

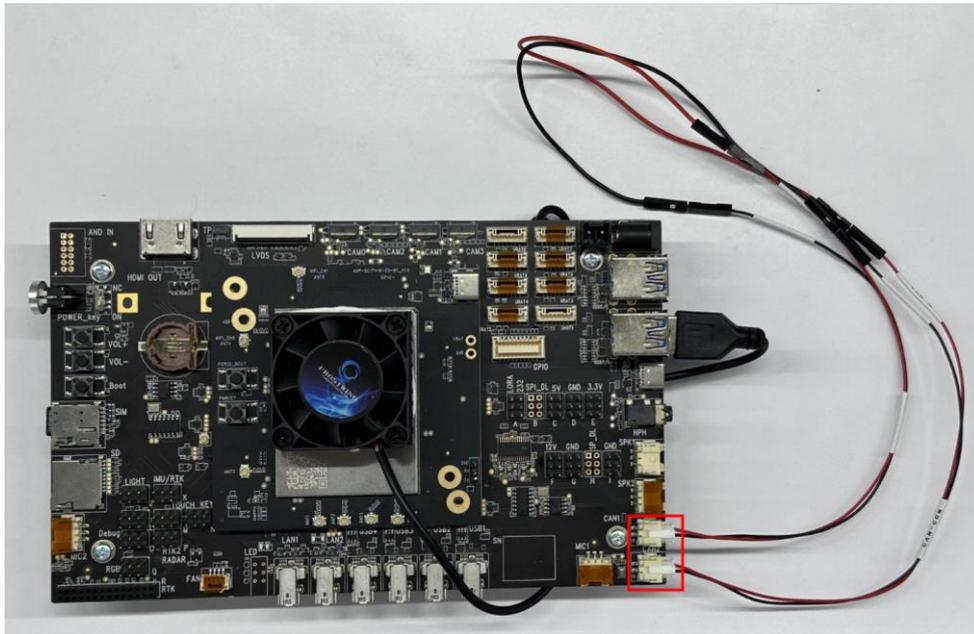


Fibocom 广和通
完美无线体验

Aidlux 下 CAN 口功能测试

V1.1

- 1、SC171 开发套件 V2 上提供了两个 CAN 接口，可以使用杜邦线直接将两个 CAN 接口互联（CAN_H 接在一起，CAN_L 接在一起）做数据收发测试。



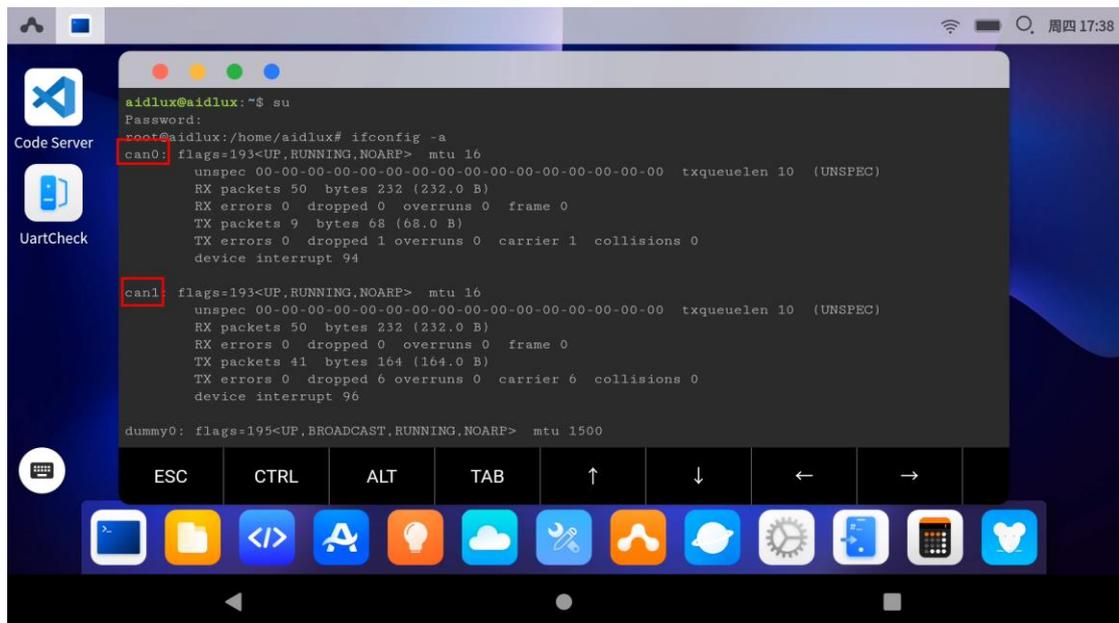
- 2、进入 Aidlux 打开终端，以 root 权限进入
su
输入密码：P@ssw0rd



```
aidlux@aidlux:~$ su
Password:
root@aidlux:/home/aidlux#
```

