

# Tracker and Wearable Devices

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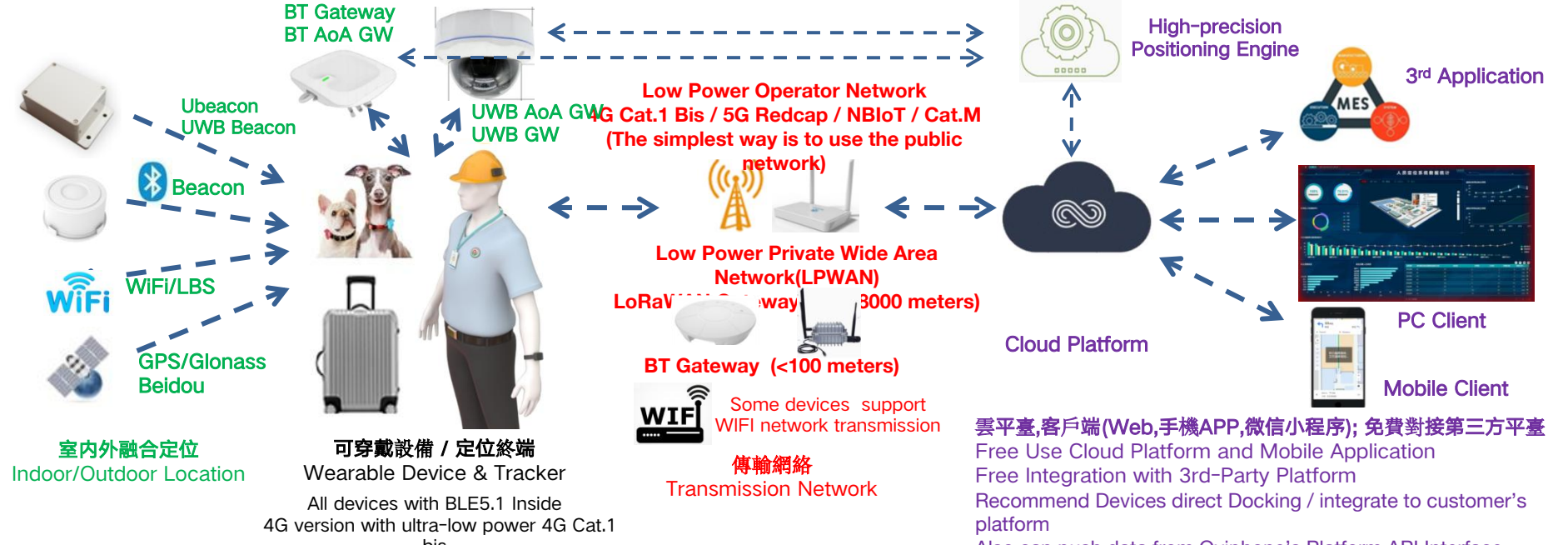


# 1. Introduction of Oviphone Technology Limited

Oviphone Technology Limited was founded in 2008, focusing on the design and manufacture of Trackers, Wearable Devices and Smart devices for over 18 years. Oviphone has design and engineering teams in Shanghai and Shenzhen, and a manufacturing center in Shenzhen.

Oviphone is a member of GTI and China Mobile 5G Innovation Center, 'National High-Tech Enterprise' and 'Shanghai Specialized and Innovative Enterprise'. Oviphone is the NBloT and 5G partner of China Mobile, China Telecom, China Unicom. Member of ZETA Alliance. Oviphone has many IoT products used abroad, and has established cooperative relationships with many overseas operators and customers.

- I. Oviphone is a technical expert in 4G, Cat.1, 5G Redcap, NBloT, Cat.M, LoRa, LoRaWAN, UWB, Bluetooth, WIFI, GPS, NFC, RFID and other fields.
- II. Oviphone has a rich Product line, including Asset tracker, Pet tracker, Personal tracker, Sports and health wearable devices
- III. Oviphone provides Turnkey Solution (Device Design + Platform Server + Mobile Application + Manufacturing)
- IV. Oviphone offers professional ODM/OEM services for Trackers, Wearable Devices, Mobile Medical Devices. and other IoT Devices.



# 2. Oviphone's Product Roadmap

(All the devices with BLE5.1 inside, Cat.1 is ultra low power 4G

## I. Wearable device, wrist band and smart watch

2.1.1	W200P	Smart Watch	Cat.1 or LoRaWAN : UWB, BLE5.1, GPS/Glonass+WiFi, SPO2/HRV/BodyTemp./HeartRate, TP, IP67, 450mAh, Explosion Certification
2.1.2	W300	Big Battery Smart Watch(NFC)	Cat.1 or LoRaWAN : UWB, BLE5.1, GPS/Glonass+WiFi, SPO2/HRV/BodyTemp./HeartRate, Full Round LCD+TP, IP67, 580mAh, Explosion
	W300P	Larger battery Smart Watch	Cat.1 or LoRaWAN or 2.4/5G WIFI : UWB, BLE5.1, GPS/Glonass+WiFi, SPO2/HRV/BodyTemp./HeartRate,IP67,760mAh. Corning Gorilla Glass
2.1.3	B2315	Wristband	Cat.1 or LoRaWAN or Cat.M : BLE5.1, GPS/Glonass+WiFi, SPO2/HRV/BodyTemp./HeartRate/blood, SOS, IP67
2.1.4	B725	Small Size Wristband	Cat.1 : BLE5.1, UV Sensor, bodyTemp./HeartRate, sleep monitor, step, WiFi Location, 85mAh Battery, SOS, IP67
2.1.5	B601	Baby bracelet +BG601 Gateway	BLE5.1, SPO2/HRV/bodyTemp./HeartRate, IP67 (BG601 Gateway: BLE5.0, WIFI, 4G Cat.1, 3000mAh Battery)
2.1.6	B2318	4 Side Keys Wristband	Cat.1: BLE5.1, GPS/Glonass+WiFi, SPO2/HRV/BodyTemp/HeartRate, SOS, IP67, Four Physical Keys
2.1.7	Z66	Anti-disassembly wristband	Cat.1 or LoRaWAN : UWB, BLE5.1, GPS/Glonass+WiFi, Power Band, IP67, 450mAh. (Optional Charging Bank)
	B5515	Anti-disassembly wristband	Cat.1 or LoRaWAN : UWB, BLE5.1, GPS/Glonass+WiFi, SPO2/HRV/BodyTemp/HeartRate, IP67, 760mAh
2.1.8	L10	High end Smart watch	Amoled (466X466)+Touchpanel, ECG/BIA/SPO2/HRV/BodyTemp/HeartRate/Blood, BLE5.3+4G Cat.1+GPS/Glonass, IP67, 760mAh

## II. Tracker

2.2.1	G805	Badge Tracker	Cat.1 or NBIoT or Cat.M or UWB : BLE5.1, GPS/Glonass+WiFi, G-Sensor, 1000mAh Battery + Micro USB Charger; RFID; 125KHz
2.2.2	G808	Big Battery Badge	Cat.1 or LoRaWAN : UWB, BLE5.1, L1/L5 Dual-Band GNSS, GPS/Glonass+WiFi, G-Sensor, 2000mAh, waterproof; CE Certification
2.2.3	G818	Display Badge Tracker	Cat.1 or LoRaWAN : BLE5.1, 1.54inch TFT display, GPS//Glonass+WiFi, G-Sensor, IPX7, 3 Keys,1000mAh
2.2.4	G906	Low Cost,small size Tracker	Cat.1 or NBIoT or LoRaWAN: BLE5.1, GPS/Glonass+WiFi, G-Sensor, 500mAh+Micro USB Charging
	G908	Larger Battery Tracker / Alarm Alarm	Cat.1 or LoRaWAN : UWB, BLE5.1, GPS/Glonass+WiFi, G-Sensor, 6000mAh(3*18650) Battery, IP67. Sound and Light
2.2.5	G628	Badge Tracker	Cat.1 : BLE5.1, GPS/Glonass+WiFi, G-Sensor, 450mAh Battery, IPX5
	G626	UV Sensor Badge	Cat.1 : BLE5.1, G-Sensor, UV detection, IP67 Waterproof
2.2.6	G618	Pets Tracker/ Helmet Tracker	Cat.1 or LoRaWAN or Cat.M : UWB, BLE5.1, GPS/Glonass/Galileo +WiFi, G-Sensor, IPX6
	G608	Pets Tracker / Wristband	Cat.1 or LoRaWAN): BLE5.1, SPO2/Temp./HeartRate. GPS/Glonass+Wifi+LBS; 600mAh, LEDs, Buzzer, SOS, IPX7.
			Camera version coming soon

## 2.0 Application Recommendation: Elderly Care, Hospitals, Patients, Judicial correction, Prisons.

Oviphone's elderly care products have ultra long standby, integrated GPS/Wifi and Beacon indoor and Outdoor Positioning. The product has functions such as comfortable wearing, waterproof, and vital sign monitoring.; Free integration with third-party platforms

- 1. Home Base Elder Care: B2315G: Vital sign monitoring wristband, can be used on a single charge for 7-10 days, suitable for elderly care or long-term use scenarios .
- 2. Nursing institutional elderly care : Wristband or Badge Tracker, work with beacons or gateways to achieve health monitoring and indoor/outdoor integrated positioning



B2315G Wristband      W200PG / W300G Watch      Z66 / B5515 Anti-Assembly Wristband      G805 Badge Tracker      Beacon, BT Gateway

## 2.0 Application Recommendation: There are two application scenarios for anti-disassembly wristbands

- 1. If you are an elderly person with dementia or mental disorders, please use B2315 and W200. Features: Lightweight, compact, with wearable and removable alarms
- 2. If you are a person who needs supervision for judicial correction, release on bail pending trial, medical parole, visiting relatives after leaving prison, compulsory drug rehabilitation, community drug rehabilitation, etc., please use Z66 and B5515 high reliability anti-disassembly wristband



B2315G +Magnetic anti Disassembly Strap (special anti tamper screw)      200PG/W300G + Magnetic anti disassembly watch strap      Z66 / B5515      B2315G Wristband      B2315G Wristband

## 2.0 Application Recommendation: Construction sites, Coal mines, Chemicals, Ports, docks, sanitation, and caregivers

- 1. There are dozens of customers using our health and indoor/outdoor positioning watches on construction sites in Hong Kong (China Mainland, Southeast Asia, Middle East, etc.)
- 2. W200PG/W300G watch ultra-low power RTOS system+low-power 4G Cat.1, can ensure usage for more than 1 day. There are firmware specifically designed for Hong Kong construction sites, including traditional Chinese and English characters, The reporting frequency can be set separately; BT broadcast, high-altitude fall alarm, sedentary alarm, positioning and health data reporting switch, sedentary alarm trigger time, Power off/restart command , modify IP. weather warnings, alerting people and vehicles approaching.
- 3. The watch supports BLE5.1+GPS +WiFi positioning (indoor use of the simplest BT beacon can locate floors and rooms). There are 4G, LoRaWAN, BTand UWB versions.,
  - 3.1 At the beginning of the construction project, open ground construction is carried out using GPS Beidou positioning and 4G
  - 3.2. Without 4G signal Coverage field, can use Bluetooth gateway. Or LoRaWAN versions (W200PL version ) and UWB versions(W200PU).
  - 3.3. After the building is built, GPS and Beidou positioning cannot be used indoors. A simple deployment of Bluetooth beacons can be used, and the watch supports collecting beacon positioning.
- 4. Watches can be laser engraved with device labels on the back case or strap. The watch strap can be equipped with RFID tags (which can quickly identify different watches and facilitate the daily replacement of different wearers on the construction site). Optional Velcro strap for enhanced breathability and comfort (without NFC)Tag, suitable for Hong Kong's hot weather)
  - 4.1. For special usage scenarios such as construction sites, we have also specially equipped the watch with tempered film to protect the screen from impact damage
  - 4.2. The watch also comes with a matching portable charging case (32 watches can be charged in one case), or a facial recognition/IC card recognition charging cabinet.



W300/W200P Watch      Badge Tracker      Helmet Tracker      BT Beacon, UWB Beacon, Gateway      Safety and Alarm



## 2.0 Application Recommendation: Schools, kindergarden, students, and children

- 1. GPS+Wifi+BLE : indoor and outdoor positioning: electronic fence
- 2. Wristbands can monitor health data such as body temperature, heart rate, blood pressure, step, Sleep.
- 3. B725 and G626: UV sensor detect and monitor everyday outdoor active time.



B2315G Wristband

B725 UV Sensor wristbad

B601 bady monitor Wristband

B2318

G628 Badge Tracker

G626 UV sensor Badge

## 2.0 Application Recommendation: Smart factory and Military training

**Smart Factory:** The factory like product iPhone and accessories with extremely high requirements for workshop environment, and adopts a fully metal enclosed design.

- 1. The factory needs to ensure that when there is an abnormality in the production line, workers can immediately be informed through the equipment for timely handling.
- 2. Confidentiality restrictions: Due to strict confidentiality requirements, the factory is unable to communicate using 4G and Bluetooth.
- 3. Equipment intensive environment: The workshop is not only fully enclosed with metal, but also has dense equipment, further increasing the difficulty of wireless signal transmission. Large area coverage requirement: The workshop area reaches 12000 square meters, and it is necessary to ensure full coverage of the communication system, as well as real-time information transmission and low packet loss rate.6. Long term usage requirements: The device needs to support high-frequency transmission of two to three messages per minute and meet the continuous work requirements of 12 hour day or night shifts.

