



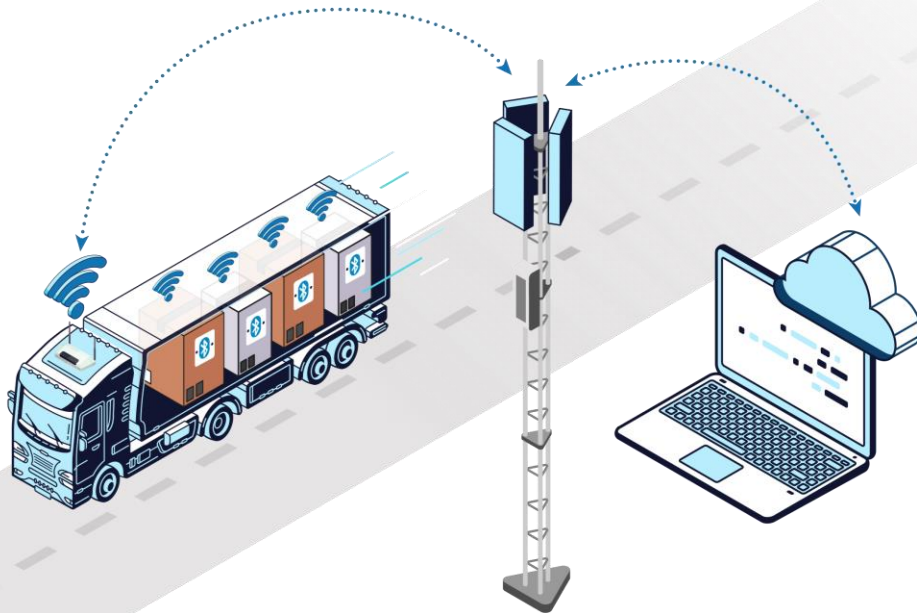
Based on LoRaWAN®

Cargo Freight Tracking Solution

2023 · 2 · 20

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BLE Tag for low cost and long battery life

BLE to LoRaWAN[®] bridge for long distance backhaul

LoRaWAN[®] gateway access to application server
(customer side)



The badge is placed in the cab, scans BLE tag every 30 seconds and reports tag information to cloud server, and can report up to 50 tags at a time.



BLE tags are placed on the cargo and broadcast every five seconds.

The cloud server should count the tags detected in real time.

If some tags cannot be detected within a period of time, the cargo corresponding to the tags may have been lost.

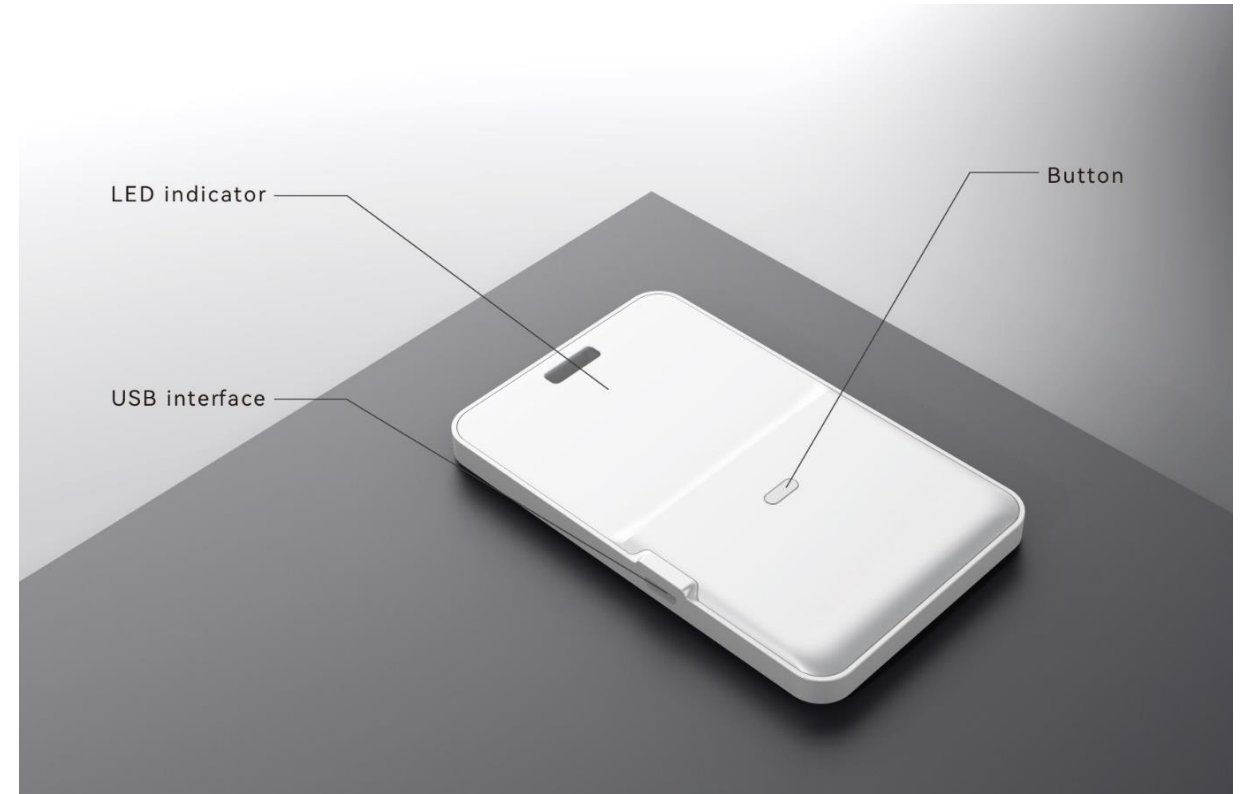


The badge can obtain the GPS position periodically, so it can indirectly get the real-time position of the cargos.



BLE + LoRaWAN[®] + GPS

Dimension	98 × 60 × 7.7 ~ 9.1 mm
Weight	50 g
Materials	ABS
Bluetooth Protocol	Bluetooth [®] LE 5.0
Battery	Rechargeable lithium battery, 800 mAh
Protocol	LoRaWAN [®] 1.0.3, OTAA/ABP
Operating Temperature	-20 ~ 60°C
Certification	FCC, CE



Dimension	36.5 × 23.7 × 5 mm
Weight	6.5 g
Materials	ABS
Bluetooth protocol	Bluetooth [®] LE 5.0
Battery	CR series button battery, 230 mAh, 3 years
Transmission range	60 m



Dimension	77 x 30 x 14 mm
Weight	35 g
Protection	IP69K
Bluetooth Protocol	Bluetooth [®] v4.2
Battery	Lithium Manganese Dioxide, 3V 1500 mAh
Non-removable Battery Lifetime	Up to 5 years (depending on the usage)
Operating Temperature	-20 ~ 60°C
Certification	CE, FCC, IC, UN ECE R10





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