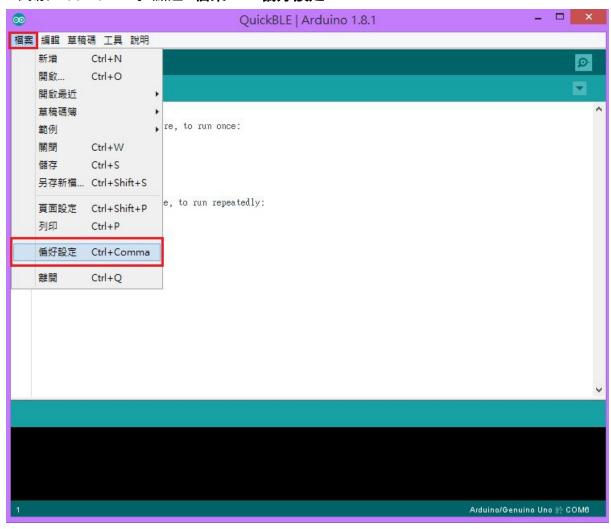
使用Arduino IDE 開發QuickBLE

- 一、Arduino IDE對於QuickBLE的基本設置
- 1. 於下方網址下載並安裝 Arduino IDE(版本至少要 V1.6.12) https://www.arduino.cc/en/Main/Software
- 2. 開啟Arduino IDE。點選 "檔案" -> "偏好設定"

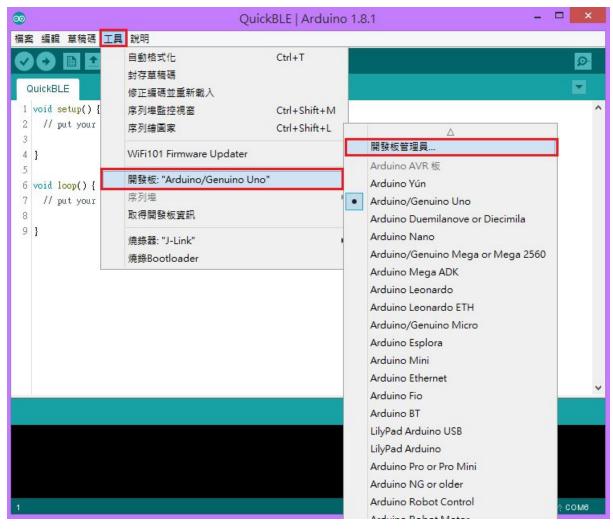


將下方網址複製於 "**額外的開發版管理員網址**"

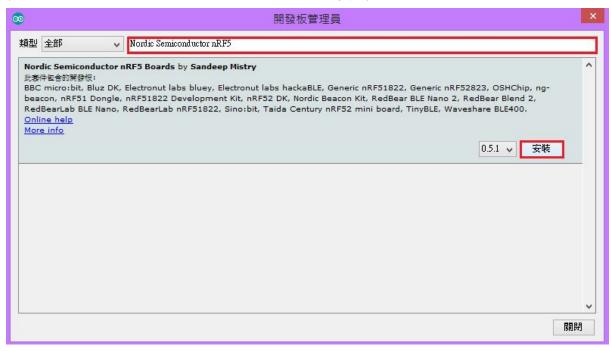
https://sandeepmistry.github.io/arduino-nRF5/package_nRF5_boards_index.json

偏好設定				×
設定 網路				
草稿碼簿的位置	:			
C:\Users\user-nb\I	Documents\Arduino			瀏覽
編輯器語言: 編輯器字型大小 介面縮放率: 顯示詳細輸出: 編譯器警告: ☑ 顯示行數	☑ 自動 100 💠 % (需要重 ☑ 編譯 ☑ 上傳	▼ 新啟動 Arduino)	(需要重新殷動 Ardvino)	
✓ 上傳後驗證─ 使用外部編輯✓ 啟動時檢查	呈式碼 谩器 自無更新 草稿碼檔案的副檔名(.pde -> .ino)			
額外的開發板管	理員網址: https://sandeepmistry.git	hub.io/arduino-nRF5/p	ackage_nRF5_boards_index.json	
在偏好設定檔裡還有更多設定值可直接編輯 C:Wærshuær-nb/AppData/Local/Arduino15/preferences.txt (只能在Arduino未執行之時進行編輯)				
				確定 取消

