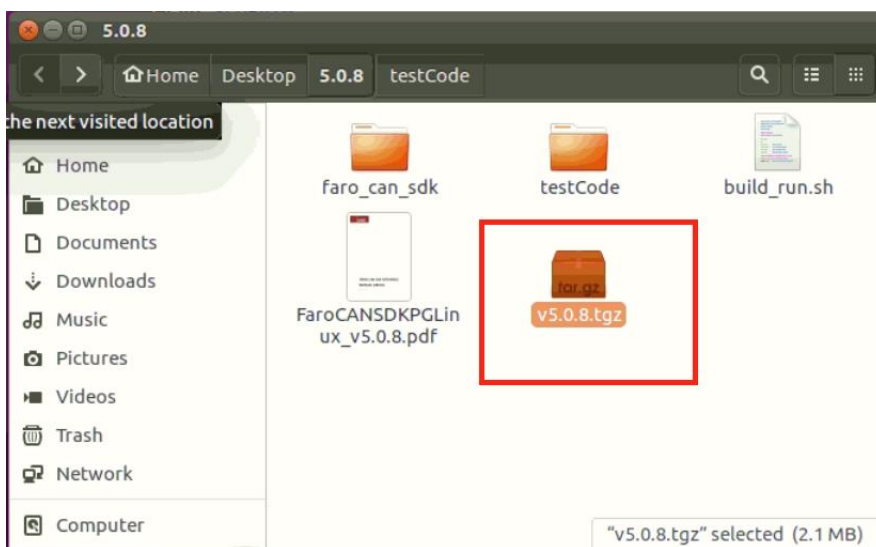
7F-7, No. 237, Sec. 1, Datong Rd., Xizhi Dist., New Taipei City 22161, Taiwan

Tel: +886-2-7703-3000

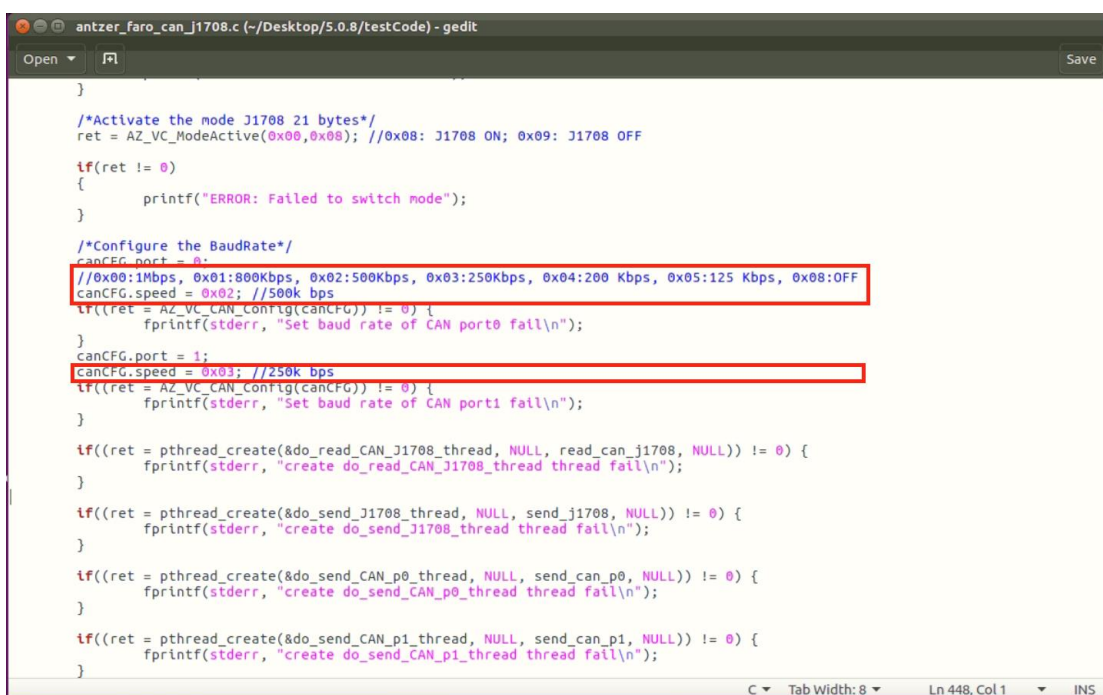
[www.antzer-tech.com](http://www.antzer-tech.com)

## Basic FARO SDK Operation Guide

1. Check the CAN bus connection status and whether there is an upper terminating resistor.
2. Check the CAN bus baud rate between devices are the same.
3. Plug in the FARO module.
4. Unzip 'v5.0.5.tgz'.



