



MOKO BLE to WIFI Gateway

MKGW-mini Series



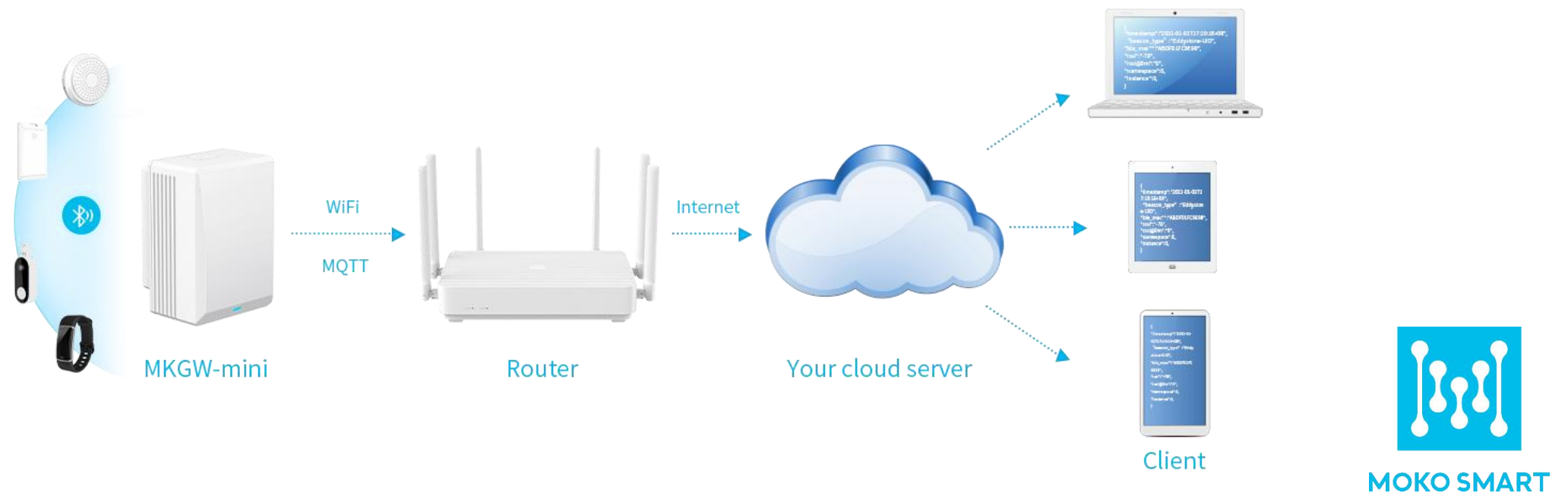
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Product Introduction

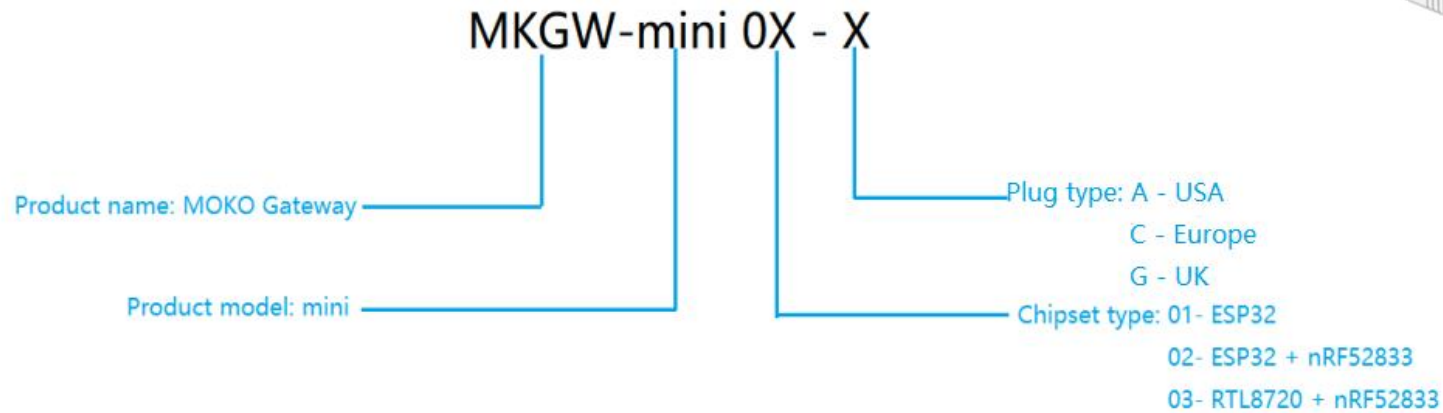
MKGW-mini series product is a Bluetooth Low Energy (BLE) to WIFI gateway, which works as a data bridge between your beacon and cloud server. It scans and collects the advertising data of the surrounding beacon through Bluetooth, and uploads the Bluetooth data packet to your server through the WIFI network, effectively realize indoor positioning service, centralized asset tracking and real-time status monitoring in a low-cost way.

