

# LANSITEC PRODUCT BROCHURE

Document No. 909-00066  
Version 4.52

<b>Gateways</b>	Indoor Bluetooth Gateway	1-2
	Compact Bluetooth Gateway	3-4
	Solar Bluetooth Gateway	5-6
	Macro Bluetooth Gateway	7-8
	Gateway Differences	9
<b>Trackers</b>	Outdoor Asset Management Tracker	10-11
	Lansitec Badge	12-14
	Contact Tracing Badge	15-16
<b>Beacons</b>	i3 Portable Bluetooth Beacon (Built-in Gyroscope)	17
	i4 Asset Management Label	18
	Bluetooth Beacon (iBeacon)	19
	Badge Bluetooth Beacon	20
<b>Bracelets</b>	VG07 Bluetooth Bracelet	21
	VG08 Bluetooth Bracelet	22
<b>Sensors</b>	LoRa Precision Platinum Temperature Sensor	23-24
	LoRa Temperature & Humidity Sensor	25-26
<b>LoRaWAN Gateway</b>	Outdoor LoRaWAN Gateway	27-28

# INDOOR BLUETOOTH GATEWAY

Lansitec Indoor Bluetooth gateway is based on Bluetooth 5.0 technology and LoRaWAN. It receives nearby Bluetooth beacon messages and transmits them to the server through LoRa.

With LoRaWAN technology, there is no network usage fee for long-distance transmission. Therefore, it is especially suitable for the following use cases:

- Asset management in schools
- Office buildings and hospitals
- Cars and keys tracking in the parking lots
- People tracking



## KEY FEATURES

- Indoor Tracking
- Geo-fence
- Bluetooth 5.0 long distance, low power consumption
- Support LoRaWAN
- Support Lansitec various tracking labels and bracelets

## SPECIFICATIONS

Bluetooth Protocol	5.0
LoRaWAN Protocol	1.0.2B, US915, AU915, EU868, EU433, AS920-923, AS923-925, RU864, ID920, KR920, IN865, KZ865, CLAA, CN470, CN470-Ali
Indoor tracking	5m accuracy
Geo-fence	Supported
LoRa Fastest Communication Frequency	5 Seconds
LoRa Sensitivity	-139dBm @SF12, BW125kHz, 434MHz/470MHz -137dBm @SF12, BW125kHz, 868MHz/915MHz
Power Supply Mode	5V/1A
Encryption	AES128
Operating Temperature	-40°C~+70°C
Storage Temperature	-50°C~+85°C
Operating Humidity	5%~95%
Dimension	120 × 120 × 31mm
Transmission Capacity	100 beacon messages can be received within 1s Maximum of 15 beacon messages can be sent in one package
Certifications	CE, FCC, RCM

# INDOOR BLUETOOTH GATEWAY

## ORDERING INFORMATION

Product Description	Part Number
Bluetooth Gateway, Bluetooth 5.0, 120x120x31mm, AS923, 5V	100-18466
Bluetooth Gateway, Bluetooth 5.0, 120x120x31mm, US915, 5V	100-18467
Bluetooth Gateway, Bluetooth 5.0, 120x120x31mm, RU864, 5V	100-18348
Bluetooth Gateway, Bluetooth 5.0, 120x120x31mm, EU868, 5V	100-18468
Bluetooth Gateway, Bluetooth 5.0, 120x120x31mm, AU915, 5V	100-18465
Bluetooth Gateway, Bluetooth 5.0, 120x120x31mm, CN470, 5V	100-18369
Bluetooth Gateway, Bluetooth 5.0, 120x120x31mm, CN470-Ali, 5V	100-18370
Bluetooth Gateway, Bluetooth 5.0, 120x120x31mm, IN865, 5V	100-18469
Bluetooth Gateway, Bluetooth 5.0, 120x120x31mm, KR920, 5V	100-18378

# COMPACT BLUETOOTH GATEWAY

Lansitec Compact Bluetooth gateway is based on Bluetooth5.0 technology and LoRaWAN. It receives nearby Bluetooth beacon messages and transmits them to the server through LoRa.

The built-in 600mAh rechargeable battery makes it last about 10 hours when not powered. The standby time can be significantly extended by changing Bluetooth receiving settings. For more specific information, please refer to the datasheet and battery life estimation spreadsheet.

The gateway is portable and suitable for the following use cases:

- Asset and personnel management in schools, office buildings, and hospitals
- Cars and keys tracking in large parking lots



## KEY FEATURES

- Indoor Tracking
- Geo-fence
- Bluetooth 5.0 long distance, low power consumption
- Support LoRaWAN data back haul
- Support Lansitec various tracking labels and bracelets

## SPECIFICATIONS

Bluetooth Protocol	5.0
LoRaWAN Protocol	1.0.2B, US915, AU915, EU868, EU433, AS920-923, AS923-925, RU864, ID920, KR920, IN865, KZ865, CLAA, CN470, CN470-Ali
Indoor tracking	5m accuracy
Geo-fence	Supported
LoRa Fastest Communication Frequency	5 Seconds
LoRa Sensitivity	-139dBm @SF12, BW125kHz, 434MHz/470MHz -137dBm @SF12, BW125kHz, 868MHz/915MHz
Power Supply Mode	5V/1A
Encryption	AES128
Operating Temperature	-10°C~+60°C
Storage Temperature	-40°C~+85°C
Operating Humidity	5%~95%
Dimension	97 × 62 × 7mm
Transmission Capacity	100 beacon messages can be received within 1s Maximum of 15 beacon messages can be sent in one package
Charge Jack	Mircro USB
Certifications	CE, FCC, RCM

# COMPACT BLUETOOTH GATEWAY

## ORDERING INFORMATION

Product Description	Part Number
Bluetooth Gateway, Bluetooth 5.0, 97x62x7mm, CN470, 5V	100-18471
Bluetooth Gateway, Bluetooth 5.0, 97x62x7mm, CN470-Ali, 5V	100-18472
Bluetooth Gateway, Bluetooth 5.0, 97x62x7mm, AS923, 5V	100-18475
Bluetooth Gateway, Bluetooth 5.0, 97x62x7mm, US915, 5V	100-18473
Bluetooth Gateway, Bluetooth 5.0, 97x62x7mm, RU864, 5V	100-18476
Bluetooth Gateway, Bluetooth 5.0, 97x62x7mm, EU868, 5V	100-18477
Bluetooth Gateway, Bluetooth 5.0, 97x62x7mm, AU915, 5V	100-18478
Bluetooth Gateway, Bluetooth 5.0, 97x62x7mm, IN865, 5V	100-18479
Bluetooth Gateway, Bluetooth 5.0, 97x62x6mm, KR920, 5V	100-18474

# SOLAR BLUETOOTH GATEWAY



Lansitec Solar Bluetooth Gateway is designed based on LoRa and Bluetooth 5.0 technology. It receives nearby beacon information and forwards it to the LoRa gateway.

