MOKO Bluetooth to LoRaWAN Gateway

LW003-B

MOKO SMART

Product Introduction

LW003-B is a Bluetooth-LoRaWAN gateway integrating LoRa and Bluetooth wireless Communication. LW003-B can scan Bluetooth Beacon data and send data to LoRaWAN-Based gateway, and then upload to server, so as to realize personnel tracking, indoor positioning, asset monitoring and environmental monitoring.

Features

Mini size and compact design

The gateway has a mini body, easy to deploy

Multiple Bluetooth scan strategies available

Users can choose different scan & report strategies according to different application scenarios

Multiple data filtering mechanisms

Filter by RSSI, MAC address, ADV name and raw data(Specially compatible with MOKO's own Beacon) to help customers effectively obtain target data

Uploaded content selection

Users can choose to report only the valid fields they need(Specially compatible with MOKO's own Beacon), rather than all broadcast data, reducing device power consumption and reporting of useless data

BLE 5.0 supported

LW003-B supports scanning and reporting of Bluetooth 5.0(1M PHY & Coded PHY) broadcast data

Duplication data filter mechanism

Only upload non-repetitive data to your server during a filter period, effectively saving server resources

Low power and shut down prompt

The device will send uplink payload as a status alert when the device is low on power or shuts down automatically

Device state when repowered

When the device is recharged after running out of power, user can choose to make the device switch on or keep off state automatically

