

Triangle Beacon User Manual v0.1

Purpose

This Documentation is a manual for SB System's Triangle Beacon and the features that they support.

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Revision History

No	Version	Release Date	History	Etc
1	V0.1	2016-03-15	1 st Version	

Homepage

<http://sbsystems.co.kr>

Triangle Beacon(SBPB-100-B) User Manual

1 Description

1.1 Summary

Triangle Beacon(SBPB-100-B) is a beacon which is made by Sbsystems.
This beacon advertises several data periodically.

1.2 Feature

- when beacon moves, beacon senses acceleration/angular speed by equipped Gyro/acculator sensor. then triangle beacon calculates and advertises that data.
- Whisper mode saves beacon's battery. In this mode, beacon advertises a data in 10 minutes once.
- It is able to set beacon's TX power and advertising interval.

1.3 Configuration



Triangle Beacon1EA



Coin Battery(CR2354) 1EA

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2. Specifications

- General Specifications

Standard	41 x 38 x 11 mm
Weights	13g (include Battery)
Material	Synthetic resins
Color	White

- Hardware Specifications

Processor	32-bit ARM Cortex-M0
TX Power	-20dBm ~ +4dBm in 4dB step
Battery	Coin Battery:CR2354(3V, 560mA)
Sensor	Triaxial accelerometer Triaxial gyroscope
Operating Temperature	-10 ~ 50 °C

3. Button Detail Features



No.	Description
1	Home Button
2	LED Light

Button Function	Event	Remarks
Home Button Press	LED LIGHT On	
Home Button 10 Sec Press	DFU Mode	In DFU Mode, It can upgrade Firmware.

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4. Mode Modification

By modifying the UUID of Triangle Beacon, Triangle Beacon can be modified the transaction mode.

	UUID	
Service UUID	6E40000 0 B5A3F3(3E0A9E50E24DCCA9E	On/Off
TxPowerUUID	6E40000 1 B5A3F3(3E0A9E50E24DCCA9E	TX Power Setting
Advertising Interval	6E40000 2 B5A3F3(3E0A9E50E24DCCA9E	Advertising Cycle Setting
Major Version UUID	6E40000 3 B5A3F3(3E0A9E50E24DCCA9E	Major Version
Minor Version UUID	6E40000 4 B5A3F3(3E0A9E50E24DCCA9E	Minor Version
Gyro Enable UUID	6E40000 5 B5A3F3(3E0A9E50E24DCCA9E	Gyro Enable On/Off
WhisperModeEnable UUID	6E40000 6 B5A3F3(3E0A9E50E24DCCA9E	Whisper Mode On/Off
Continue UUID	6E40000 7 B5A3F3(3E0A9E50E24DCCA9E	Continue On/Off -Connect Continually

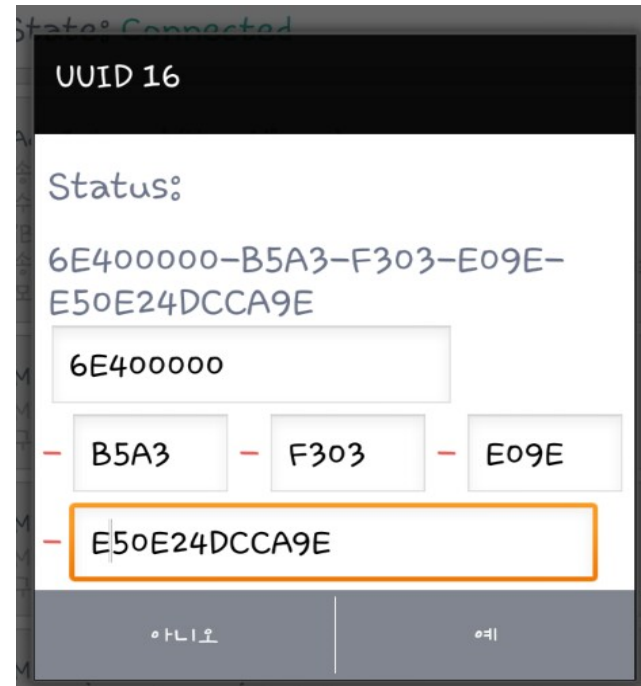
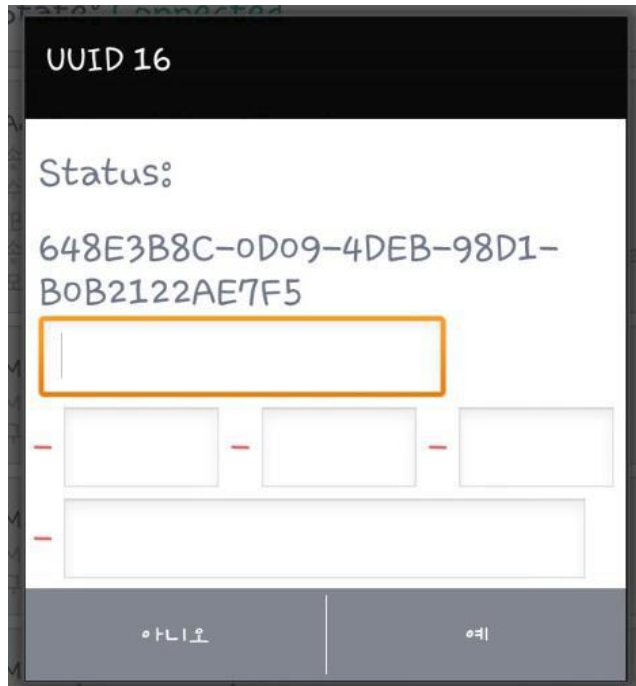
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4. Setting Modification

4.1 Run The Application

4.2 After Scanning Beacons, Click The Beacon Menu.

4.3 Click the UUID Button of Beacon, AND when a pop-up window comes, enter UUID.



WARNING & SAFETY INFORMATION

Safety Symbols



- When encountering this symbol in the manual, you must follow these recommendations to avoid irreparable damage to your car, system or connected devices or to avoid accidents with injuries or death.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and**
- (2) this device must accept any interference, including interference**

The antenna(s) used for this device must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Information

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

FCC notification to users

This equipment has been tested and found to comply with the limits for a CLASS B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference, the user is encouraged to try to correct the interference by consulting with a dealer or an experienced technician for technical assistance.

Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void user's authority to operate the equipment.