3、查询是否有 CAN 接口

```
ifconfig -a
```



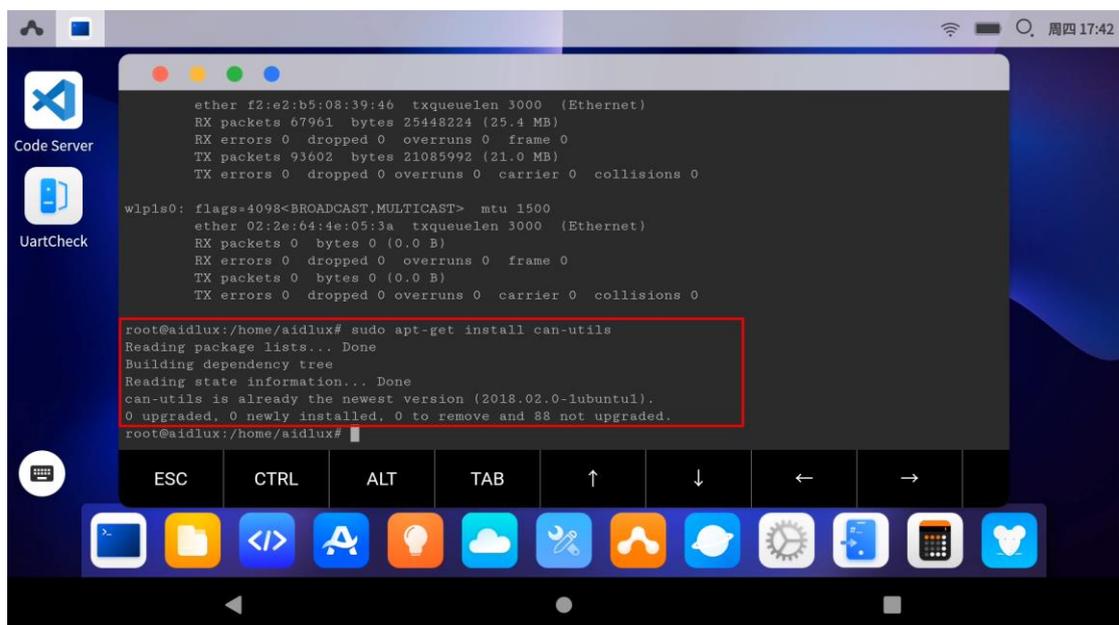
```
aidlux@aidlux:~$ su
Password:
root@aidlux:/home/aidlux# ifconfig -a
can0: flags=193<UP,RUNNING,NOARP> mtu 16
    unspec 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00 txqueuelen 10 (UNSPEC)
    RX packets 50 bytes 232 (232.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 9 bytes 68 (68.0 B)
    TX errors 0 dropped 1 overruns 0 carrier 1 collisions 0
    device interrupt 94

can1: flags=193<UP,RUNNING,NOARP> mtu 16
    unspec 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00 txqueuelen 10 (UNSPEC)
    RX packets 50 bytes 232 (232.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 41 bytes 164 (164.0 B)
    TX errors 0 dropped 6 overruns 0 carrier 6 collisions 0
    device interrupt 96

dummy0: flags=195<UP,BROADCAST,RUNNING,NOARP> mtu 1500
```

