ZigBee to WiFi/Ethernet Smart Home Wireless Controller Gateway Base Station

Features & Benefits
- Supports Nietzsche Enterprise’s Sentrol Cloud interface: Anytime-Anywhere data view and output control
- Complete Solution: Set and control the parameters, optimum zones and buffer zones on up to 40 sensors and 10 relay devices
- ZigBee Standard Home Automation Profile (HA)
- Zero Data Loss: 1GByte data logger, back-up battery (Optional): Auto-repair and auto-reconnect
- Supports all ZigBee Wireless topologies (Star/Tree/Mesh)

Product description:
The G07 is ideal for monitoring incoming data for environmental changes to ensure conditions remain within desired operating ranges. The G07 Controller Gateway delivers the data under zero data-loss criterion to the cloud database while independently activating actuators driving devices such as fans, heaters, misters, sprinklers etc. based on different profile and buffer zone settings. This device provides fully compliant wireless ZigBee communications with repeaters and end-devices. The Gateway is suitable for use in various environments and is compliant with Home Automation (HA Profile), lower power wireless sensor networks and consumer electronic applications. This device is fully compliant with all ZigBee Wireless topologies (Tree, Star & Mesh) and can coordinate up to 40 different ‘end devices’ (sensors) and 10 ‘output devices’ (actuators).

Specifications
- Aggregator Network: ZigBee Home Automation
- Connection to Cloud: Ethernet (default), WiFi, Cellular (Optional)
- Internet Functionality: DHCP/ Static IP Web Setting
- Nodes/Device Capacity: 40 sensors, 10 actuators simultaneously
- Wireless Network Protocol: IEEE 802.15.4 Zigbee2007/PRO HA Profile
- Transmission Range: Up to 300m/ 984ft
- Operating Frequency: 2.4GHz ISM Band
- RF Output Power: 18dBm
- Receiver Sensitivity: -92dBm
- Power Consumption: 260mA in average
- Transmission Interval: Always Standby
- Network Topology: Star/ Tree/ Mesh
- Power Supply: AC 100V~240V to DC 12V adapter
- Operating Environment: -10°C to +60°C / +14°F to +140°F

Dimensions: 175(L) x 103(W) x 35(H) mm
Weight: 255g
Certifications: CE / FCC
Security Mechanism: AES128Bit Encryption
Connectors: RJ45 for Ethernet, 2 x USB , DC jack DC 12V adapter, SMA antenna
Extended Ports: Cellular module
LED Indications: LED for Network (Ethernet/ WiFi/ Cellular); ZigBee
Zero data-loss: Built-in 1G memory when connection to Cloud is lost
Interoperability: Sentrol Cloud

ZigBee Complete Solution

End Device
- S05-TH Wireless Temperature and Humidity Sensor
- A08 Wireless Power Meter Actuator
- WZB-01USBR DC 5V Adapter

Repeater
- WZB-02485R Star/ Tree/ Mesh
- WZB-01USBR DC 5V Adapter

Coordinator
- WiFi / Ethernet Gateway G07

User Interface
- Sentrol Cloud Control

Product Range & Accessories

<table>
<thead>
<tr>
<th>Solution</th>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Device</td>
<td>S05-TH</td>
<td>Wireless Temperature and Humidity Sensor</td>
</tr>
<tr>
<td>Relay</td>
<td>A08</td>
<td>Wireless Power Meter Actuator</td>
</tr>
<tr>
<td>Repeater</td>
<td>WZB-01USBR</td>
<td>DC 5V Adapter</td>
</tr>
<tr>
<td>Repeater</td>
<td>WZB-02485R</td>
<td>DC 6-24V by Terminal Block</td>
</tr>
<tr>
<td>Gateway</td>
<td>G07</td>
<td>ZigBee to WiFi/Ethernet Smart Home Wireless Controller Gateway Base Station</td>
</tr>
<tr>
<td>Cloud</td>
<td>Sentrol Cloud</td>
<td>Sensor Control Cloud Service</td>
</tr>
</tbody>
</table>

HA Profile Compliant

Tel: +886-2-2223-1118  Fax: +886-2-2223-5333  E-mail: service@nhr.com.tw
4F., No.560, Sec. 2, ChungShan Rd., Chung Ho Dist., New Taipei City 235, Taiwan