Solution: 1. LoRa Communication Technology:

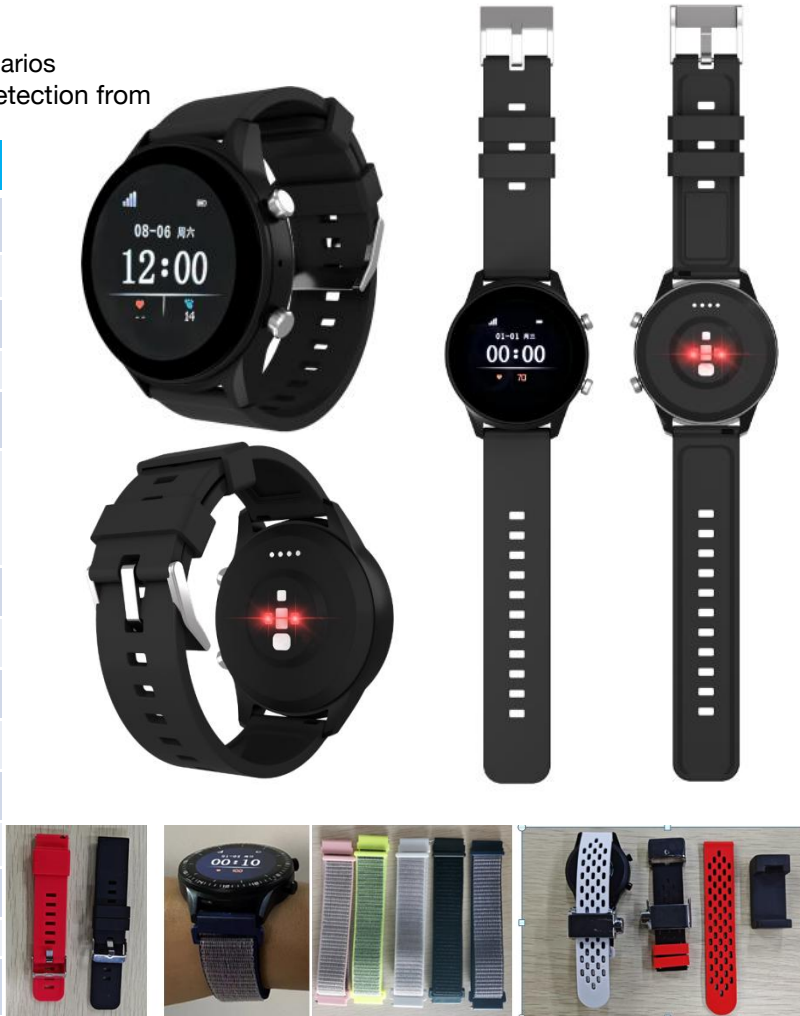
- 2. In response to packet loss during LoRa transmission, we used a retransmission mechanism to reduce the packet loss



## 2.1.1 W200P Smart Watch

The Watch is stylish, waterproof, Strong, suitable for all kinds of and applications in different scenarios  
**4G Cat.1, NBIoT, LoRa, LoRaWAN, UWB or Single Bluetooth version are available.** can Falling detection from high altitude

	W200PG	W200PGU	W200PL	W200PLU	W200PU	W200L
Size/Weight	46 x 52 x 15mm / 49g					46 x 52 x 14.5mm / 39g
Color	Black ( Other colors can be customized ) (Strap have Black and Red)					
IOT	4G Cat.1	4G+UWB	LoRa	LoRa+UWB	UWB	LoRa
Location	GPS北斗+Wifi+BLE+LBS		GPS北斗+BLE	UWB+GPS+BLE	UWB+BLE	GPS北斗+BLE
Speaker	YES		NO			
Sensor	Goodix GH3011 High end Sensor ; Integrate forming two-color mold (no lens design for back shell) Oxygen/Body Temperature/Heart rate/Blood Pressure /Pedometer/Sleep Monitor					No Oxygen
SIM	Nano SIM Inside			NO		
MCU	BLE5.1 SOC					
BLE	BLE5.1 (Support Broadcasting, scan Beacon, connect to Phone and Host BT devices )					
Batt. /char.	450mAh / Magnetic charging (Optional Charging Suitcase – for 32 or 16 pcs of watches)					
Display	1.22”, 240*210 round TFT LCD					
Touch Panel	Capacitive touch Panel					NO
KEY	2 Side Keys					
Vibrator	YES					
Strap	Removable, Standard 22mm Strap (Optional for Magnetic Anti-Assembly Strap; NFC TAG Strap; Velcro strap )					
Waterproof	IP67 (two-color mold + No Screw ,full dispensing process					IPX5



### 2.1.2、 W300 Round Display Smart watch



	W300R	W300G	W300GU	W300U	W300LU
Size/Weight	47 X 56 X 13 mm / 51g				
Color	Default Black (Strap can Black or RED )				
IOT	4G Cat.1	4G Cat.1	4G Cat.1+UWB	UWB (CH2+PA/FEM)+BLE	
SPK/MIC	Support			Default NO	
Location	GPS / Glonass /Beidou/ Galileo + WIFI + BLE + LBS			UWB, or BLE	
Sensor	Goodix GH3011 High end Senosr. Integrated forming two-color mold (no lens design for back shell). <b>Oxygen/Body Temperature/Heart rate/Blood Pressure /Pedometer/Sleep Monitor</b>				
SIM	2*2mm Chip SIM Inside			NO	
MCU	BLE5.1 SOC Cortex M4				
BLE	BLE5.1				
Bat/charger	<b>580mAh</b> / Magnetic charging( <b>Charging Suitcase 32 or 16 pcs of watches</b> )				
Display	<b>1.3 inch Round 240 X 240 dots IPS TFT Display</b>				
Touch Panel	<b>Capacitive touch Panel</b>				
KEY	2 Side Keys				
Vibrator	YES				
NFC	NFC Reader	NFC tag inside (under display)			NFC Reader
Strap	Removable, Standard 22mm Strap				
I. W300 and W300R	(Optional for Magnetic Anti-Assembly Strap; NFC TAG Strap; Velcro strap)				
II. W300G and W300GU	IP67 (two-color mold, No Screw full dispensing process)				
Waterproof	IP67 (two-color mold, No Screw full dispensing process)				
a. W300GU-5F: CH2, No FEM/PA, can work with UWB AoA Gateway U1000-C2 and G908GU					
b. W300GU-2F: CH2, No FEM/PA, can work with UWB AoA Gateway U1000-C2					



# 2.1.2、W300P: 760mAh Battery Smart watch

W300P, W300, W200P different:

	W300P	W300	W200P
Outlook	The length and width of the ID are the same, the curvature of the back design is slightly different		Different ID
Thickness	14.2mm	13mm	15mm
Battery	760mAh	580mAh	450mAh
Weight	52g (34g without Strap)	51g	49g
Display	1.3 inch; 240X240 dots		1.22 inch; 240X210dots
Touch	Corning Gorilla Glass	Normal	Normal (Optional screen protector)
Speaker	NO	YES	YES
Charger	small 2Pin Magnetic	2Pin Magnetic	
Keypad	2 side key micro protrusions	2 side keys protruding	



The W300P watch is IP67 waterproof, explosion-proof, with an extra-large battery, sturdy and stylish (Gorilla Glass touch screen), suitable for complex environments such as industrial and commerical applications.

There are versions with 4G Cat.1, LoRaWAN, UWB, dual-band Wifi, and BLE;  
Also combination versions: **LoRaWAN+4G, 4G+ Dual band Wifi, 4G+ UWB, LoRaWAN+UWB, LoRaWAN+Wifi**

I. W300P ultra-low power **Wifi (2.4G+5.8G)**. Many Application need 5G Wifi,W300P have 3 Wifi version

	W300PW: Wifi+BLE	W300PGU	W300PGL	W300PL	W300PL	W300PL	W300PW
a. W300PW: Wifi + BLE + UWB (CH2 + PA/FEM (Ultra- Low Power SOC UWB chipset							
b. W300PGU: Wifi + BLE + UWB (CH2 + PA/FEM (Ultra- Low Power SOC UWB chipset							

Size/Weight	W300PGW: Wifi + 4G + GPS + BLE47 X 56 X 14.2 mm / 52g							
Color	Default Black (Strap can Black or RED )							
IOT	4G+Wifi	4G Cat.1	4G+UWB	LoRaWAN+4G	LoRaWAN	LoRaWAN+Wifi	LoRaWAN+UWB	Wifi+BLE
SPK/MIC	NO							Buzzer
Location	GPS / Glonass / Galileo + WIFI + BLE + LBS				GPS		GPS+UWB	Wifi+BLE
Sensor	Goodix GH3011 High end Senosr. Integrated forming two-color mold (no lens design for back shell). Oxygen/Body Temperature/Heart rate/Blood Pressure /Pedometer/Sleep Monitor							
SIM	2*2mm Chip SIM Inside			5X6mm SIM		NO		
MCU	BLE5.1 SOC Cortex M4							
BLE	BLE5.1							
Bat/charger	760mAh / Magnetic charging(Optional Charging Suitcase –32 or 16 pcs of watches)							
Display	1.3 inch Round 240 X 240 dots IPS TFT Display							
Touch Panel	Capacitive touch Panel, Strong Corning Gorilla Glass TP							
KEY	2 Side Keys							
Vibrator	YES							
NFC	NFC ag inside (under display)							NFC or Tag

### 2.1.3 B2315 Wristband

Ultra Low Power, indoor/ outdoor Location. 4G Cat.1, Cat.M, LoRaWAN, NBIoT, UWB and Single Bluetooth version available.

1. The wristband is super small, light and waterproof, suitable for long term wear by everyone. (Hundreds of thousands of bracelets have been shipped in pensions, students, sanitation, engineering, etc.)

- a) Ultra-small size, ultra-light weight: 43 x 23 x 13 mm / 25g
- b) IP67 deep waterproof (can swim and shower)
- c) Long standby, convenient charging (strong adsorption charging, charging lamp display)

2. Adopts environmentally friendly and reliable materials TPE/TPU/TPS

- a) Colorful strap
- b) More kinds of straps are available: Standard , buckle, Dual-hole soft, Velcro
- c) Optional screw tamper-proof strap

3. The bracelet has wearing detection (put on and take off alarm); SOS one-key alarm; low battery alarm

- #### 4. Low power consumption design to achieve ultra-long standby

- a) Built-in low-power MCU processor
- b) Built-in low-power 4G Cat.1 (or Cat.M and NBIoT);
- c) Built-in low-power Bluetooth BLE

- Real-time reporting of health data such as body temperature, heart rate, blood pressure, blood oxygen, pedometer and sleep

- ## 6. Multiple positioning

- GPS/Glonass/WIFI/G-Sensor multi-location
- Bluetooth precise positioning (broadcast and scan)

7. BLE Medical Equipment can be connected at the same time, such as oxygen meter, blood glucose meter, oximeter, etc.

7. Optional high-frequency RFID (13.56MHz) to achieve access control.



B2315G  
Buckle strap  
Touch Key



B2315G

Physical Key



B2315P  
+SPO2



Standard package

Strap



Dual-hole  
Charging  
control,  
soft Strap



Velcro strap



Magnetic



## Anti-Disassembly



## Lock Screw



Strap



different

color

## 2.1.4 B725 -Small Size Wristband, and B2315



Compare with B2315

B725

	B2315P	B2315G	B2315K	B2315+	B2315M	B2315L	B725	B725BT
Size/Weight	43 x 23 x 13 mm / 25g						37x22x10.9 mm / 12g	
Color	Black							
IOT	4G Cat.1		NB-IoT		LTE.M	LoRaWAN	4G Cat.1	
Location	GPS / Glonass + WIFI + LBS + LBE (Scan Beacon or AOA)						WIFI + BLE	
Sensor	Oxygen	Body Temperature/Heart rate/Blood Pressure /Pedometer/Sleep Monitor						
UV Sensor	NO						YES	YES
SIM Card	5*6 mm Chip SIM or Nano SIM				Chip SIM	NO	chip SIM	NO
MCU	Cortex M4 SOC							
BLE	BLE5.1							
Bat./Char.	160mAh Li-Ion /Magnetic Charging （Optional 200mAh）						85mAh/ Magnetic Charging	
Display	0.49 inch 64*32 Dots OLED Black/White Display							
LED	2 X LEDs （RED+GREEN）							
Key	Physical (Optional Touch Key)		Physical Key	Touch key	Touch key (Optional Physical) Physical		Touch key	
Vibrator	YES		NO （Optional）		YES		NO	
Strap	Removable （Optional different Color, Different Types, please check the last page）						Removable	
RFID	Optional 13.56MHz RFID TAG （M1 Card）						NO	
Waterproof	IP67							
Speaker	NO （Optional but no Display）				NO			

## 2.1.5 BG601 Baby bracelet +BG601 Gateway (Or Watch)

Ultra Small Size, Light skin strap design 。

IP67 Waterproof

**BG601:** Environment Temperature

BLE5.1+WIFI +4G Cat.1

3000mAh Battery ,Type C Charger

Can changer for B601

LEDs-night light, ambient light, indicator light)