4、安装 can-utils 测试工具

```
sudo apt-get install can-utils
```



```
ether f2:e2:b5:08:39:46 txqueuelen 3000 (Ethernet)
RX packets 67961 bytes 25448224 (25.4 MB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 93602 bytes 21085992 (21.0 MB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

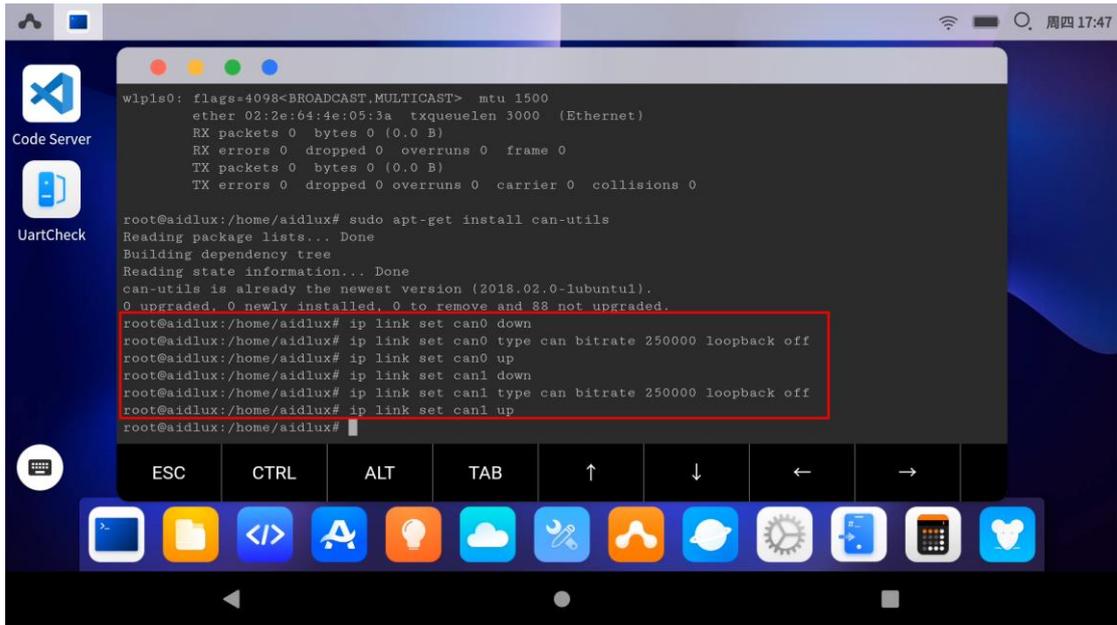
wlp1s0: flags=4098<BROADCAST,MULTICAST> mtu 1500
ether 02:2e:64:4e:05:3a txqueuelen 3000 (Ethernet)
RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@aidlux:/home/aidlux# sudo apt-get install can-utils
Reading package lists... Done
Building dependency tree
Reading state information... Done
can-utils is already the newest version (2018.02.0-lubuntu1).
0 upgraded, 0 newly installed, 0 to remove and 88 not upgraded.
root@aidlux:/home/aidlux#
```

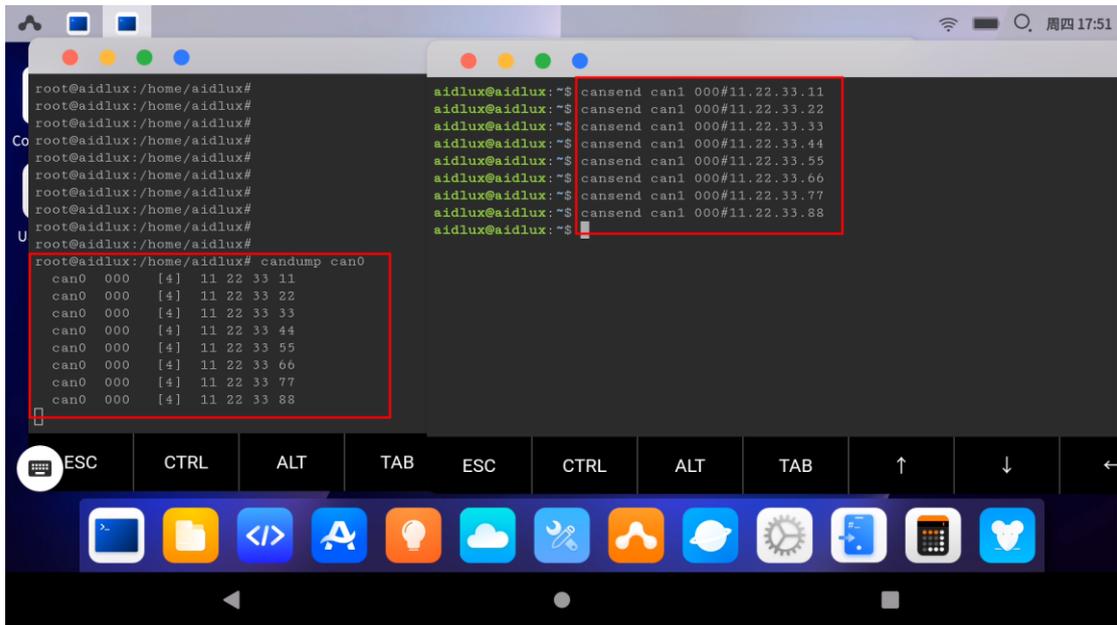
5、分别对 CAN0、CAN1 口设置，设置参数 250000 波特率，并打开 CAN 口

```
ip link set can0 down
ip link set can0 type can bitrate 250000 loopback off
ip link set can0 up
```

```
ip link set can1 down
ip link set can1 type can bitrate 250000 loopback off
ip link set can1 up
```



- 6、此时打开一个终端，并选择 CAN0 口用于接收数据
`candump can0`
再打开一个终端，并选择 CAN1 口用于发送数据
`cansend can1 000#11.22.33.11`



- 7、验证 CAN 口收发数据正常