Products
Gateway

SEG-X3-C ZigBee Gateway





Description

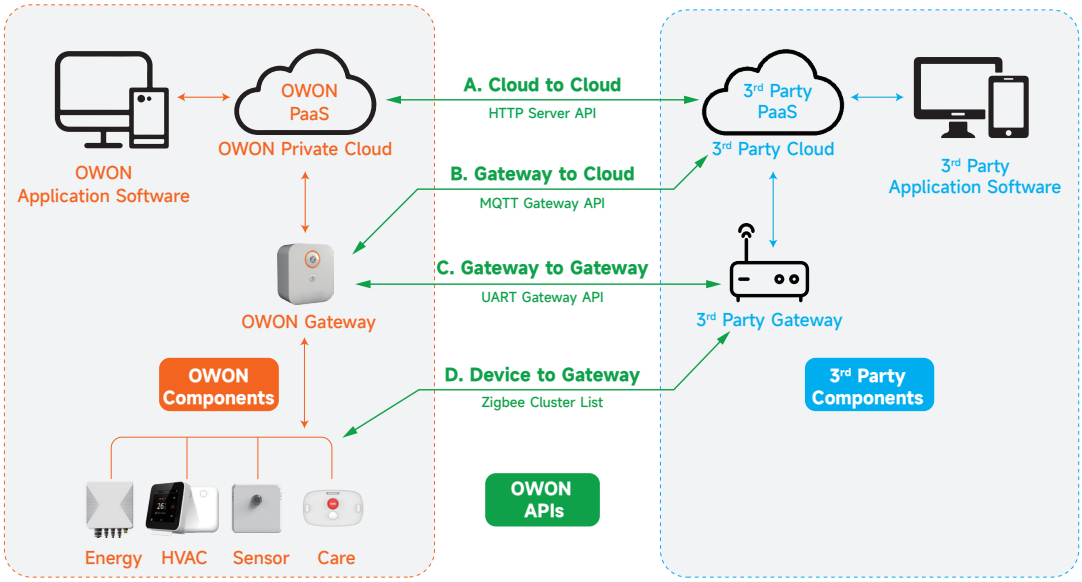
The SEG-X3-C ZigBee Gateway acts as a central platform for your smart home system. It allows you to add up to 50 EPs into the system (Zigbee repeaters required). Automatic control, schedule, scene, remote monitoring and control for ZigBee devices can enrich your IoT experience.

Main Features

- ZigBee 3.0
- BLE 4.2
- ZigBee coordinator of the home area network
- Local linkage, scenes, schedules
- Real time, efficiently interoperability and encrypted communication with cloud server
- Fast, high-probability Bluetooth network pairing

API for Third-party Integration

Open Server API and Gateway API will be offered 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	
Wi-Fi	• iEEE 802.11 b/g/n 2.4GHz
ZigBee	• 2.4GHz IEEE 802.15.4
ZigBee Profile	• ZigBee 3.0
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 50 EPs (There must be at least 5 ZigBee repeaters) • Only connect up to 32 end devices when there is no ZigBee repeaters
Physical Specifications	
CPU	• ESP32-WROVER-E
Flash	• 16MB
Ram	• 8MB
Operating Voltage	• Micro-USB DC5V/1A
Operating environment	• Temperature:-20 ℃~+55 ℃ • Humidity: ≤ 90% non-condensing
Dimension	• 66 (L) x 56 (W) x 36 (H) mm
Weight	• 56.2g

Software	
WAN Protocols	• IP Addressing: DHCP, Static IP • 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)