

Indoor Bluetooth Gateway

Purpose-built for indoor deployments, the Lansitec Indoor Bluetooth Gateway marries long-range BLE 5.0 scanning with global NB-IoT / LTE-M back-haul to stream beacon and sensor data straight to the cloud. The compact 120 × 120 × 31 mm unit mounts on any wall or ceiling, draws 5 V / 1 A power, and carries a 600 mAh backup battery for ≈ 10 h of outage resilience. With TLS 1.2 security, geo-fencing and edge payload filtering, it is a plug-and-play cornerstone for indoor RTLS, safety and analytics systems.

Dual NB-IoT / LTE-M Back-haul

Worldwide LPWAN bands with MQTT / HTTPS endpoints.

BLE 5.0 Long-Range

Captures iBeacon, Eddystone & private sensor frames up to 120 m LOS.

High-Throughput Engine

Ingests 200 beacon msgs / s and bundles 15 per cellular packet.

3 m Indoor Accuracy

RSSI trilateration plus configurable geo-fence alerts.

TLS 1.2 Secure Pipe

End-to-end encryption with AES-128 payload protection.

Smart Edge Filtering

Byte-level filters & compression cut airtime and fees.

Battery + Mains Power

600 mAh Li-ion gives ~10 h backup during outages.

FOTA & Telemetry

Wireless firmware updates and status LEDs for zero-touch maintenance.



SCENARIO



HOSPITAL ASSET TRACKING

Locate imaging carts, infusion pumps and surgical kits in seconds to boost utilisation and prevent loss.



PUBLIC SPACE MANAGEMENT

Monitor visitor flow and environmental sensors in malls, stations or arenas to optimise crowd comfort and safety.

NB-IoT & LTE-M Indoor Bluetooth Gateway



SMART CAMPUS ANALYTICS



MUSEUM EXHIBIT MONITORING

Correlate student traffic, library occupancy and indoor air quality to enhance campus services and resource planning.

Protect artifacts with vibration / temperature beacons and receive instant cellular alerts on abnormal handling.

SPECIFICATIONS

CONNECTIVITY

| | |
|-----------------|---------------|
| Protocol | MQTT, HTTP(s) |
| LoRaWAN | Optional |

| LTE-FDD | Band | Data Rate (Peak) |
|-----------------|------------------------------------|------------------------------------|
| LTE-M | B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/ | 588 (DL) |
| | B20/B25/B26/B27/B28/B66/B85 | 1119 (UL) |
| NB-IoT | B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/ | Cat NB2: 127 (DL) 158.5 (UL) |
| | B20/B25/B28/B66/B71/B85 | Cat NB1: Max. 32 (DL) Max. 70 (UL) |
| Wifi | Optional, 2.4GHz, positioning only | N/A |
| SIM Card | Nano and eSIM | N/A |

BLUETOOTH

| | |
|---------------------------------------|---|
| Bluetooth Protocol | 5.0, iBeacon, Eddystone, private |
| Bluetooth TX Power | -20 to +4 dBm TX power, configurable in 4 dBm steps |
| Bluetooth Sensitivity | -96dBm |
| Bluetooth Positioning Accuracy | 3m |

MECHANICS

| | |
|------------------------------|---------------------------|
| Dimension | 120*120*31mm |
| Weight | 175g |
| Operating Temperature | -40°C ~ +85°C |
| Storage Temperature | -45°C ~ +85°C |
| Operating Humidity | 5% ~ 95% (non-condensing) |

FUNCTIONS

| | |
|--|--|
| Configurable Bluetooth data filter and payload report | Filter any data bytes in a Bluetooth payload and report any via NB-IoT and LTE-M |
| Adjustable Position Report Interval | 5s x n (1 to 65536) |
| Heartbeat Report Interval | 30s x n (1 to 65536) |
| FOTA over Bluetooth | Support |
| Geo-fence | Support |

NB-IoT & LTE-M Indoor Bluetooth Gateway

| | |
|-----------------------------------|--|
| Transmission Capacity | 200 beacon messages can be received within 1s, 15 (default) beacon messages can be sent in one package |
| Encryption | TLS1.2 |
| Bluetooth data compression | Support |

POWER

| | |
|--------------------------------|-------------------------------------|
| Battery | Li-ion rechargeable battery, 600mAh |
| Power Supply Mode | 5V/1A |
| Status LED | Support |
| Connect to Power Source | Yes |
| Charge Jack | Micro USB |

| | |
|----------------------|--------------|
| Certification | CE, FCC, RCM |
|----------------------|--------------|

ORDERING INFORMATION

| Product Description | Part Number |
|---|--------------------|
| Bluetooth Gateway, Bluetooth 5.0, NB-IoT, LTE-M, 120x120x31mm, 5V, 600mAh | 100-NBBG5 |