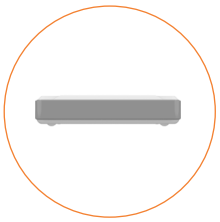
Products
Gateway

SEG-X5 ZigBee Gateway









Description

The SEG-X5 ZigBee Gateway acts as a central platform for your smart home system. It allows you to add up to 200 EPs into the system (Zigbee repeaters required). Automatic control, schedule, scene, remote monitoring and control for ZigBee devices can enrich your IoT experience.

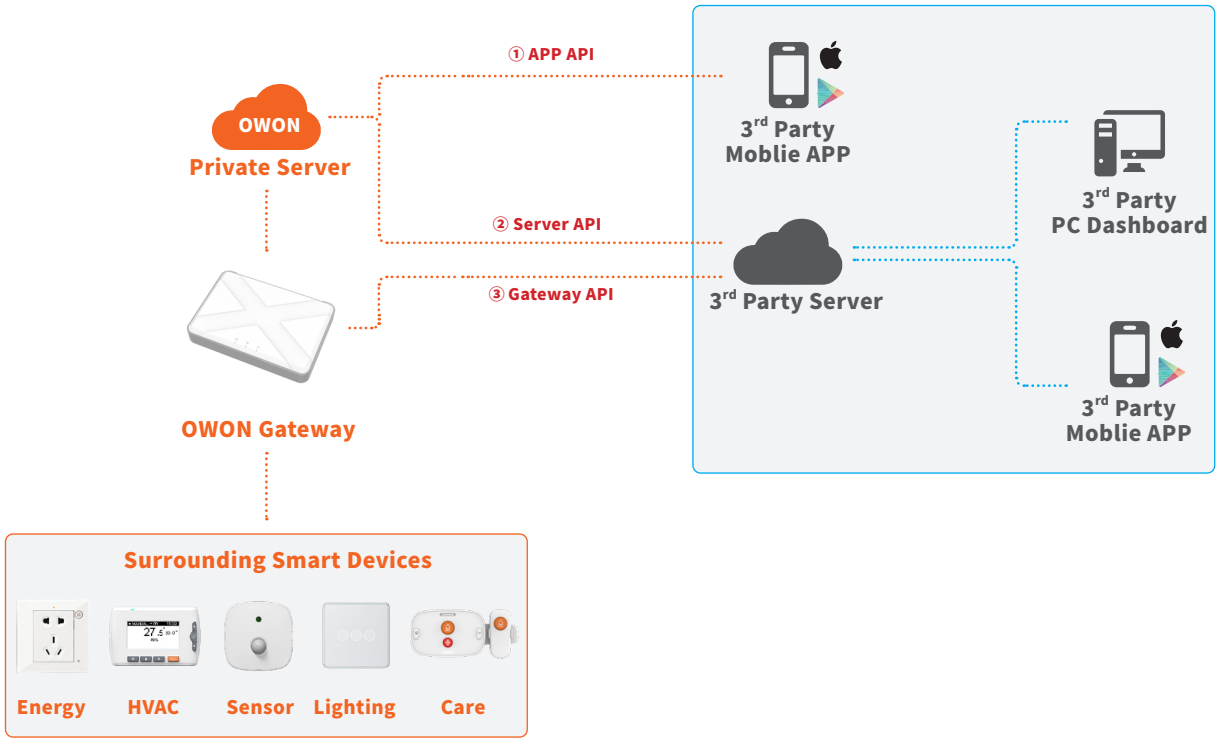
Main Features

- ZigBee 3.0
- BLE4.2 (Optional)
- Stable internet connection via Ethernet
- ZigBee coordinator of the home area network and provide stable ZigBee connection
- Flexible installation with USB power

- Built-in buzzer
- Local linkage, scenes, schedules
- High-performance for complicated calculation
- Real time, efficiently interoperability and encrypted communication with cloud server
- Support backup & transfer to replace gateway. The existing sub-devices, linkage, scenes, schedules will be synchronized to the new gateway in easy steps
- Reliable configuration via bonjur

API for Third-party Integration

The Gateway offers open Server API (Application Programming Interface) and Gateway API to facilitate the flexible integration between the Gateway and the third party Cloud Server. The following is the schematic diagram of the integration:



Main Specifications

Connectivity	
Ethernet RJ45 Port	• 10/100M bps • Auto MDIX
ZigBee	• 2.4GHz IEEE 802.15.4
ZigBee Profile	• ZigBee 3.0
BLE (Optional)	• BLE 4.2
RF Characteristics	• Operating frequency: 2.4GHz • Internal PCB Antenna • Range outdoor: 100m (Open area)
ZigBee sub-devices	• Connects with a maximum of up to 200 EPs (There must be at least 24 ZigBee repeaters) • Only connect up to 32 end devices when there is no ZigBee repeaters
Physical Specifications	
CPU	• MTK7628
Flash	• 32MB
Ram	• 128MB
Operating Voltage	• Micro-USB DC5V/2A
Operating environment	• Temperature:-20 ℃~+55 ℃ • Humidity: ≤ 90% non-condensing
Dimension	• 133 (L) x 91.5 (W) x 28.2 (H) mm
Plug Type	• US, EU, UK, AU
Mounting Type	• Tabletop stand or Wall mounting

Software	
System	• Linux@ OpenWrt
WAN Protocols	• IP Addressing: DHCP, Static IP • Data Porting: TCP/IP, TCP, UDP • Security Modes: SSL
Downlink Commands	• Data format: JSON • Gateway Operation Command • HAN Control Command
Uplink Messages	• Data format: JSON • Home Area Network information
Security	Authentication • Password protection on mobile apps • Server/gateway interface authentication ZigBee Security • Preconfigured Link Key • Certicom Implicit Certificate Authentication • Certificate-Based Key Exchange (CBKE) • Elliptic Curve Cryptography (ECC)