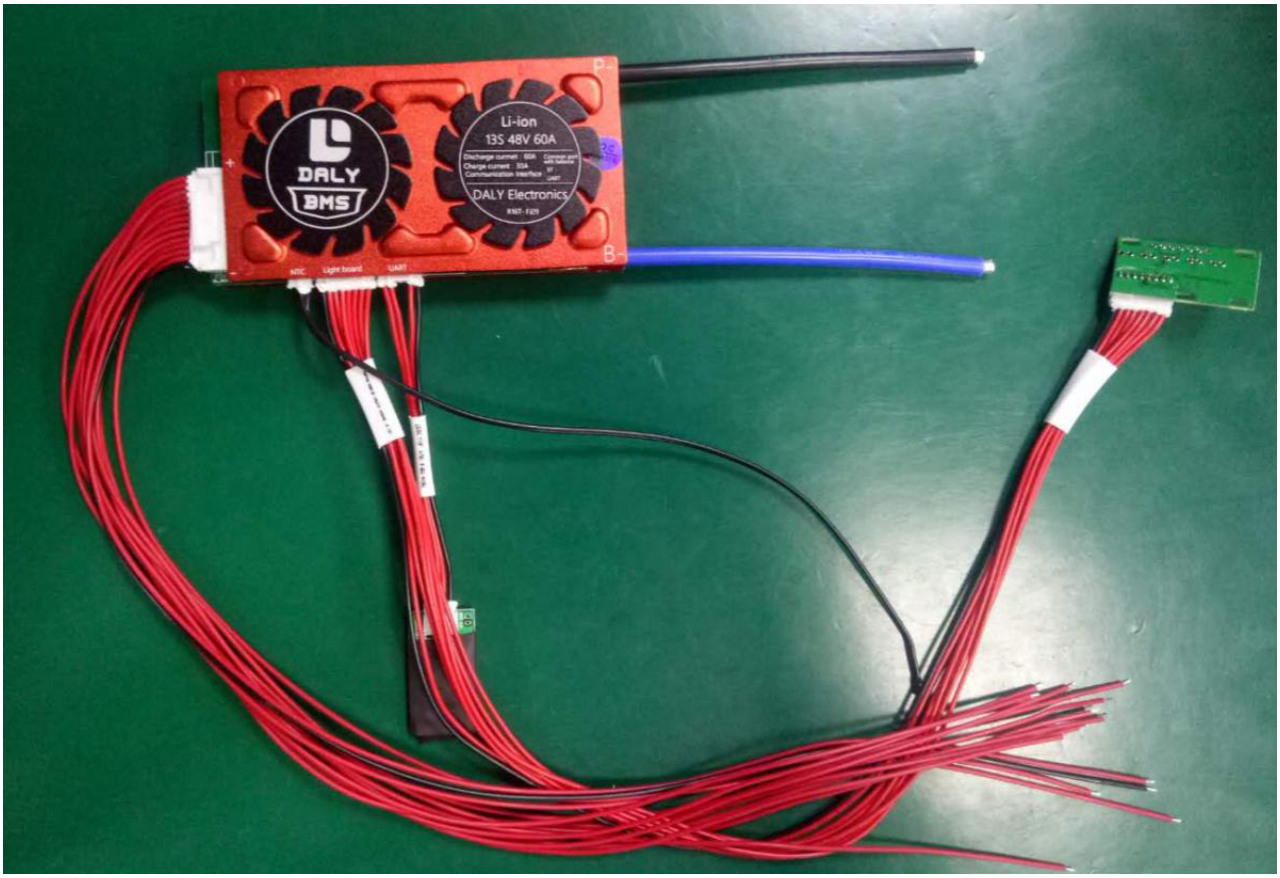
# How to operate Smart BMS?

**Step1:** Testing cells voltage(Pls reference “How to test cells voltage before wiring”)

**Step2:** Connect BMS with batteries(Pls reference “How to connect BMS with batteries”)

**Step3:** Insert all wires into BMS,pls reference below picture.




Pls find out the relative wires according to below instruction.