It is powered with robust solar film and a 5300mAh rechargeable battery. The operating temperature is -40°C~70°C and the charging temperature is -20°C~60°C. It is mainly used for mobile inspection and asset management.

## KEY FEATURES

- Indoor positioning precision: 3m
- Maintenance free
- Wide operating temperature range
- Geo-fence
- Adjustable Bluetooth uploading frequency, extremely long standby time

## SPECIFICATIONS

Access Quantity	> 500 in one LoRa gateway
Data Rate(bps)	300~30K
Bluetooth Protocol	5.0
LoRaWAN Protocol	1.0.2B, US915, AU915, EU868, EU433, AS920-923, AS923-925, RU864, ID920, KR920, IN865, KZ865, CLAA, CN470, CN470-Ali
Positioning Precision	3m
Beacon Access Quantity	100 beacon messages can be received within 1s, Maximum of 15 beacon messages at one single LoRa communication
LoRa Maximum RF Power	20dBm
Peak Current	Maximum 140mA in transmit mode
LoRa Sensitivity	-139dBm @SF12, BW125kHz, 434MHz/470MHz -137dBm @SF12, BW125kHz, 868MHz/915MHz
Encryption	AES128, X509
Dimension	158 × 90 × 60mm
Operating Temperature	-40°C~+70°C
Charging Temperature	-20°C~+60°C
Weight	150g
Battery	5300mAh
Solar Panel	Solar film
Standby Time	Use commands to change the period of position report to save power. The gateway works for a maximum of 30 days in continuous rainy days.
Certifications	CE, FCC, RCM, Exib II CT4
Function	Receive nearby Bluetooth beacon messages, then transmit to LoRa gateways through LoRaWAN after restructure the data.

# SOLAR BLUETOOTH GATEWAY

## ORDERING INFORMATION

Product Description	Part Number
Bluetooth Gateway, built-in antenna, Bluetooth5.0, solar, 150x90x60mm, EU868, 5300mAh	100-02046
Bluetooth Gateway, built-in antenna, Bluetooth5.0, solar, 150x90x60mm, AS923, 5300mAh	100-02048
Bluetooth Gateway, built-in antenna, Bluetooth5.0, solar, 150x90x60mm, US915, 5300mAh	100-02049
Bluetooth Gateway, external antenna, Bluetooth5.0, solar, 150x90x60mm, US915, 5300mAh	100-02231
Bluetooth Gateway, built-in antenna, Bluetooth5.0, solar, 150x90x60mm, AU915, 5300mAh	100-02050
Bluetooth Gateway, built-in antenna, Bluetooth5.0, solar, 150x90x60mm, RU864, 5300mAh	100-02051
Bluetooth Gateway, built-in antenna, Bluetooth5.0, solar, 150x90x60mm, KR920, 5300mAh	100-02052
Bluetooth Gateway, built-in antenna, Bluetooth5.0, solar, 150x90x60mm, IN865, 5300mAh	100-02053
Bluetooth Gateway, built-in antenna, Intrinsic Safety, Bluetooth5.0, solar, 150x90x60mm, EU868, 5300mAh	100-02055
Bluetooth Gateway, built-in antenna, Intrinsic Safety, Bluetooth5.0, solar, 150x90x60mm, AS923, 5300mAh	100-02056
Bluetooth Gateway, built-in antenna, Intrinsic Safety, Bluetooth5.0, solar, 150x90x60mm, US915, 5300mAh	100-02057
Bluetooth Gateway, external antenna, Intrinsic Safety, Bluetooth5.0, solar, 150x90x60mm, US915, 5300mAh	100-02058
Bluetooth Gateway, built-in antenna, Intrinsic Safety, Bluetooth5.0, solar, 150x90x60mm, AU915, 5300mAh	100-02059
Bluetooth Gateway, built-in antenna, Intrinsic Safety, Bluetooth5.0, solar, 150x90x60mm, RU864, 5300mAh	100-02060
Bluetooth Gateway, built-in antenna, Intrinsic Safety, Bluetooth5.0, solar, 150x90x60mm, KR920, 5300mAh	100-02061
Bluetooth Gateway, built-in antenna, Intrinsic Safety, Bluetooth5.0, solar, 150x90x60mm, IN865, 5300mAh	100-02054

# MACRO BLUETOOTH GATEWAY



Lansitec Macro Bluetooth Gateway is designed based on LoRa and Bluetooth 5.0 technology. It receives nearby beacon information and forwards it to LoRa gateway.

It is powered by 38,000mAh industrial battery with a standby time as long as 7 years. It is mainly used for mobile inspection and asset management, where it cannot be powered.

