

# SP25: Instruction V2

Release: 2015-8-1

Update: 2015-9-16

History:

2015-9-16: Delete the CALIBRATION\_SERVICE

## **ON-OFF**

Power-ON: Press the button once

Power-OFF: Press and hold the button until the torch on and then off

(SP25 don't support auto power off yet . It must be off manually in order not to run out the battery)

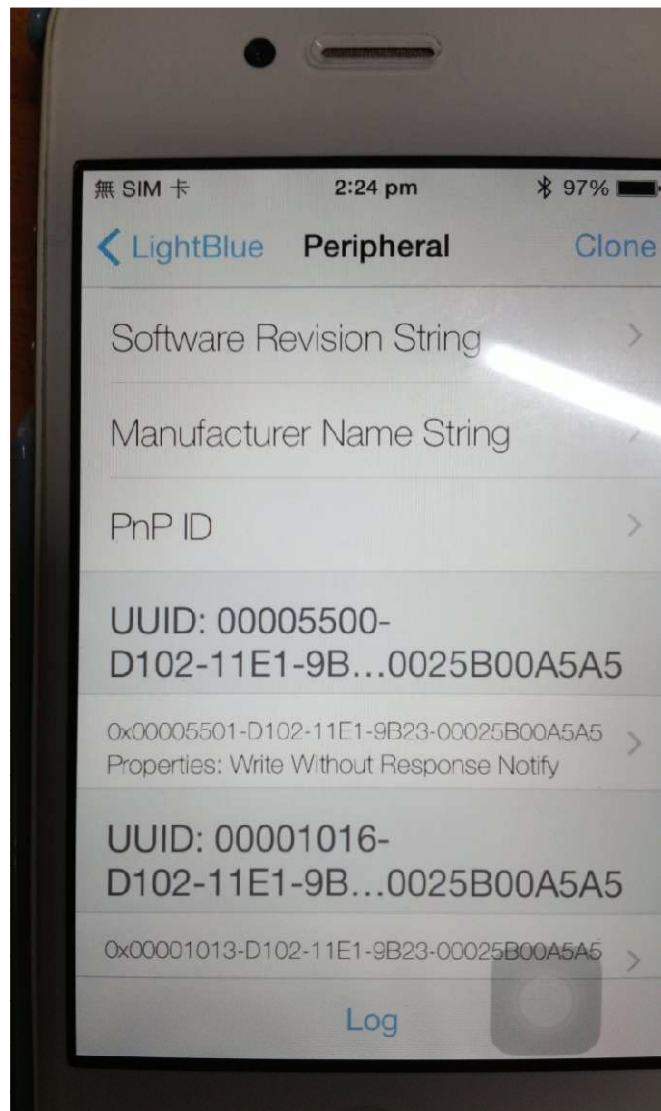
## **Discharge**

- 1 Switch on the sp25
- 2 Press the button once to start discharging

## **Charge**

- 1 Full charge: Connect to USB adaptor until all LED is bright

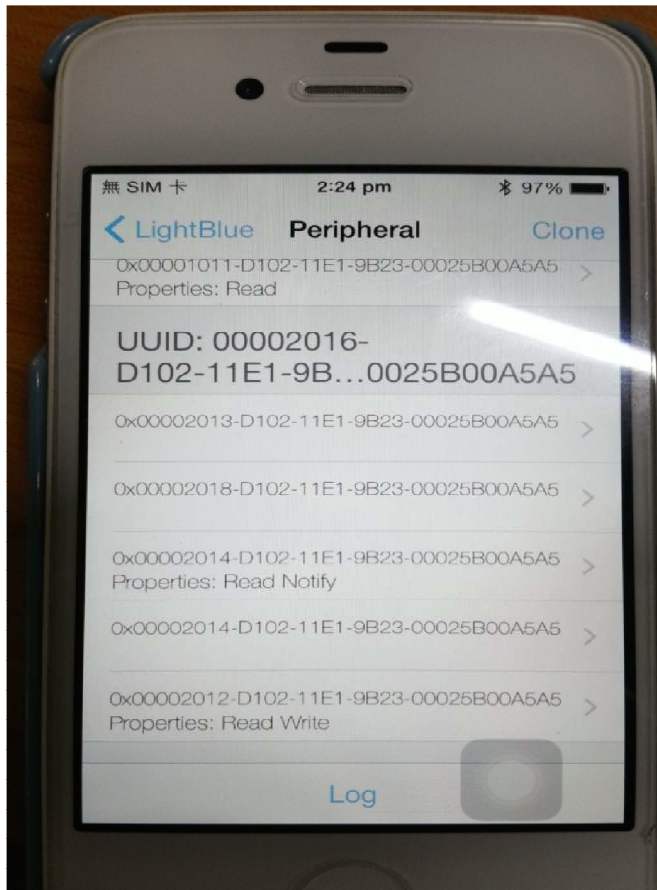
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### SERIAL SERVICE

UUID\_SERIAL\_SERVICE 0x00005500D10211E19B2300025B00A5A5

UUID\_SERIAL\_DATA\_TRANSFER 0x00005501D10211E19B2300025B00A5A5



### **BATTERY CONTROL SERVICE**

BATTERY\_CONTROL\_SERVICE\_UUID 0x00002016d10211e19b2300025b00a5a5

BATTERY\_CONTROL\_DISCHG\_USB1\_UUID 0x00002013d10211e19b2300025b00a5a5

Length: 8 bytes Data format: string Byte[0 – 3]: voltage Byte[4 – 7]: Current

Example: USB voltage is 5.120V and the current from USB is 1.980A

The string is "51201980"