MKGW-mini is equipped with interchangeable AC plugs and a Micro USB interface, has a flexible power supply method. And it is simple to install, can be used in many countries.

MKGW-mini gateway supports the connection of standard MQTT broker (such as EMQTT, Mosquito) and other servers that support the MQTT protocol, also can work with AWS iot and Alibaba Cloud iot. All data of the gateway will be directly uploaded to your own server, convenience for your further application development.



Product Model



Model	Master module	Slave module	Description
MKGW-mini 01	ESP32	/	Contains three plug types, supports 2.4GHz WIFI and BLE 4.2
MKGW-mini 02	ESP32	nRF52833	Contains three plug types, supports 2.4GHz WIFI and BLE 5.0
MKGW-mini 03	RTL8720	nRF52833	Contains three plug types, supports 2.4GHz & 5GHz WIFI and BLE 5.0



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Features



Mini size and compact design

The gateway has a mini body, will not block the second socket when deployed.



Flexible power supply method

Supports AC 100-240V and DC micro USB power supply.



Connection to customer server

All data is directly uploaded to your server, convenience for your further application development.



Duplication data filter mechanism

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



Flexible hardware solution

The communication module can be replaced quickly to realize other communication methods. Also supports the flexible combination of master and slave modules.



Interchangeable AC plugs

The AC plug can be interchanged flexibly so that it can be used in many countries.



Anti-collision falling off design

A locating hole is equipped on the US plug to fix the gateway on the socket to prevent from accident falling off.



Multiple data filtering mechanisms

Filter by RSSI, MAC address, ADV name and raw data to help customers effectively obtain target data.



Powerful data decoding capabilities

Locally decode iBeacon, Eddystone(UID/URL/TLM) and all MOKO beacon raw data.



FCC&UL&CE certified

Product quality and safety are guaranteed.

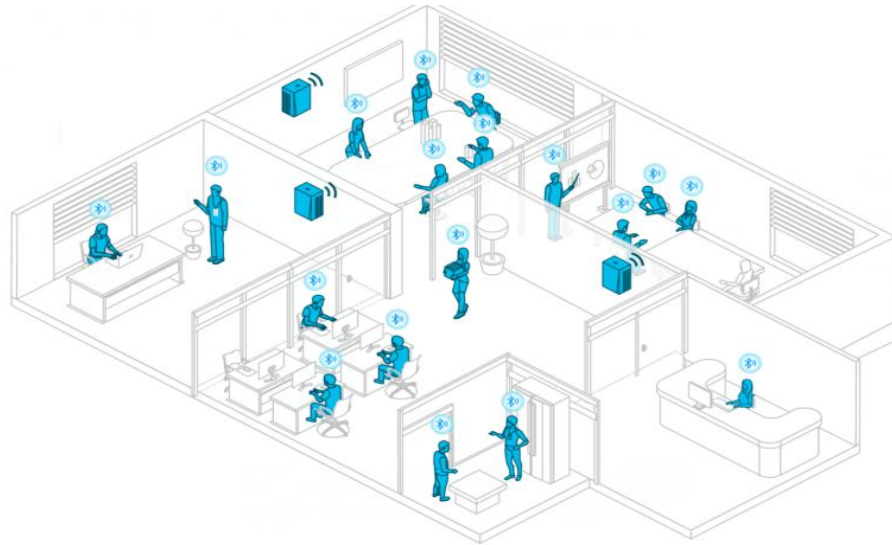
Applications

Based on its low cost, simple deployment and real-time scanning features, MKGW-mini gateway can be widely used in indoor positioning services, real-time condition monitoring and asset tracking, and is mainly used in smart factory, smart healthcare, smart farms and smart workplace.