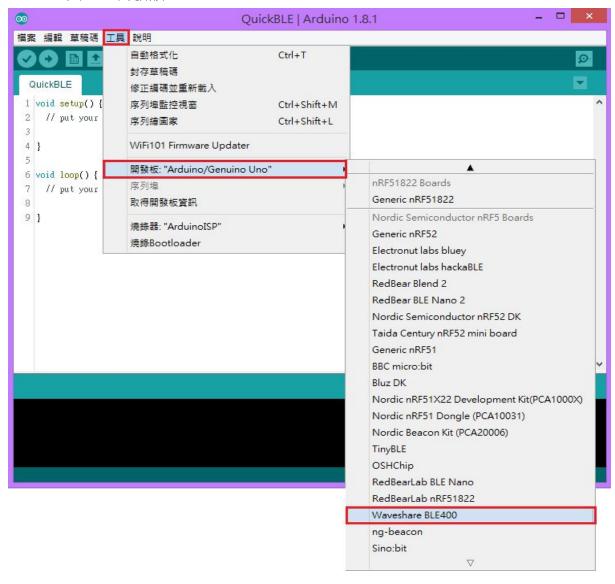
3.點選 "工具" -> "開發板" -> 選擇 "開發板管理員"



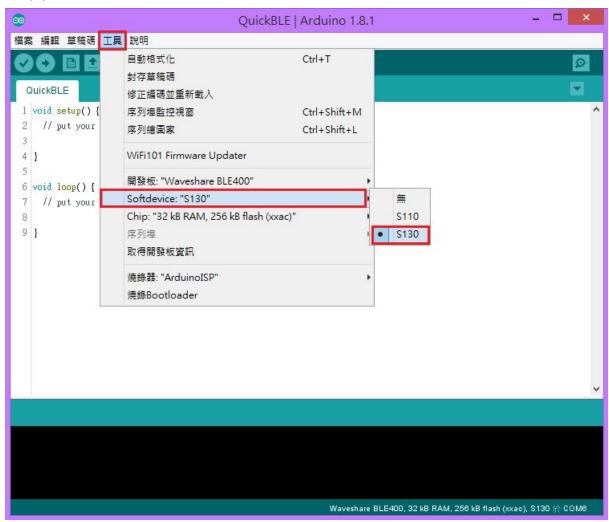
搜尋 Nordic Semiconductor nRF5 Boards 並安裝



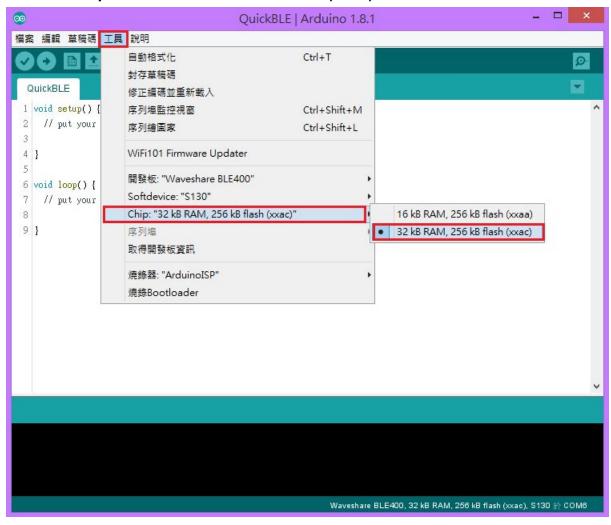
4. 於 "工具" -> "開發版"選擇 "Waveshare BLE400"



