VertexCom Wi-SUN VC7300 AT Command Guide AT Command Guide

<u>Reported</u>

FAE Dept.

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<u>Update</u>

Feb. 1st 2021



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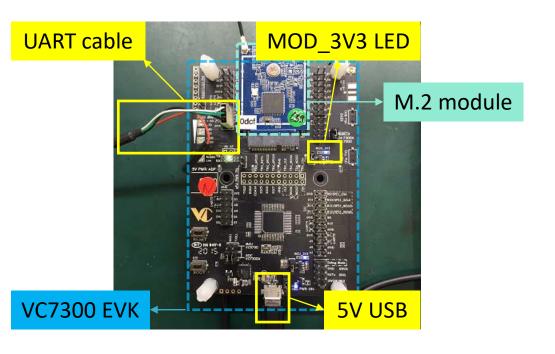
• 附錄 P10

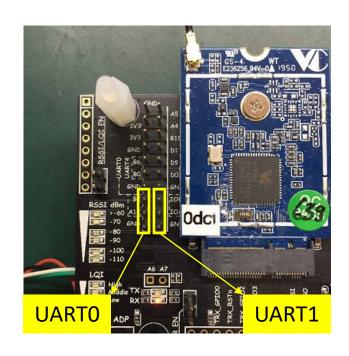


🝊 VC7300 EVK APP UART 設定



- 將VC7300 EVK接上5V USB電源, MOD_3V3 LED亮起,表
 示M.2 module已供給3.3V。
- 2. 將UART cable (USB to UART/TTL)分別接上VC7300 EVK的 UART1和PC。







VC7300 EVK APP UART 設定

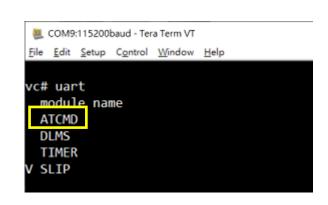


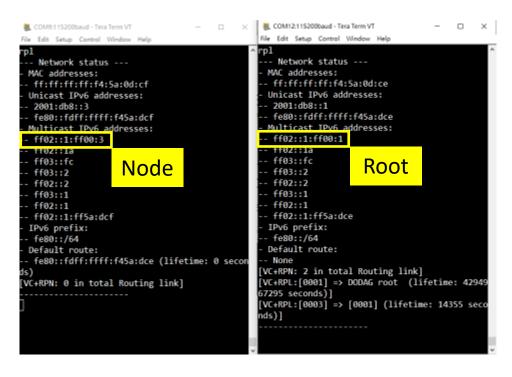
- 3. 執行Tera Term,輸入uart,確認APP UART選項是否有支援AT Command。
- 4. 若無支援AT Command,請先在SDK中compile一版Enable AT Command的image,再將image燒錄到VC7300 EVK。 (詳情請參閱Vertexcom Wi-SUN SDK Installation Guide)

VC7300 EVK APP UART 設定



- 5. 更新完image後,執行Tera Term,輸入uart,APP UART會多一個ATCMD的選項,表示此image支援AT Command。
- 6. 確認VC7300 EVK Root端和Node端已自動組網成功,在Tera Term輸入rpl,確認IPV6位址。



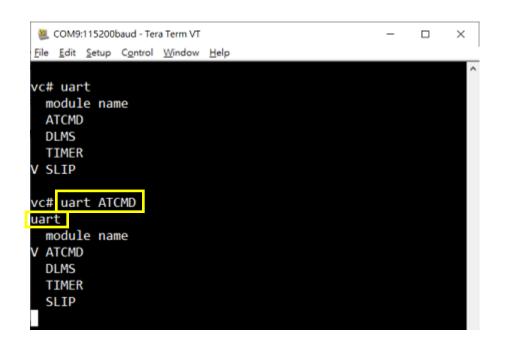


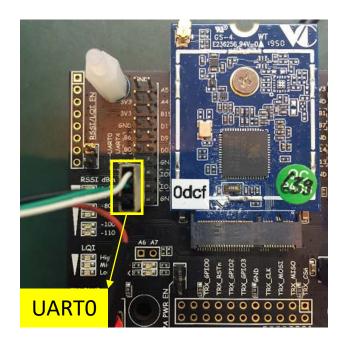


🝊 VC7300 EVK APP UART 設定



- 7. 輸入uart ATCMD,將模式切換為AT Command mode,再 輸入uart,確認ATCMD已被勾選,表示成功切換。
- 8. 將VC7300 EVK端的UART cable由UART1移除,改成接到 UARTO (APP UART) °





