



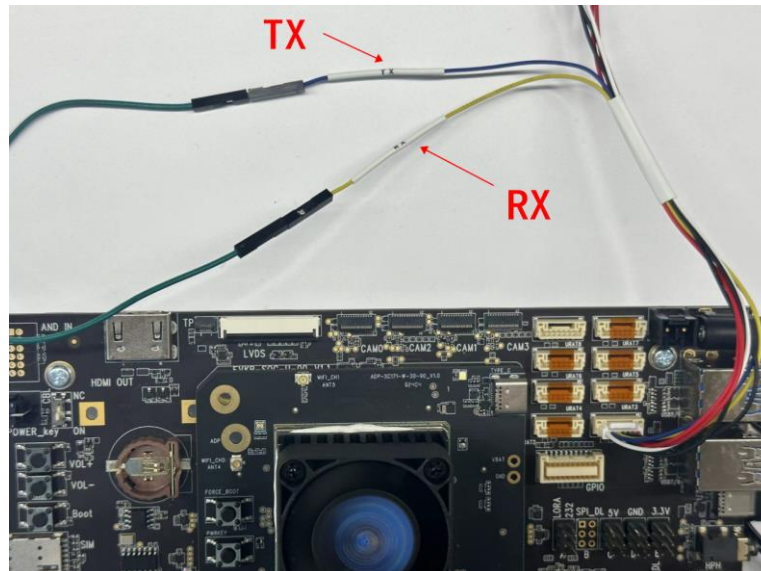
Fibocom 广和通
完美无线体验

Aidlux 下串口功能测试

V1.1

1、SC171 开发套件 V2 上提供了 8 个 UART 接口，其中 UART3 为 Debug 串口，不可使用，其他都可以正常使用，下面我们使用 UART1 来进行测试。

2、使用套件中配套的 UART 转接线，连接至 UART1 口，并使用杜邦线将 UART1 的 TX 与 RX 相连，以实现 UART1 的自发自收，判断 UART1 串口是否可用



3、待开发板上电开机后，使用 TYPE C 的数据线，将开发板连接至电脑，在电脑中打开终端，输入以下命令

```
adb root
```

```
adb remount
```

```
adb reboot
```

```
命令提示符
Microsoft Windows [版本 10.0.18363.1621]
(c) 2019 Microsoft Corporation. 保留所有权利。

C:\Users\F21L002269>adb root
restarting adb as root

C:\Users\F21L002269>adb remount
remount succeeded

C:\Users\F21L002269>adb reboot_
```

4、此时开发板重启，等待重启完成，再输入以下命令，进入 SC171 开发板终端

```
adb root
```

```
adb remount
```

```
adb shell
```

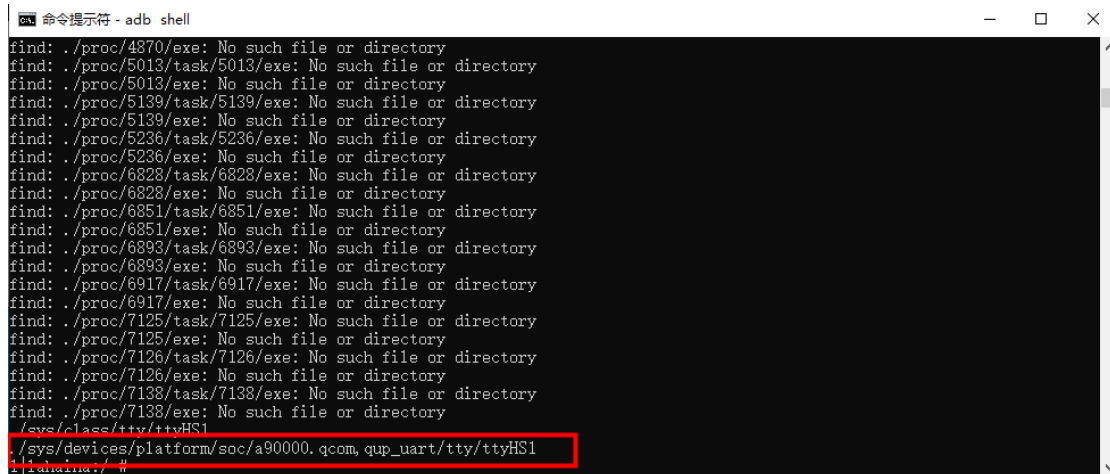
```
C:\Users\F21L002269>adb root
restarting adb as root

C:\Users\F21L002269>adb remount
remount succeeded

C:\Users\F21L002269>adb shell
lahaina:/ #
```

5、查询 UART1 端口号 ttyHS1 文件路径

```
find ./ -name ttyHS1
```



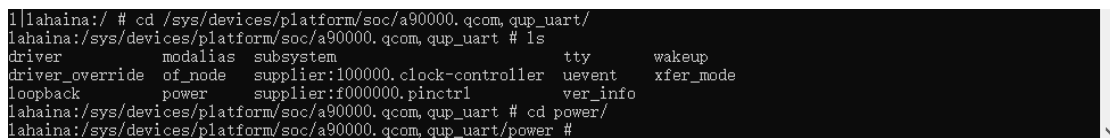
```
命令提示符 - adb shell
find: ./proc/4870/exe: No such file or directory
find: ./proc/5013/task/5013/exe: No such file or directory
find: ./proc/5013/exe: No such file or directory
find: ./proc/5139/task/5139/exe: No such file or directory
find: ./proc/5139/exe: No such file or directory
find: ./proc/5236/task/5236/exe: No such file or directory
find: ./proc/5236/exe: No such file or directory
find: ./proc/6828/task/6828/exe: No such file or directory
find: ./proc/6828/exe: No such file or directory
find: ./proc/6851/task/6851/exe: No such file or directory
find: ./proc/6851/exe: No such file or directory
find: ./proc/6893/task/6893/exe: No such file or directory
find: ./proc/6893/exe: No such file or directory
find: ./proc/6917/task/6917/exe: No such file or directory
find: ./proc/6917/exe: No such file or directory
find: ./proc/7125/task/7125/exe: No such file or directory
find: ./proc/7125/exe: No such file or directory
find: ./proc/7126/task/7126/exe: No such file or directory
find: ./proc/7126/exe: No such file or directory
find: ./proc/7138/task/7138/exe: No such file or directory
find: ./proc/7138/exe: No such file or directory
./sys/class/tty/ttyHS1
/sys/devices/platform/soc/a90000.qcom,qup_uart/tty/ttyHS1
```

