LoRaWAN BLE Indoor Tracker

LBT-1

OVERVIEW:

The Dragino LoRaWAN BLE Tracker LBT1 is a BLE tracker base on Ultra Low Power micro controller Semtech LoRaWAN Module. The LBT1 is desiged for indoor positioning solution.

LBT1 includes a BLE 4.0 module which will periodically scan and find the nearest BLE i-beacon, then LBT1 will send the info of this nearest i-beacon via LoRaWAN network to IoT Server. So IoT server will know where is the LBT1.

The LoRa wireless technology used in LBT1 allows the user to send data and reach extremely long ranges at low data-rates.It provides ultra-long range spread spectrum communication and high interference immunity whilst minimising current consumption.

LBT1 has a alarm button for emergency tracking if needed. It also includes vibration sensor for status indication. LBT1 has a built-in motion sensor, with this sensor, LBT1 will also report the walking steps to server.

LBT1 is powered by 1000mA Li-on battery, user can program the device to work from weeks to months depends on the target use case.

Features:

- LoRaWAN 1.0.3 compliant
- Regular/ Real-time BLE tracking
- Built-in motion sensor
- Motion sensing capability
- Power Monitoring
- Charging clip with USB port
- 1000mA Li-on Battery power
- Tri-color LED, Alarm button

Power Comsuption:

- Sleeping Mode: 77uA
- Scanning: 20mA
- LoRa Transmit: 24 ~ 150mA

Dimension:

- Size: 85 x 48 x 15 mm
- Net Weight: <55g

Specification:

MCU Side:

- MCU: STM32L072CZT6
- Flash:192KB
- RAM:20KB
- EEPROM:6KB

Order Info:

LBT1-XXXXX

XXXXX for valid frequency band, include:
EU868, US915, AU915, AS923, EU433
IN865, KR920, CN470