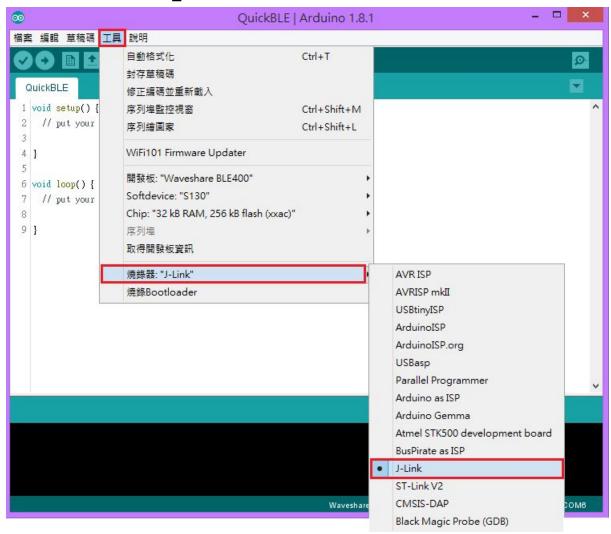
"工具" ->"Soft device" 選擇 "S130"



"工具" ->"Chip"選擇 "32kB RAM 256kB flash(xxac)"

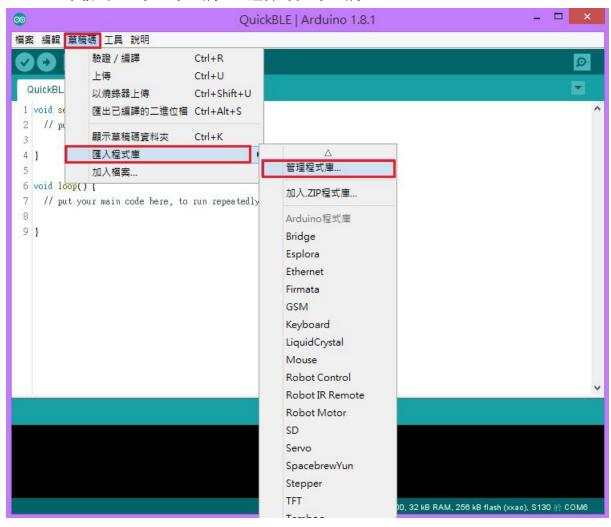


"工具" ->"**燒錄器**"選擇"J_Link"

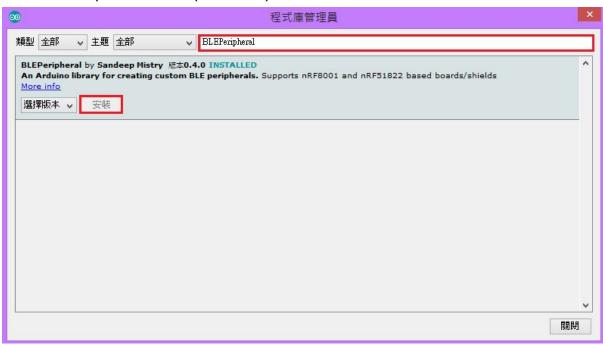


5. 下載 Arduino BLE 函式庫。

點選"草稿碼" ->"匯入程式庫" ->選擇"管理程式庫"



搜尋 BLEPeripheral 並安裝(版本0.4.0)