6、进入到/sys/devices/platform/soc/a90000.qcom,qup_uart/路径下，再进入 power 路径下

```
cd /sys/devices/platform/soc/a90000.qcom,qup_uart/
```

```
ls
```

```
cd power/
```



```
lahaina:/ # cd /sys/devices/platform/soc/a90000.qcom,qup_uart/
lahaina:/sys/devices/platform/soc/a90000.qcom,qup_uart # ls
driver          modalias        subsystem      tty            wakeup
driver_override of_node         supplier:100000.clock-controller uevent        xfer_mode
loopback        power           supplier:f000000.pinctrl   ver_info
lahaina:/sys/devices/platform/soc/a90000.qcom,qup_uart # cd power/
lahaina:/sys/devices/platform/soc/a90000.qcom,qup_uart/power #
```

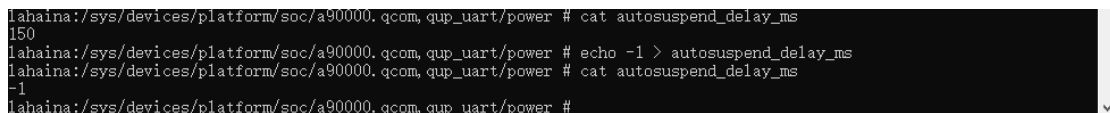
7、查询当前是否设置休眠，查询到结果为 150，也就是间隔 150ms 就会进入自动休眠，将串口设置为不休眠，再次查询是否设置休眠，查询到结果为 -1，成功关闭了自动休眠。

切记：关闭休眠命令断电不保存，所以每次开机都需要重新设置

```
cat autosuspend_delay_ms
```

```
echo -1 > autosuspend_delay_ms
```

```
cat autosuspend_delay_ms
```



```
lahaina:/sys/devices/platform/soc/a90000.qcom,qup_uart/power # cat autosuspend_delay_ms
150
lahaina:/sys/devices/platform/soc/a90000.qcom,qup_uart/power # echo -1 > autosuspend_delay_ms
lahaina:/sys/devices/platform/soc/a90000.qcom,qup_uart/power # cat autosuspend_delay_ms
-1
lahaina:/sys/devices/platform/soc/a90000.qcom,qup_uart/power #
```

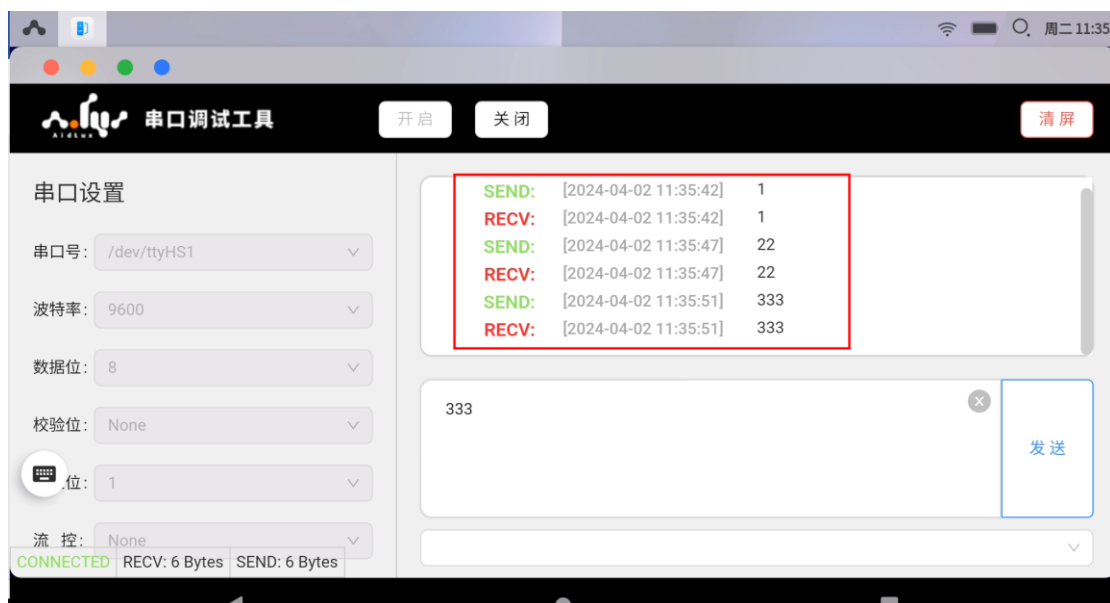
8、此时进入 Aidlux，在应用中心下载 UartCheck 串口调试工具



9、打开 UartCheck，串口号选择/dev/ttyHS1，波特率选择 9600，其他设置不变，然后点击开启，此时页面显示连接成功



10、在输入框中发送信息，可以看到页面中实现了自发自收，验证 UART1 串口功能成功



11、其他串口测试方法同理