



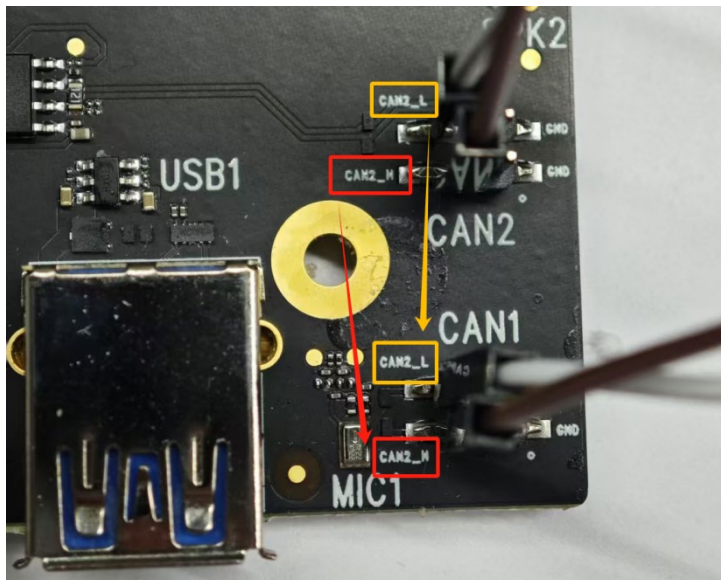
CAN 口测试指南

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详细步骤

1. 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. 输入以下命令，进入开发板终端：
`adb root`
`adb shell`
3. 输入以下命令，查询是否有 CAN 接口：
`ifconfig -a`

```
sh-5.0# ifconfig -a
can0: flags=128<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 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
    device interrupt 80

can1: flags=128<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 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
    device interrupt 81

dummy0: flags=195<UP,BROADCAST,RUNNING,NOARP> mtu 1500
    inet6 fe80::c2e0:155d:47eb:486e prefixlen 64 scopeid 0x20<link>
    ether 9a:0d:48:e9:b5:73 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 212 bytes 72040 (72.0 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

4. 连接 wifi，详情请见《WIFI 连接指南》
5. 输入以下命令安装 can-utils 测试工具：
`apt-get install can-utils`

```
sh-5.0# apt-get install can-utils
Reading package lists... Done
Building dependency tree
Reading state information... Done
can-utils is already the newest version (2018.02.0-1ubuntu1).
0 upgraded, 0 newly installed, 0 to remove and 143 not upgraded.
sh-5.0#
```

6. 输入以下命令，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
```

```
sh-5.0# ip link set can0 down
sh-5.0# ip link set can0 type can bitrate 250000 loopback off
sh-5.0# ip link set can0 up
sh-5.0#
sh-5.0# ip link set can1 down
sh-5.0# ip link set can1 type can bitrate 250000 loopback off
sh-5.0# ip link set can1 up
sh-5.0#
```

7. 输入以下命令，选择 CAN0 口用于接收数据：

```
candump can0
```

8. 另外再打开一个终端，进入开发板终端，输入以下命令，选择 CAN1 口用于发送数据：

```
cansend can1 000#11.22.33.11
```

```
sh-5.0# candump can0
can0 000 [4] 11 22 33 11
can0 000 [4] 11 22 33 11
can0 000 [4] 11 22 33 11
can0 000 [4] 11 22 33 11
can0 000 [4] 11 22 33 11
can0 000 [4] 11 22 33 11
can0 000 [4] 11 22 33 11
can0 000 [4] 11 22 33 11
can0 000 [4] 11 22 33 11
can0 000 [4] 11 22 33 11
can0 000 [4] 11 22 33 11
can0 000 [4] 11 22 33 11
C:\Users\F21L002269>adb shell
sh-5.0# cansend can1 000#11.22.33.11
sh-5.0# cansend can1 000#11.22.33.11
sh-5.0# cansend can1 000#11.22.33.11
sh-5.0# cansend can1 000#11.22.33.11
sh-5.0# cansend can1 000#11.22.33.11
sh-5.0# cansend can1 000#11.22.33.11
sh-5.0# cansend can1 000#11.22.33.11
sh-5.0# cansend can1 000#11.22.33.11
sh-5.0# cansend can1 000#11.22.33.11
sh-5.0# cansend can1 000#11.22.33.11
sh-5.0#
```

如图所示，接受数据的终端输出数据，测试成功。