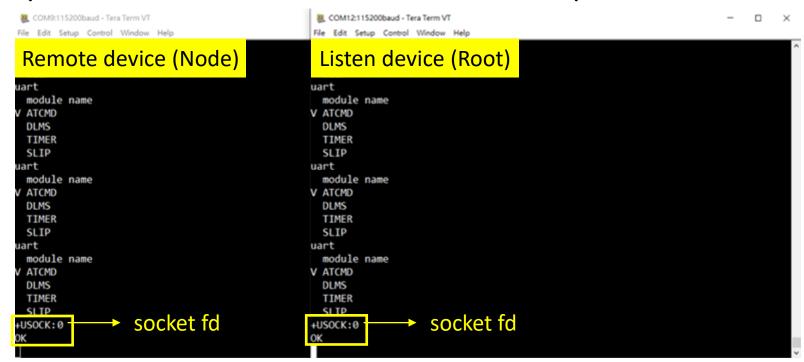


AT Command傳送字串範例



- 1. 將Root定義為Listen device, Node定義為Remote device。
- 2. 在Listen和Remote端輸入AT+USOCK=REG指令,並得到個別的socket fd值。

(在ATCMD mode中,看不見輸入的指令)

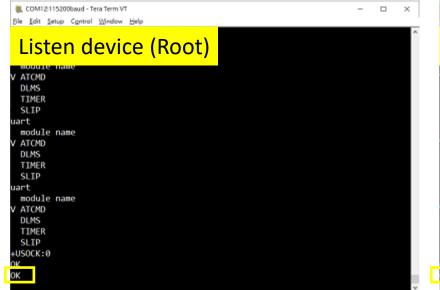




AT Command傳送字串範例



- 3. 在Listen端輸入AT+USOCK=BIND,0,5678,定義Listen端的 listen port為5678,成功則回傳OK。
- 4. 在Remote端輸入AT+USOCK=CONNECT,0,5678,2001:db8::
 - 1,定義Listen端的listen port為5678,以及listen device的 IPV6 address,成功則回傳OK。



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Remote device (Node)

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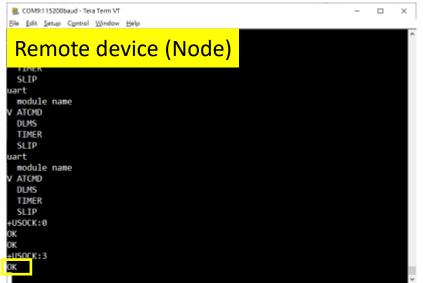
V ATCMD
DLMS
TIMER
SLIP
Uart
module name
V ATCMD
DLMS
TIMER
SLIP
UART
MODULES
TIMER
SLIP
+USOCK:1
OK
OK
```



AT Command傳送字串範例



- 在Remote端輸入AT+USOCK=SEND,0,,,4,ABCD,傳一個長度為4的"BASE64格式的內文"給step4建立的Listen端,成功則回傳OK。(長度可為4,8,12)
- 6. Listen device可得到+USOCK:RECV,0,1028,2001:0db8::00 03,4,ABCD。



```
Listen device (Root)

Union

Listen device (Root)

Union

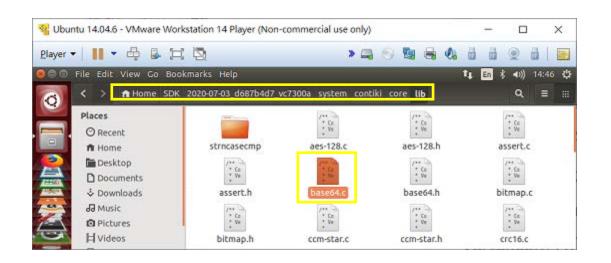
Union
```





- ◆ 關於BASE64的編碼格式請參考 system/contiki/core/lib/base64.c¹
- ◆ 完整版AT Command請參考

 Vertexcom AT Command_20200916_V02.pdf²





Thank You!