Applications

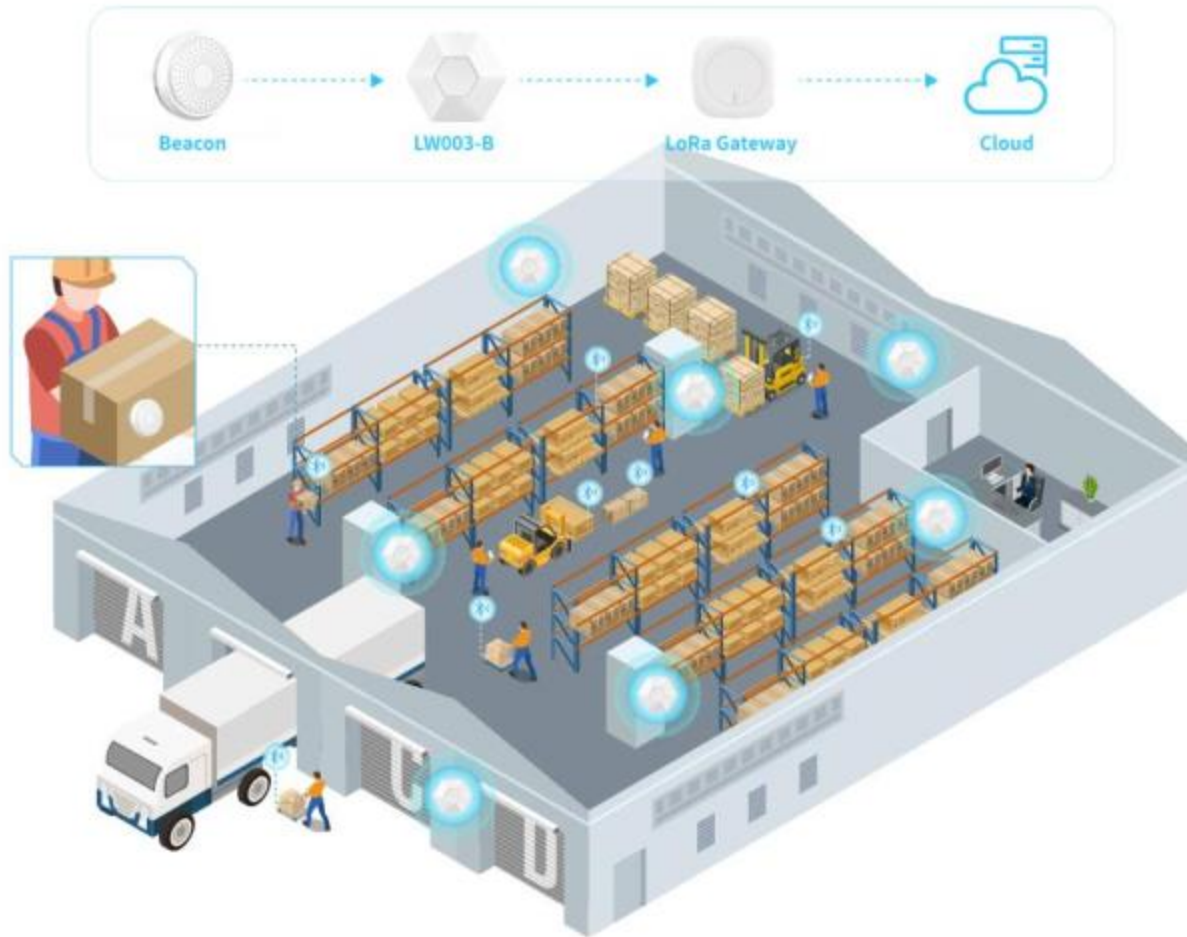Beacon → LW003-B → LoRa Gateway → Cloud

Scenario 1: Indoor Positioning

With the work card type Beacon, through the Bluetooth scanning function and triangle positioning algorithm to do personal indoor positioning, such as enterprises, government, hospitals, hotels and other applications

Applicable function:

Indoor Positioning;
Bluetooth Positioning;

Applications

Beacon → LW003-B → LoRa Gateway → Cloud

Scenario 2: Asset Monitoring/Warehouse Management

Users can attach Bluetooth beacons to important equipment that needs to be monitored (such as ourH2.H2A) and install LW003-B around important equipment in the factory.

The LW003-B will continuously scan for Bluetooth beacon broadcast messages and report them to the server. In this case, the backend server should be able to continuously receive the beacons from the corresponding LW003-B transmitted by the Bluetooth beacons bound to the device. If no data is received from the corresponding LW003-B for a period of time, the goods which was monitored maybe moved abnormally.

Applicable function:

Asset tracking;
Warehouse management;
Presence Detection;

Applications

Scenario 3: Environment Monitoring

LW003-B has a built-in temperature and humidity sensor, and can report temperature and humidity data periodically data.

It is commonly used in indoor scenes, such as offices, factories, hospitals, schools, etc.
So, The user can analyze and count the reported temperature and humidity at the same time when using the Bluetooth gateway function, thus realizing the function of environmental monitoring at the same time.

Applicable function:
Bluetooth Gateway;
Environment Monitoring;
Temperature;
Humidity;

Main Specification

LoRaWAN

LoRaWAN V1.0.3

4 km communication distance
(in urban open space)

Battery

4200mAh
Rechargeable battery

Material

ABS

Dimensions

122.7mm×109mm×36mm

Bluetooth

BLE 5.0 Supported

150m scan distance
(In urban open space)(BLE 4.2 or BLE 5.0 1M PHY)

300m scan distance
(In urban open space)(BLE 5.0 Coded PHY)

Color

White

Certification

USA: FCC
Europe: CE
The certifications are on the process,
other certifications can be customized

Customized Service

Based on MOKO standard product

➢ You can develop your own mobile APP, MOKO provides Android and iOS APP SDK for you to reduce your development time
➢ Provides white label service, support customized label and package, also can print your company logo on the products
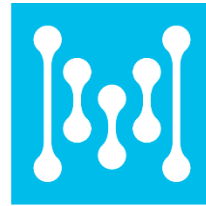
Based on MOKO standard hardware

➢ Support firmware and APP modification according to customer's requirements
➢ Support light customization on MOKO standard hardware

New product design

If MOKO standard products don't meet your requirements, MOKO supports the design of new products for you, including:
➢ Hardware design
➢ Software development
➢ Mechanical design

More details about the customized services, please contact our sales team: Sales@mokosmart.com

MOKO SMART

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