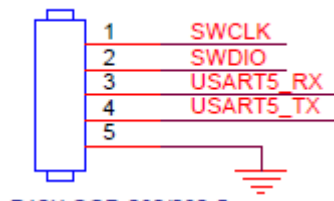


# 外觀與接線:

如下圖



- 1.左上方是電源(右正左負)，請維持 3.6V 供電。
- 2.右上接腳為 UART 與 STLINK



左到右依序是 GND,TX,RX, SWDIO,SWCLK

- 3.下方是測試接腳

左到右依序是 GND,Port1,Port2,Port3

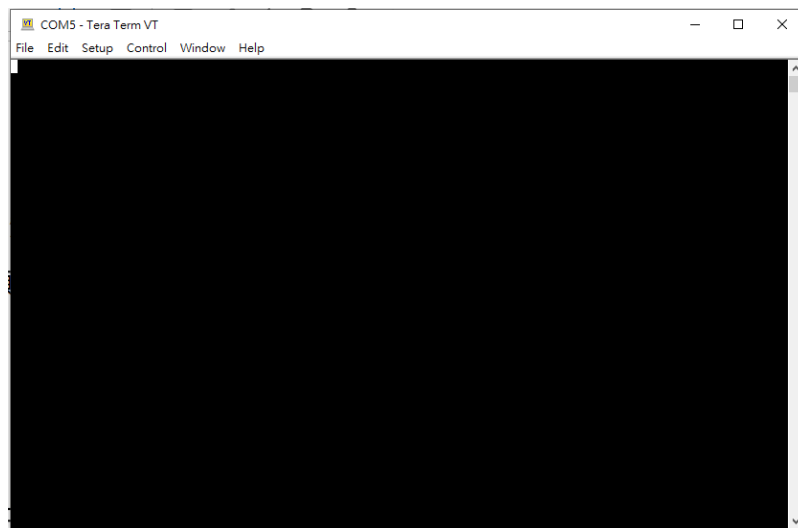
# STR 程式執行

## 1. 正常運作

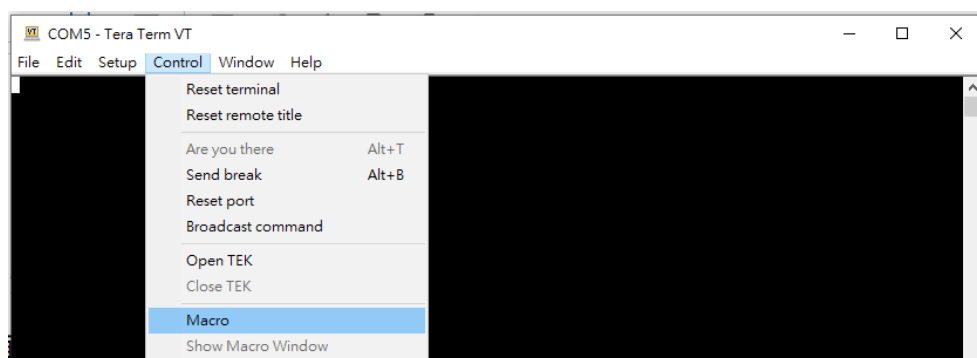
- I. 啟動後,藍色 LED 會閃爍,表示正在傳輸,
- II. 當 LED 熄滅,表示進入睡眠
- III. 將 Port 接地,LED 會閃爍,表示正在執行,執行完畢後,LED 將會熄滅並且進入睡眠等待