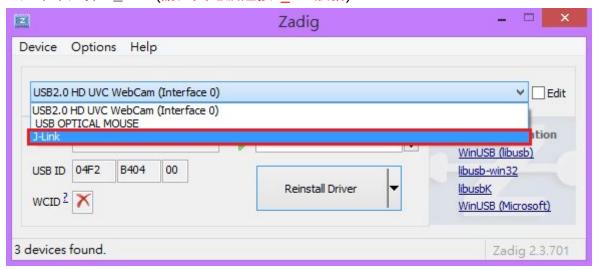


二、安裝J_Link驅動程式

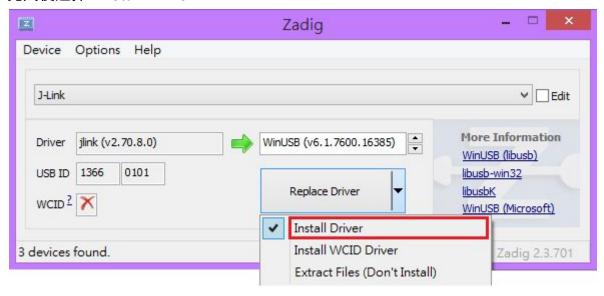
- 1.於下方網址下載並安裝 Zadig http://zadig.akeo.ie/downloads/zadig-2.3.exe
- 2.開啟 Zadig。點擊 "Options" ->選擇 "List All Devices"



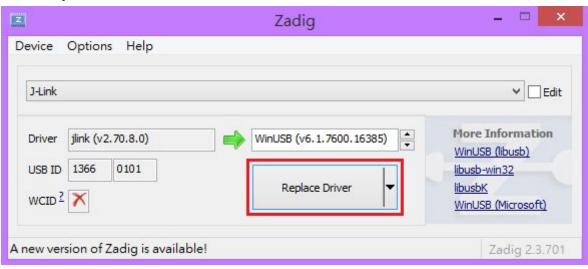
於選單中選擇 J_Link(請先與電腦連接J_link設備)



完成後選擇 "Install Driver"