## KEY FEATURES

- Indoor positioning precision: 3m
- Maintenance free
- Wide operating temperature range
- Geo-fence
- Adjustable Bluetooth uploading frequency, extremely long standby time
- 38,000mAh Lithium thionyl chloride battery

## SPECIFICATIONS

Access Quantity	> 500 in one LoRa gateway
Data Rate(bps)	300~30K
Bluetooth Protocol	5.0
LoRaWAN Protocol	1.0.2B, US915, AU915, EU868, EU433, AS920-923, AS923-925, RU864, ID920, KR920, IN865, KZ865, CLAA, CN470, CN470-Ali
Positioning Precision	3m
Beacon Access Quantity	100 beacon messages can be received within 1s, Maximum of 15 beacon messages at single LoRa communication
LoRa Maximum RF Power	20dBm
Peak Current	Maximum 140mA in transmit mode
LoRa Sensitivity	-139dBm @SF12, BW125kHz, 434MHz/470MHz -137dBm @SF12, BW125kHz, 868MHz/915MHz
Encryption	AES128, X509
Dimension	158 × 90 × 60mm
Operating Temperature	-40°C~+70°C
Weight	150g
Battery	38,000 mAh Lithium thionyl chloride battery
Standby Time	2552 days. Bluetooth receiving windows: 3 seconds Positioning interval: 5 minutes (300s) Average data size: around 12 beacons (5.5 bytes per beacon, 800ms beacon broadcast interval) Use commands to change the period of position report to save power.
Certifications	CE, FCC, RCM
Function	Receive nearby Bluetooth beacon messages, then transmit to LoRa gateways through LoRaWAN after restructure the data. Bluetooth receiving windows duration, Bluetooth receiving interval, and LoRa transmit interval are adjustable with commands.



# MACRO BLUETOOTH GATEWAY

## ORDERING INFORMATION

Product Description	Part Number
Bluetooth Gateway, built-in antenna, Bluetooth5.0, 150x90x60mm, EU868, 38000mAh	100-02364
Bluetooth Gateway, built-in antenna, Bluetooth5.0, 150x90x60mm, AS923, 38000mAh	100-02365
Bluetooth Gateway, built-in antenna, Bluetooth5.0, 150x90x60mm, US915, 38000mAh	100-02366
Bluetooth Gateway, built-in antenna, Bluetooth5.0, 150x90x60mm, AU915, 38000mAh	100-02367
Bluetooth Gateway, built-in antenna, Bluetooth5.0, 150x90x60mm, RU864, 38000mAh	100-02368
Bluetooth Gateway, built-in antenna, Bluetooth5.0, 150x90x60mm, KR920, 38000mAh	100-02369
Bluetooth Gateway, built-in antenna, Bluetooth5.0, 150x90x60mm, IN865, 38000mAh	100-02370

**GATEWAY**  
**DIFFERENCES**



<b>Product Name</b>	Indoor Bluetooth Gateway	Compact Bluetooth Gateway	Solar Bluetooth Gateway	Macro Bluetooth Gateway
<b>Dimension</b>	120 × 120 × 31mm	97 × 62 × 7mm	158 × 90 × 60mm	158 × 90 × 60mm
<b>Charging Temperature</b>	N/A	0°C~+40°C	-20°C~+60°C	N/A
<b>Operating Temperature</b>	-40°C~+70°C	-10°C~+60°C	-40°C~+70°C	-40°C~+70°C
<b>Battery</b>	N/A	600mAh rechargeable polymer lithium battery	5300mAh rechargeable lithium-ion Cell	38,000 mAh Lithium thionyl chloride battery
<b>Power Supply</b>	5V/1A Micro USB	5V/1A Micro USB	Solar	N/A
<b>Certifications</b>	CE, FCC, RCM	CE, FCC, RCM	CE, FCC, RCM, Exib II CT4	CE, FCC, RCM
<b>Use Cases</b>	Asset management in schools Office buildings and hospitals Cars and keys tracking in parking lot People tracking	Asset and personnel management in schools, office buildings, and hospitals Cars and keys tracking in large parking lots	Mobile inspection Asset management Car tracking	Mobile inspection Asset management in place without power source: e.g. Hospital, Classroom, Exhibition centre

# OUTDOOR ASSET MANAGEMENT TRACKER

Lansitec asset tracker is designed based on GPS, Bluetooth and LoRa technology for indoor and outdoor tracking.

It has an ultra-long standby time and IP65 enclosure that makes it perfect for asset tracking.



## KEY FEATURES

- Outdoor tracking: GPS/Beidou, 2.5m accuracy
- Indoor tracking: Bluetooth, 1~3m accuracy
- Geo-fence
- Maximum 180-day trace replay
- Waterproof (IP65)
- 3-axis accelerator supported Illegal movement alert
- Maximum 3-year standby time

## SPECIFICATIONS

Outdoor Tracking	GPS/Beidou, 2.5m accuracy
Indoor Tracking	Bluetooth, 1~3m accuracy
Protocol	LoRaWan1.0.2B/Bluetooth 4.0
LoRa Frequency	US915, AU915, EU868, EU433, AS920-923, AS923-925, RU864, ID920, KR920, IN865, KZ865, CLAA, CN470, CN470-Ali
LoRa Sensitivity	-139dBm @SF12, BW125kHz, 434MHz/470MHz -137dBm @SF12, BW125kHz, 868MHz/915MHz
Distance	>1km in urban area
Operating Current	5µA~130mA
Encryption	AES128
G-sensor	Support
Battery	2xER14505 non-rechargeable battery, 5400mAh
Low Battery Alert	Support
Standby Time	Maximum 3 years -15000 messages with GPS coordinates or 300,000 indoor positioning in 1 year, -10000 messages with GPS coordinates or 250,000 indoor positioning in 2 years
Operating Temperature	-40°C~+70°C
Storage Temperature	-50°C~+85°C
Dimension	76*70*40mm
Protection Requirement	IP65
Operating Mode	GPS coordinates acquisition frequency adjustable LoRa communication frequency adjustable
Certifications	CE, FCC, RCM