## 2. 測試流程

### I. 先啟動 Tera Term



### II. 打開 Macro

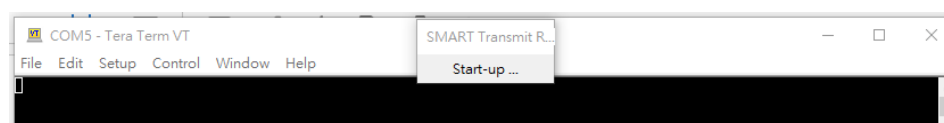


載入 CheckConsoleLog\_STR\_V51\_test.TTL



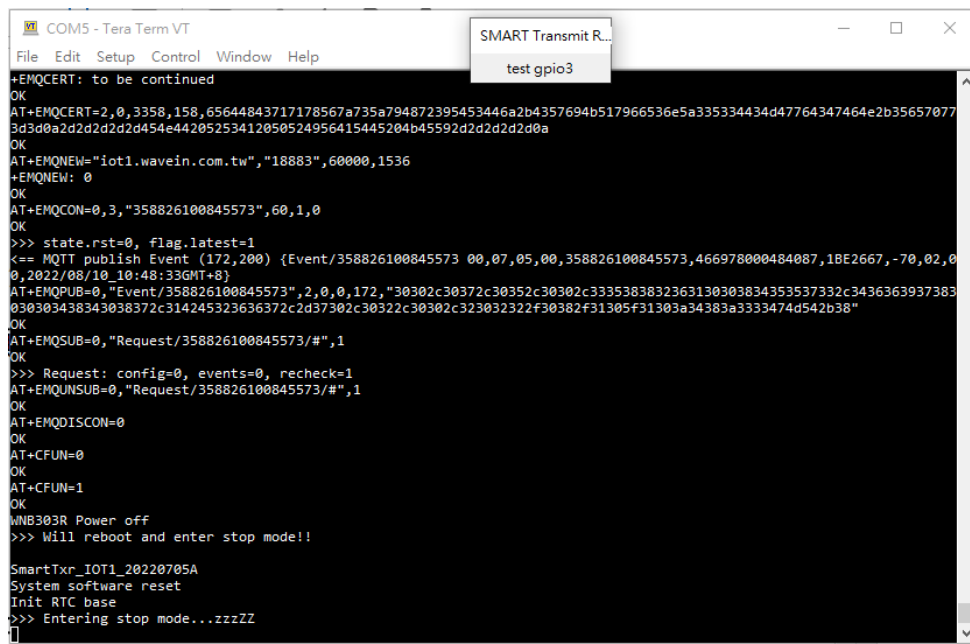
CheckConsoleLog\_STR\_V51\_test.TTL

會出現一個對話框



i. 當測試完成後會進入睡眠 並且顯示如下

## VI. 測試 Port2 到進入睡眠

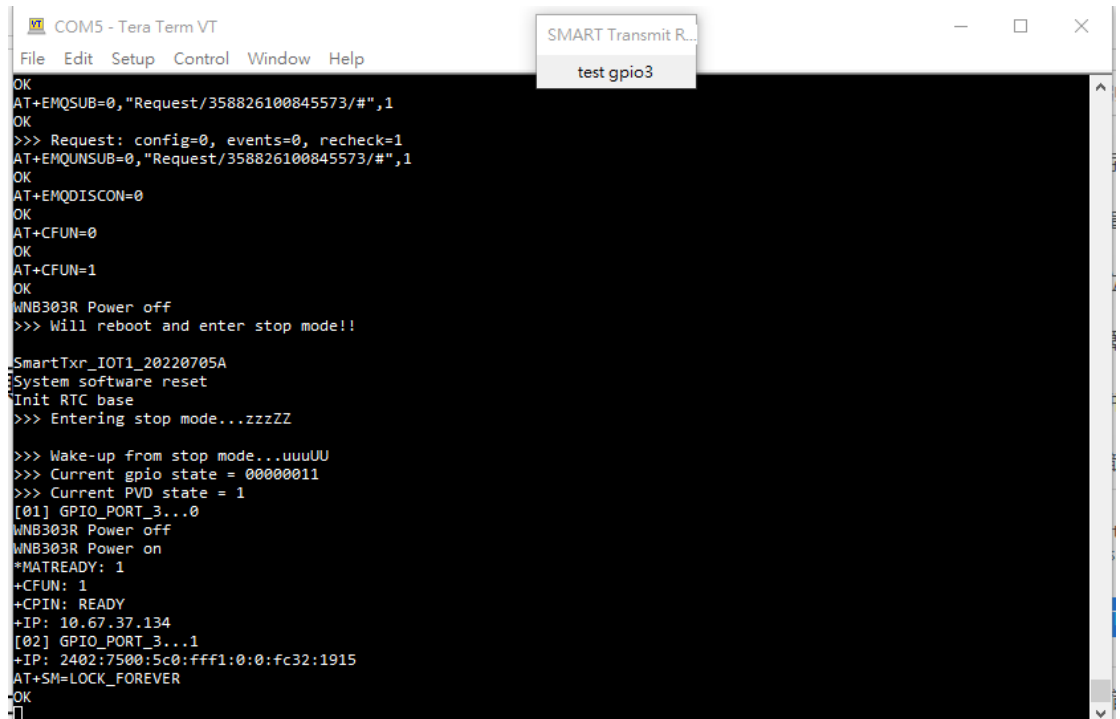


```
COM5 - Tera Term VT
File Edit Setup Control Window Help

+EMQCERT: to be continued
OK
AT+EMQCERT=2,0,3358,158,65644843717178567a735a794872395453446a2b4357694b517966536e5a335334434d47764347464e2b35657077
3d3d0a2d2d2d2d454e44205253412050524956415445204b45592d2d2d2d0a
OK
AT+EMQNEU="iot1.wavein.com.tw","18883",60000,1536
+EMQNEU: 0
OK
AT+EMQCON=0,3,"358826100845573",60,1,0
OK
>>> state.rst=0, flag.latest=1
<== MQTT publish Event (172,200) {Event/358826100845573 00,07,05,00,358826100845573,466978000484087,18E2667,-70,02,0
0,2022/08/10_10:48:33GMT+8}
AT+EMQSUB=0,"Event/358826100845573",2,0,0,172,"30302c30372c30352c30302c30333838323631303038343535373332c3436363937383
030303438343038372c314245323636372c2d37302c30322c30302c323032322f30382f31305f31303a34383a33333474d542b38"
OK
AT+EMQSUB=0,"Request/358826100845573/#",1
OK
>>> Request: config=0, events=0, recheck=1
AT+EMQUNSUB=0,"Request/358826100845573/#",1
OK
AT+EMQDISCON=0
OK
AT+CFUN=0
OK
AT+CFUN=1
OK
WNB303R Power off
>>> Will reboot and enter stop mode!!

SmartTxr_IOT1_20220705A
System software reset
Init RTC base
>>> Entering stop mode...zzzzZ
```