Speaker, MIC for detect Baby Cry



Baby wristband  
Watch



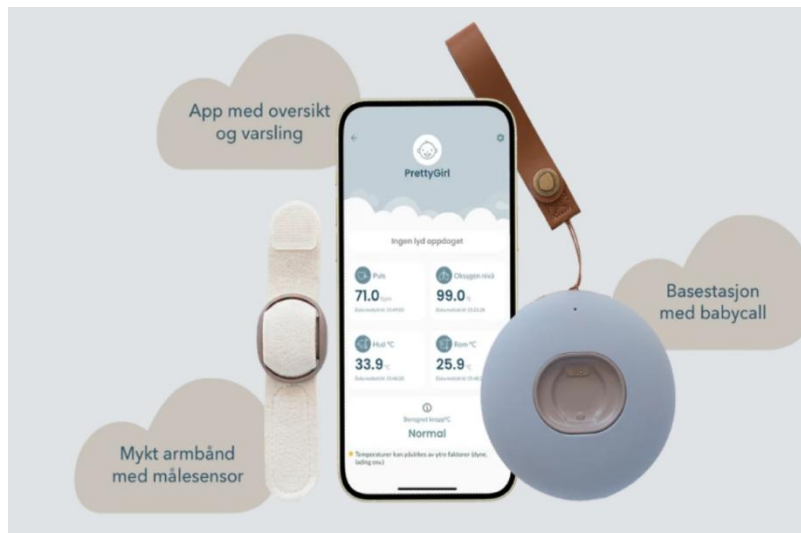
BLE5.1



Parent (Guardian)

### Operation Mode:

1. The B601 bracelet periodically detects the vital signs of the baby, And broadcast to the gateway via bluetooth low energy BLE
2. The BG601 gateway collects the data, ambient temperature and sound of the bracelet in real time Transfer various data to the background via WIFI or 4G
3. The background can be based on the baby's wrist temperature and ambient temperature and other data, Accurately calculate the baby's body



## 2.1.6 B2318 Wristband

4G Cat.1 or Single Bluetooth version available

1. Low power consumption design to achieve ultra-long standby
  - a) Built-in low-power MCU processor
  - b) Built-in low-power IoT 4G Cat.1; 5\*6mm Ship SIM card
  - c) Built-in low-power Bluetooth BLE, low-power WIFI
2. Real-time reporting of health data such as body temperature, heart rate, blood pressure, blood oxygen, pedometer and sleep
3. Multiple positioning
  - a) GPS/Glonass/WIFI/G-Sensor multi-location
  - b) Bluetooth precise positioning (broadcast and scan)



Default: Black Velcro strap

	B2318G	B2318BT
Size/Weight	43 x 34 x 13mm / 30g	
Color	Default	
IOT	4G Cat.1	BLE5.1
Location	BlackGPS / Glonass / Beidou/ Galileo +WIFI+BLE	AoA
Sensor	Body Temperature/Heart rate/Blood Pressure /Pedometer/Sleep Monitor	
SIM	5*6mm Chip SIM	NO
MCU	BLE5.1 SOC Cortex M4	
BLE	BLE5.1	
Battery /charger	200mAh / Magnetic charger	
Display	1.0 inchTFT LCD 128 X 96 dots	
Vibrator	YES	
KEY	4 Keys	
Strap	Default: Black Velcro strap Removable, Standard 18mm Strap	
Waterproof	IP67	
RFID	NO	Optional



## 2.1.7 Z66G: Anti-disassembly wristband

4G Cat.1, NBIoT, UWB and LoRa, LoRaWAN, and Single BLE version available

The wristband has high strength, strong waterproof, long standby and alarm when the strap is cut off

It is suitable for people who need supervision, such as release pending trial, release from prison to visit relatives, drug rehabilitation, Alzheimer's disease, and mental disorders.

- Small size, light weight, suitable for long-term wear: 48 x 39.5 x 14 mm / 60g
- High-strength: the high-strength structure design of the strap and the injection main body,
- Strong Strap: built-in multi-layer FPC circuit and TPU martial to ensure that the tensile strength is 70KN
- Strong waterproof ATM10: internal glue filling , plus high-strength stainless steel back shell;
- Automatic alarms, such as disassembly locks, unlocking alarms, damage alarms, electronic fence, low power and shutdown, etc.
- Health data, such as body temperature, heart rate, blood pressure, pedometer and sleep,
- BLE5.0, GPS/Glonass, WIFI and G-sensor, can achieve seamless indoor and outdoor positioning;
- 450mAh lithium-ion battery, Strong magnetic charging, can be charged without disassembly
- Portable buckle power bank (1500mAh), Wristband can be charged without disassembly

	IOT	display	BLE	Key	Heart Rate	Blood Pressure	Body Temp.	G-Sensor	Sleep Monitor
Z66	NB IoT	●	●	●	○	○	○	●	●
Z66+	NB IoT	●	●	●	●	●	●	●	●
Z68+	4G Cat.1	●	●	●	●	●	●	●	●
Z66G	4G Cat.1	●	●	●	○	○	○	●	●



## 2.1.7、 B5515: Larger Battery 760mAh, Health, Magnetic Anti-disAssembly Wristband

The watch is waterproof and sturdy, suitable for various personnel and scenarios that require supervision such as judicial, prison, mental illness, and dementia

5G Redcap, 4G Cat.1, LoRa, LoRaWAN, UWB and BLE version Available

1. High strength body design, suitable for special scenarios
  - a) High strength of the whole machine: The strap and body are injection molding
  - b) High tensile strength strap: High reliability TPU strap, ensuring 70KN strap tensile strength
  - c) Diving grade waterproof design: integrated strap and shell. Ensure strong protection above IP68
  - d) Magnetic unlocking: anti disassembly lock buckle opening lock buckle alarm, strap damage alarm
2. Ultra-low power , Big Battery, Longer Standby and use time.
  - a) Ultra-low power Cortex M4 SOC MCU+
  - b) Ultra-low power 4G Cat.1 bis
  - c) 760mAh battery
  - d) ultra- low power 4G cat.1 bis, Default: FDD: B1/B3/B5/B8, TDD: B38/B39/B40/B41
3. Indoor-outdoor location: GPS/Glonass+BLE5.1+Wifi Location, UWB Optional
4. Goodix GH3011Sensor , 持support Oxygen/ HRV/ Heart rate/ Blood, Body Temp. Step and Sleep monitor.
5. B5515: 1.3 inch TFT IPS+Touch Key; B5515Lite: No Display/no Key  
Optional: Charging Suitcase (small size version can charging 9pcs) ;



B5515G(Display+Touch Key)

B5515Lite(No Display No

	B5515Lite	B5515G	B5515GU	B5515L
Size/weight	47 X 56 X 14.2 mm / 63g			
Color	Black			
LoT	4G Cat.1		4G+UWB	LoRaWAN
SPK/MIC		NO		
Location	GPS/Glonass+Wifi+BLE+LBS			
Health	Goodix GH3011 High end Senosr. Integrated forming two-color mold (no lens design for back shell). Oxygen/Body Temperature/Heart rate/Blood Pressure /Pedometer/Sleep Monitor			
Sensor	G-Sensor			
SIM	Nano SIM inside			NO
MCU	Low power BLE 5.1 SOC			
BLE	BLE5.1 （support Broadcast / Scan Beacon / BLE AoA）			
Battery	760mAh / Magnetic Charging			
Display	NO	1.3 inch 240X240 TFT IPS		
Keypad	NO	1 Touch key		
Motor	YES			
Strap	20cm magnetic unlocking; Anti tampering watch strap (cutting alarm; unlocking alarm)			
NFC	RFID inside	NO		
Waterproof	IP67			

## 2.1.8 L10: High End Health, Location, lower power, big battery Smart Watch

1.5inch Amoled Display (466X466)+Touchpanel, ECG/BIA/Oxygen/HRV/heartRate/blood Pressure, Body Temp. BLE5.3+4G Cat.1+GPS, IP67, 760mAh

1、Top Performance SOC BLE: **ATS3085S**

- a) Dual Core: 192MHz Mstat+192MHz DSP
- b) Support 2D+2.5D JPEG Decoding, AI Engine
- c) BT/BLE 5.3

2、Top Performance Health Sensor: **ADI7000**

- a) 4 X LEDs+4 X PD: Stronger signal
- b) ECG
- c) BIA
- d) Oxygen/HRV/Heart Rate/blood pressure, Step/ Sleep monitor
- e) Infrared Body temperature sensor (skin temp. measurement)

3、Lowest Power consumption 4G chipset inside: 4G Cat.1 Bis

- a) **Eigencomm 716S COB chipset**; Chip SIM Card
- b) Default: FDD: B1/B3/B5/B8, TDD: B38/B39/B40/B41

4、High end Display: 1.5inch 466X466Dots Amoled+2.5D Touchpanel

5、Ultra thin design, Large battery, IP67 waterproof

- a) 55 x 47.5 x 11.5 mm / 50g
- b) **760mAh battery** +Magnetic Charging
- c) 22mm Standard Removable Strap.

6、Indoor-Outdoor Location

- a) GPS+Glonass, LBS
- b) Wifi Location ( Scan Wifi MAC address and RSSI)
- c) BLE location: support Broadcast / Scan Beacon / BLE AoA



# 2.2.1 G805 : Badge Tracker

NBLoT, 4G Cat.1, Cat.M, UWB and Single BLE version available

- 101 x 59 x 9mm / 50g
- Ultra low-power Bluetooth SOC chip to achieve ultra-long standby
- GPS + Glonass + WIFI + LBS + G-Sensor multi-location
- BLE5.1 can achieve more accurate indoor Location
- also support BLE tracking with Smart Phone, Broadcast and Scan iBeacon
- 1000mAh battery, One Large button SOS, easy to operate (SOS and Phone call)
- Motion sensor determine the state and assist in positioning and optimizing power consumption
- low-power 125KHz low-frequency detector, an detect entrance and exit in real time to realize non-inductive attendance,
- It can also judge scenes such as dangerous areas and asset anti-theft



- Optional 13.56MHz RFID (M1 card or CPU card)

Available version ( ● : YES; ○ : NO)

	IoT	Phone	GPS/Glonass	WIFI	BLE	125K	G-Sensor	RFID	Features
G805G	4G Cat.1	○	●	●	●	○	●	Optional	Need Low Power, BLE indoor Location, Low Cost
G805U	UWB+BLE	○	○	○	●	○	●	Optional	UWB + BLE Location
G805G U	UWB+BLE+4G+GPS	○	●	●	●	○	●	Optional	Support Indoor and Outdoor Location
G805B*	NBLoT	○	○	●	●	○	●	Optional	
G805+	NBLoT+Cat.1	●	●	●	●	●	●	Optional	Need 4G ( 4G Cat.1 High Power consumption and High Cost)
G805M	Cat.M(eMTC)+NBLoT	○	●	●	●	○	●	Optional	USA, Canada, Japan, Australia, New Zealand, Europe, etc

## 2.2.2 G808: Big battery Waterproof badge Tracker

- 102.8 x 61 x 12mm / 80g, **Ex ib IIC T4 Gb Explosion-proof certification and CE certification available**
- Ultra Low power BLE SOC processor to achieve ultra long standby
  - 3 keys, supporting multiple function definition
  - Support L1 and L5 Dual Band GPS / Glonass / Galileo
  - Optional high-precision RTK design
  - GPS + Glonass + Galileo + WIFI +LBS + Motion Sensor
  - Low power Bluetooth BLE5.1 for more accurate indoor location
  - Optional: 13.56MHz RFID (M1 card or CPU card
  - Optional: 40 card integrated charging cabinet, supporting facial recognition,  
IC card and ID card recognition
  - Optional: 24 Card or 48 Card Charging Cabinet

●Available version ( ● : YES; ○ : NO)



	IOT	Speaker	MIC	Phone	125K	GPS/Glonass	WIFI	BLE	G-Sensor	RFID	Features
G808G	4G Cat.1	●	○	○	○	●	●	●	●	Optional	4G Cat.1 version
G808U	UWB+BLE	○	○	○	○	○	○	●	●	Optional	UWB + BLE Location
G808GU	UWB+BLE+4G	●	○	○	○	●	●	●	●	Optional	Support Indoor and Outdoor Location
G808L	LoRaWAN	○	○	○	○	●	○	●	●	Optional	Big Battery Tracker
G808D	NB IoT	○	○	○	○	L1/L5 Dual Band	●	●	●	Optional	L1 and L5 Dual Band <b>GPS / Glonass / Beidou/ Galileo</b>



2.3.3 G818: Display Badge Tracker /Name Card



	G818G	G818N	G818L
Size / Weight	100 x 57 x 10mm/500g		
IOT	4G Cat.1	NB IoT	LoRa
Location	GPS / Glonass / Beidou/ Galileo +WIFI + BLE+ LBS		
Sensor	G-Senor (motion detection)		
SIM Card	Nano SIM inside		NO
BLE	BLE 5.1		
Battery / Charger	1000mAh / Magnetic Charging in the bottom side		
LCD	1.54 inch 240X240 Dots IPS TFT LED		
LED	2 LEDs (R ED/ BLUE)		
KEY	3 keys		
Waterproof	IP67		
Phone cal	YES	NO	NO
RFID	Optional: 13.56MHz RFID		
Wear			

# 2.2.4 G906 Low Cost, small size Tracker, G908: Larger Battery Tracker

- a) Built-in NBloT module, and low-power Bluetooth SOC chip to achieve ultra-long standby
  - b) GPS/Glonass/WIFI/G-Sensor multi-location
  - c) BLE can achieve more accurate indoor Location
- also support BLE modes, such as BLE tracking with Smart Phone, Broadcast and Scan iBeacon
- a) Motion sensor determine the state and assist in positioning and optimizing power consumption.