**Example:**

10S: 10 red wires（positive wires)+1 black wire(negative wire)

NTC: 2 black wires fuse into 1 temperature sensor

Light board: 8 red wires

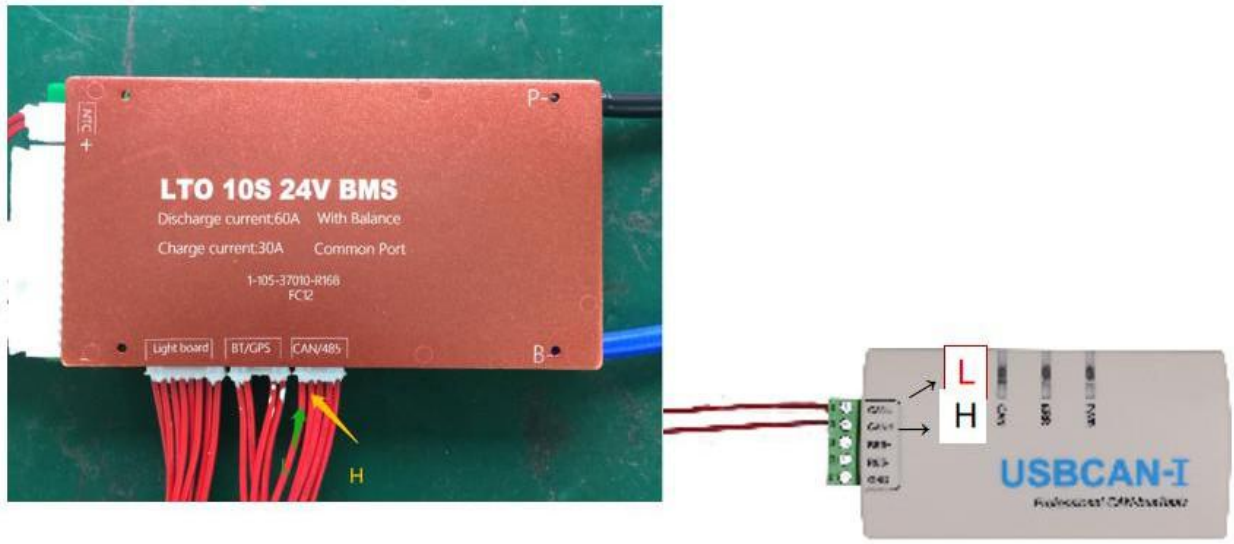
UART interface: 6P, but 4 wires
Bluetooth,UART, GPS, LCD all are use the same port.(UART interface) If you need all of them communications, you only can use it one by one.

Old Version **CAN/485**: 5pin,but 4 red wires. Are the same port

The Left 2 wires for CAN, the right 2 wires for RS485.(The middle one no use)

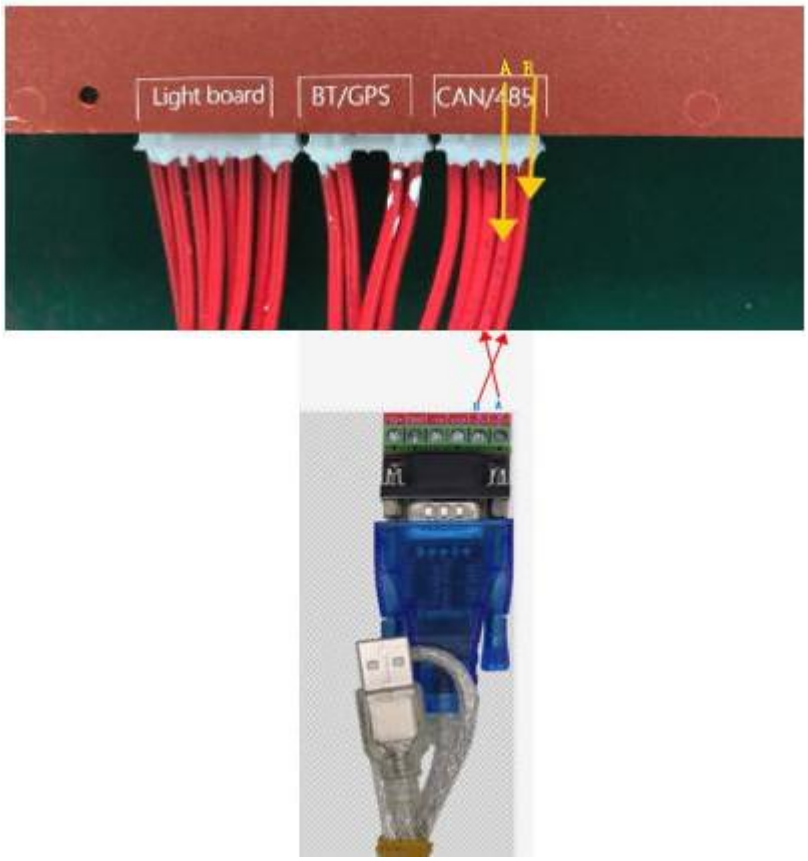
The left1--CAN “L”