## VII. 測試 Port3



```
COM5 - Tera Term VT
File Edit Setup Control Window Help

OK
AT+EMQSUB=0,"Request/358826100845573/#",1
OK
>>> Request: config=0, events=0, recheck=1
AT+EMQUNSUB=0,"Request/358826100845573/#",1
OK
AT+EMQDISCON=0
OK
AT+CFUN=0
OK
AT+CFUN=1
OK
WNB303R Power off
>>> Will reboot and enter stop mode!!

SmartTxr_IOT1_20220705A
System software reset
Init RTC base
>>> Entering stop mode...zzzzZ

>>> Wake-up from stop mode...uuuuU
>>> Current gpio state = 0000011
>>> Current PVD state = 1
[01] GPIO_PORT_3...0
WNB303R Power off
WNB303R Power on
*MATREADY: 1
+CFUN: 1
+CPIN: READY
+IP: 10.67.37.134
[02] GPIO_PORT_3...1
+IP: 2402:7500:5c0:fff1:0:0:fc32:1915
AT+SM=LOCK_FOREVER
OK
```

```
COM5 - Tera Term VT
File Edit Setup Control Window Help
+EMQCERT: to be continued
OK
AT+EMQCERT=2,0,3358,158,65644843717178567a735a794872395453446a2b4357694b517966536e5a335334434d47764347464e2b35657077
3d3d0a2d2d2d2d2d454e44205253412050524956415445204b45592d2d2d2d0a
OK
AT+EMQNEW="iot1.wavein.com.tw","18883",60000,1536
+EMQNEW: 0
OK
AT+EMQCON=0,3,"358826100845573",60,1,0
OK
>>> state.rst=0, flag.latest=1
<== MQTT publish Event (172,200) {Event/358826100845573 00,07,03,00,358826100845573,466978000484087,18E2667,-70,01,0
0,2022/08/10_10:54:08GMT+8}
AT+EMQPUB=0,"Event/358826100845573",2,0,0,172,"30302c30372c30332c30302c3335383832363130303834353537332c3436363937383
030303438343038372c314245323636372c2d37302c30312c30302c323032322f30382f31305f31303a35343a3038474d542b38"
OK
AT+EMQSUB=0,"Request/358826100845573/#",1
OK
>>> Request: config=0, events=0, recheck=1
AT+EMQUNSUB=0,"Request/358826100845573/#",1
OK
AT+EMQDISCON=0
OK
AT+CFUN=0
OK
AT+CFUN=1
OK
WNB303R Power off
>>> Will reboot and enter stop mode!!

SmartTxr_IOT1_20220705A
System software reset
Init RTC base
>>> Entering stop mode...zzzzZ
```

VIII. 當 Port3 測試到睡著後會出現顯示“All strings were found!! [PASS]”的對話框  
這就代表順利結束  
否則會一直停在有問題的那個區塊

```
COM5 - Tera Term VT
File Edit Setup Control Window Help
+EMQCERT: to be continued
OK
AT+EMQCERT=2,0,3358,158,65644843717178567a735a794872395453446a2b4357694b517966536e5a335334434d47764347464e2b35657077
3d3d0a2d2d2d2d2d454e44205253412050524956415445204b45592d2d2d2d0a
OK
AT+EMQNEW="iot1.wavein.com.tw","18883",60000,1536
+EMQNEW: 0
OK
AT+EMQCON=0,3,"358826100845573",60,1,0
OK
>>> state.rst=0, flag.latest=1
<== MQTT publish Event (172,200) {Event/358826100845573 00,07,03,00,358826100845573,466978000484087,18E2667,-70,01,0
0,2022/08/10_10:54:08GMT+8}
AT+EMQPUB=0,"Event/358826100845573",2,0,0,172,"30302c30372c30332c30302c3335383832363130303834353537332c3436363937383
030303438343038372c314245323636372c2d37302c30312c30302c323032322f30382f31305f31303a35343a3038474d542b38"
OK
AT+EMQSUB=0,"Request/358826100845573/#",1
OK
>>> Request: config=0, events=0, recheck=1
AT+EMQUNSUB=0,"Request/358826100845573/#",1
OK
AT+EMQDISCON=0
OK
AT+CFUN=0
OK
AT+CFUN=1
OK
WNB303R Power off
>>> Will reboot and enter stop mode!!

SmartTxr_IOT1_20220705A
System software reset
Init RTC base
>>> Entering stop mode...zzzzZ
```