	G906N	G906G	G908N	G908G
Size/Weight	41 x 41 x 13 mm /21g		125 x 85 x 50mm /360g	
IOT	NBloT	4G Cat.1	NBloT	4G Cat.1
Location	GPS + Glonass + WIFI + BLE+ LBS			
Sensor	G-Sensor(Motion Detection, Pedometer)			
SIM Card	Nano SIM			
Bluetooth	BLE5.0 (Support Broadcasting, scan Beacon, connect to Phone and Host BT devices )			
Battery/charging	450mAh		3*18650 Battery =6000mAh	
Keypad	Micro USB		Pogo Pin Magnetic charging	
LED	2 LED (RED and Blue)		2 LED (RED and Blue)	
KEYS	1 KEY ( or No )		2 KEYS	
Waterproof	NO		IP67	
Speaker	NO		NO ( Optional )	
Optional	Standard Package: lanyard, blue Cover. Optional: pet cover, strap		Lock screws, straps, reserved magnets	

## 2.2.5 G628: Badge Tracker / G626: UV badge

The Badge Tracker is ultra-thin, compact, light and waterproof. Traditional way of wearing pin.

Available in 4G Cat.1, NBloT and single Bluetooth version

- Ultra Low Power 4G Cat.1 module, and low-power Bluetooth SOC chip to achieve ultra-long standby
- BLE can achieve more accurate indoor Location  
also support BLE tracking with Smart Phone, Broadcast and Scan iBeacon
- Motion sensor determine the state and assist in positioning and optimizing power consumption
- G628: Optional 13.56MHz RFID (M1 card or CPU card)



G628 Standard Package



Optional : Velcro

	G628G	G626G
Diameter	50mm	45mm
Height	8mm	6.5mm
Weight	19 g	10 g
IOT	4G Cat.1 bis	4G Cat.1 bis
SIM	5*6mm Chip SMT card	
Location	GPS / Glonass / Galileo + WiFi+ BLE	BLE5.1+Wifi
Sensor	G-Sensor (Motion Detection, pedometer)	
UV	NO	YES
BLE	BLE5.1	
Battery	450mAh Li-ion	70mAh
Charger	Magnetic Charger	Magnetic Charger
LED	2 ↑LED (RED / BLUE)	
KEY	1 KEY	
Waterproof	IPX5	
RFID	Optional 13.56MHz RFID	NO
Install	Default pin (can also use velcro)	
Application	Badge Tracker	UV

G626: UV Sensor badge

## 2.2.6 G618 : Helmet Tracker / Pet's Tracker

The helmet module is atmospheric, thin and easy to wear, and can be matched with any type of helmet.

4G Cat.1, Cat.M(eMTC), LoRa, LoRaWAN, UWB, or BLE version Available

It is widely used in personnel positioning and safety management of smart construction sites, various factories and port areas

- Low Power Cat.1 or LoRaWANmodule, and low-power Bluetooth SOC chip to achieve ultra-long standby
- GPS/Glonass/WIFI/G-Sensor multi-location.
- BLE can achieve more accurate indoor Location.  
support BLE tracking with Smart Phone, Broadcast and Scan iBeacon
- Motion sensor determine the state and assist in positioning and optimizing power consumption
- Built-in 600mAh Li-ion battery for convenient Magnetic charging.
- 2 \* RGB LED light bar

	G618GU	G618G	G618M	G618L	G618LU
Size/Weight	44 x 27 x 18mm / 25g				
IOT	Cat.1+UWB	4G Cat.1	Cat.M/LTEM	LoRaWAN	UWB+LoRaWAN
Installation	2 Kind of install				
Location	UWB+GPS+LBS+BLE	GPS + Wifi +LBS + BLE		GPS+BLE	GPS+BLE+UWB
Sensor	3D G-Sensor (support Prod meter and Motion Detection)				
SIM Card	Chip SIM 5*6mm			No need	
Bluetooth	BLE5.1				
Battery /Charging	600mAh Li-Ion Battery / Magnetic Charger				
LED	2* RGB LEDs Light bar				
KEYPAD	No Key in Tracker ( One Key in the Charger Cable)				
	Hang				



Hang on the back of the helmet;

Stick to the shell of the helmet;

Hang on the brim of the h

## 2.2.6 G618 : Pet's Tracker / Helmet Tracker

The Pet's Tracker small size thin and easy to wear, and suitable all kinds of Pets.

4G Cat.1, Cat.M(eMTC), or BLE version Available (Pet's Tracker don't need LoRaWAN and UWB)

It is widely used in pet's positioning and safety management of smart construction sites, various factories and port areas

- Low Power 4G Cat.1 bis module, and low-power Bluetooth SOC chip to achieve ultra-long standby
- GPS/Glonass/WIFI/G-Sensor multi-location.
- BLE can achieve more accurate indoor Location. support BLE tracking with Smart Phone, Broadcast and Scan iBeacon
- Motion sensor determine the state and assist in positioning and optimizing power consumption
- Built-in 600mAh Li-ion battery for convenient Magnetic charging.
- 2 \* RGB LED light bar

	G618G	G618M
Size/Weight	44 x 27 x 18mm / 25g	
IOT	4G Cat.1	Cat.M/LTEM
Installation	Suitable for all kind of Pet's Collar	
Location	GPS + Wifi +LBS + BLE	
Sensor	3D G-Sensor (support Prod meter and Motion Detection)	
SIM Card	Chip SIM 5*6mm	
Bluetooth	BLE5.1	
Battery /Charging	600mAh Li-Ion Battery / Magnetic Charger	
LED	2* RGB LEDs Light bar	
KEYPAD	No Key in Tracker ( One Key in the Charger Cable)	
Waterproof	IPX6	





## 2.2.6 G608 : Wristband / Pet's Tracker(with Health data)

The device small size, light and easy to use. Can use in Pet's Tracker , or Wristband

4G Cat.1, LoRaWAN, or BLE version Available ( can customize with Cat.M(eMTC) version )

- Low Power 4G Cat.1 bis module, and low-power Bluetooth SOC chip to achieve ultra-long standby
- GPS/Glonass/WIFI/G-Sensor multi-location.
- BLE can achieve more accurate indoor Location. Support BLE tracking with Smart Phone, Broadcast and Scan iBeacon
- Motion sensor determine the state and assist in positioning and optimizing power consumption
- Built-in 600mAh Li-ion battery for convenient Magnetic charging. 2 \* RGB LED light, Buzzer inside for sound alarm
- Heart Rate, SPO2, Blood pressure , body temperature, Sleep Monitor and Prodmeter
- 22mm standard Strap. Can choode **Velcro strap, or standard Strap.**

	G608G	G608L
Size/Weight	51.8 x 30 x 16.5mm / 30克	
IOT	4G Cat.1	LoRaWAN
Strap	22mm Stardard Strap	
Location	GPS + Wifi +LBS + BLE	
Sensor	3D G-Sensor (support Prod meter and Motion Detection)	
SIM Card	2x2mm Chip SIM	NO Need
Bluetooth	BLE5.1	
Battery /Charging	600mAh Li-Ion Battery / Magnetic Charger	
LED	2* RGB LEDs Light bar	
Buzzer	YES	
KEYPAD	1 Side Key	
Waterproof	IP67	



## 2.2.6 G608 : Pet's Tracker ( Camera version of G608GC, coming soon...)

The device small size, light and easy to use. Can use in Pet's Tracker , or Wristband

4G Cat.1, or BLE version Available (Pet's Tracker don't need LoRaWAN), can customize with Cat.M(eMTC) version.

- Low Power 4G Cat.1 bis module, and low-power Bluetooth SOC chip to achieve ultra-long standby
- GPS/Glonass/WIFI/G-Sensor multi-location.
- BLE can achieve more accurate indoor Location. Support BLE tracking with Smart Phone, Broadcast and Scan iBeacon
- Motion sensor determine the state and assist in positioning and optimizing power consumption
- Built-in 600mAh Li-ion battery for convenient Magnetic charging. 2 \* RGB LED light, Buzzer inside for sound alarm
- Heart Rate, SPO2, Blood pressure , body temperature, Sleep Monitor and Prodmeter
- 22mm standard Collar, default with **Velcro Collar**.

	G608G	G618M	G608GC
Size/Weight	51.8 x 30 x 16.5mm / 30g		
IOT	4G Cat.1	Cat.M/LTEM	4G Cat.1
Installation	Suitable for all kind of Pet's Collar		
Location	GPS + Wifi +LBS + BLE		
Sensor	3D G-Sensor (support Prod meter and Motion Detection)		
SIM Card	Chip SIM 2*2mm		
Bluetooth	BLE5.1		
Battery /Charging	600mAh Li-Ion Battery / Magnetic Charger		
LED	2* RGB LEDs Light bar		
Buzzer	YES		No, with 30M Camera
KEYPAD	1 Side Key		
Waterproof	IPX7		



# 2.2.7 G638: Pets Tracker

G638G: 4G Cat.1: Suitable for China mainland, Asia, Europe, etc  
G638M: Cat.M(eMTC)+NBIoT: USA, Canada, Japan, Australia, New Zealand, Europe, etc

- Muti-Mode Location (GPS / Glonass / Beidou/ Galileo +WIFI+BLE+ Motion Sensor)
- Ultra-Low Power BLE SOC and Low Power 5G, longer standby and use time
- BLE5.1 connect Smart Phone- Bluetooth travel mode; Safe area (home WIFI, park often visited, etc.) to ensure longer use time
- IP67 Waterproof, 600mAh battery, Magnetic Charging
- 2\* RGB LEDs Light bar, Buzzer inside
- Size / Weight: 62 X 28 X 16.5mm / 30g



**NEW**

**Track. Protect. Care.**

Introducing Petcube Tracker:  
smart GPS pet location & activity gadget

**\$39.99**

**BUY NOW**

LIMITED STOCK. PETCUBERS ONLY.

**NEW**

**Track. Protect. Care.**

Introducing Petcube Tracker:  
smart GPS pet location  
& activity gadget

**\$39.99**

**BUY NOW**

LIMITED STOCK. PETCUBERS ONLY.

**Why Petcube GPS Tracker?**

- ✓ LED guide and notifications
- ✓ Petcube devices ecosystem controlled with a unified app
- ✓ Compact & lightweight: smaller than other trackers
- ✓ Built-in beeper for sound alerts
- ✓ Glow in the dark smart silicon case
- ✓ Extended battery life and dynamic control over charge consumption

10 million pets (every third in their lifetime) get lost or stolen yearly in the US.  
**Stay in the know.**

**Other features you don't want to miss out**

- Flexible silicon case**  
Compact lightweight Tracker mounts on any type of collar or harness with stretchy silicon loops
- Durable waterproof design**  
Built certified IP67 for durability and water resistance
- Built-in Vet Online chat**  
Consult with licensed veterinarian on any health or behavior issue from the app

## 2.2.8 G398 Falling Detect Alarm Tracker

Falling Detect misunderstanding 1: Can Wristband and watch detect falling?

devices

Fall alarm misunderstanding 2: There are fall alarm wristbands on the market.

Sensor

Why can't the elderly and children fall detection on the Wristband?  
button disputes

1. Fall detection requires multiple sensors such as accelerometers and gyroscopes, plus complex algorithms and model judgments. Gyroscopes require large power consumption. For low power consumption, wristbands often do not have gyroscopes.
2. 2. Since the normal movement of the wrist cannot be distinguished from the falling model, the judgment of the fall on the bracelet/watch is currently difficult
3. 3. The bracelet/watch is relying on the accelerometer to work at heights, and the judgment of free landing is ok

### G398's Fall Alarm Judgment Plan

1. G398 waist wear fall alarm built-in gyroscope and acceleration sensor, the locator has partial fall algorithm
2. The raw data of gyroscope and acceleration are transmitted to the background in real time, and the server uses AI to do secondary algorithms to achieve relatively accurate fall judgment

Answer: Wristband and watch cannot accurately detect falling.