# ASSET MANAGEMENT TRACKER

## ORDERING INFORMATION

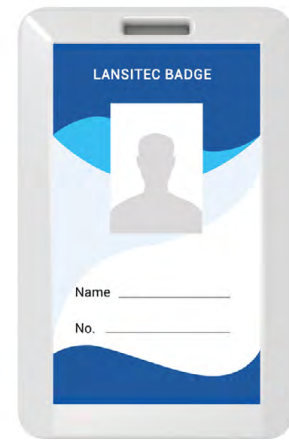
Product Description	Part Number
Asset Management Tracker, CLAA, Beidou, GPS, 5400mAh, IP65	100-00258
Asset Management Tracker, CLAA, Beidou, GPS, 5400mAh, IP65	100-00153
Asset Management Tracker, CLAA, Bluetooth 4.0, 5400mAh, IP65	100-00154
Asset Management Tracker, CLAA, Bluetooth 4.0, Beidou, GPS, 5400mAh, IP65	100-00170
Asset Management Tracker, CN470, Beidou, GPS, 5400mAh, IP65	100-00156
Asset Management Tracker, CN470, Bluetooth 4.0, 5400mAh, IP65	100-00171
Asset Management Tracker, CN470, Bluetooth 4.0, Beidou, GPS, 5400mAh, IP65	100-00172
Asset Management Tracker, Bluetooth 4.0, CN470-Ali, 5400mAh, IP65	100-02486
Asset Management Tracker, Bluetooth 4.0, Beidou, GPS, CN470-Ali, 5400mAh, IP65	100-02487
Asset Management Tracker, Beidou, GPS, CN470-Ali, 5400mAh, P65	100-02488
Asset Management Tracker, EU868, GPS, 5400mAh, IP65	100-00173
Asset Management Tracker, EU868, Bluetooth 4.0, GPS, 5400mAh, IP65	100-00160
Asset Management Tracker, EU868, Bluetooth 4.0, 5400mAh, IP65	100-00161
Asset Management Tracker, AS923, GPS, 5400mAh, IP65	100-00257
Asset Management Tracker, AS923, Bluetooth 4.0, GPS, 5400mAh, IP65	100-00174
Asset Management Tracker, AS923, Bluetooth 4.0, 5400mAh, IP65	100-00163
Asset Management Tracker, US915, GPS, 5400mAh, IP65	100-00164
Asset Management Tracker, US915, Bluetooth 4.0, GPS, 5400mAh, IP65	100-00165
Asset Management Tracker, US915, Bluetooth 4.0, 5400mAh, IP65	100-00166
Asset Management Tracker, RU864, GPS, 5400mAh, IP65	100-00197
Asset Management Tracker, RU864, Bluetooth 4.0, GPS, 5400mAh, IP65	100-00198
Asset Management Tracker, RU864, Bluetooth 4.0, 5400mAh, IP65	100-00199
Asset Management Tracker, In865, GPS, 5400mAh, IP65	100-02147
Asset Management Tracker, In865, Bluetooth 4.0, GPS, 5400mAh, IP65	100-02148
Asset Management Tracker, In865, Bluetooth 4.0, 5400mAh, IP65	100-02149
Asset Management Tracker, AU915, GPS, 5400mAh, IP65	100-02504
Asset Management Tracker, AU915, Bluetooth 4.0, GPS, 5400mAh, IP65	100-02505
Asset Management Tracker, AU915, Bluetooth 4.0, 5400mAh, IP65	100-02506
Asset Management Tracker, KR920, GPS, 5400mAh, IP65	100-02507
Asset Management Tracker, KR920, Bluetooth 4.0, GPS, 5400mAh, IP65	100-02508
Asset Management Tracker, KR920, Bluetooth 4.0, 5400mAh, IP65	100-02509

# LANSITEC BADGE

Lansitec badge is designed based on GPS, Bluetooth 4.2 and LoRa technology. It supports indoor and outdoor tracking. The badge is mainly used for personnel and asset management.

Its built-in 3-axis accelerator could be used for determining the motion status of the terminal. Therefore, it can help save battery and enhance user experience.

It is suitable for the following use cases: visitor management, factory worker tracking, construction worker tracking, vehicle tracking etc.



## KEY FEATURES

- Indoor Tracking: Bluetooth, 1~3m precision
- Outdoor tracking: Beidou or GPS, 2.5m precision
- Geo-fence
- Maximum 180-day trace replay
- Illegal movement alert
- Maximum 5-month standby time
- Low cost: No network surcharge
- Support 3-axis accelerator

## SPECIFICATIONS

Outdoor tracking	GPS, 2.5m accuracy
Indoor tracking	Bluetooth, 1~3m accuracy
Protocol	LoRaWAN1.0.2B/ Bluetooth 4.2
LoRa Frequency	US915, AU915, EU868, EU433, AS920-923, AS923-925, RU864, ID920, KR920, IN865, KZ865, CLAA, CN470, CN470-Ali
LoRa Sensitivity	-139dBm @SF12, BW125kHz, 434MHz/470MHz -137dBm @SF12, BW125kHz, 868MHz/915MHz
LoRa Distance	> 1km in urban area
Bluetooth Distance	~25m sight distance
Operating Current	20µA ~139mA
Encryption	AES128
G-sensor	Supported
Vibration Intensity Adjustment	Supported
Low Battery Alert	Supported
Power Supply	600mAh rechargeable battery
Charge Jack	Micro USB
Standby Time	Maximum 5 months
Operating Temperature	-10°C~+60°C
Storage Temperature	-40°C~+85°C
Dimension	97 × 62 × 7mm
Certifications	CE, FCC, RCM
Operating Mode	GPS coordinates acquisition frequency adjustable LoRa communication frequency adjustable Automatic BLE and GPS tracking switching

