

CareBand 4

Product Overview

Location Tracker with Button, BLE and LoRaWAN™

CareBand is a wearable location tracker providing indoor location, geofencing capability, contact tracing/social distancing, and in-use sensors. The system enables live and historical location tracking without user interaction. The device uses a patent-pending, power-efficient combination of Button, BLE, and LoRaWAN™. It is lightweight and possesses a rechargeable 3-day battery depending on usage requirements. Standard installation can take 30 minutes while in a building up to 3 hours. Compatible in North America and EU.



Hospital



Senior Living



Community



Construction



Education



Hospitality

Technical and Functional System Specifications

LoRa Parameters

RF Power	18.5 dBm NA / 14 dBm EU
RF Sensitivity	-146 dBm (SF12, 125 kHz)
ISM Band	915MHz NA / 868MHz EU / 865MHz IN
Antenna	-4 dBi
LoRa Device Class	Class A

System Parameters

Operational Temperature	-30 to +70 C
Ingress Protection	IP65
Size	47.7 x 34.5 x 13.5 mm
Location Tracking	Indoor
Battery	up to 3 days (wireless recharge) depending on usage and use case

Regulatory Compliance

Regulatory	FCC/CE (pending)
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Features

- Long-range, low-power wireless communication via LoRaWAN™
- Indoor location tracking with intra-room, room, floor level accuracy
- Outdoor location tracking up to 5m accuracy with geofencing capability
- On-body sensor capable of knowing if the device is on or off the person
- Device functional status through visual and haptic alerts (on/off, battery levels, etc.)
- Support for configuration and management by BLE or over-the-air
- Simple integration into LoRaWAN™ Networks

Specifications subject to change without notice

