![MOKO SMART]

LW001-PRO

Datasheet

MOKO TECHNOLOGY LTD.
www.mokosmart.com

Contents

1 Description

LW001-BG PRO is a wireless smart, ultra-low power consumption, indoor&outdoor LoRaWAN Tracker. It integrates GPS positioning, Bluetooth positioning and WiFi positioning, supports a variety of working modes, suitable for most tracking applications. It supports ABP and OTAA two different network access mode, and easy to configure and update firmware by MKLoRa APP.

Ideal to optimize logistic process, asset management, warehouse and inventory scenarios, outdoor tracking, theft protection, livestock tracking and much more.

2 Features

- Based on LoRaWAN™ Protocol
- Firmware update Over The Air (OTA)
- Local data back-up for uplink payloads
- Support anti-demolition alarm
- Support motion detection
- Support vibration detection
- Support idle detection function
- Low battery indicator
- Ultra-low power, Max. 5-year operating time (Under typical scenario)
- Multiple working modes (Standby mode, Timing mode, Periodic mode, Motion mode)
- Multiple and high precision positioning technologies (GPS positioning, Bluetooth positioning, WIFI positioning)
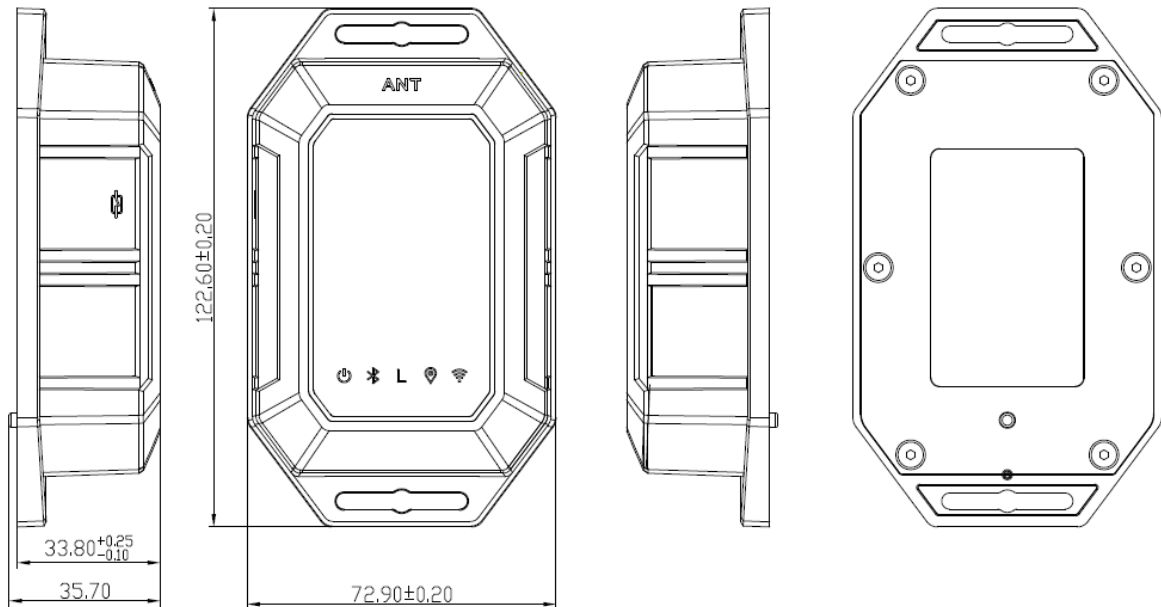
3 Specifications

Categories	Parameter	Value
LoRa Wireless Specification	LoRa Protocol	LoRaWAN V1.0.3
	Lora Frequency	EU868/AU915/US915/AS923/IN865/KR920/EU433/CN470/CN779/RU864
	Tx Power	Max 20dBm
	Sensitivity	
	LoRa Communication	Up to 6 km (in urban open space)

	Distance	
BLE Wireless Specification	Bluetooth® (BLE)	V4.2
	TX Power	Max 8 dBm
	BLE Communication Distance	Up to 50m in free space
Physical Parameter	Dimension	122mm×72mm×33mm（±2mm）
	Net Weight	
	Shell Material	ABS+PC
Power Consumption	Power Supply	mAH no-chargeable battery
	Operating Current	< 180mA
	Sleep Current	< 15uA
Application Parameter	Operating Temperature	-20 ~ + 60℃
	Operating Humidity	5%-95%（No condensation）
	IP Rating	IP67

4 Hardware Interfaces and Indicator

Items	Indicator	Operation	Remark
Turn ON	Solid Green and keep 3S (power indicator)	Approach and quickly move away from the Hall sensor area with a magnet 3 times (Each approach needs to be held for about 0.5s at least)	Detailed operation can be seen in the video instructions
Turn OFF	Green LED Blink 3S (power indicator)	Approach and quickly move away from the Hall sensor area with a magnet 3 times (Each approach needs to be held for about 0.5s at least)	Detailed operation can be seen in the video instructions

5 Mechanical Size

6 Package Information

Item	Qty	Remark
LW001-BG	1	
Double-sided adhesive	1	Used for directly sticking the product to a smooth surface
Positioning screws	2	Used for fixing on the wall
Expansion rubber plug	2	Used for fixing on the wall
User Leaflet	1	To help customers quickly use the product

7 Order Information

Product Type	Product Description

LW001-BG-US915	915Mhz LoRaWAN Tracker with BLE, WIFI and GPS
LW001-BG-EU868	868MHz LoRaWAN Tracker with BLE, WIFI and GPS

8 Revision History

Version	Description	Editor	Date
1.0	Initial version	Allen	2021-08-30

MOKO TECHNOLOGY LTD.

4F,Buidling2, Guanghui Technology Park,
MinQing Rd, Longhua, Shenzhen, Guangdong, China

Tel:86-755-23573370-829

support_lora@mokotechnology.com

https://www.mokosmart.com

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