# ZigBee Server USER GUIDE

Version: 1.0

**Issued Date:** 

For Models: ZS211H / ZS212H / UBIQ520

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## **Chapter 1: Introduction**

#### Welcome

The ZS211H ZigBee Gateway is a stand alone device that allows one to configure and control their ZigBee mesh network using a network-connected computer. The ZS211H can be accessed from anywhere on the IP networks, Ethernet or Internet, allowing one to control their ZigBee devices from home, office or on the road where Internet connectivity is available. This document defines the specifications of this product. It covers setting hardware, software and mechanism, most of all it defines the user interface and configuring of this gateway.

This product provides many extraordinary features:

- Bridging IP network and ZigBee mesh network.
- Web User Interface for managing and configure ZigBee devices from IP networks.
- Create and control scenes (group multiple devices and control by one command).
- Act as the coordinator of ZigBee mesh network.
- Assign or release routers.
- Include and exclude ZigBee devices.
- Configure, group and name ZigBee devices
- Scheduling control of ZigBee devices
- Set wake-up interval on battery-operated devices
- Administrator ID and password for security
- Socket API and "cgi" command interfaces

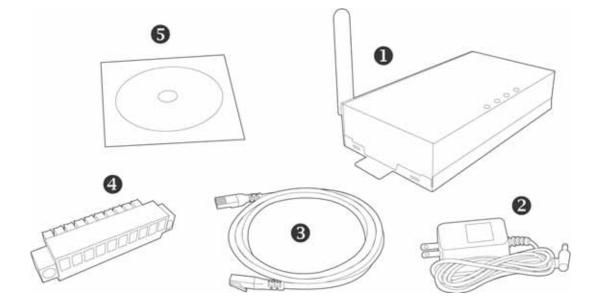
# **Chapter 2 : Installing**

## **Package Contents**

The following items are included in your ZigBee Server package. Check this list before installation to ensure that you have received all items.

- ZigBee Server
- Power Adapter
- **3** Ethernet Cable
- Phenix Connecter
- Installation CD

Please contact your dealer immediately in case you are missing items.



## **Chapter 3 : Using the ZigBee Server**

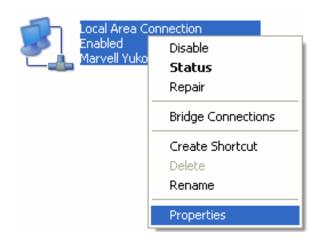
ZS211H default IP is 192.168.0.100:3000, default data address of return destination is 192.168.0.200:2000

#### 3.1 Internet Protocol (TCP/IP) setting:

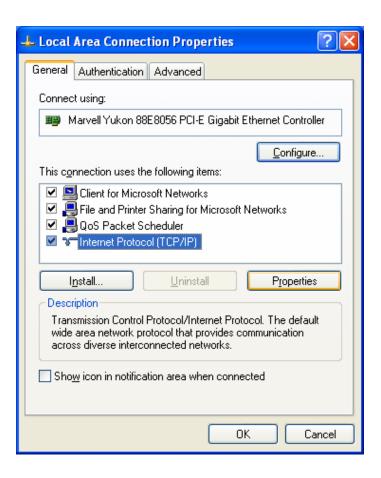
a. On PC home page of Microsoft Windows. Click "right key" of mouse upon 「My Network Place」, select 「Properties」.



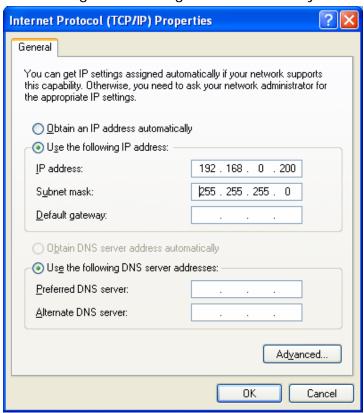
b. Select 「Local Area Connection」, click right key at 「Properties」



c. Select 「Internet Protocol(TCP/IP) 」, click 「Properties」.



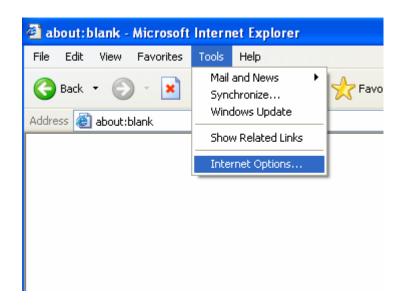
d. in rusing the following IP address key in IP address: 192.168.0.200, subnet mask: 255.255.255.0, click rok.