# LANSITEC BADGE

## ORDERING INFORMATION

Product Description	Part Number
Badge, CN470, Bluetooth 4.0, 600mAh	100-02371
Badge, CN470, Bluetooth 4.0, Beidou, GPS, 600mAh	100-02372
Badge, CN470, Beidou, GPS, 600mAh	100-02379
Badge, CN470-Ali, Bluetooth 4.0, 600mAh	100-02480
Badge, CN470-Ali, Bluetooth 4.0, Beidou, GPS, 600mAh	100-02484
Badge, CN470-Ali, Beidou, GPS, 600mAh	100-02485
Badge, CLAA, Bluetooth 4.0, 600mAh	100-03220
Badge, CLAA, Bluetooth 4.0, Beidou, GPS, 600mAh	100-03219
Badge, AS923, Bluetooth 4.0, 600mAh	100-02876
Badge, AS923, Bluetooth 4.0, GPS, 600mAh	100-02476
Badge, AS923, GPS, 600mAh	100-02475
Badge, In865, GPS, 600mAh	100-02565
Badge, In865, Bluetooth 4.0, GPS, 600mAh	100-02566
Badge, In865, Bluetooth 4.0, 600mAh	100-02567
Badge, EU868, Bluetooth 4.0, GPS, 600mAh	100-02490
Badge, EU868, GPS, 600mAh	100-02477
Badge, US915, Bluetooth 4.0, GPS, 600mAh	100-02478
Badge, US915, Bluetooth 4.0, 600mAh	100-02461
Badge, US915, GPS, 600mAh	100-02479
Badge, RU864, Bluetooth 4.0, GPS, 600mAh	100-02491
Badge, RU864, Bluetooth 4.0, 600mAh	100-02493
Badge, RU864, GPS, 600mAh	100-02492
Badge, AU915, Bluetooth 4.0, GPS, 600mAh	100-02501
Badge, AU915, Bluetooth 4.0, 600mAh	100-02502
Badge, AU915, GPS, 600mAh	100-02503
Badge, AU915, Bluetooth 4.0, GPS, 600mAh	100-02494
Badge, KR920, Bluetooth 4.0, 600mAh	100-02497
Badge, KR920, GPS, 600mAh	100-02498
Badge, KR920, Bluetooth 4.0, GPS, 600mAh	100-02499

# LANSITEC BADGE

## ORDERING INFORMATION

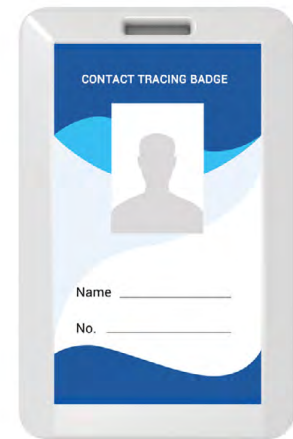
Product Description	Part Number
Badge, In865, Bluetooth 5.0, GPS, 600mAh	100-02495
Badge, In865, Bluetooth 5.0, 600mAh	100-02496
Badge, CN470, Bluetooth 5.0, GPS, 600mAh	100-02398
Badge, CN470, Bluetooth 5.0, 600mAh	100-02531
Badge, CN470-Ali, Bluetooth 5.0, GPS, 600mAh	100-02399
Badge, CN470-Ali, Bluetooth 5.0, 600mAh	100-02532
Badge, AS923, Bluetooth 5.0, GPS, 600mAh	100-02400
Badge, AS923, Bluetooth 5.0, 600mAh	100-02533
Badge, IN865, Bluetooth 5.0, GPS600mAh	100-02401
Badge, IN865, Bluetooth 5.0, 600mAh	100-02534
Badge, US915, Bluetooth 5.0, GPS, 600mAh	100-02402
Badge, US915, Bluetooth 5.0, 600mAh	100-02535
Badge, RU864, Bluetooth 5.0, GPS, 600mAh	100-02403
Badge, RU864, Bluetooth 5.0, 600mAh	100-02536
Badge, AU915, Bluetooth 5.0, GPS, 600mAh	100-02404
Badge, AU915, Bluetooth 5.0, 600mAh	100-02537
Badge, EU868, Bluetooth 5.0, GPS, 600mAh	100-02405
Badge, EU868, Bluetooth 5.0, 600mAh	100-02538
Badge, KR920, Bluetooth 5.0, GPS, 600mAh	100-02406
Badge, KR920, Bluetooth 5.0, 600mAh	100-02539

# CONTACT TRACING

## BADGE

Lansitec contact tracing badge is designed based on Bluetooth 5.0 and LoRa technology. It uses RSSI for distance measurement and contact tracing. The badge is mainly used for keeping social distance at the workplace or hospital and is especially useful during COVID-19.

Proximity detection function: the badge beeps when other badges approach. The badge can use vibration and sound to alert the user even without the LoRa network. NFC function is also integrated into the badge to facilitate management.



## KEY FEATURES

- Buzzer and vibrator
- Proximity detection, accuracy 2~3m
- Distance adjustable
- Friend feature
- Multiple auto-configuration modes
- Multiple contact history report mode
- Indoor tracking
- NFC for easy management
- LoRaWAN
- FOTA with Bluetooth

## SPECIFICATIONS

Indoor Tracking	Bluetooth, 2~3m accuracy
Protocol	LoRaWAN1.0.2B/ Bluetooth 5.0
LoRa Frequency	US915, AU915, EU868, EU433, AS920-923, AS923-925, RU864, ID920, KR920, IN865, KZ865, CLAA, CN470, CN470-Ali
LoRa Sensitivity	-139dBm @SF12, BW125kHz, 434MHz/470MHz -137dBm @SF12, BW125kHz, 868MHz/915MHz
LoRa Distance	> 1km in urban area
Bluetooth Distance	~25m sight distance
Operating Current	20µA ~139mA
Encryption	AES128
Proximity Detection	Supported, 2 meters by default. Distance is adjustable through commands.
Buzzer	75dB
Vibrator	Supported
Vibrator Mechanical Noise	<50dB
NFC	Supported
Low Battery Alert	Supported
Power Supply	600mAh rechargeable battery
Charge Jack	Micro USB
Battery Life	100 hours
Operating Temperature	-10°C~+60°C
Storage Temperature	-20°C~+80°C
Dimension	97 × 62 × 7mm
Certifications	CE, FCC, RCM, UN38.3
Bluetooth FOTA	Win10, Android, iOS
Decoder	On-line decoder and decoder source code to expedite the development



