

# B005 Bluetooth Beacon

Experience long-lasting, hassle-free Bluetooth tracking with the Lansitec B005 Bluetooth Beacon, a robust BLE device delivering up to five years of continuous operation at a 500 ms advertising interval. Equipped with two high-capacity CR2477 batteries (total 2000 mAh), it broadcasts iBeacon or AoA messages to compatible gateways within a 150 m line-of-sight range. The IP68-rated enclosure and optional temperature monitoring ensure reliable performance in challenging conditions—making this beacon perfect for healthcare facilities, fleet operations, and large-scale asset tracking.

**Extended Battery Life**

Two CR2477 coin cells (2000 mAh total) enable up to five years of operation at 0 dBm, 500 ms transmit intervals.

**Configurable Broadcast**

Advertisement intervals range from 100 ms to 10 s, with adjustable TX power from -20 dBm to +4 dBm.

**IP68 Enclosure**

Dustproof, waterproof design (82 × 64 × 21 mm) with optional integrated temperature sensor (±5 °C accuracy).

**AoA (Optional)**

Enhance location accuracy when paired with AoA-capable gateways, providing sub-meter asset or personnel tracking.

**High Production Capacity**

Scalable supply of over 300 k units per month for widespread deployments in hospitals, factories, or logistics centers.



**SCENARIO**



**HOSPITAL ASSET TRACKING**

Securely attach the beacon to essential medical gear (like ventilators, portable imaging devices) for multi-year tracking without frequent battery changes. Real-time location updates minimize the risk of lost or delayed equipment.



**WAREHOUSE OPTIMIZATION**

Place beacons on pallets or storage bins. The extended battery life allows them to remain in place for years, reducing maintenance overhead while providing continuous inventory visibility.



**EXTREME-TEMPERATURE DEPLOYMENTS**

Leverage the optional -40 °C to +125 °C battery configuration for cold storage facilities or hot industrial plants, preserving operational data in harsh conditions.



**OUTDOOR EVENT MANAGEMENT**

Deploy beacons at outdoor fairs or festivals under IP68 protection. AoA capabilities and optional buzzer features enable real-time geolocation of staff or temporary structures, optimizing crowd flow and safety.

**SPECIFICATIONS**

**CONNECTIVITY**

<b>Bluetooth Protocol</b>	5.0, iBeacon, Bluetooth AoA
<b>RF Power</b>	-20~+4 dBm, configurable in 4 dBm steps
<b>Sensitivity</b>	-96dBm
<b>Advertise Interval</b>	100ms ~ 10s adjustable
<b>Coverage Range</b>	150m sight distance
<b>Supply Capacity</b>	>300k/month
<b>Frequency</b>	2.4GHz

**MECHANICS**

<b>Material</b>	PC
<b>Colour</b>	White
<b>Dimension</b>	82*64*21mm (with the lug)
<b>Weight</b>	43g
<b>Operating Temperature</b>	-20°C~+70°C; optional: 1200mAh battery, -40°C~+125°C
<b>Storage Temperature</b>	-25°C~+75°C
<b>Operating Humidity</b>	5% ~ 95% (non-condensing)
<b>Ingress Protection</b>	IP68

**FUNCTIONS**

<b>Temperature Report</b>	Optional, please advise Lansitec upon ordering
<b>Temperature Sensor Range</b>	-40°C~+85°C
<b>Temperature Accuracy</b>	Chamber temperature in the beacon, ±5°C
<b>Temperature Resolution</b>	0.25°C
<b>Buzzer</b>	Optional

**POWER**

<b>Battery</b>	CR2477 (1000mAh) x2
<b>Battery Capacity</b>	2000mAh
<b>Battery Life</b>	129 months @ 0dBm, 5s advertisement interval (with accelerometer) 162 months @ 0dBm, 5s advertisement interval (without accelerometer)

<b>Average Current</b>	15 $\mu$ A @ 0dBm, 5s advertising interval, (with accelerometer)
	12 $\mu$ A @ 0dBm, 5s advertising interval, (without accelerometer)

## ORDERING INFORMATION

<b>Product Description</b>	<b>Part Number</b>
BLE Beacon, 82x64x21mm, IP68, 2000mAh	100-02395
<b>Certification</b>	CE, FCC