



MOKO SMART

# Efficiency, Security, Connectivity

## Indoor PoE Gateway

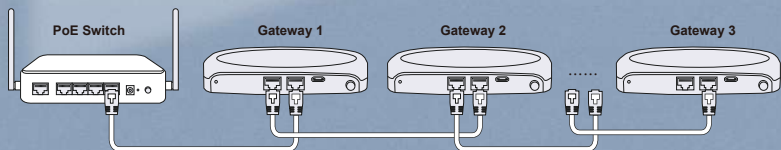
Enhanced performance



Flexible network options



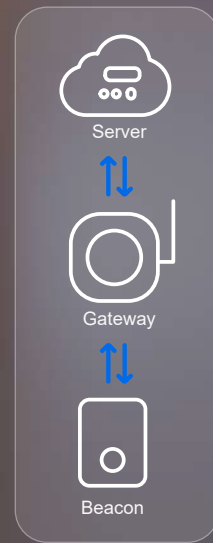
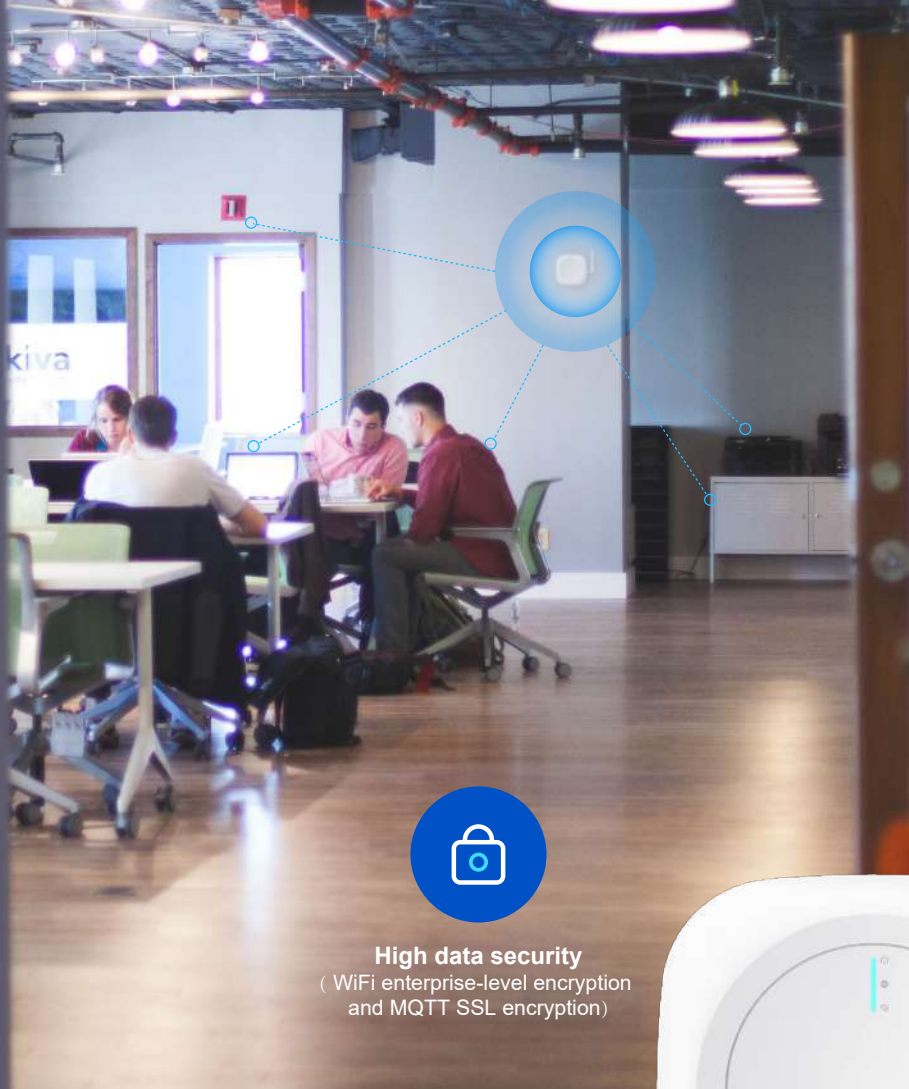
PoE Cascading (Supports up to 5 gateway POE cascades)



# MKGW3

## Indoor PoE Gateway

MKGW3 is a BLE (Bluetooth Low Energy) to POE (Power over Ethernet) Gateway based on Espressif ESP32 solution. With support for BLE 5.0, 2.4GHz WIFI, and Ethernet, it offers both wireless and wired connectivity options. Seamlessly connect to your cloud server via MQTT protocol. Acting as a vital data bridge between your beacon and cloud server, MKGW3 efficiently gathers nearby beacon advertising data, transmitting it to your server via WIFI or Ethernet. Plus, enjoy two-way communication with Beacon devices for remote management from the cloud. Experience cost-effective, real-time location services, condition monitoring, asset tracking, and personal safety management like never before.



Bi-directional gateway functionality



**High data security**  
(WiFi enterprise-level encryption and MQTT SSL encryption)



## Application Scenarios



Smart office



Factory



Healthcare

## General Specs

### Mechanics

Material	ABS+PC
Color	White
Dimension (L*W*H)	4.72 x 4.72 x 0.89 inches (120 x 120 x 22.5 mm)
LED indicator	3* intelligent RGB LED
Button	1* power button and 1*reset button
Interfaces	1*Micro USB, 1*POE in, 1*POE out
Antenna	1* external 2.4GHz BLE antenna
Battery	1* 1100 mAh Li-on rechargeable battery (optional)
Installation	Horizontal, hanging on wall or ceiling

### Environment

Operating temperature	-30 °C~ 50 °C
Storage temperature	-40 °C~ 60 °C
Humidity	Maximum 95% non-condensing RH

### Power

Micro USB	5V/1A
POE	IEEE 802.3af

### MCU

MCU	ESP32-WROOM-32E
Flash	4M
RAM	512KB SRAM

### WiFi

Band	2.4GHz
Protocol	802.11 b/g/n
Security	OPEN/WEP/WPA_PSK/WPA2_PSK/WPA_WPA2_PSK/WPA2-Enterprise (802.1x)

### Bluetooth

Module	ESP32-C3-MINI-1U
Bluetooth Protocol	BLE 5.0 (support 1M/2M/Coded LE PHY)
Bluetooth Mode	Scanning and advertising
Scanning Range	About 200 meters in an open space

### Communication

Protocol	MQTT V3.1.1
Encryption	SSL/TLS
Format	JSON