# CONTACT TRACING

## BADGE

### ORDERING INFORMATION

Product Description	Part Number
Badge, IN865, Bluetooth 5.0, buzzer, vibrator, PD, 97x62x7mm, 600mAh	100-02496
Badge, CN470, Bluetooth 5.0, buzzer, vibrator, PD, 97x62x7mm, 600mAh	100-02531
Badge, CN470-Ali, Bluetooth 5.0, buzzer, vibrator, PD, 97x62x7mm, 600mAh	100-02532
Badge, AS923, Bluetooth 5.0, buzzer, vibrator, PD, 97x62x7mm, 600mAh	100-02533
Badge, IN865, Bluetooth 5.0, buzzer, vibrator, PD, 97x62x7mm, 600mAh	100-02534
Badge, US915, Bluetooth 5.0, buzzer, vibrator, PD, 97x62x7mm, 600mAh	100-02535
Badge, RU864, Bluetooth 5.0, buzzer, vibrator, PD, 97x62x7mm, 600mAh	100-02536
Badge, AU915, Bluetooth 5.0, buzzer, vibrator, PD, 97x62x7mm, 600mAh	100-02537
Badge, EU868, Bluetooth 5.0, buzzer, vibrator, PD, 97x62x7mm, 600mAh	100-02538
Badge, KR920, Bluetooth 5.0, buzzer, vibrator, PD, 97x62x7mm, 600mAh	100-02539

# i3 PORTABLE BLUETOOTH LABEL (BUILT-IN GYROSCOPE)

The label continuously broadcasts iBeacon information according to settings. It broadcasts built-in gyroscope sensor parameters when it's moved.

The compact size makes it convenient to install. It helps clients better manage the location, status and usage rate of the asset, and location of personnel.

Use cases:

- Personnel tracking and check-in
- Interactive advertising
- Real-time message push of geo-location
- Asset tracking
- Usage rate calculation of machines and sports facilities



## KEY FEATURES

- Compact design
- Support simultaneous multi-frame broadcasting (maximum 6-frame)
- Support gyroscope
- Support a variety of flexible triggers

## SPECIFICATIONS

Material	ABS757
Colour	White
Dimension	36.5 × 23.7 × 5.0mm
Weight	6.2g
Installation Method	Double-side Adhesive Paste
Bluetooth Protocol	4.2
Protocol	iBeacon
RF Power	-40~+4dBm
Broadcast Interval	100ms~5s
Transmission Distance	120 meters in sight distance
Security	Support password connection and non-continuous mode, prevent malicious connection
Standby Current	≤5μA
Peak Current	8mA
Average Current	51μA (standard 6-frame broadcast)
Battery Model	CR2032
Battery Capacity	230mAh
Battery Life	0dBm, 5s broadcasting interval, 3 years on average

## ORDERING INFORMATION

Product Description	Part Number
Bluetooth tag, 36.5x23.7x5mm, G-Sensor, 220mAh	100-02198

# i4 ASSET MANAGEMENT LABEL

The label constantly broadcasts iBeacon information according to settings. It has built-in light sensor. When the sensor is covered, it broadcasts 0. When the sensor receives light, it broadcasts 1.

Its compact size makes it convenient for clients to perform tracking management on the location and status of assets.



## KEY FEATURES

- Ultra-low power consumption, average working current <math><10\mu A</math>
- Plastic-shell anti-removal asset management label with a built-in light sensor, an alarm will be triggered when removed
- Up to 100m communication distance
- Ultrasonic welding, up to IP66 waterproof
- 5-year battery life

## SPECIFICATIONS

Induction Mode	Bluetooth Broadcasting
Protocol	iBeacon
Material	ABS, Black
Dimensions	42.5 × 23.5 × 5.3mm
Industrial Grade	IP66
Communication Mode	Bluetooth 4.2
Communication Frequency	1Mbit/s
Working Frequency	2.4GHz
Frequency Offset	≤ ±50KHz
Output Power	0dBm
Quiescent Current	<math><3\mu A</math>
Peak Current	<math><7mA</math>
Average Current	<math><10\mu A</math>
Battery Model	CR2032
Battery Capacity	220mAh
Battery Life	5 years (10 seconds interval)
Operating Temperature	-20°C~+45°C
Storage Temperature	-30°C~+65°C
Light Sensor	Sensor window covered(0) or open(1)

## ORDERING INFORMATION

Product Description	Part Number
Bluetooth tag, 42.5x23.5x5.3mm, Light alarm (Removal detection), IP66, 100mAh	100-02196

## BLUETOOTH BEACON

The beacon constantly broadcasts iBeacon messages according to settings. It has two built-in high-capacity button cells. The maximum battery life is approximately 6 years with a broadcast interval @ 500ms.

The beacon is mainly used for indoor tracking. It can also be attached to assets and therefore used for asset tracking with the help of our Bluetooth gateways.



### SPECIFICATIONS

Chip	TI CC2640R2F
Dimension	62×19mm (D×H)
Weight	43g
Shell Material	ABS
Protocol	iBeacon
RF Power	-21dBm~5dBm
Coverage Range	80m, sight distance
Broadcast Interval	100ms ~ 10s adjustable
Battery	CR2477 x 2, 2000mAh
Sensitivity	-97dBm
Battery Life	6 Years (0dBm, 0.5s transmit interval)
Supply Capacity	>300k/month

### ORDERING INFORMATION

Product Description	Part Number
Bluetooth Beacon, 66x18(DxH), 2000mAh	100-02195

# BADGE BLUETOOTH

## BEACON

The beacon constantly broadcasts iBeacon information according to settings. It has two built-in CR2032 button cells. The broadcasting interval is 1 second. The maximum standby time is approximately 1 year.



## SPECIFICATIONS

Chip	Nordic nRF52810
Dimension	97 × 62 × 7mm
Protocol	iBeacon
RF Power	4dBm to -20dBm in 4dB steps (Bluetooth 5.0)
Coverage Range	>100m (sight distance can reach 200m)
Broadcast Interval	100ms ~ 5s adjustable
Battery	2 x CR2032 (560mAh)
Sensitivity	-97dBm
Battery Life	One year (signal emission power 0dBm, 1s interval)
Supply Capacity	>300k/month
Certifications	Exib II CT4

## ORDERING INFORMATION

Product Description	Part Number
Bluetooth Beacon, Bluetooth 5.0, 97x62x7mm, 560mAh	100-03981

# VG07 BLUETOOTH BRACELET

The Bluetooth Bracelet supports heart rate monitoring, step count, positioning and various features.