5. Enter the "testCode" folder, and open 'antzer\_faro\_can\_j1708.c'.
6. Find lines 435 and 440 modify the corresponding CAN bus baud rate.



7. Enter into the “faro\_can\_sdk” folder and execute cmd: `cmake .`

```
antzerubuntu@antzerubuntu-Aspire-5810T: ~/Desktop/5.0.8/faro_can_sdk
antzerubuntu@antzerubuntu-Aspire-5810T:~/Desktop/5.0.8$ cd faro_can_sdk/
antzerubuntu@antzerubuntu-Aspire-5810T:~/Desktop/5.0.8/faro_can_sdk$ cmake .
-- Configuring done
-- Generating done
-- Build files have been written to: /home/antzerubuntu/Desktop/5.0.8/faro_can_sdk
antzerubuntu@antzerubuntu-Aspire-5810T:~/Desktop/5.0.8/faro_can_sdk$
```

8. Go back to the previous layer to the “5.0.8” folder, and then execute.

`sudo ./build_run.sh`

```
antzerubuntu@antzerubuntu-Aspire-5810T: ~/Desktop/5.0.8
antzerubuntu@antzerubuntu-Aspire-5810T:~/Desktop/5.0.8/faro_can_sdk$ cd ..
antzerubuntu@antzerubuntu-Aspire-5810T:~/Desktop/5.0.8$ sudo ./build_run.sh
/home/antzerubuntu/Desktop/5.0.8/testCode:
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/snap/bin:/home/antzerubuntu/Desktop/5.0.8/testCode:
:/home/antzerubuntu/Desktop/5.0.8/testCode:
:/home/antzerubuntu/Desktop/5.0.8/testCode:
[ 7%] Building C object CMakeFiles/faro_can_sdk_test.dir/src/faro_can_sdk_test.c.o
[ 14%] Linking C executable bin/faro_can_sdk_test
[ 14%] Built target faro_can_sdk_test
[ 21%] Building C object CMakeFiles/faro_can_sdk_demo_obd2.dir/src/faro_can_sdk_demo_obd2.c.o
[ 28%] Linking C executable bin/faro_can_sdk_demo_obd2
[ 28%] Built target faro_can_sdk_demo_obd2
[ 35%] Building C object CMakeFiles/faro_can_sdk_demo.dir/src/faro_can_sdk_demo.c.o
[ 42%] Linking C executable bin/faro_can_sdk_demo
[ 42%] Built target faro_can_sdk_demo
[ 50%] Building C object CMakeFiles/faro_can_sdk_demo3.dir/src/faro_can_sdk_demo3.c.o
```

9. Confirm whether the data is sending normally.

```
antzerubuntu@antzerubuntu-Aspire-5810T: ~/Desktop/5.0.8
rec CAN Frame Cnt:38, ID:75F, Port:0
CAN Data : 00 00 00 00 11 00 00 00
send CAN Port0 cnt: 102, CAN ID:18FEC100
send CAN Port1 cnt: 52, CAN ID:CF00400
send CAN Port0 cnt: 103, CAN ID:18FEC100
rec CAN Frame Cnt:39, ID:75F, Port:0
CAN Data : 00 00 00 00 11 00 00 00
send CAN Port0 cnt: 104, CAN ID:18FEC100
send CAN Port1 cnt: 53, CAN ID:CF00400
send CAN Port0 cnt: 105, CAN ID:18FEC100
send CAN Port0 cnt: 106, CAN ID:18FEC100
rec CAN Frame Cnt:40, ID:75F, Port:0
CAN Data : 00 00 00 00 11 00 00 00
send CAN Port1 cnt: 54, CAN ID:CF00400
^Ccatch SIGINT
CAN port0 send: 106, rec: 40
CAN port1 send: 54, rec: 0
J1708 send: 9, rec: 0
antzerubuntu@antzerubuntu-Aspire-5810T:~/Desktop/5.0.8$ ^C
antzerubuntu@antzerubuntu-Aspire-5810T:~/Desktop/5.0.8$
```

10. If still not received the data, please check the terminal resistance and CAN bus baud rate.
11. If there is no terminating resistor on the wire, please turn on the corresponding terminating resistor on the switch on the FARO.

## 5. CAN Function Switch

The Termination Resistor Switch enables the user to change the 120-ohm resistor quickly.  
Not requires the specific cable.



FARO-HP Series

FARO-FP Series

SW #1: CAN Port 1 Terminal Resistor (Default OFF)  
SW #2: NC (Default OFF)  
SW #3: CAN Port 0 TX On/Off (Default On)  
SW #4: CAN Port 0 Terminal Resistor (Default OFF)  
**ON: Enable / OFF: Disable**