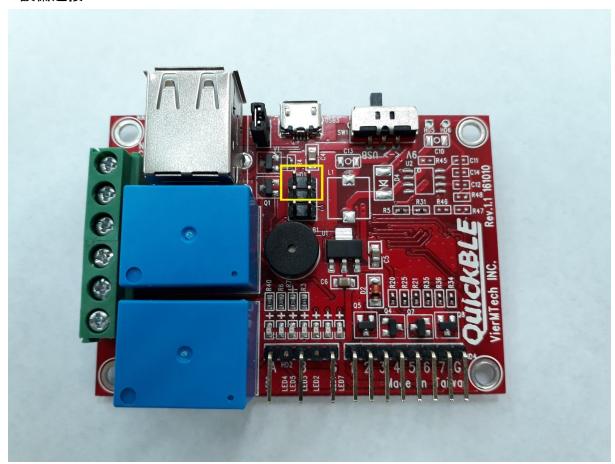


點選 "Replace Driver" 進行安裝



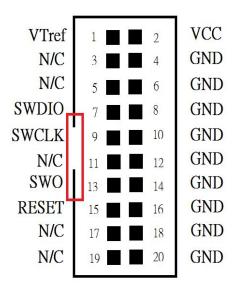
三、Arduino IDE 燒錄

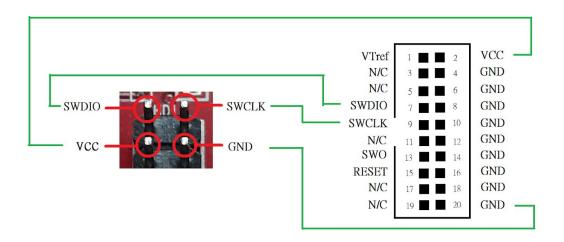
1.設備連接



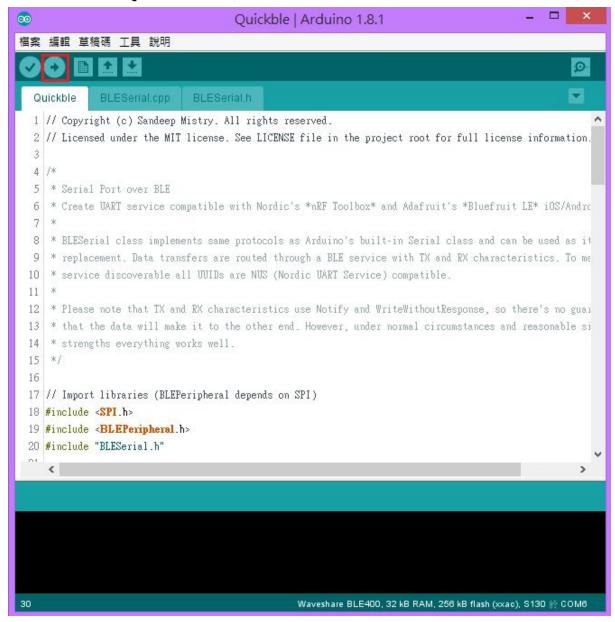








2.開啟範例程式 "Quickble.ino", 點擊箭頭進行燒錄



四、安裝手機app

下載及安裝 nRF Toolbox app





nRF Toolbox for BLENordic Semiconductor ASA

3+

解除安裝

開啟



下載次數



158 -



工具



類似內容

探索與NRF工具箱您的藍牙低功耗設備。

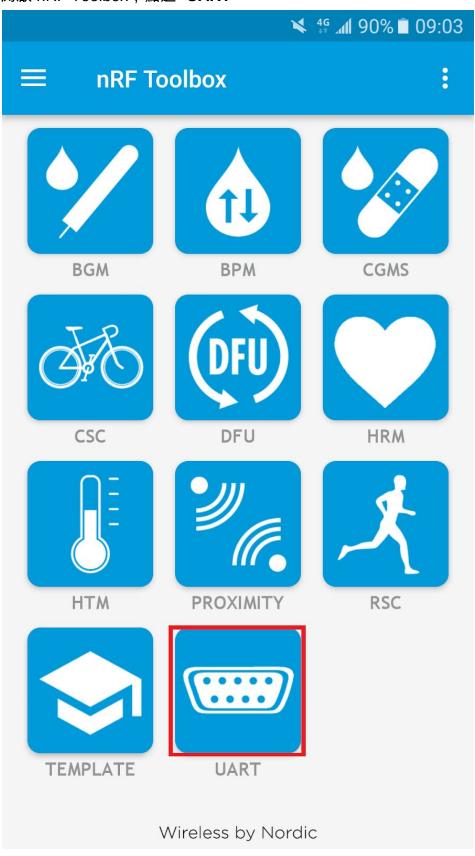


新功能

5.01.2018 - version 2.6.0

- BLE Library as a separate module (see GitHub)
- Exporting UART configurations fixed for

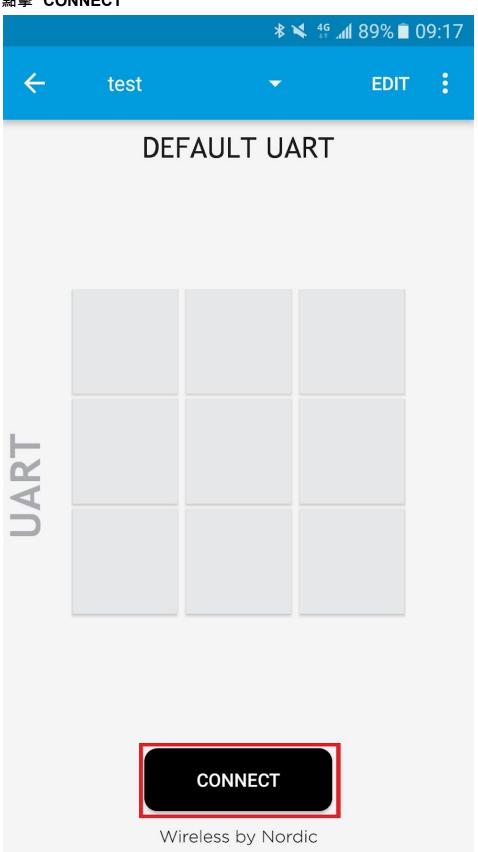
開啟 nRF Toolbox,點選 "**UART**"

