

Compact Bluetooth Gateway

Take your remote asset monitoring and environmental sensing to the next level with the Lansitec Macro Bluetooth Gateway (Cat-1). Engineered around a high-capacity 38,000mAh lithium battery, it delivers an impressive five years (or more) of untethered performance—even in extreme temperatures ranging from -40°C to +70°C. With robust Cat-1 connectivity, the gateway seamlessly relays BLE beacon data (iBeacon, Eddystone, or private protocols) to your cloud platform, enabling real-time insights without relying on Wi-Fi or wired infrastructure. Its IP66-rated enclosure ensures consistent operation under harsh or dusty conditions, while adjustable scanning and reporting intervals let you balance power efficiency and data granularity. Whether you're safeguarding critical hospital equipment, optimizing fleet routes, or analyzing productivity in large warehouses, the Macro Bluetooth Gateway provides a low-maintenance, long-lasting solution that helps you reduce downtime, cut costs, and maintain total visibility over your operations.



Portable Power

A 600 mAh Li-ion battery delivers 10 hours of operation when no external power is available, recharging via a standard 5 V/1 A Micro USB port.

Global Cat-1 Connectivity

Multiple frequency bands (B1/B3/B5/B7/B8/B20, etc.) for worldwide coverage.

Customizable BLE Payload

Filter specific bytes in BLE sensor data to reduce bandwidth usage and optimize cloud reports.

Adaptable Report Intervals

Balance real-time data needs with power efficiency by adjusting data and heartbeat intervals.

Easy Setup

Compact, 7 mm-thick design slips into tight spaces, with optional mounting hardware for flexible installation.

FOTA via Bluetooth

Update firmware wirelessly, ensuring minimal downtime and simpler on-site maintenance.

SCENARIO



VEHICLE TRACKING

Temporarily install the gateway in rental fleets or company vehicles to gather telemetry (e.g., mileage, battery status), then upload it through Cat-1 to central systems, even when on the move or in remote locations.



POP-UP RETAIL OR EVENTS

Monitor foot traffic and customer interactions at trade shows, markets, or fairs. The gateway's 10-hour internal battery bridges gaps in power supply and simplifies fast, temporary deployments.

LTE Cat-1 Compact Bluetooth Gateway



INVENTORY SCANNING ZONES



HOSPITAL ASSET TRACKING

Create semi-permanent scanning stations in warehouses or distribution centers. When power outlets are scarce, rely on the gateway's onboard battery to capture BLE data from pallets or containers before uploading to management systems.

Deploy in labs or emergency pop-up clinics to track mobile medical equipment. The device's portable power eliminates the need for dedicated power lines, ensuring uninterrupted monitoring of critical resources.

SPECIFICATIONS

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 Distance	150m sight distance

CAT-1

Regions	North America	Europe / Africa	China / India	Latin America
FFD	B2/B4/B5/B12/B13/B66	B1/B3/B5/B7/B8/B20	B1/B3/B5/B8	B2/B3/B4/B5/B7/B8/B28/B66
TTD	N/A	N/A	B34/B38/B39/B40/B41	N/A
SIM Card	Nano or eSIM			
Protocol	MQTT, HTTP(S), TCP, UDP			

FUNCTIONS

Adjustable Data Report Interval	5s x n (1 to 65536)
Heartbeat Report Interval	30s x n (1 to 65536)
Configurable Bluetooth data filter and payload report	Filter any data bytes in a Bluetooth payload and report any via Cat-1
FOTA over Bluetooth	Support
Battery Level Report	Support
Switch	Mechanical
Positioning Precision	3m
Cellular-based Positioning	Support
Bluetooth data compression	Support

MECHANICS

Dimension	97*62*7mm
Housing Materials	ABS
Operating Temperature	-10°C ~ +65°C
Storage Temperature	-20°C ~ +80°C
Operating Humidity	5% ~ 95% (non-condensing)
Weight	35g

POWER

Battery	Li-ion rechargeable battery 600mAh
Standby Current	25µA
Max. Current	450mA
Power Supply Mode	5V/1A
Charge Jack	Micro USB
Bluetooth positioning	Approx. 2700 times
GNSS	Approx. 1200 times

ORDERING INFORMATION

Product Description	Part Number
Bluetooth Gateway, built-in antenna, Bluetooth 5.0, Cat-1, 95.4x61.4x7mm, Li-ion 600mAh	100-000C3
Certification	CE, FCC