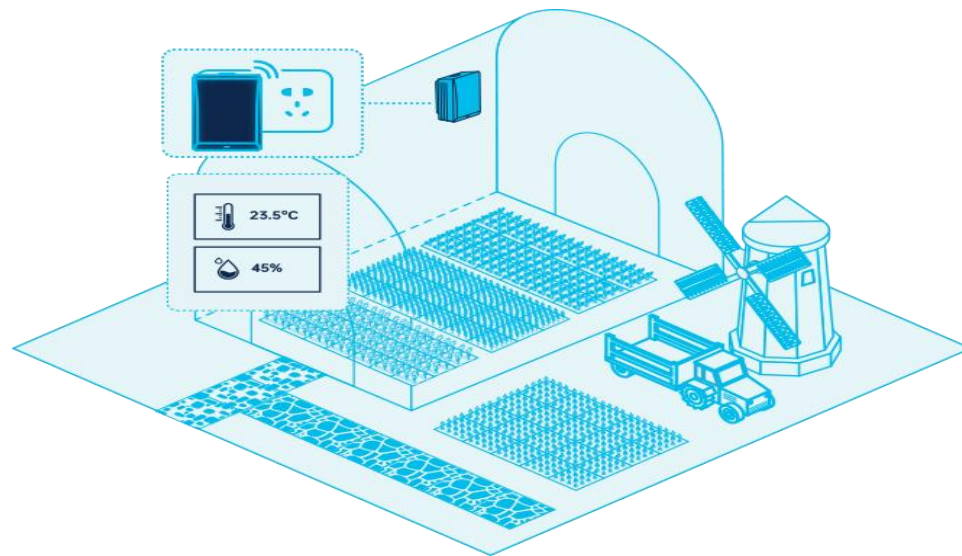
1. Indoor positioning and navigation

Deploy the gateway in the museum/exhibition, visitors who enter wear a beacon. The gateway scans the advertising data of the beacon and uploads the data to the server. According to RSSI, MAC address and other information, the real-time location of the visitor can be calculated and located on the server, and the navigation route can be provided.



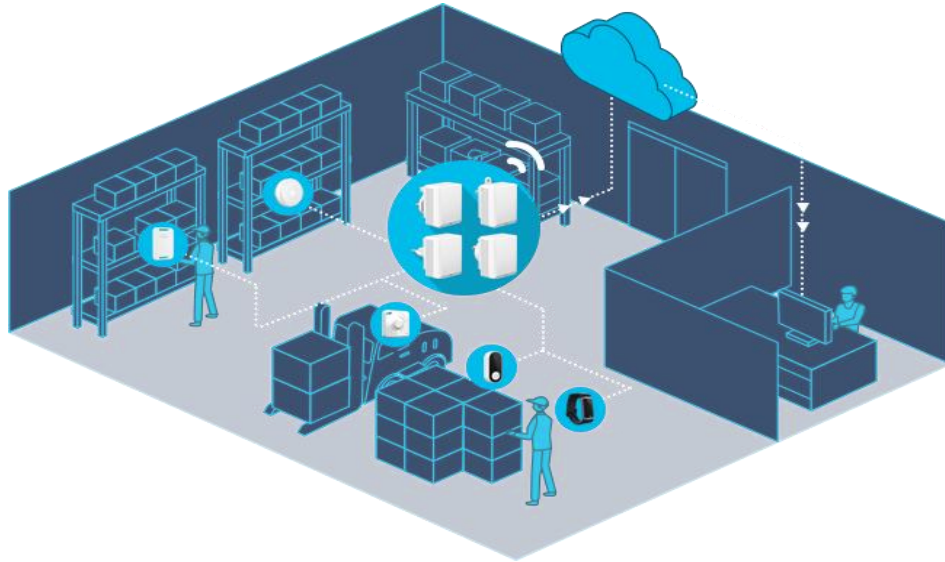
Scenario 2: Smart Workplace

Deploy the gateway in the workplace, the personnel need to wear an ID card (Beacon), the gateway scans the advertising data of the card and uploads it to the server. You can know the employee's attendance status, working hours and interaction at any time on the server.



