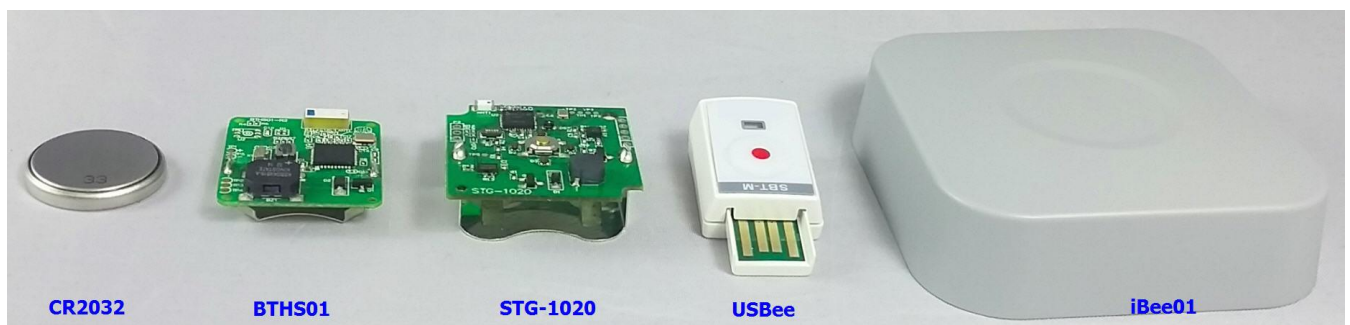


Quan iBeacon Solutions

iBeacon Hardware

There are various hardware for different needs. Most of these beacons consume very low power and has long battery life. Apple iBeacon and Google EddyStone protocols are support by our firmware. Some of our beacons hardware are weapon with sensors for advanced applications.



iBeacon Specifications:

● BTMS01

- RF Band: 2.4GHz ISM Band
- RF output power: 0 dBm
- Power Supply: Lithium coin battery, type CR2032
- Battery Life: Estimated 10 months
- With optional humidity/temperature sensors.
- Beeper on board
- Dimensions: 23x28x7mm



● STG-1020

- RF Band: 2.4GHz ISM Band
- RF output power: 0 dBm



- Power Supply: Lithium battery, type CR2477
- Battery Life: Estimated 24 months
- With optional accelerometer/switch sensors
- Beeper on board
- Dimensions: 27x29x11mm

● **iBee01**

- RF Band: 2.4GHz ISM Band
- RF output power: 0 dBm
- Power Supply: 3A battery x 2
- Battery Life: Estimated 8 months
- Dimensions: 19x37x12mm



● **iBee02-Extreme Low Power version**

- RF Band: 2.4GHz ISM Band
- RF output power: 0 dBm
- Power Supply: 3A battery x 2
- Battery Life: Estimated 30 months
- Dimensions: 19x37x12mm



● **USBee**

- RF Band: 2.4GHz ISM Band
- RF output power: 17 dBm for long range application
- Power supply: DC input 5V. Use USB charging adapter as source
- Dimensions: 64x64x20mm



Beacon Readers Hardware

There are two types of readers for versatile applications: module and RS232 gateway. A beacon reader can read beacon signals and send data to host by serial port. Firmware can be customized according to client's applications.

Reader Specifications:

● RMD02-BR01

- BLE Module with LGA connection pins
- RF output power: 0 dBm
- Communication port: UART, 115200bps
- Power supply: DC 2.4~3.6V
- Antenna: chip antenna
- Dimensions: 15.5x12.2x2mm

● BREADER01

- Aluminum case with external antenna
- RF output power: 0 dBm
- Communication port: RS232, 115200bps
- Antenna: detachable external SMA antenna
- Power supply: 5~24V DC input
- Dimensions: 90x60x22mm



Application Program Interface

API is provided for the following functions:

- Authenticated user changeable UUID and Major/Minor ID;
- With calibration capability
- Configurable broadcast interval (can be changed for sake of power saving)
- Broadcast sensor information (optional)
- Report movement or detachment events (STG-1020)