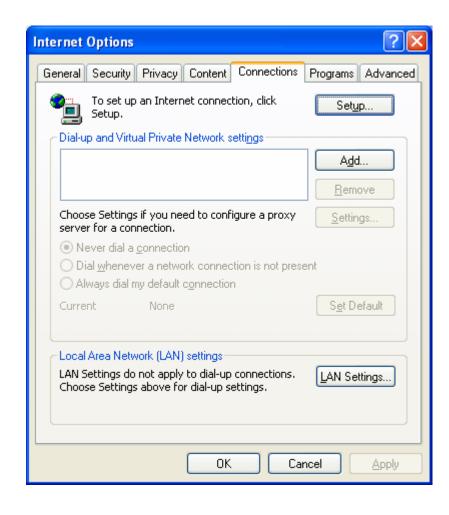
Just remind you to set the IP section to meet your current network section after set this device!

### 3.2 Setting IE:

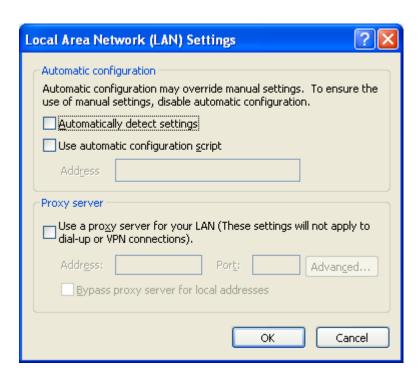
- a. click 「Internet Explorer」 browser。
- b. click 「Tools」, then 「Internet Options」。



c. select 「Connections」, keep blank at 「Dial-up and Virtual Private network settings」, then click 「LAN Settings」.

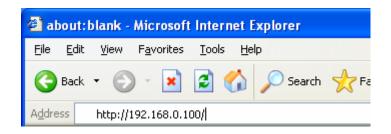


d. Make sure this page is blank and click <sup>r</sup>ok<sub>J</sub>. Once more <sup>r</sup>ok<sub>J</sub> to escape.



#### 3.3 Log in ZS211H Web:

a. Open Internet Explorer, key in address 192.168.0.100 then Fenter . .



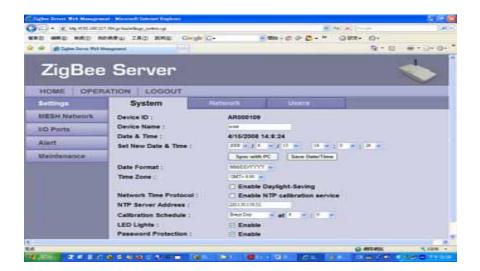
b. When you see ZS211H home page , select 「Setup Server」.

Login ID: admin , Password: admin , click 「Login」 , you will enter ZS211H setting page.

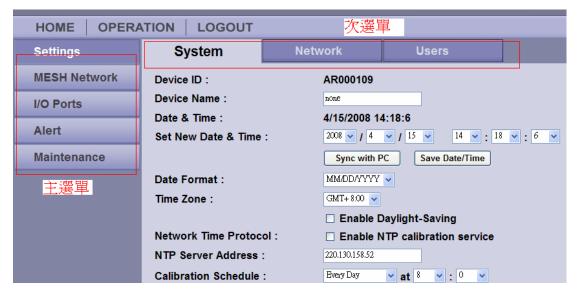




#### c. ZS211H setting page.



#### 3.4 Web UI:



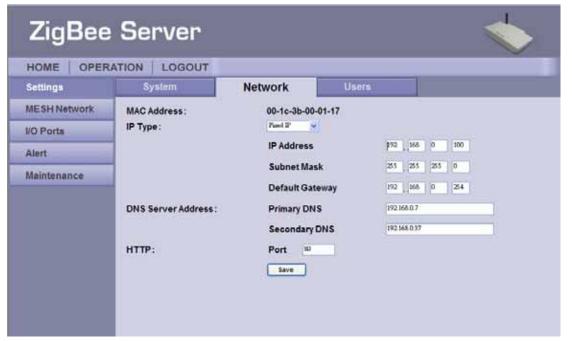
- a. Main mannual: Setting、MESH Network、I/O Ports、Alert、Maintenance
- b. Sub mannual: You may key in or select proper features.

