

## Content

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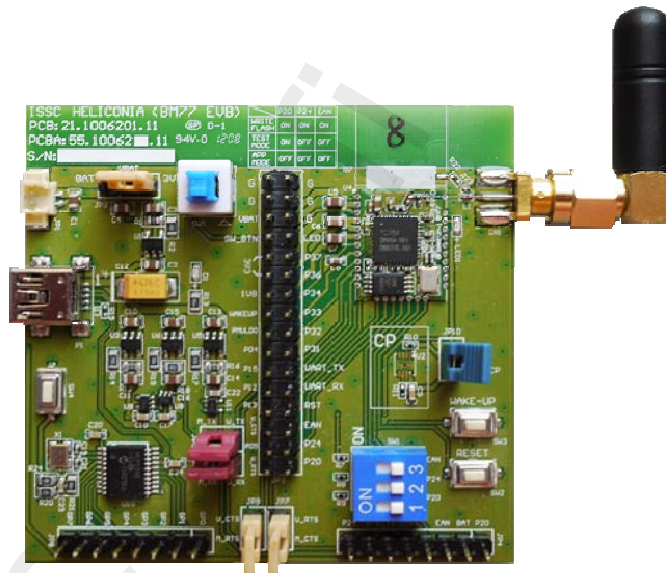
## 1. Overview

This EVB is for Bluetooth 4.0 dual solutions development and verification. It's made of ISSC BM77 SPP module. The main power supply of this EVB is USB 5V or Li-Ion BAT. The main power source gets into BM77 module, and the power management unit of this module will generate 3V3 and 1V8 out to provide the power of the IC. The mini USB connector only provides the 5V power from PC, it doesn't provide the charger function to charge battery.

There are two push buttons of this EVB- the "Reset" and "Wake-Up". When the module is in idle mode for a long time, it will get into sleep mode automatically for saving power. Press the Wake Up button when you want to leave the sleep mode.

### 1.1. Outlook

#### 1. BM77 EVB with BM77SPP Module

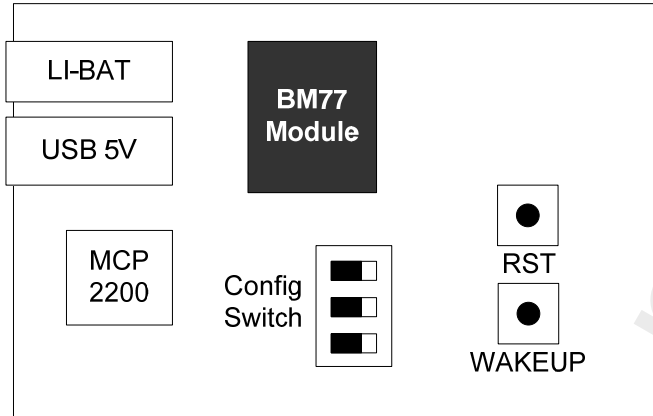


### 1.2. Features

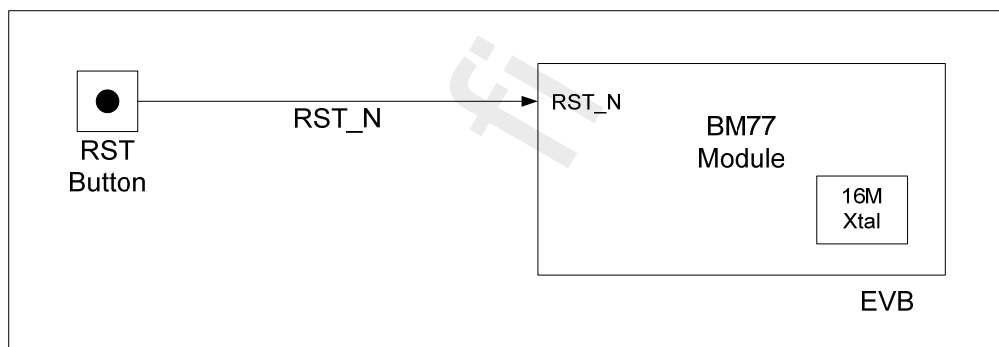
- Easy connect module with MUC or PC without welding
- Easy change EEPROM setting and update firmware code
- Switch for different modes settings (Flash write, EEPROM modified, Application)
- Jumper for 32 pin out
- Embedded MCP2200 USB-UART converter, no need extra convert board or cable
- RF connector for external Antenna