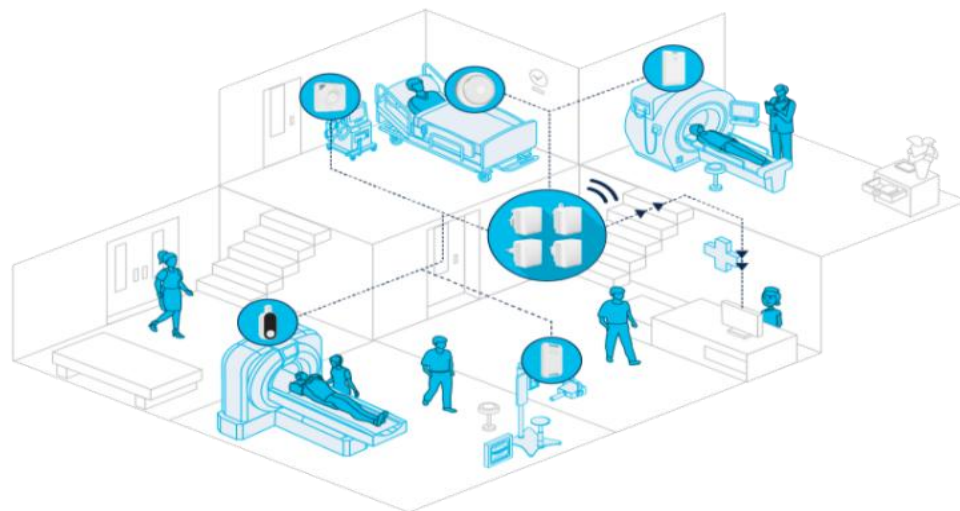
Scenario 3: Smart Farm

Deploy the gateway in the greenhouse, it can work with the temperature and humidity sensors. The gateway scans the advertising data of the sensor and uploads the data to your server. Generate the T&H change trend report on the server and send a notification when the temperature or humidity exceeds the appropriate range, so that the farmer can make timely adjustments.



Scenario 4: Smart Factory

Deploy the gateway in the factory, and deploy beacons on some important equipment, goods and forklifts. The gateway will scan the advertising data of the beacon and upload it to your server. The server can compute and locate the real-time position of the goods, generate motion trajectory reports, so as to understand the utilization rate of the goods. It also can send a notification when the goods are not scanned for a period of time.



Scenario 5: Smart Healthcare

Deploy the gateway in the hospital and deploy the beacon on some important and often used medical equipment. The gateway will scan the advertising data of the beacon and upload the data to the server. The server can compute and locate the real-time position based on the timestamp, RSSI, mac address and other messages, so as to realize asset tracking and management.

Main Specification

Wireless

WIFI & BLE

Power Supply

100V-240V AC, 50/60Hz;
DC 5V Micro USB

Color

White

Certification

USA: FCC, ETL

Europe: CE

UK: UKCA

The certifications are on the process,
other certifications can be customized

Plug Type

US/UK/EU

Material

ABS + PC

Dimensions

61.8mm*43.4mm*35mm



IoT Technologies

WiFi™

LoRa™

Bluetooth™

NB-IoT™

ZWAVE

ZigBee®

Customized Service

PCB layout design

If MOKO existing product does not meet your requirements, MOKO supports the redesign of the PCB according to your needs.

Product ID+MD customization

If MOKO existing product does not meet the your requirements for appearance, MOKO supports the redesign of product ID and MD to help you create a totally new product.

Firmware/APP customization

If MOKO existing product does not meet your requirements for functions, MOKO supports to modify the firmware/APP to make it meet your application scenario.

Firmware verification

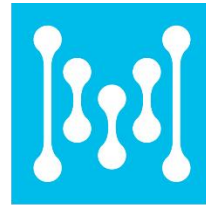
MOKO support to flash custom firmware when mass production, and provides relevant development documents to help you develop your own firmware.

Logo/Packaging design

MOKO can provide white label services, support custom packaging boxes, labels and logo printing to help you quickly establish your own brand.

Certification Service

As a long-term partner of TUV/UL lab, MOKO engineers are familiar with the certification standards of various countries, can provide professional certification services to help you obtain the certificates quickly.



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