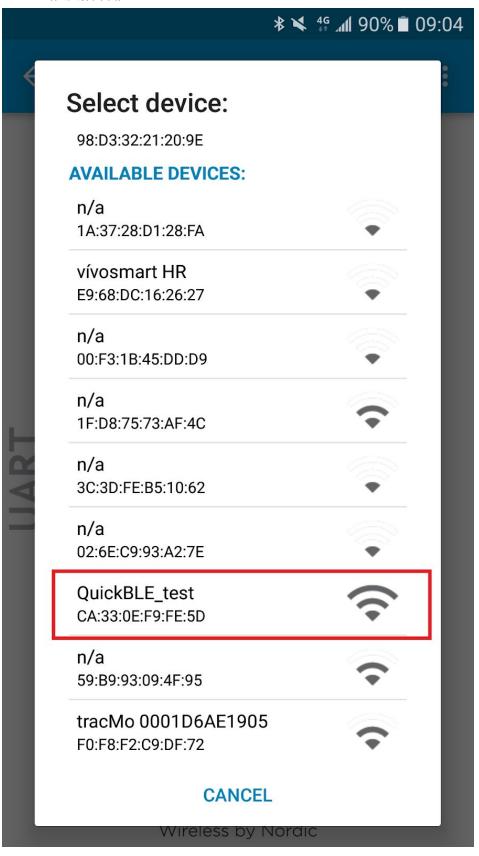


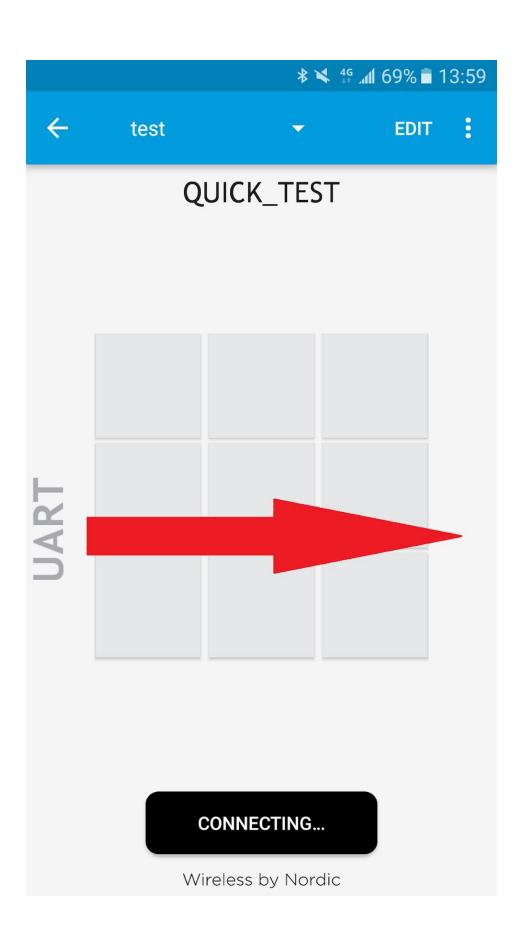
開啟藍芽



點擊 "CONNECT"