## 2. Block Diagram

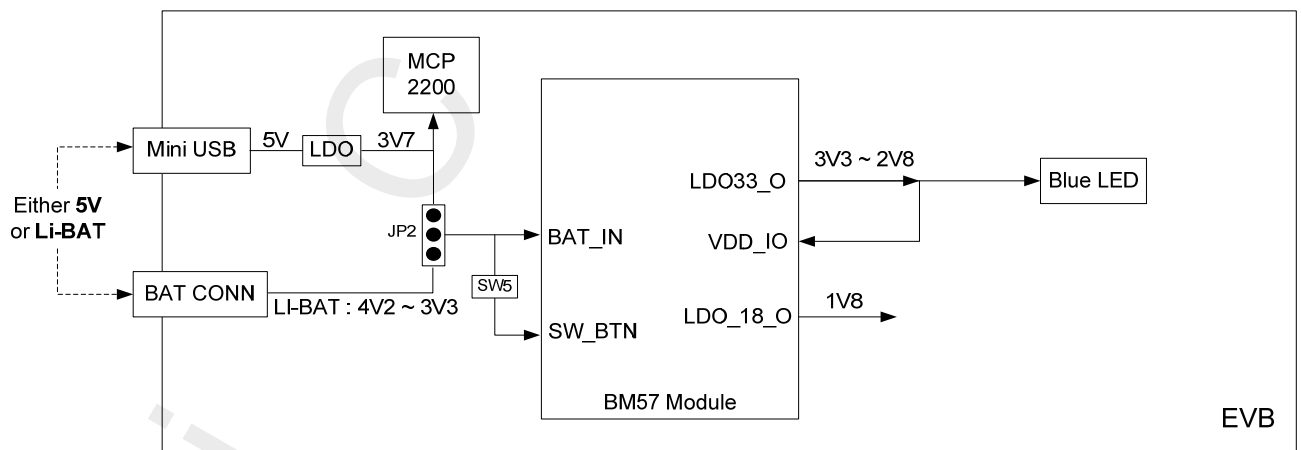
### 2.1. Placement



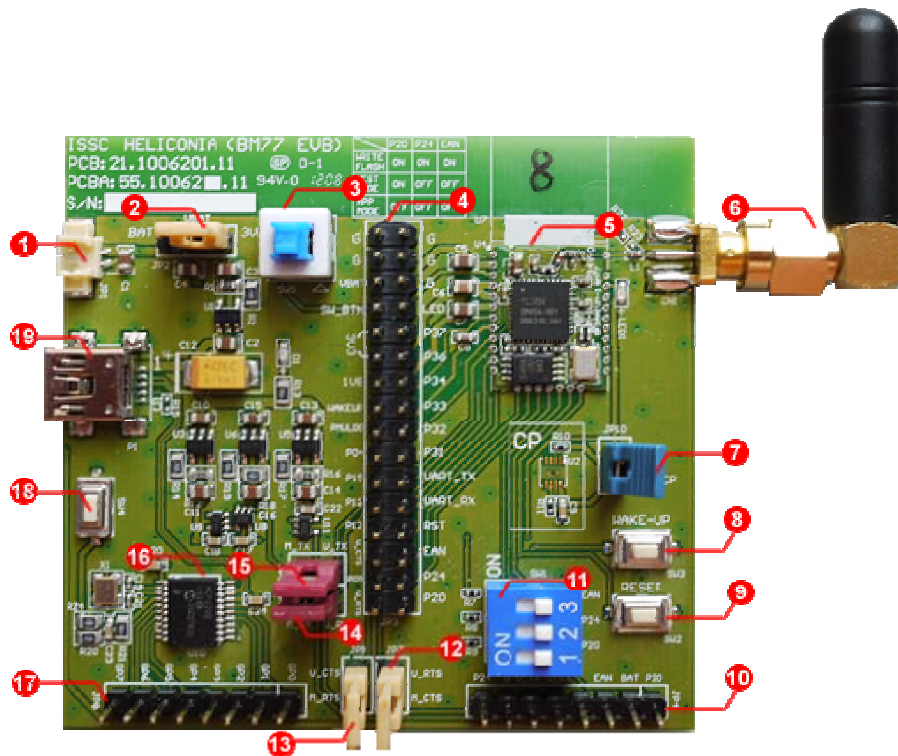
### 2.2. Reset/ Clock



### 2.3. Power Tree



### 3. Hardware Configuration



- ① JP1- Battery connector for Li-Ion Battery, Voltage range 4.2~3.3V
- ② JP2- Power source jumper

|                                                                                     |                                 |
|-------------------------------------------------------------------------------------|---------------------------------|
|  | Source from BAT (4.2V~3.3)      |
|  | Source from USB (5V->LDO->3.7V) |

- ③ SW5- The path between SW\_BTN & BAT\_IN, the button must be pressed down to make BM77 work.
- ④ JP3- Module 32-PIN out for easy connect the Bluetooth module PIN out to MCU
- ⑤ Bluetooth Module- BM77
- ⑥ Dipole Antenna- SMA connector with dipole antenna.
- ⑦ Reserved.
- ⑧ SW3- Wake up button to wake up Bluetooth from Shutdown State
- ⑨ SW2- Reset button for Bluetooth module
- ⑩ JP4- Connect with iSSC propriety 8 PIN connector (EDGAR). Use Li-Ion battery power and switch SW1 OFF while using EDGAR.
- ⑪ SW1- Mode Switch (see 3.2 Mode Definition, 3.3 Mode Settings)
- ⑫ JP7- CTS path of UART between BM77 & MCP2200. Remove the jumper if without flow control.
- ⑬ JP9- RTS path of UART between BM77 & MCP2200. Remove the jumper if without flow control.
- ⑭ JP6- RX path of UART between BM77 & MCP2200. Remove the jumper if trying to connect MCU & BM77.
- ⑮ JP5- TX path of UART between BM77 & MCP2200. Remove the jumper if trying to connect MCU & BM77.
- ⑯ U10- Microchip MCP2200 chip, UART to USB converter.

以上内容仅为本文档的试下载部分，为可阅读页数的一半内容。如要下载或阅读全文，请访问：<https://d.book118.com/747155162101006116>