The bracelet constantly broadcasts iBeacon information according to settings. It can also perform positioning and data transmission with the help of our Bluetooth gateways.

The bracelet can also be connected to the cellphone directly, which enables more functions that include cellphone notification and incoming call alert. (Positioning function and cellphone connecting function cannot be used simultaneously)



## SPECIFICATIONS

RAM	64kB		
Flash	512kB		
Extend Memory	No support		
Main Chip	Nordic 52832		
Bluetooth Protocol	Bluetooth 4.2		
Beacon Protocol	iBeacon		
Appearance Material	Wristband: TPU Body: ABS+PC		
Waterproof Level	IP67		
Battery Capacity	60mAh		
Standby Time	21 days		
Screen Display	OLED, 0.86 inch, Resolution: 96x32, White		
Touch	Support		
Battery Display	0~5 level		
Screen Saver	No support		
Backlight Time	8 seconds		
Brightness Adjustment	No support		
G-Sensor	3D accelerated ROHMS		
Light Sensor	No support		
Distance Sensor	No support		
Charging	USB charging, 5V		
USB	No support		
Compatible System	Android 4.4 and above, IOS 9.0 and above		
Display Light	No	Alarm Reminder	Support
Step Count, Distance, Calories	Support	Incoming Call	Support
Sleep Monitoring	Support	Heart Rate	Support
Vibration Motor	Support	Blood Pressure	No Support
Goal-completion Reminder	Support	Air Update	Support
		UV	No Support
		GPS	No Support

## ORDER INFORMATION

Product Description	Part Number
Wristband, Bluetooth, OLED 0.86in., Step count, IP67, 60mAh	100-01423

# VG08 BLUETOOTH BRACELET

The Bluetooth Bracelet supports heart rate monitoring, step count, positioning and various features.

The bracelet constantly broadcasts iBeacon information according to settings. It can also perform positioning and data transmission with the help of our Bluetooth gateways.

The bracelet can also be connected to the cellphone directly, which enables more functions that include cellphone notification and incoming call alert. (Positioning function and cellphone connecting function cannot be used simultaneously)



## SPECIFICATIONS

RAM	64kB		
Flash	512kB		
Extend Memory	No support		
Main Chip	Nordic 52832		
Bluetooth Protocol	Bluetooth 4.2		
Beacon Protocol	iBeacon		
Appearance Material	Wristband: silicon Body: polythene		
Waterproof Level	IP67		
Battery Capacity	60mAh		
Standby Time	25 days		
Screen Display	TFT, 0.96 inch, Resolution: 160*80, Colour		
Touch	Support		
Battery Display	0~5 level		
Screen Saver	No support		
Backlight Time	5 seconds		
Brightness Adjustment	Support		
G-Sensor	3D accelerated		
Light Sensor	No support		
Distance Sensor	No support		
Charging	USB charging, 5V		
USB	No support		
Compatible System	Android 4.4 and above, IOS 9.0 and above		
Display Light	No	Alarm Reminder	Support
Step Count, Distance, Calories	Support	Incoming Call	Support
Sleep Monitoring	Support	Heart Rate	Support
Vibration Motor	Support	Blood Pressure	Support
Goal-completion Reminder	Support	Air Update	Support
		UV	No support
		GPS	No support

## ORDER INFORMATION

Product Description	Part Number
Wristband, Bluetooth, TFT 0.96in., Step count, Heart rate, IP67, 60mAh	100-03246

# LoRa PRECISION PLATINUM TEMPERATURE SENSOR

Lansitec precision platinum temperature sensor is designed based on the advanced LoRa modulation and powered by a lithium battery with 6-year operation time. It is a cost-effective LoRaWAN end device for a variety of application scenarios.

Its long operation time offers low maintenance. Therefore, it is ideal for industrial use. The sensor work mode can be adjusted via the LoRa network. Lansitec sensor family is fully compatible and plug-and-play for the LoRaWAN network operation.

Lansitec sensors can also work with Lansitec Wireless Data Transfer Unit (P/N: 100-00175) for low-cost deployment. Please contact us for further information.

Context: Busway temperature monitor, gas and fluid temperature monitor



## SPECIFICATIONS

Protocol	LoRaWAN1.0.2B
Frequency	US915, AU915, EU868, EU433, AS920-923, AS923-925, RU864, ID920, KR920, IN865, KZ865, CLAA, CN470, CN470-Ali
Sensitivity	SF=7 ≤ -126dBm, SF=10 ≤ -136dBm, SF=12 ≤ -142dBm
Operating Current	7μA@sleep mode, Max.138mA@20dBm
Temperature Range	-200°C~200°C
Accuracy	±1°C
Standby Time	5 years @25 °C 17dBm 5 minutes interval
Operating Temperature	-40°C~+85°C
Storage Temperature	-55°C ~+85°C
Operating Humidity	5%~95%
On/Off	Support
Sensor	PT100 platinum RTD, maximum 4 sensors supported, cable length is optional
Antenna	External
Dimension	Aluminium, 76*46*110mm
Battery	Non-chargeable lithium battery 19Ah
Communication Distance	>2km
Certification	CE, FCC, RCM



# LoRa PRECISION PLATINUM TEMPERATURE SENSOR

## ORDERING INFORMATION

Product Description	Part Number
LoRa Platinum Temperature Sensor, US915, 1 sensor, 19Ah	100-00159
LoRa Platinum Temperature Sensor, EU868, 1 sensor, 19Ah	100-00169
LoRa Platinum Temperature Sensor, CN470, 1 sensor, 19Ah	100-00178
LoRa Platinum Temperature Sensor, AS923, 1 sensor, 19Ah	100-00181
LoRa Platinum Temperature Sensor, US915, 1 sensor, 19Ah	100-03201
LoRa Platinum Temperature Sensor, RU864, 1 sensor, 19Ah	100-03202
LoRa Platinum Temperature Sensor, IN865, 1 sensor, 19Ah	100-03203
LoRa Platinum Temperature Sensor, KR920, 1 sensor, 19Ah	100-03204
PT100 RTD, 2m	100-02161
PT100 RTD, 2m, D3*L25mm	100-02162
Temperature Sensor, PT100, CLAA, 1 sensor, 19Ah	100-01158

# TEMPERATURE AND HUMIDITY SENSOR

The Lansitec temperature and humidity sensor is designed based on the advanced LoRa modulation and powered by a lithium battery with a 5-year operation time.