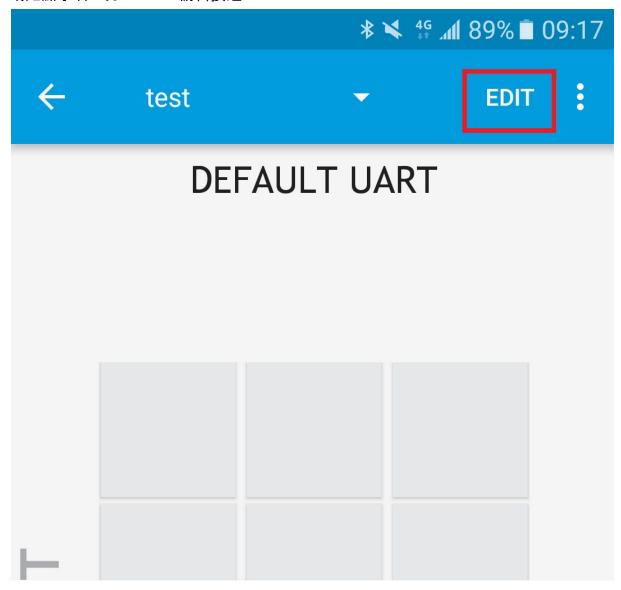




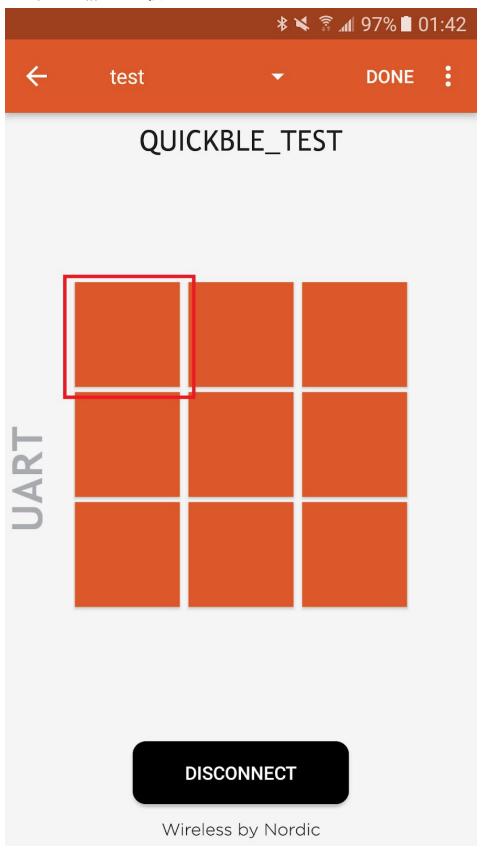
可於下方 "**Write command**" 輸入指令,並點擊 "**SEND**" 傳送指令,來控制QuickBLE的設備。

