

<b>Product Name</b>	<b>GAOTek Bluetooth Low Energy Beacon - Lithium Manganese battery</b>
<b>Product SKU</b>	GAOTek-BB-130
<b>Product URL</b>	<a href="https://gaotek.com/product/gaotek-low-energy-bluetooth-beacon/">https://gaotek.com/product/gaotek-low-energy-bluetooth-beacon/</a>



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## 1 Product Overview

HCBB22 is a Bluetooth beacon based on a low-power Bluetooth chip with a CR2477 button lithium manganese battery and has a battery life of up to 5 years ( at 0dBm transmit power, 1s broadcast interval case ).

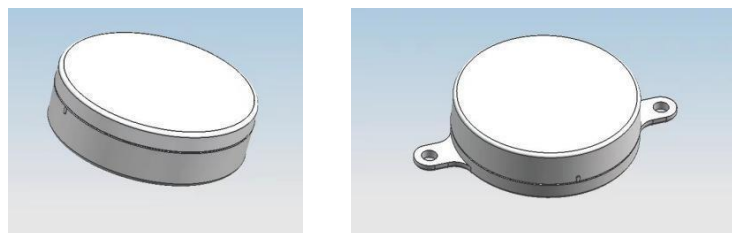
HCBB22 can broadcast Bluetooth name, Bluetooth MAC address, UUID, Major, Minor, RSSI@1m, battery power, and other information. The Bluetooth name, UUID, Major, Minor, transmission power and broadcast interval can be used through the mobile phone APP ( KTBB Connect ) Make settings. All broadcast content can be customized according to customer needs.

The HCBB22 broadcast distance is up to 100 meters ( open sight distance ) and can be installed and fixed using 3M glue or screws.

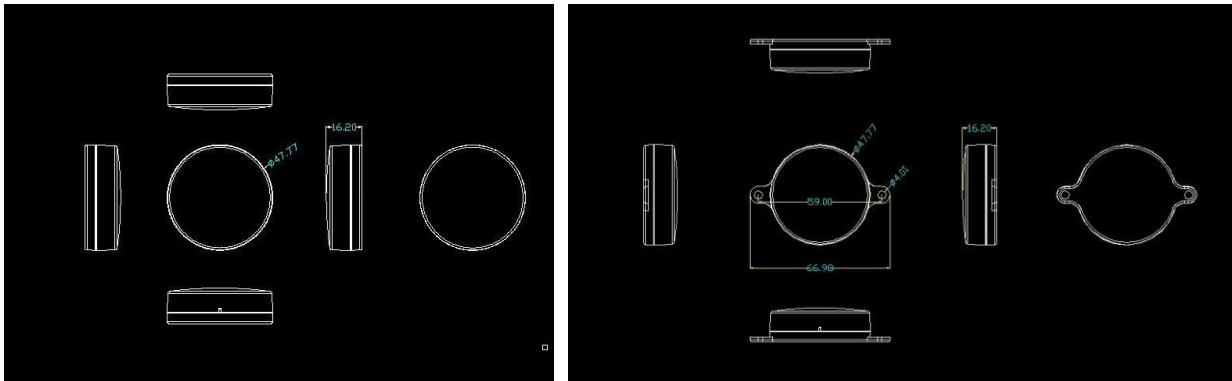
HCBB22 is divided into connectable type and non-connectable type. The connectable type can change the broadcast parameters related to Bluetooth beacons through mobile phone connection and supports OTA upgrade (connectable type).

HCBB22 is widely used in indoor positioning, indoor navigation, scenic area navigation, exhibition navigation, patrol check-in, information push, asset management, item tracking, and other application scenarios.

## 2 Product pictures



**HCBB22, HCBB22-E product pictures**



**HCBB22, HCBB22-E dimension drawing**

### 3 Product Features

- Ultra-low power consumption, battery life of up to 5 years (0dBm/1s, ambient temperature 25°C);
- The broadcasting distance is up to 100 meters ( open sight distance );
- Beacon parameters can be flexibly configured through the mobile APP;
- Support Bluetooth BLE4.2/5.0 protocol;
- Support OTA upgrade;
- IP68 waterproof rating;

### 4 Product specifications

Basic specifications	
Product number	HCBB22: round shape without ears (with 3M glue) HCBB22-E: round with ears (with screws)
Product size (diameter*height)	48*17mm
product weight	*g (including battery and 3M glue)
Shell material/color	ABS/white (default)
waterproof level	IP68
Installation method	3M adhesive/screw installation
battery model	Button lithium manganese battery CR2477

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battery voltage	3.0V
battery capacity	1000mAh
Can the battery be replaced?	Can
Whether to support OTA	Support (firmware selects connectable type)
Configure APP	HC Connect
<b>Technical specifications</b>	
Bluetooth version	BLE4.2/5.0
Broadcast data format	iBeacon or customized according to customer needs
Frequency Range	2400MHz~2483.5MHz
Transmit power	-19.5dBm~+2.5dBm (default 0dBm)
broadcast interval	100ms~10s (default 500ms)
Receive sensitivity	-94dBm
broadcast distance	100 meters ( open sight distance )
average current	19uA (0dBm, 500ms)
Peak current	3mA (0dBm)
Battery life	5 years ( 0dBm, 1000ms, ambient temperature 25°C)*
Operating temperature	-40°C~85°C
storage temperature	-40°C~85°C
Working humidity	10%~90% no condensation
Storage humidity	5%~90% no condensation

\*Battery life is affected by factors such as the ambient temperature of the battery, battery self-discharge, etc. Please evaluate the battery life based on the actual use environment.



## 5 Default broadcast parameters

UUID	FDA50693-A4E2-4FB1-AFCF-C6EB07647825
MAC	F0:C8: AA: BB : CC: DD
Major	Convert <b>AABB to decimal</b> in MAC address
Minor	Convert <b>CCDD to decimal</b> in MAC address
RSSI@1m	-61dBm
Transmit power	0dBm
connection password	1234
broadcast interval	500m s
broadcast name	K+ last 6 digits of MAC
Is it connectable?	Connectable mode (default), non-connectable mode optional
battery power	Broadcast battery voltage, update voltage value every 12 hours

## 6 Individual product lists

serial number	product name	model	quantity	Remark
1	Bluetooth beacon	HCBB22	1	Standard configuration
2	3M glue		1	HCBB22 standard configuration
	Bolts, screws		2 sets	HCBB22-E standard configuration
3	Battery	CR2477	1	Standard configuration

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## Precautions when using 3M glue

- a) Application materials: stainless steel, ceramics, glass/epoxy resin, aluminum, galvanized steel, enameled steel, PBT, ABS, PC, hard PVC and other material surfaces;
- b) Application temperature: 10°C~75°C;
- c) Pasting requirements: Please clean the pasting surface to ensure it is dry and dust-free;
- d) Recommended pasting temperature: 21°C~38°C;
- e) Recommendations for use in low-temperature environments: Before pasting, use a hair dryer to slightly heat the pasting surface to increase the stickiness; after pasting, press the label with your hand or other installation equipment for 2-3 seconds, and repeat several times to allow the double-sided tape to adhere to the label—better adhesion on the pasting surface.



**Contact us: [sales@gaotek.com](mailto:sales@gaotek.com)**

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