BATTERY\_CONTROL\_DISCHG\_USB2\_UUID 0x00002018d10211e19b2300025b00a5a5

Length: 8 bytes Data format: string Byte[0 – 3]: voltage Byte[4 – 7]: Current

BATTERY\_CONTROL\_BAT\_CHG\_UUID 0x00002014d10211e19b2300025b00a5a5

Length: 8 bytes Data format: string Byte[0 – 3]: voltage Byte[4 – 7]: Current

BATTERY\_CONTROL\_QUALITY\_UUID 0x00002011d10211e19b2300025b00a5a5

Length: 2 bytes Data format: uint16 Low byte first

(This value will be updated after the charging cycle)

FIND\_ME\_UUID 0x00002012d10211e19b2300025b00a5a5

Length: 2 bytes Data format: uint16 write: 0x0000 (Stop this function) , 0x00xx (wake up in xx hour)

(This characteristic could be read and write., The firmware only provide this Characteristic, it don't handle this characteristic yet)

Usage: Step 1: write 0x00 xx hr (up to 20 hrs)

Step 2: then press and hold the button to off SP25.

Step 3: SP25 will wake up itself in xx hour.

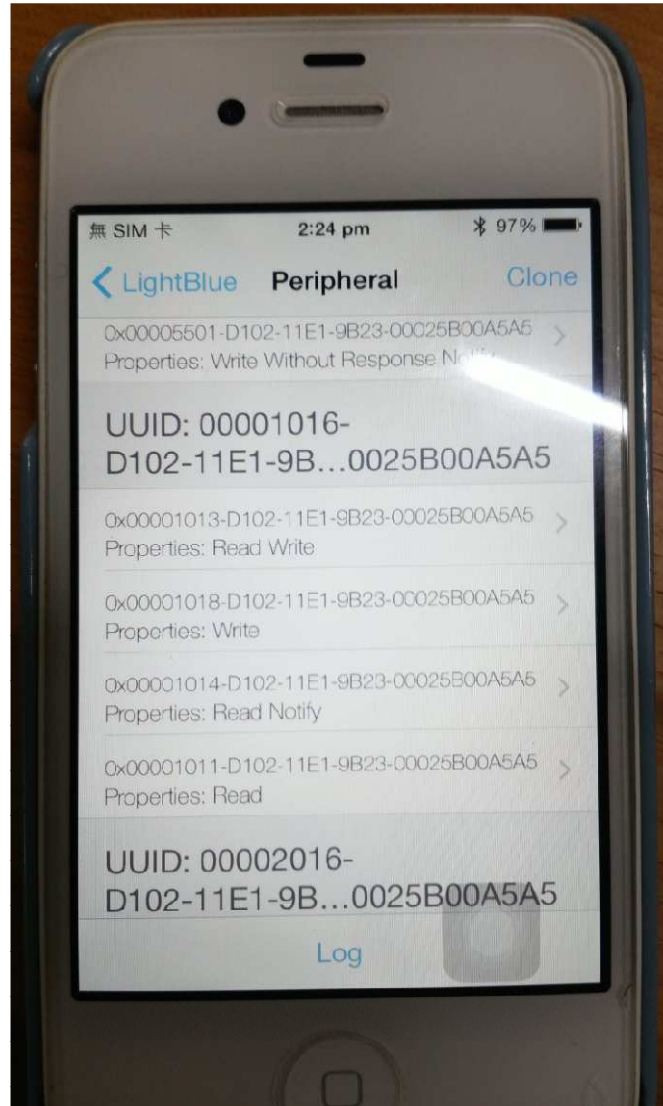
Step 4: SP25 will reset the value to 0x0000.

## BATTERY SERVICE

UUID\_BATTERY\_SERVICE 0x180f

UUID\_BATTERY\_LEVEL 0x2a19

## OTA UPDATE SERVICE



CSR\_OTA\_UPDATE\_SERVICE\_UUID 0x00001016d10211e19b2300025b00a5a5

CSR\_OTA\_CURRENT\_APP\_UUID 0x00001013d10211e19b2300025b00a5a5

CSR\_OTA\_READ\_CS\_BLOCK\_UUID 0x00001018d10211e19b2300025b00a5a5

CSR\_OTA\_DATA\_TRANSFER\_UUID 0x00001014d10211e19b2300025b00a5a5

CSR\_OTA\_VERSION\_UUID 0x00001011d10211e19b2300025b00a5a5

## **CALIBRATION\_SERVICE**

~~CALIBRATION\_SERVICE\_UUID 0x00012016d10211e19b2300025b00a6a6~~

~~CALIBRATION\_BATTERY\_VOLTAGE\_UUID 0x00012013d10211e19b2300025b00a6a7~~

~~Length:2 bytes read write Data format: uint16~~

~~CALIBRATION\_AIO\_UUID 0x00012018d10211e19b2300025b00a6a8~~

~~Length:2 bytes read write Data format: uint16~~

~~How to use:—~~

- ~~1. Read these two values before OTA process~~
- ~~2. Subsequently run the OTA process~~
- ~~3. Write back these two values after OTA process~~

~~AUTO\_CALIBRATION\_UUID 0x00012013d10211e19b2300025b00a6a9~~

~~Length:2 bytes write Data format: uint16~~

~~How to use:—~~

- ~~1. Write a value 4200 to start the calibration process automatically~~
- ~~2. The result could be read from CALIBRATION\_BATTERY\_VOLTAGE\_UUID and CALIBRATION\_AIO\_UUID, respectively.~~