Reason: There are many types of falling models , not easy for detect in wrist wearable

Answer: Yes, there are fall alarm wristbands. The solutions are simple alarms that the G exceeds a certain range, and the screen displays to warning whether to press the SOS  
**Too many false alarm annoying Person; while true falling not detect will cause**

Size/Weight	67x53x18mm 50克
IOT	GPRS (/900/1800M )
Bluetooth	BLE
Location	GPS/Glonass/WIFI/LBS
Sensor	Gyro and G-Sensor
SIM Card	Nano SIM
Voice Call	YES
Battery	800mAh Li-ion Battery
Charging	Micro USB
Standby time	7Days
LED	2 LEDs
KEYPAD	2 KEY ( RED + KEY and Side Key )
Waterproof	NO
Installation	Belt vest
Optional	Active SOS alarm + passive fall alarm

智慧养老 安全卫士

398贴心保 智能穿戴设备



智能跌倒判断

判断精确率高达98%

1秒即可完成跌倒判断

采用深度算法+融合判断

基于数据 -

126个动作分类，每秒采集100组身体的姿态数据，累计获取10万+的跌倒数据

MINI

体积更小

重量更轻

适老化设计

佩戴舒适更轻薄

精选材质更环保

简单操作更易用

尺寸小巧，不足一个手机的1/3

重量轻盈，相当于一颗鸡蛋

适老化设计，单一按键

无需学习，开机即用

由德国红点奖获得者设计外观

GPS

基站

A-GPS

北斗

双重卫星+基站，覆盖全球定位，无论城市农村、室内室外，同时快速接受信号，比普通系统精准1倍。

WiFi

云计算

轨迹

客服确认

WI-FI辅助，根据环境自动切换，误差50米以内，快速传送数据，定位更及时。

历史轨迹回放，老人防丢，客服语音确认，保障急救时效，关键时刻不失联。



## 2.2.9 G810: AAA Battery Luggage Tracker / One-Button Alarm

The Tracker is small and light. Available version: NBloT Tracker, One Button Alarm or Single BLE

- NBloT module, and low-power Bluetooth SOC chip to achieve ultra-long standby
- Removable AAA Battery
- Large SOS Button
- GPS/Glonass/WIFI/G-Sensor multi-location
- BLE can achieve more accurate indoor Location  
also support BLE tracking with Smart Phone, Broadcast and Scan iBeacon
- Motion sensor determine the state and assist in positioning and optimizing power consumption
- Built-in light sensor can judge the surrounding environment to optimize power consumption



Available version ( ● : YES; ○ : NO)

Special version can be customized according to the purchase

Size/Weight	59 x 33 x 16.5mm / 38g
Color	White
Installation	Lanyard hole or adhesive sticker
IOT Mode	NBloT (800/850/900/1800M )
Location	GPS / Glonass / Beidou/ Galileo +WIFI+BLE
Sensor	G-Sensor (Motion Detect) Light Sensor
SIM Card	Nano SIM
Bluetooth	BLE 4.2
Battery	2 X AAA Battery , easily change
Charging	Don't need
LED	2 LEDs (RED and Blue)
Keypad	1 Large Key ( SOS and PWR_ON/OFF)
Waterproof	NO

	Function	IOT	BLE	GPS/Glonass	WIFI	SOS	G-Sensor	Light Sensor	Application
G810A	Tracker	NBloT	●	●	●	●	●	●	Luggage Tracker, Personnel and Asset Tracker
10B	Alarm	NBloT	●	○	●	●	●	○	One Button Alarm

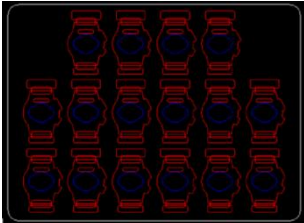


## 2.3 Charging suitcase: for wristband and watch

There are large, small and medium versions of the charging case;

The length and width are different, but the height is the same

Suitable for B2315 , W200P/W300, B5515 and other wrisband and watch



	Spec	Big Size Version	Small Size version
Outlook Spec.	Size	520 x 480 x 175 mm	39.5 X 32 X 17cm
	Weight	8.5kg (not include Cable)	3.8kg(not include Cable)
	Color	Black	
	Material	Aluminum alloy frame EVA insulation	
Ele. Spec.	Power	Default 220V （also support other country's power）	
	Charger Voltage	5V / 1A （Each route has a separate charging chip: Ensure minimal ripple control of 5V charging voltage and charging current<=1A)	
	Overcurrent protection	Support （Built in fuse）	
	Charging Interface	Magnetic Charger	
Charging Interface	W200/W300	32pcs	16 pcs
	B2315	50pcs	24pcs
	B601	50pcs	24pcs
	B5515	16pcs	9pcs
Customiz e	Logo	Customizable Logo (delivery time for customized logos may be longer)	
	Power supply	Default Chinese Mainland, customized for Hong Kong, Europe, the United States, etc	

## 2.3、Smart charging storage cabinet (suitable for wristband, watch, Badge and other devices)

Construction:

Mining and factories:

Arm and Police:

Gym, school, etc.

### Specification:

Size:	1700mm*1130mm*300mm(H*W*D)
Display:	10.1 inch Capacitive touch all-in-one machine ,
OS:	Android 11.0
Camera:	200w Pixel facial recognition camera
RFID Reader:	Support ID/IC card
Speaker:	8W
Login method:	Face/swipe card/scan code/collect code login
Number of compartments:	40 cabinet doors. Transparent cabinet door design allows you to see the items inside
Current and Voltage:	Current/Power Monitoring
Charging:	The USB port can be connected to any charging cable
Overall power:	5V/2A each Port (350W when fully charged)
Power input:	100-240VAC, 50/60HZ (input)
Net weight:	70KG Cabinet door configuration: electronic lock
Machine color:	Blue+White (customizable color)
Network:	WIFI/Ethernet as standard, 4G module optional
Mobile docking:	Mini program
Single machine mode:	Single machine mode can be used directly without connecting to the network to sta
Support docking:	Supports API interfaces



## 2.4 LoRaWAN Gateway



RHF2S027M



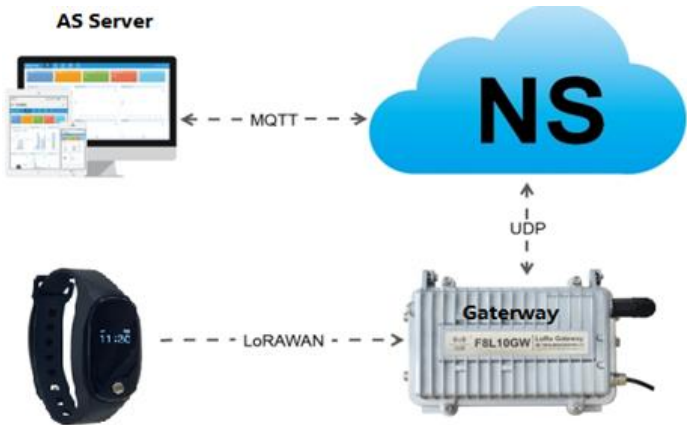
RHF2S025



RHF2S028



NS-PC



LoRaWAN chirpstack开源构架

RHF2S027M	Indoor LoRaWAN Gateway , 8 RX Channel/1 TX Channel(half Duplex) , LAN, WIFI	White
RHF2S025	Industrial Gateway , 8 RX /1 TX Channel(half Duplex) , LAN, WIFI and LTE 4G Optional: upgrade to full duplex, Simultaneous Receiving and Transmitting, )	Black
RHF2S028	Telecommunication Level, Outdoor and Waterproof LoRaWAN Gateway , 8 RX Channel/1 TX Channel(half Duplex) , LAN, WIFI and LTE 4G 1. Optional: upgrade to full duplex, Simultaneous Receiving and Transmitting, 2. Optional inside 9.6V-3200mAh lithium iron phosphate battery, work 6-8Hours	Grey
NS-PC	Mini PC (16G+512G)+LoRaWAN NS. Optional: Oviphone's Application Server + WEB Application	Black

1. Oviphone devices, can work with any LoRaWAN Gateway
2. LoRaWAN Network Server(NS) , Normally use Chirpstack Open source architecture construction
3. User can setup NS. Or Oviphone setup up with remote (for payment)
4. AS Server: Application Server

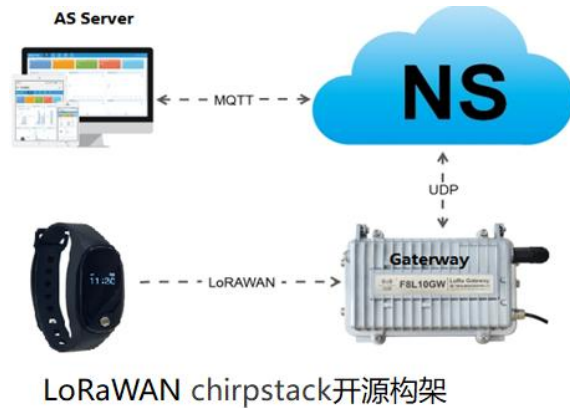
NS-PC : Oviphone provide Mini-PC with NS inside.

Optional: offer the Application Server + WEB

## 2.4 LoRa Gateway (Mainly use in China Mainland)



LG620	Indoor LoRa(or LoRaWAN) Gateway - Plastic Cover, 8 Channel Rx/1 Channel Tx ( half Duplex ) POE LAN + 4G LTE, RS485 Interface. Power Supplier: Type C 5V, or POE (12V, support 9~36V)	White
LG610	Indoor LoRas (or LoRaWAN) Gateway- Metal Cove, 8 Channel Rx/1 Channel Tx ( half Duplex ), LAN+4G LTE, Power Supplier: DC ( 12V, Spoort 9-36V) <b>LoRa Private, Support RS485, or Bluetooth BLE</b>	Black
LG600 LG601	Outdoor LoRa ( LoRaWAN ) Gateway, IP67, POE LAN+4G, GL600: 8 Channel Rx/1 Channel Tx ( half Duplex ) , GL601: 8 Channel Rx/1 Channel Tx ( Full Duplex ) , GNSS : GPS, GLONASS, Galileo, BeiDou, LBS	Grey



## I、Oviphone LoRaWAN devices, can work with any LoRaWAN Gateway

- a. LoRaWAN NS:
  - LoRa NS connect to Public Network: can use TTN
  - Internal Network, can use Chirpstack V4
- b. Oviphone can help to setup up with remote (for payment)
- c. NS Server: Application Server

## II、LoRa Private, can no NS Server

- a. Oviphone LoRa Private Devices, need special LoRa Gateway
- b. Oviphone LoRa Gateway, can work for RS485. or BLE, transmit Date to Mobile Phone or PC  
( can be used for portable mobile applications, similar to wilderness hiking, military physical training and other scenarios )
- c. Message send (broadcast , single , Group etc), and

## 2.4 Bluetooth Gateway

If BLE devices > 8, and the coverage area >50m^2

-----Please choose a professional Bluetooth gateway (supports a large number of concurrent connections and higher power)

- 1. Deployment is more complicated, requiring a LAN cable or WiFi connection
- 2. Need to connect to power (can be done through POE network cable)



Indoor GW: BG602-P  
GC305

Outdoor GW-BG602-M

BLE AoA GW:



G805

BG601

BG602-P	Bluetooth Gateway	Indoor Gateway, ABS+PC Housing: BLE5.0+POE LAN +WiFi ( Optional +4G version - BG602-PC )
BG602-M		Outdoor Gateway, metal IP67 waterproof Housing : BLE5.0+LAN +WiFi ( Optional +4G version-BG602-MC)
GC305	AoA Gateway	Indoor -BLE5.1 AoA Gateway, POE or DC5V 1A

G805G	Easy Bluetooth Gateway	BLE5.0+4G Cat.1+1000mAh Battery + USB charging
G805B*		BLE5.0+NBIoT +1000mAh Battery + USB charging
BG601		BLE5.0+4G Cat.1+Wifi +3000mAh +Type C

If BLE devices <=8, and the coverage < 50m^2

----- Also Recommend to use easy Gateway G805

- 1. 1000mAh rechargeable Battery inside. Can continue work 3 weeks
- 2. And also can connect to 5V Power supplier
- 3. If daily scanning 1 time, and transmit the with 4G, can work >3 months.



## 2.4 Bluetooth(BLE) Beacon

Spec.	OV01 Square beacon ; OV02/OV04-Round beacon	OV03-Waterproof and explosion-proof
BLE version	BLE4.2/5.0	BLE4.2/5.0
Size/weight	OV01: 80mm×36mm×18mm / 45g(with Battery) OV02: 54mm×54mm×25mm / 30g(with Battery)	120mm×120mm×24mm / 180g(含电池)
Color	White	Yellow
Battery	OV01: Lithium argon Battery 2600mAh (ER14505*1) OV02: Lithium argon Battery 1200mAh (ER14250*1) OV04: Lithium argon Battery 2400mAh (ER14250*2)	Lithium argon Battery 2600mAh ( ER14505; 2600mAh )
Standby time	OV01: 4 Years; OV02: 3 years; OV04: 5 Years ( 500ms TX interval, 0dB Tx Power )	5 Years (500ms TX interval, 0dB Tx Power)
Installation	3M adhesive tape; Screw	3M adhesive tape, or Screw
Waterproof	Default IP65; ( can IP67 with Order)	IP67
Work Temp.	-20°C ~ 70°C	-20°C ~ 70°C
Frequency	2.4 GHz Bluetooth	2.4 GHz Bluetooth
Default. TX	Max +2dBm ( @3.3V )	Max +2dBm ( @3.3V )
Sensitivity	-96dBm	-96dBm
TX interval	100ms~10 s	100ms~10s
TX power	-21dB ~ 5dB	-21dB ~ 5dB
Voltage	3.6 V	3.6 V
Sleep Current	< 1uA (Typ)	< 1uA (Typ)



## OV125

Spec.	OV125: Dual antenna 125KHz low frequency activator
Frequency	125KHz
Distance	1.5-3 meters ( Can be enhanced by shortening the antenna feeder )
Recognition	Recognize more than 500 labels at the same time
Speed	100ms
Anti-interference	Multiple devices do not interfere with each other
Safety	Plus code verification
Power Supply	220V to 12V Adaptor include
Size	253×250×100mm , 加2个10米长天线馈线
Installation	Under the ground, or on the door frame, etc.