Write command	SEND	
---------------	------	--

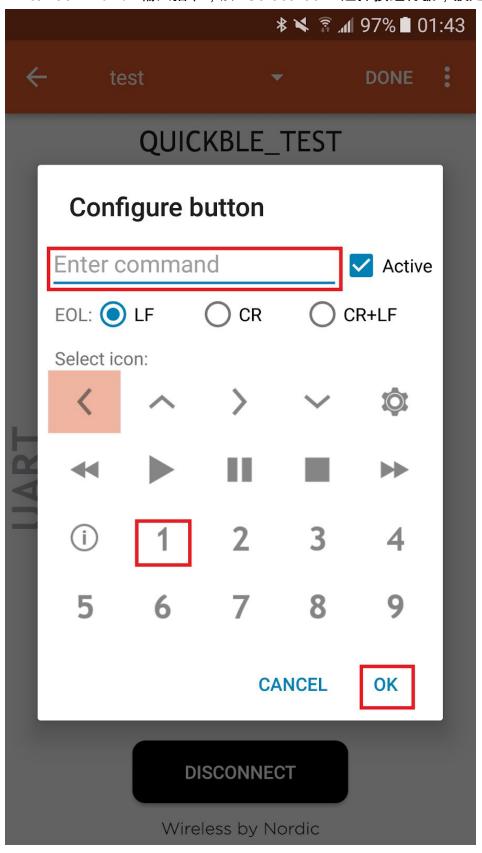
或是點擊右上方 "EDIT" 編輯按鈕



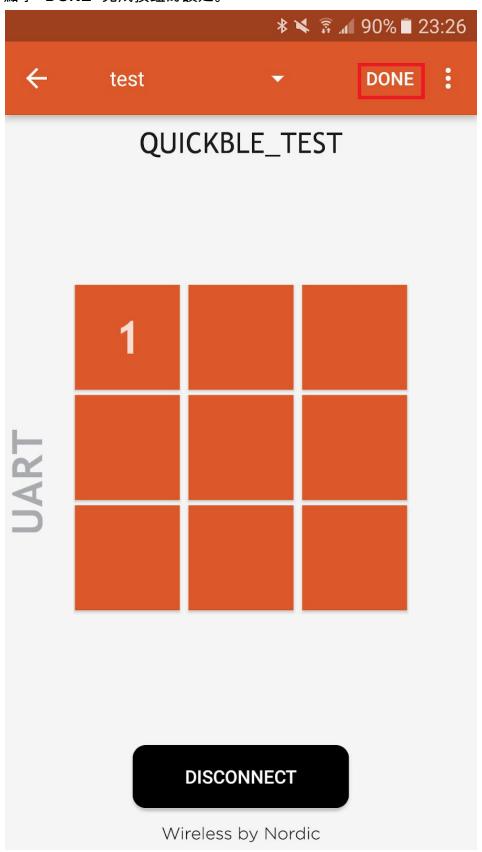
點擊任意方格來建立按鈕



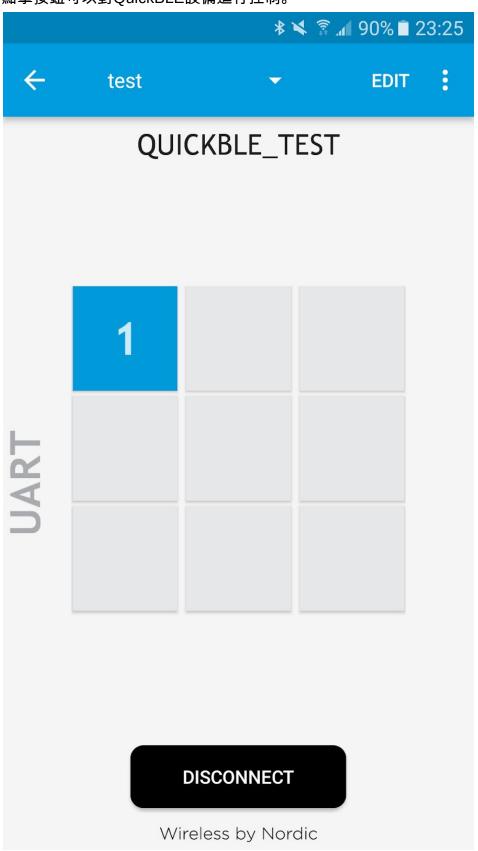
"Enter command" 輸入指令,於 "Select icon" 選擇按鈕符號,設定完成點擊"OK"。



點擊 "DONE" 完成按鈕的設定。



點擊按鈕可以對QuickBLE設備進行控制。



五、指令

指令	動作	
buzzerON	開啟蜂鳴器	
buzzerOFF	關閉蜂鳴器	
usb1ON	開啟 USB1	
usb1OFF	關閉 USB1	
usb2ON	開啟 USB2	
usb2OFF	關閉 USB2	
relay10N	開啟 Relay1	
relay10FF	關閉 Relay1	
relay2ON	開啟 Relay2	
relay2OFF	關閉 Relay2	
DO1HIGH	腳位6 輸出5V	
DO1LOW	腳位6 輸出0V	
DO2HIGH	腳位7 輸出5V	
DO2LOW	腳位7 輸出0V	
Pin1State	腳位1 狀態為 5V,回應 "PIN1 is HIGH" 腳位1 狀態為 0V,回應 "PIN1 is LOW"	
Pin2State	腳位2 狀態為 5V,回應 "PIN2 is HIGH" 腳位2 狀態為 0V,回應 "PIN2 is LOW"	
Pin3State	腳位3 狀態為 5V,回應 "PIN3 is HIGH" 腳位3 狀態為 0V,回應 "PIN3 is LOW"	