The left2--CAN”H”



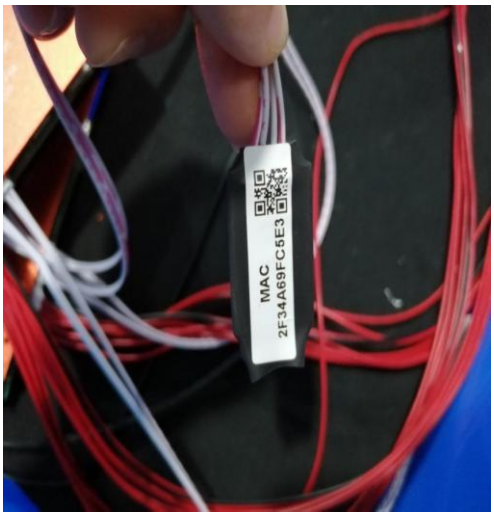

The right1--485”A”

The right2--485”B”




Pls check below pictures for communication tools:

**Old version:**

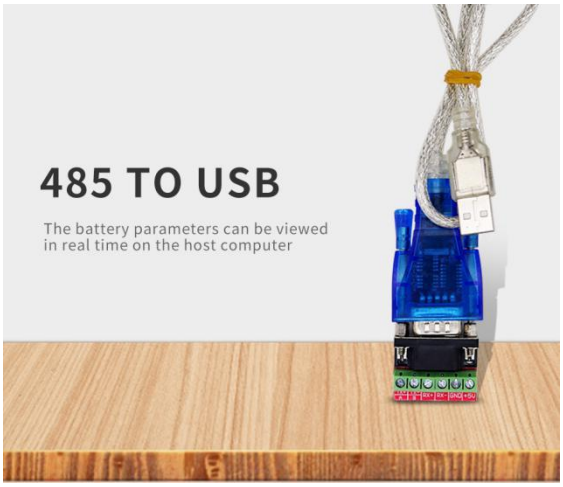



Bluetooth Module

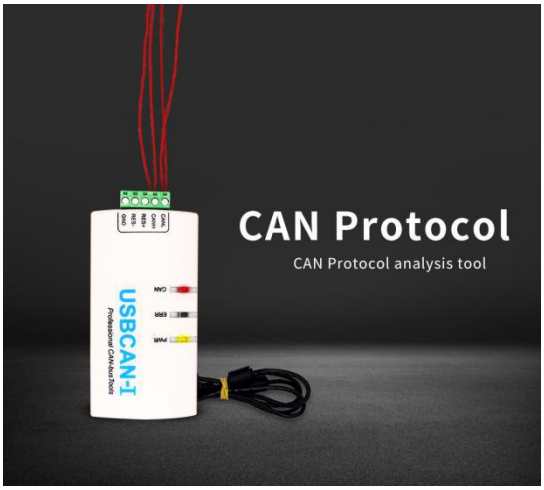
UART  convertor

GPS Module


3 inch colorful LCD screen




RS485 Convertor

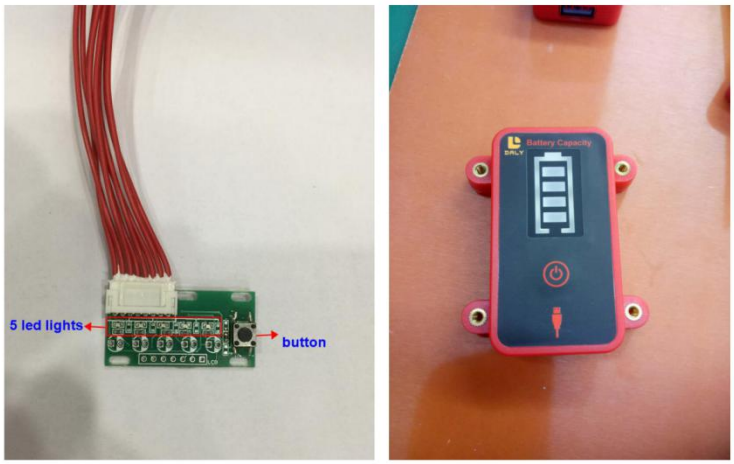



CANbus

**New Version:**


**Step4:** Press button of SOC light board to activate BMS.(If you didn't buy light board, you can charge battery full 100% to activate BMS)

**Old Version:** **New Version(Aug,3rd,2020):**



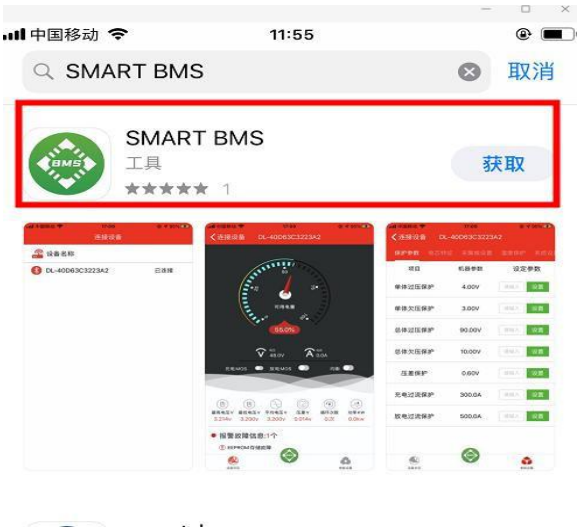
**Step5: Connected Bluetooth/GPS/ UART/RS485/CAN or LCD**

**A. Bluetooth:**

You only need search key words: **SMART BMS** in your application.

**Android version**: Pls go to AndroidAPP store or Google play

**iOs version**: Pls go to App Store




**B. GPS:**

**Android Version(The details pls reference video)**:

1. Pls install the software which I sent on your phone .
2. Register user.

A. You can press the device number which on GPS module by hand

B. You also can scan bar code directly

3. Click " Next" then you can see the position and data.

**iOs Version(The details pls reference video)**:

1. Pls go to APP Store to search: yunzhixing
2. Select: 云知行
3. Download it and open it
4. Register user

A. You can press the device number which on GPS module by hand

B. You also can scan bar code directly

5. Click " Next" then you can see the position and data.

**C. How to connect UART/RS485/CAN communication:**

You should operate on your computer.

- Double click "DalyBmsMonitor"- DalyBmsMonitor
- Double click"PCMaster"- PCMaster

- Select the Language you need.(CN or Eng.)- 

- Set parameters- 

- Serial Port:

- **UART/RS485**: It will be automatic identification,no need to select port options
- BaudRate:9600
- Then click“Open port”


- **CAN : Click here to transfer to CAN**


- **CAN device:Pls select which you have in hand.**

CAN channel: Pls check carefully the description for CANbus, then to select correct one.

BaudRate: Select the correct options which you use(250k or 500k).


Then click “Open CAN”,you can see it be success in green color,below color it means connected faild:


**D. LCD display**: You only need to insert into BMS’s “UART interface” is ok.

**Notes**:

1. About all parameters we have set for you before shipping.

2. SOC value:

If you told us your capacity of battery pack when you placed order, we will set correct value for you. If didn’t,we will set it as 50% for Original factory Settings. But it wasn't accurate value. You should contact us to teach you how to change it.