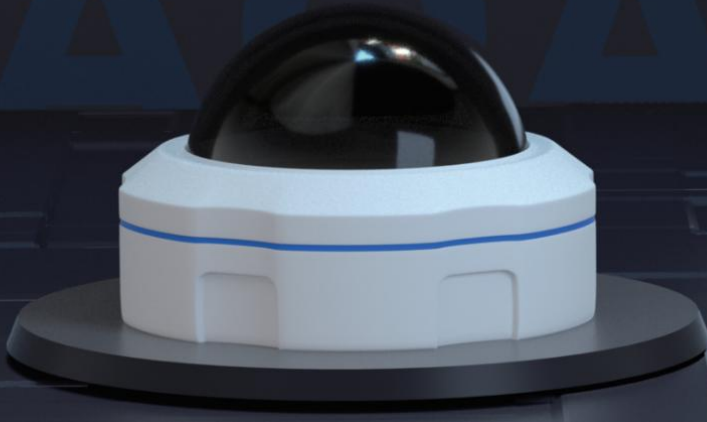
Application

Actively emit continuous low-frequency pulses, supporting 125KHz tags (bands and badges, etc.) for low-frequency continuous reception. When an activation signal is received, the built-in low-frequency chip in the tag can resolve the activator number and RSSI field strength value

Photo



## 2.4 UWB AoA Single Gateway: U1000-C2



# UWB-AOA 单站高精定位系统

UWB- AOA SINGLE BASE STATION

高精单站

便捷部署



Items	Specification
UWB Tech.	UWB AOA 360°
Frequency	CH2, CH5
Power Supplier	12V, POE LAN
Recognition	≥200 Devices
Misreading rate	0
Positioning frequency	Maximmu 50Hz （Recommmed 1Hz）
positioning accuracy/Delay	10cm+ / <500 mS
Single Gateway Coverage	>30 meters / Maximum Coverage 2000 m^2 (Open Space),
Working Device	W300GU, G808GU (4G or LoRaWAN + UWB+BLE+GPS)

## 2.4 UWB Gateway U1000-C1



U1000-C1: It is a long-distance one-dimensional ranging base station, matched with 2 FRP antennas (can determine the direction)  
It can be applied to tunnels, pipe corridors, agricultural greenhouses and other scenarios

Items	Specification
Size/Weight	210mm*130mm*60mm / 1.2KG （Not include the Cable and Antenna）
Antenna	Two fiberglass antennas
Work Environment	Working Temperature：-20℃～70℃；Storage Temperature：-40℃～70℃； Operating humidity：≤95%（25℃）；：80KPa～106KPa；
UWB technology	TOF，TDOA
Waterproof	IP66
Band-Frequncy	CH2
Power Supplier	12~24V，POE LAN
Recognition	≥180
positioning accuracy	Max. 50/S （recommend 1Hz）
Positioning frequency	< 30cm
Positioning Delay	< 500mS
Coverage	400 meters one direction, 2 direction 800meter （Also depends on the performance of Tag）
Working devices	G808GU - Badge，W300U-Smart Watch

## 2.3 UB01-UWB Beacon (Ubeacon)

### and light alarm)

UB01 Ubeacon use SOC MK8000EL28EG UWB chipset

For high-precision and low-cost positioning, it features UWB free base stations, zero wiring, and easy deployment. Featuring a positioning accuracy of  $\pm 5$  centimeters and supporting a data rate of up to 27.2Mbps.

#### Features

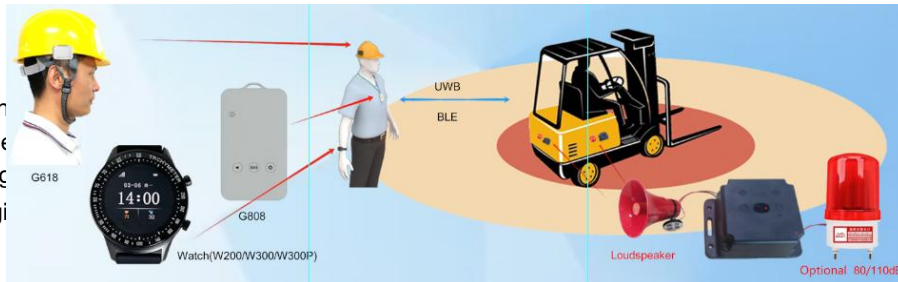
- ◆ Battery life can reach 10 years
- ◆ Do not need UWB Gateway, easy to deploy
- ◆ Positioning accuracy  $\pm 5\text{cm}$
- ◆ Omni-directional detection distance 80m
- ◆ Max transmission rate 27.2Mbps
- ◆ Supports multi-Devices
- ◆ Compatible with IEEE802.15.4-2011 UWB Standard

#### Specification

- ◆ Chipset: MK8000EL28EGG
- ◆ MCU: Cortex-M0
- ◆ Frequency: 6.2GHz-8.7GHz
- ◆ Band: 5, 9
- ◆ Accuracy:  $\pm 5\text{cm}$ , Normal 20-50cm
- ◆ Distance: 50meters, Normal 30m
- ◆ If there are obstacles in the line of sight will have a significant impact orientation, avoid front top facing labels
- ◆ Sleep Current:  $<10\mu\text{A}$
- ◆ Votage: 3.6V
- ◆ Rx Current:  $<43\text{mA}$
- ◆ Tx Current:  $<43\text{mA}$
- ◆ Battery: 38Ah(38000mAh)
- ◆ Battery Life: 10 Years
- ◆ Tempture:  $-30^\circ\text{C}$  to  $70^\circ\text{C}$
- ◆ Size: 153x91x55(mm)

#### Application

- ◆ Wireless wiring, no need for power supply, easy to deploy, high-precision UWB positioning paired with smart watches, badges, helmets, etc
- ◆ Applied in fields such as chemical engineering, coal mining, construction, industry, smart logistics, smart power plants, smart parks, etc



## G908GU+Alarm (sound

G908GU-T : UWB Broadcasting. Working with Smart Watch/Badge/Helmet Tracker

G908GU-R : UWB Scanning. Working with UWB Beacon-UB01

#### Features:

- 4G (or LoRa/LoRaWAN)+UWB+GPS+BLE5.1+Wifi Location
- ◆ Ultra Low Power, Cortex M4 RTOS + 4G Cat.1 bis. IP67, High strength industrial shell design
- ◆ 6000mAh battery (3X18650 Industry Battery), Magnetic Charging
- ◆ High decibel, high brightness sound and light alarm

**G908GU-T : Distance measurement alarm for human and vehicle collision**

Application: Chemical industry, Mining, Construction, Industry, Logistics, Power plants, Parks

etc. Human and vehicle approach alarm, Crane approaching alarm, danger zone

alarm, entrance alarm, etc

Workflow: Staff wearing Smart watch, Badge or Helmet Tracker, approaching a certain

distance with 908GU, Smartwatch vibrates and voicewarning,

G908GU sound and

light alarm. Watch and G908GU both transmit the alarm information to

server

with 4G or LoRaWAN

Solution 1: UWB technology, accuracy



## 2.5 Medical: CGM(continue glucose Measurement) Serials Devices

- 1. The traditional Abbott comfort  
The NFC reader is offline, Need the handheld to be close to the collection
- 2. Abbott + "Miao Miao" = real-time collection and transmission Transfer to mobile APP
- 3. Smart watch + Bluetooth connection Real-time display and monitoring of alarms, transmission background



**喵喵**  
雅培瞬感动态血糖实时远程报警神器!



### 完美24小时实时血糖监控

喵喵采用蓝牙4.0，手机放在口袋、背包、隔着厚的衣物，都能保证和手机的连接稳定可靠，不丢失探头的血糖数据！



### 小尺寸、更轻薄

喵喵尺寸为 38 mm (长) X 30mm (宽) X 7.5mm (厚)，接近动态探头大小，重量8克，佩戴没有异物感。底部靠皮肤一侧采用透气性设计，配合医用级无纺布防过敏双面胶贴，佩戴更安全！





# 2.5 Medical: CGM(continue glucose Measurement) Serials Devices

The only China CGM have FDA and certification CFDA

- 1. Transmitter (continuously collect blood sugar and transmit to the receiver via Bluetooth Low Energy BLE); the Sensor on the transmitter has a cycle of 2 weeks
- 2. Receiver power consumption Bluetooth BLE collects transmitter data, Transfer to the background via low-power NBloT
- 3. The smart Wristband can also be used as a receiver

Wearable



NBLoT GSM



蓝牙连接你的医疗设备  
同步记录你的健康数据..



完美24小时实时血糖监控

喵喵采用蓝牙4.0, 手机放在口袋、背包、隔着厚的衣物, 都能保证和手机的连接稳定可靠, 不丢失探头的血糖数据!





Back

## 2.5.5 Accessory Products: 13.56MHz RFID TAG, and READER

- Products with RFID tags: B2315 series Wristband, G628 and G805 series Badge Tracker, etc
- At present, it can support RFID of the general protocol 14433, and you can choose NFC TAG, M1 card or CPU card
- Customers can also provide tags according to the size of the RFID

Protocol	TAG	Chipset	Applicati on	encryption	NFC Phone	Write	Features
13.56M 14433 (7-15cm)  Used as electronic ticket, electronic ID card, electronic lock and anti-theft (electronic remote control door lock controller), etc.	NFC Tag	NXP NTAG213_215_216	business cards, pairing, NFC access card		Can read		Low Cost  Access control, Door Key
	M1-IC	FM11RF08		easy to crack, not suitable for Payment	Can read	Can written With Special devices	Membership card, ID Card, etc
	CPU Card	Fudan Micro FM1208  HYM4616	Payment	difficult to crack, suitable for Payment	Can read	Need to be initialized Format to write	The card is more expensive. Metro bus, consumer system Payment card,
13.56M 15693  (<1meter)			Access control attendanc e appraisal patrol	NO			Access control, attendance assessment, etc. ,Most of the access cards used by many companies now use this type of standard

	OV5203 Reader/Write	OV750A NFC Reader
Protocol	ISO14443A和ISO15693协议 (M1, CPU, NFC Tag)	ISO14443A协议 (M1, CPU, NFC Tag)
Frequency	13.56Mhz	13.56Mhz
Interface	USB plug auto install. configured through software)	
Voltage	USB DC 5V , 100mA	USB DC 5V, 120mA
Size	105x70x10mm	105×70×12mm
Read/Write	Read/Write	Read
UI	LED (RED and BLUE) and SPEAKER	
Support card	ISO14443A: Mifare S50/70, Ultralight /Ultralight C /Ultralight EV1, NTAG21x; ISO15693: I code sli/I code slx/I code slx2; TI tag-it HF plus/TI tag-it HF pro/tag-it HF standard	ISO14443A: Mifare S50/70、 NTAG203、 NTAG210、 NTAG212、 NTAG213、 NTAG215、 NTAG216
Distance	1-10cm	
Erase life	Unlimited times	
Application	NFC mobile phone, Payment, ID Card, access control, e-commerce, etc.	
System	Windows 98/2000/NT/XP/Vista/7/8/Win10	
Develop	VC、C#、BC、DELPHI、PB、VB、VB、.NET	
SDK version	Freely available: Chinese SDK development kit, English SDK development kit	
Photo		

### 3. Server Platform, Mobile Application (APP/APK) and

#### Interface Mobile Application (APP/APK)

APP/APK Please search for "Aiday" in major mobile app stores; or scan the QR code on the right

You can also download this link: <http://app.aiday.com.cn:8090/>

"Google Maps" version for Out of China mainland Android phones  
the IOS version for Apple phones ; "Baidu Map" version in China Android phones

#### 2. Server Platform (Trial account: aidaytest password:123456)

a. Out of China Mainland User : Google Map vesion: <http://www.smtwatch.com:8165/>

Platform support : English, Spanish , Russian, Simplified Chinese, Traditional Chinese

a. China Main land User, please use Gaode Map version: <http://www.aiday.com.cn/en>  
https Login: <https://aiday.com.cn:8445/#/login?redirect=%2F>  
IP Address Login: <http://118.178.184.219/#/login>

#### 3. Devices and Platform Date interface

Free docking of device data to third-party platforms, please check: <https://www.oviphone.cn/en/DocPoto/>

#### Notes:

I. Oviphone Application Server default use the Aliyun Cloud. Also have experience with Azure Cloud.

II. LoRa设备还需要NS服务器 (NS Server-LoRa Gateway Network Management Server)

i) 服务器 硬件配置: CPU 4G 8Core+RAM 8G (或以上 or Above)

ii) 我们采用Chirpstack 开源构架, 需要如下环境软件和应用软件

Linux server ( use ubuntu 20) 操作系统, 会安装如下开源的应用:

MQTT Server (mosquitto) mqtt 服务器 用于NS服务器接收网关发布的消息

Redis server (over redis 5) 用于配套mqtt 临时转存数据

gateway-bridge Gateway (网关用于配置发布的主题的读写策略)

Network-server (网络服务器 添加写数据库账号及读写策略)

Chirpstack-Application-server (网关应用服务器)

iii) 数据库Sqlserver2012 (can reuse above 1.2 C共用如上1.2的云数据库 )

APP  
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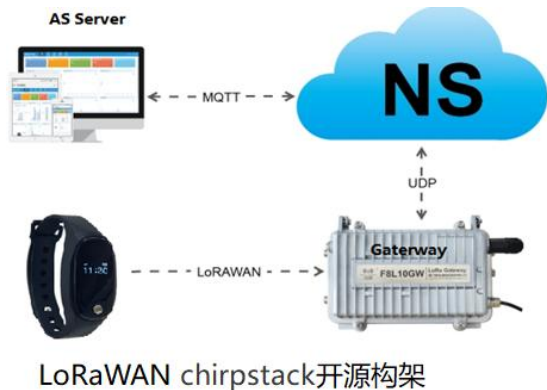


