Products
– Gateway

SEG-X1-ZB Gateway ZigBee/Ethernet/BLE









Description

The SEG-X1 Smart Gateway acts as a central platform for your smart home system. It allows you to add ZigBee devices into the system and to be controlled by the mobile app, while at the same time provide more stable connection through Ethernet. It also has built-in BLE 4.0 custom protocol which allows you to add BLE devices.

Main Features

- ZigBee 3.0
- BLE 4.0
- ZigBee coordinator of the home area network
- Powerful CPU for complicated calculation
- Real time and efficiently interoperability with cloud server

API for Third-party Integration

OWON 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 users can integrate the Gateway with a designated Cloud Server / Mobile App following the Gateway API.

Main Specifications

ZigBee Connectivity	
ZigBee	• 2.4GHz IEEE 802.15.4
ZigBee Profile	• 3.0
RF Characteristics	• Operating frequency: 2.4GHz • Internal PCB Antenna • Range outdoor/indoor: 100m/30m (open area)
Bluetooth Connectivity	
Bluetooth	• 2.4 GHz ISM band • BLE 4.0 • Range: 10m
Physical Specifications	
CPU	• MIPS, 200MHz
Flash Rom	• 2MB
Data Interface	• Micro USB port
SPI Flash	• 16MB
Ethernet	• 100M bps • Auto MDIX
Operating Voltage	• 5V DC • Rated power consumption: 1W
LEDs	• ZigBee, Ethernet, Bluetooth
Dimensions	• 91.5(W) x 133 (L) x 28.2(H) mm
Weight	• 103 g
Plug Type	• US, EU, UK, AU
Mounting Type	• Tabletop stand or Wall mounting

Software	
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)