It offers a cost-effective LoRaWAN end device for a variety of applications. Its IP65 enclosure and long operation time offer the benefit of low maintenance cost. Therefore, it is ideal for outdoor use. The sensor operation mode can be adjusted via LoRa network.

Lansitec sensor family is fully compatible and plug-and-play for LoRaWAN network operation. It can also work with the Lansitec wireless data transfer unit for the low-cost deployment.



## SPECIFICATIONS

Modulation	LoRa
Protocol	LoRaWAN1.0.2B
Antenna	Internal/External
Network Structure	Star/Peer to peer
Operation Temperature	-40°C~125°C, ±0.3°C
RH Operation Range	0%~99%, ±3%
Frequency	US915, AU915, EU868, EU433, AS920-923, AS923-925, RU864, ID920, KR920, IN865, KZ865, CLAA, CN470, CN470-Ali
Transmit Power	Maximum 20dBm, adjustable
Sleep Current	20µA
Transmit Distance	>2km
Dimension	ABS, 85*114*55mm
Battery	19000mAh lithium thionyl chloride
Standby Time	5 years
IP Protection	IP65
Calibration	Auto calibration
Certification	FCC

# TEMPERATURE AND HUMIDITY SENSOR

## ORDERING INFORMATION

Product Description	Part Number
Temperature and Humidity Sensor, CN470, built-in antenna, 19Ah	100-00051
Temperature and Humidity Sensor, CN470, external antenna, 19Ah	100-02051
Temperature and Humidity Sensor, CN470, 1A2, built-in antenna, 19Ah	100-02152
Temperature and Humidity Sensor, CN490, 4A2, built-in antenna, 19Ah	100-02552
Temperature and Humidity Sensor, CN433, external antenna, 22Ah	100-02052
Temperature and Humidity Sensor, EU868, 19Ah	100-00139
Temperature and Humidity Sensor, AS923, 19Ah	100-00141
Temperature and Humidity Sensor, AU915, 19Ah	100-00193
Temperature and Humidity Sensor, US915, 19Ah	100-00194
Temperature and Humidity Sensor, RU864, 19Ah	100-00195
Temperature and Humidity Sensor, IN865, 19Ah	100-00196
Temperature and Humidity Sensor, KR920, 19Ah	100-00203
Temperature and Humidity Sensor, CLAA, built-in antenna, 19Ah	100-00155

# OUTDOOR LoRaWAN GATEWAY

## KEY FEATURES

- Support LTE Cat4 cellular mobile network
- Support WiFi and GPS functions
- 100MBase-T Ethernet with PoE
- Equipped with IP65 protection grade shell, suitable for outdoor use
- Private or public LoRa network server is available
- Suitable for industrial operating temperature range

## SPECIFICATIONS

CPU	MT7628, DDR2 RAM 128MB
WiFi Characteristics	Operating frequency: 2.400-2.4835ghz (802.11 b/g/n) Minimum receiving sensitivity: -95dbm Maximum transmitting power :20dBm Default
LoRa Characteristics	8-channel (optional 16-channel enhanced version) Minimum receiving sensitivity: -142DBm Maximum transmitting power :27dBm Working frequency band :EU433/CN470/EU868/ US915 / AU915 / AS923 / KR920 / IN865
Mobile Cellular Network	Support optional NB-IOT /CatM/LTE4G/GPRS(DE-FAULT support EG95: LTE CAT 4)
Power Supply	PoE (IEEE 802.3af), 42~57VDC
Power Consumption	12W (Typical situation)
Antenna	Five N-type antenna interfaces
Protection Grade	IP65
Shell Material	Aluminium
Weight	1.3kg
Dimensions	224mm x 121mm x 42mm
Operating Temp	-30 to 65°C
Installation Method	Lever or wall-mounted
LoRa Transmission Power	27dBm (Maximum)
LoRa Reception Sensitivity	-142dBm (Minimum)



WiFi Standard	IEEE 802.11b/g/n
WiFi Frequency	ISM band: 2.412~2.472(GHz)
WiFi Channel	2.4GHz: 1-13
WiFi Transmission Power	• 802.11b 19dBm@ 1Mbps • 802.11g 18dBm@ 6Mbps 16dBm@ 54Mbps • 802.11n(2.4G) 18dBm@MCS0 (HT20) 1 6dBm@MCS7 (HT20) 17dBm@MCS0 (HT40) 15dBm@MCS7 (HT40)
WiFi Reception Sensitivity	• 802.11b -95dBm@ 1Mbps • 802.11g -90dBm @6 Mbps -75dBm@54Mbps • 802.11n(2.4G) -89dBm@MCS0 (HT20) -72dBm @MCS7(HT20) -86dBm @MCS0(HT40) -68dBm @MCS7(HT40)

# OUTDOOR LoRaWAN GATEWAY

## ORDERING INFORMATION

Product Description	Part Number
LoRaWAN Gateway, Outdoor, 16 uplink channels, Ethernet, 4G, NS, CN470, IP67	100-00062
LoRaWAN Gateway, Outdoor, 8 uplink channels, Ethernet, 4G, NS, EU868, IP67	100-00032
LoRaWAN Gateway, Outdoor, 8 uplink channels, Ethernet, 4G, NS, AS923, IP67	100-00033
LoRaWAN Gateway, Outdoor, 8 uplink channels, Ethernet, 4G, NS, IN865, IP67	100-00078
LoRaWAN Gateway, Outdoor, 8 uplink channels, Ethernet, 4G, NS, US915, IP67	100-00128
LoRaWAN Gateway, Outdoor, 8 uplink channels, Ethernet, 4G, NS, AU915, IP67	100-00085