APP下载  
扫一扫

Wechat  
APP

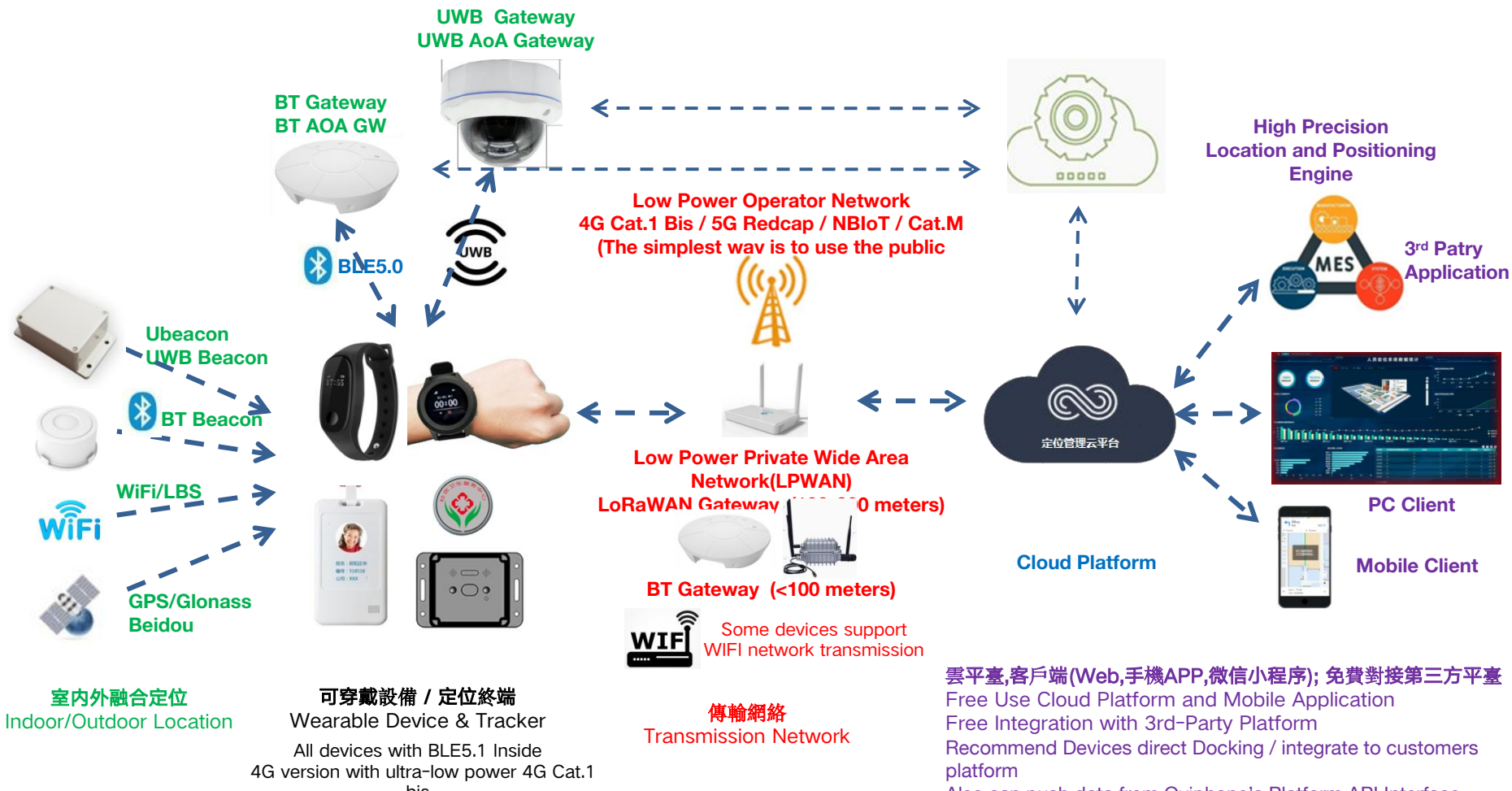


Wechat



# 4. Low-Cost, Low-Power. Indoor and Outdoor Location

--- Support UWB (UWB Beacon and UWB Gateway) ; Scan Beacon; BT AoA Gateway; GPS +WIFI +LBS location



## 4.1 Compare with traditional indoor positioning mode (Bluetooth gateway)

- Oviphone wearable and Asset Tracker with BLE inside : support the traditional Bluetooth gateway mode (or AOA precision positioning), and the Bluetooth link mobile phone mode
- But for the Personal tracker, do not need high precision Asset tracker, do not require a second-level frequency. We are recommend low-cost solutions  
Have the advantage, such as no deployment, low-cost solutions (also provide solutions that allow customers to experience second-level positioning effects)
- Oviphone also has smart watch W200 with LoRa version. LoRa watch and more indoor and outdoor positioning technologies and solutions, please inquire Oviphone

	Scan iBeacon + NBloT/ Cat.1/ LoRaWAN Transmit: New Solution	BLE Broad cast + BLE Gateway: traditional indoor positioning Solution
Implementation	Easy construction, only install ibeacon	Need deploy BLE gateway difficult ( power supply and network)
Suitable scene	Can not be deployed with electricity or network, larger area	The deployment area is small and easy deployed, tags much, and the positioning frequency requirements are particularly high
Impact on existing sites	No impact (only iBeacon easy implenment)	Influence (need network connect the power supply)
Deployment Cost	Low, almost no	High
System implementation	Easy	Complex and difficult
Data docking and processing	Simple ( The data is base on unique IMEI of the device )	Very complicated (coverage Bluetooth gateways will get the same data at the same time)
Construction cost	Low	High
Tag Cost	High ( BLE+NBloT Device )	Low ( only BLE device )
Tag consumption	High (BLE Broadcasting and NBloT TX)	Low ( Only BLE Broadcasting )
positioning accuracy	1-5 meters	1-5 meters
Positioning frequency	Recommend minute-level (flexible configuration in the NBloT RX)	Can be very high (second level, but only fixed)
Features	SOS, G-Fence, History track Playback, Location	SOS, G-Fence, History track Playback, Location
Whether support	Can support GPS/Glonass and WIFI	Not Support ( only outdoor also implement Gateway )



## 4.2 Oviphone Platform DIY Indoor Location Application

According to the Application, indoor location have several mode:

1、 existing or 1D-Location

Scenario: entering and exiting specific areas; Count the duration of time in the region; Entry and exit door alarm;

Close to specific areas (hazardous materials), patrol attendance, etc

## II、2D-Location

Scenarios: Home, small elderly care institutions, factory workshops, etc., need to be

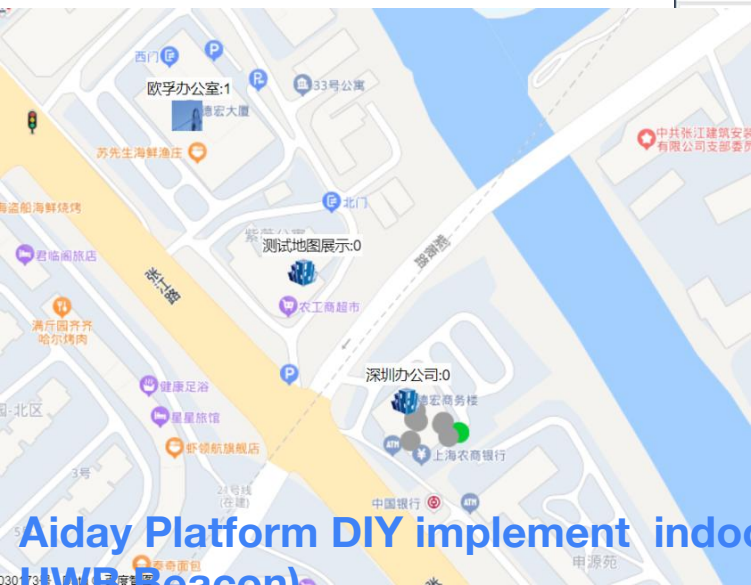
I and II, Oviphone innovatively provides free and user can configurable solutions

(scenarios and solutions are constantly being updated and optimized) Users can add scenes, indoor drawings, manage

perform statistical reports on the Web Application platform

### III、Project Mode Indoor Location: 3D or complex 2D (develop and implement base on specific drawings and projects)

- Only purchase Oviphone's Hardware devices (Tracker, Beacon or Gateway)
- Customer's Beacon, and let Oviphone to modify the Tracker firmware
- Provide total solution “ Device + Application + implementation” ( or just provide the Location Engine)



## Aiday Platform DIY implement indoor location (BT Beacon and

## 4.3 Application

# 安全報警(警報)系統 SAFETY AND SECURITY ALARM MONITOR SYSTEM

應用場景：化工，煤礦，建築，工業，物流，電廠，園區等領域。人車靠近報警，行車吊車靠近報警，危險區報警，進入門報警等需要報警的場景

業務模式：工作人員佩戴（智能手錶、安全帽定位模塊、或工牌），配合G908GU聲光報警器（安裝在設備或車輛上），

靠近一定設定距離後，手錶震動+語音提醒，G908GU聲光報警，手錶和G908GU把報警信息通過4G或LoRaWAN傳輸到後台

解決方案1: UWB精準測距，高精度<0.5米

解決方案2: 藍牙BLE測距，精度3-5米

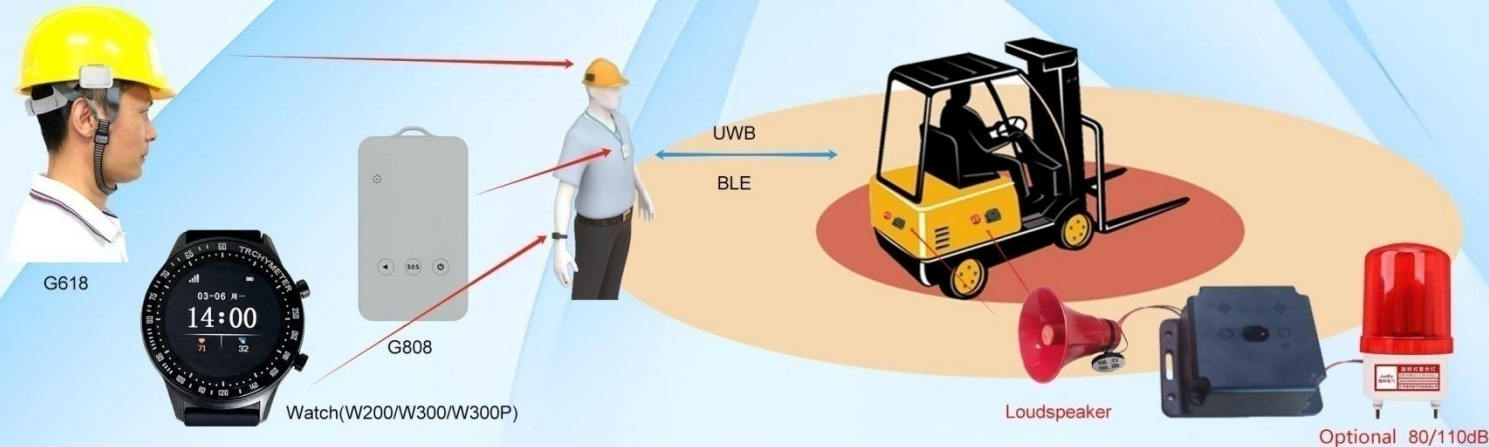
Application: Chemical industry, Mining, Construction, Industry, Logistics, Power plants, Parks etc.