#### 3.5 Features

#### a. Setting



System: Setting ZS211H device name, date & time, etc...



Network: Ethernet setting, IP, DNS, HTTP Port etc...



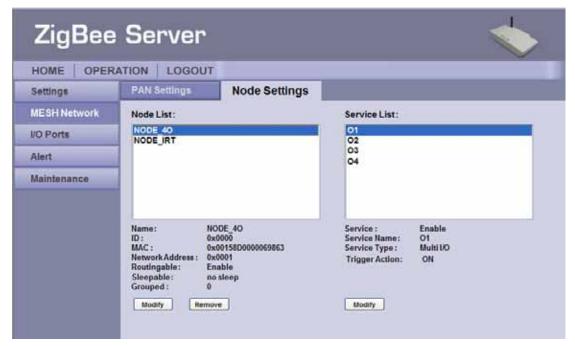
#### Users:

Update or modify administrator ID & Password。 Register new User and password to joint.

#### b. MESH Network



PAN Setting: input or modify ZigBee network setting.



Node Setting:

Update or modify ZigBee Node setting.

Update or modify ZigBee Node Service setting.

c. I/O Ports

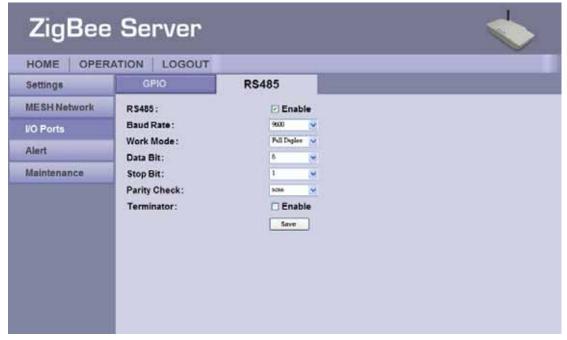


GPIO:

GPIO:

Input Pin Alert's input level setting.

Output Pin Alert's input level setting.

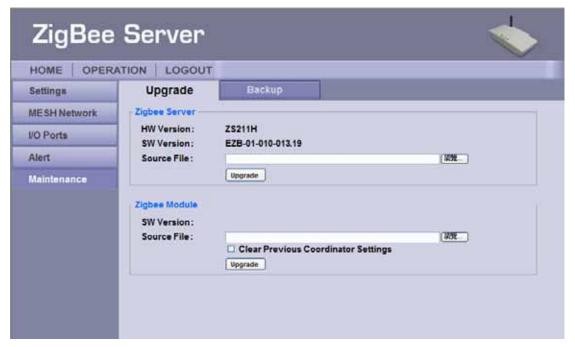


RS485 : RS485 interface setting, and settings of Baud Rate , Work Mode , Data Bit , Stop Bit , Parity Check , Terminator。d. Alert



Setting triggering devices for Service Alert.

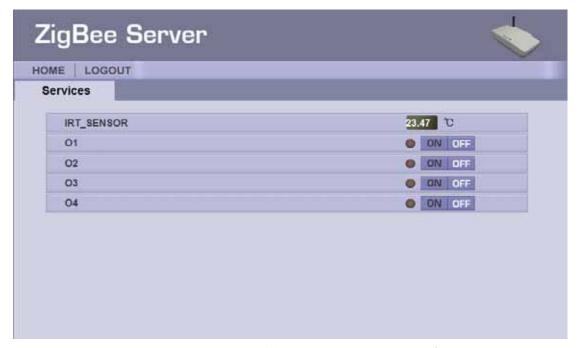
#### e. Maintenance



Display hardware version of ZS211H.

Provide update input of system program and coordinator's firmware

Operation Mode



Show all Services which are set Enable. User can operate them from display panel.

#### 3.6 Hardware rest

At rear panel of ZH211H, there is a hardware reset key. Short press once will enforce ZH211H back to default IP address, IP (192.168.0.100). Press longer than 3 seconds, ZH211H will retrieve all system default settings and restart automatically.

## **Appendix**

#### Federal Communications Commission (FCC) Statement

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna.
- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/TV technician for help.

#### Operation is subject to the following two conditions:

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device.