Human and vehicle approach alarm, Crane approaching alarm, danger zone alarm, entrance alarm, etc

Workflow: Staff wearing Smart watch, Badge or Helmet Tracker, approaching a certain distance with G908GU, Smartwatch vibrates and voice warning, G908GU sound and light alarm. Watch and G908GU both transmit the alarm information to server with 4G or LoRaWAN

Solution 1: UWB technology, accuracy <0.5 meter

Solution 2: BLE Technology. accuracy 3-5 meters



### G618GU Hemlet Tracker 安全帽定位器

Ultra Low Power, Longer Standby time. 4G or LoRaWAN + UWB + GPS/Glonass + BLE5.1 + Wifi : Indoor/ Outdoor Location

- 600mAh電池，吸附充電  
600mAh battery, Magnetic Charging
- 環繞多彩LED灯  
Surrounding colorful LED lights

### G808GU Badge Tracker 工牌

- 2000mAh電池，吸附充電  
2000mAh battery, Magnetic Charging
- CE認證，防爆認證，防水  
CE and Explosion-proof Certification

### G908GU Alarm Sound and Light 聲光報警器

- 6000mAh Chargable battery (3X18650 Industry Battery)
- IP67, High strength industrial shell design
- 外接可選80/110分貝，高亮度聲光報警器和喇叭  
80 / 110 Decibels Sound and Light Alarm, Loudspeaker



## 4.3 Application

# 低成本，低功耗，无布线，无基站：室内外融合定位产品和解决方案

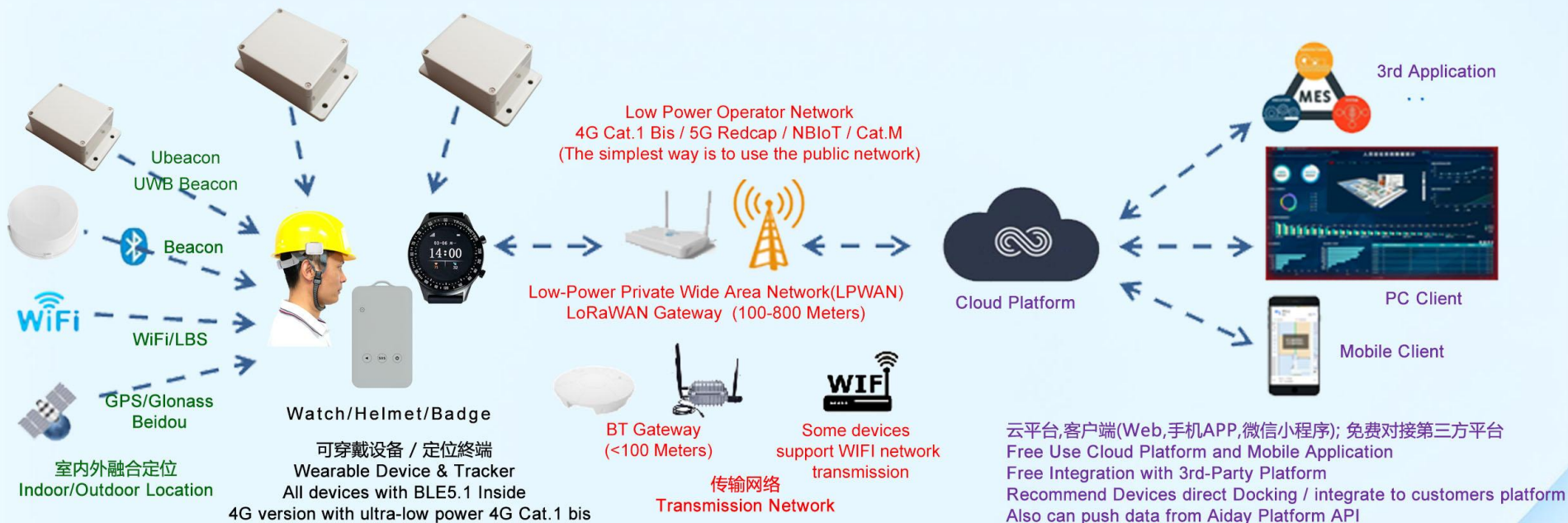
Low Cost, Low Power, No Wiring and No Power Supply : Indoor and Outdoor Location Devices and Solution

无需布线、无需接电源、免基站，易部署。需要高精度部署UWB信标(10年待机)，或普通精度蓝牙信标(3-8年)，  
室外GPS北斗+Wifi+基站，一体化室内外融合定位 (也支持UWB和蓝牙基站模式)

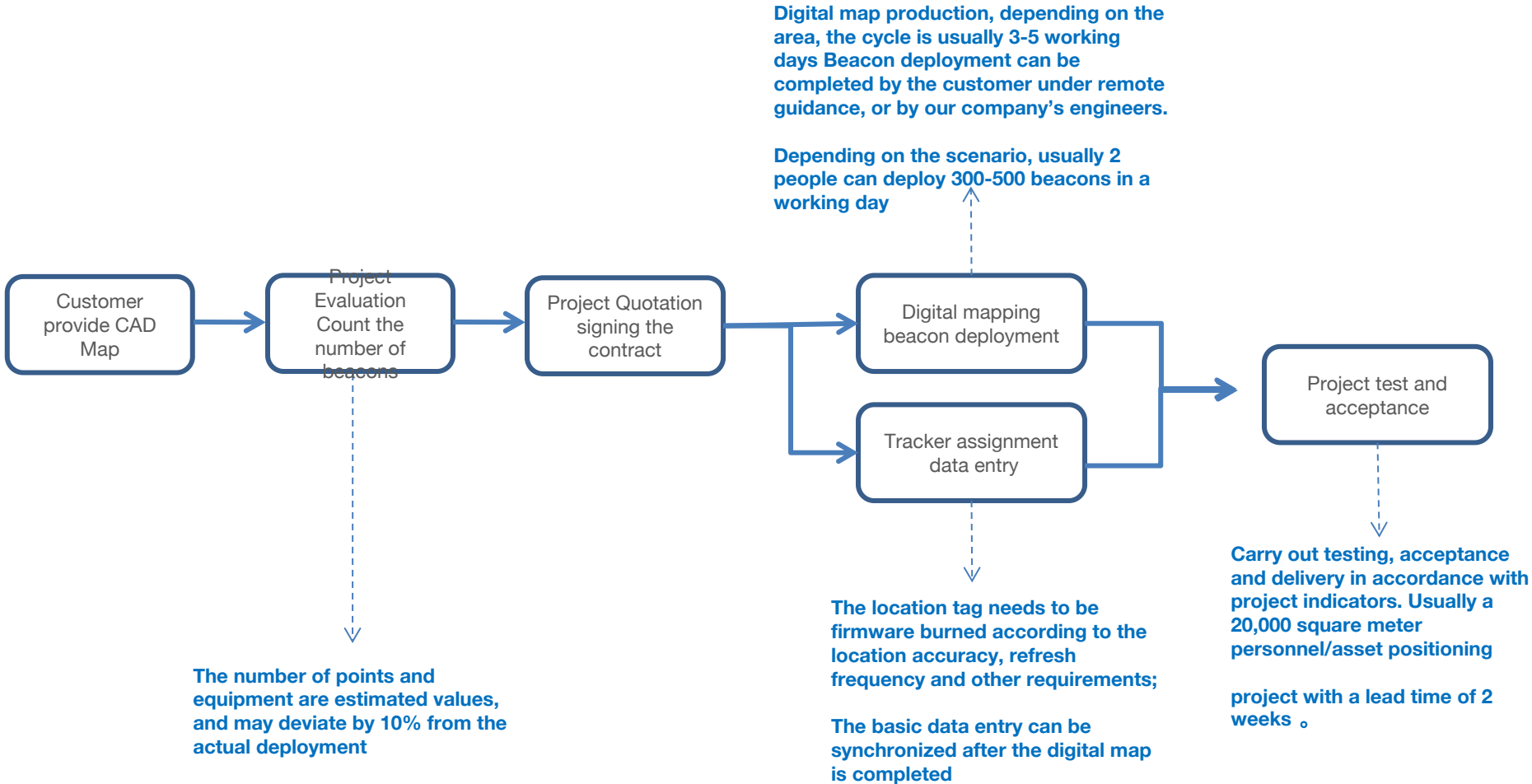
No wiring, no power supply, no Gateway required. easy to install and deploy.

High positioning accuracy use UWB beacon (10 years standby time), Normal positioning accuracy use BLE beacon (3-8 years standby time),

Outdoor mode use GPS/Glonass + Wifi + LBS Positioning (UWB and BLE Gateway also support)



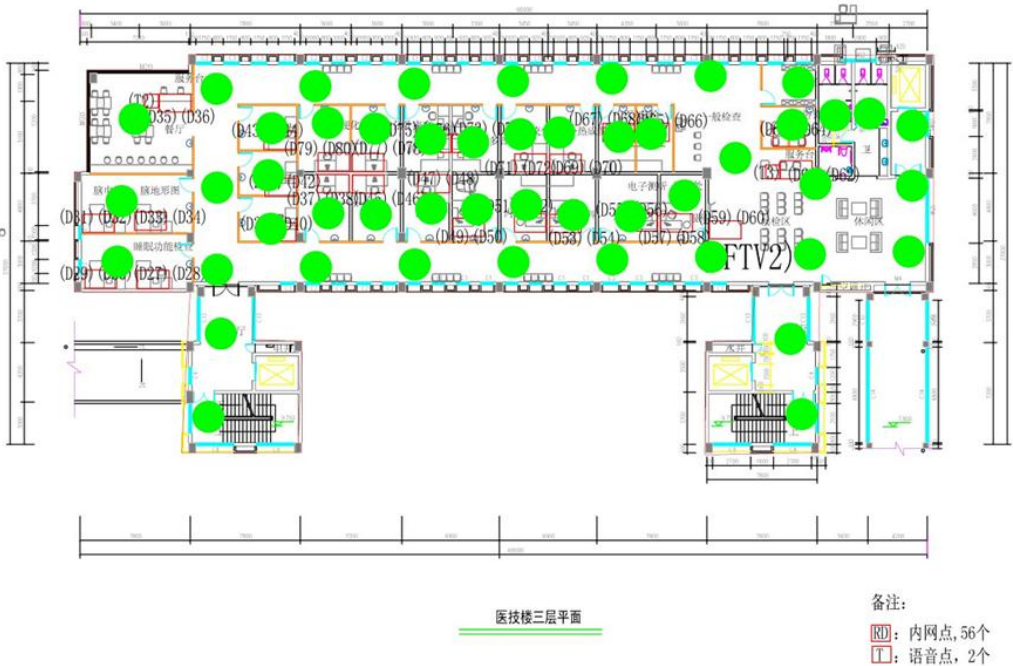
# 4.3 Project Mode indoor Location: Implementation Process



### 4.3 Project Mode indoor Location Implementation Process: Drawing and counting of beacons

Example: One floor of a nursing home project: point location estimation and quantity calculation based on CAD drawings, the details are as follows.  
The green in the drawing is the location of the Bluetooth beacon.

- 1) The 1, 2, and 3 floors of the medical technology building, each floor is 1,200 square meters, with 51 deployments, total of 153 iBeacons, Deployment density requirements: accurate to the room and bathroom.
- 2) The inpatient department has 1~5 floors, each floor is 7,500 square meters, and 105 devices are deployed , total need 525 iBeacons. Deployment density requirements: accurate to the room and bathroom.





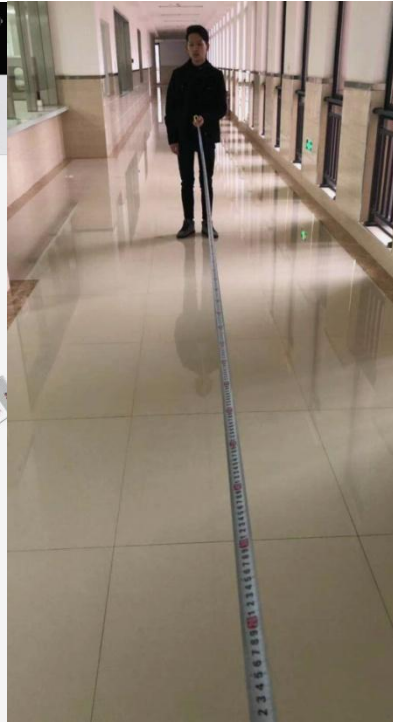
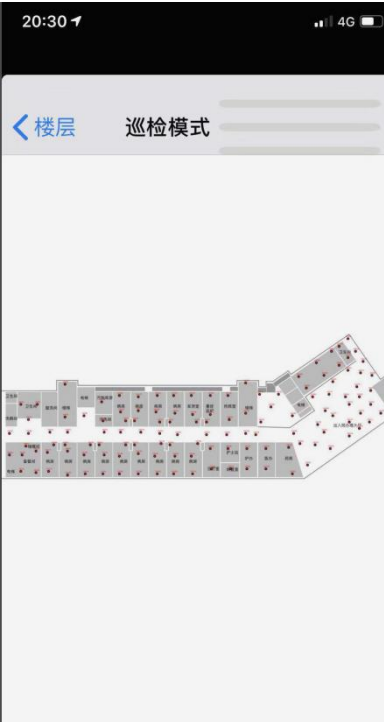
## 4.3 Project Mode indoor Location Implementation Process: install Beacon

- Mobile APP layout mode for on-site management location confirmation
- Measure where to install the beacon (generally one beacon is deployed at 50 square meters, and one beacon is deployed at 5-7 meters in the corridor)Installation of

Bluetooth beacons (in order to ensure effective signal coverage, it is recommended that the installation location be an open high place, such as a cross bar on the top

of a parking lot, an indoor ceiling or a hidden high place on the wall)

- Equipment and platform debugging
- On-site construction is individual and technical work. If the scene is not ideal, the construction period will be extended accordingly.



## 4.4. Project Mode indoor Location platform Introduction

- Indoor digital map (can be 2D or 3D), list mode view. Support indoor and outdoor mixed positioning, real-time tracking and historical tracking and other query methods
- Positioning tags are bound to personnel information, supporting batch addition of personnel information; accurate display of real-time online people/assets indoors, and real-time location distribution. Electronic fence: Set up electronic fences for non-visited areas or specific areas, enter/leave/stay, and the system will alert immediately to ensure the safety of personnel and areas.
- Various alarms: SOS alarm, low battery, electronic fence, heart rate/body temperature and other data exceeding alarms.
- The alarm horn can be linked (already implemented in the hospital application). Can access RFID functions such as access control and payment: can be connected to third



## 5. Cooperation and after-sale Service

### After-sale warranty

- The overall warranty period of products and items is calculated as 1 year from the date of shipment or the date of completion of acceptance (you can choose multi-year maintenance or expiry extended warranty).
- During the warranty period, if the product or system fails to operate normally or hinders the normal operation of the user, priority will be given to telephone and network services,

Provide a variety of ways and flexible cooperation mode from software, hardware to platform:

1. Free use of the platform and APP of Platform, providing hierarchical and batch management accounts; APP and platform Logo can be customized.
2. Can ODM/OEM, Customized Logo, package, etc
3. The software version can be customized according to the needs, and the hardware can also be customized4. Provide flexible and convenient third-party platform



# THANKS



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More Product and Application

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