物联传感®

本企业通过ISO9001：2008质量管理体系标准

竖型网关系列

适用于 WG-ZGWMDPB-G111-01
　　　 WG-ZGWMDPB-G110-01

产品使用说明书
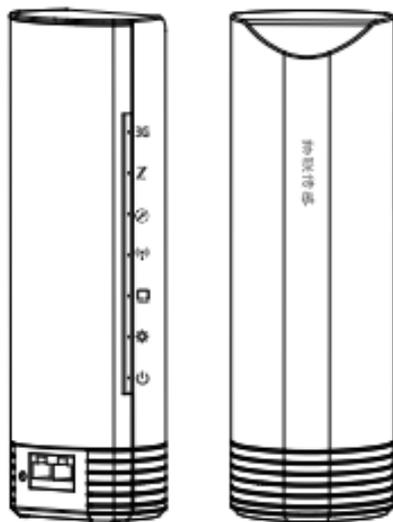
欢迎您使用物联传感竖型网关系列产品说明书

● 物联传感®是南京物联传感技术有限公司的注册商标。本说明书中提到的所有其他产品名称或商标是其各自品牌所有者的商标或注册商标。

● 使用前请您认真阅读产品使用说明书，确保正确地、安全地使用。

● 物联传感竖型网关系列产品（以下简称"本产品"）为南京物联传感技术有限公司（以下简称"我司"）出品的智能家居产品。本产品需要与智能家居相应APP客户端同步使用，并须使用本产品自带的配件，如您未正确地安装及使用本产品而造成的损失，我司将不承担任何责任。

● 我司随时可能对本说明书中的产品信息进行更新，恕不另行通知。请您及时关注我司资讯，并下载最新版的APP客户端。

● 未经我司的明确书面许可，任何个人及企业不得复制本说明书的全部或部分内容，不得使用我司注册商标。对非法使用我司商标的行为，我司将依法追究行为人及企业法律责任。

● 欢迎您登录我司官网www.wulian.cc，了解更多智能家居产品信息。

产品特点

● 支持IEEE 802.15.4ZigBee/SmartRoom协议；

● 提供标准以太网接口，可以将智能家居网络连接到局域网或互联网中，实现无线通信数据安全、可靠地传输；

● 可选配各类IEC国际标准的专用电源适配器，适用于全球150多个国家和地区；

● 用户通过APP客户端，即可轻松操作基于此协议的互联产品；

● 用户可以根据自定义场景，实现多种设备的联动；

● 外观设计精美，尺寸大小适宜于各种风格的家装设计；

● 外壳选用高抗冲击及耐高温的材料，坚固、耐用。

产品参数

√通信协议	IEEE 802.15.4 、IEEE 802.11 b/g/n
√有线接入方式	LAN、WAN
√无线接入方式	WiFi、3G(WCDMA)
√处理参数	MT7620A，最大580MHz
√ROM类型及容量	SPI FLASH 128 MB
√内存类型及容量	DDR2 512 MB
√工作频率	IEEE 802.15.4 2405～2480MHz IEEE 802.11 b/g/n 2412～2472MHz
√传输速率	IEEE 802.15.4 Max. 250Kbps IEEE 802.11 b/g/n Max.300Mbps
√电源参数	DC 5V，2A AC/DC适配器

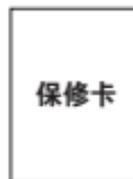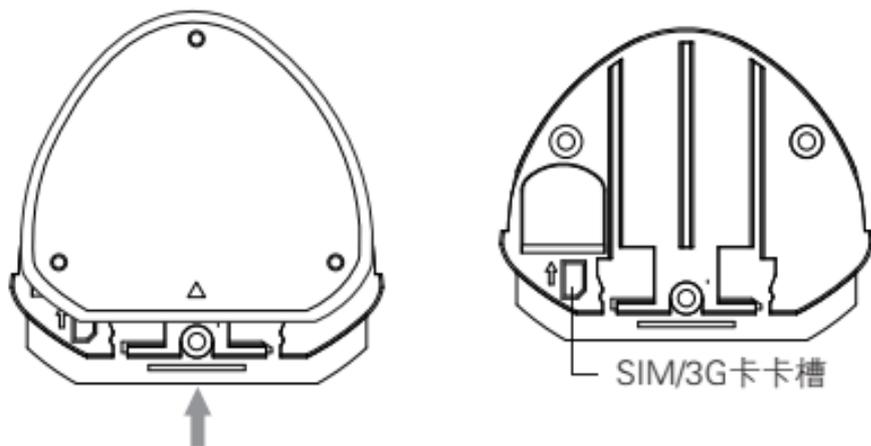| √通信距离	500米（可视条件下）
√整机功耗	Max 7.5W
√天线类型	PCB天线
√外形尺寸（长×宽×高，mm）	74.5×68.5×227
√材质颜色	PC+ABS，黑色
√阻燃等级	UL94 V−0
√净重	465g
√工作环境温度	−10℃~+45℃
√工作环境湿度	≤95%RH（不凝结）

装箱清单
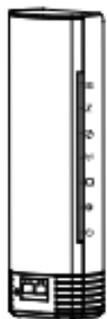
物联传感竖型网关*1

AC/DC 适配器*1（以国标为例）

说明书*1

保修卡*1

产品安装示意图（此功能为3G版本）

首先请将本产品放置于平台上，然后按上图箭头方向将底部盖板推开，插入3G卡后即可使用。

底部盖板推开，插入3G卡

SIM/3G卡卡槽

互联网设置

将网线接入到本产品的WAN接口，当【以太网指示灯】闪烁，表示以太网已成功接入网络。

LAN接口

电源

DC 5V电源插口

LAN网络接口

WAN网络接口

后部
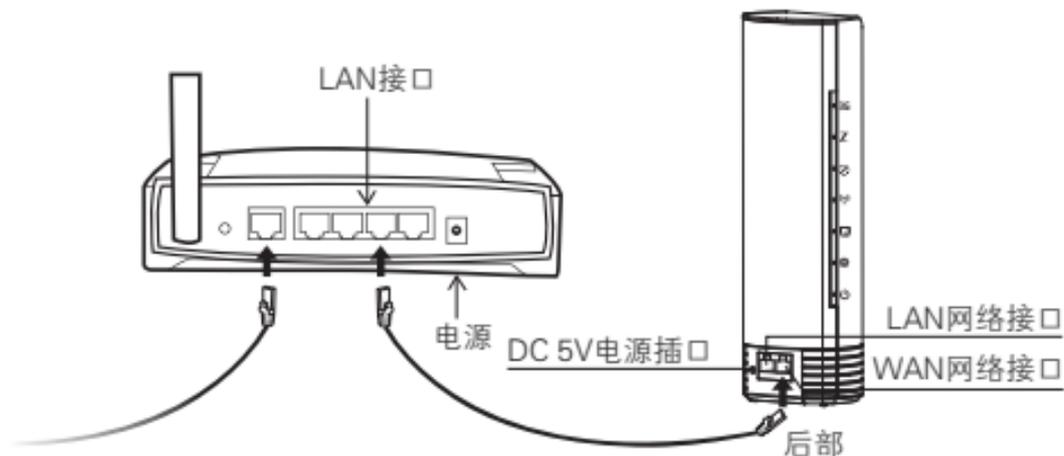
1、打开具有WiFi功能的设备（例：智能手机、pad、笔记本电脑等）搜索本产品
WiFi网络。选择名称为"Wulian _ ××××××"（×为本产品ID后六位）的WiFi信
号进行连接（自动默认连接）。

网络名称

产品ID号二维码
（使用客户端扫描，免输入）

网关底部
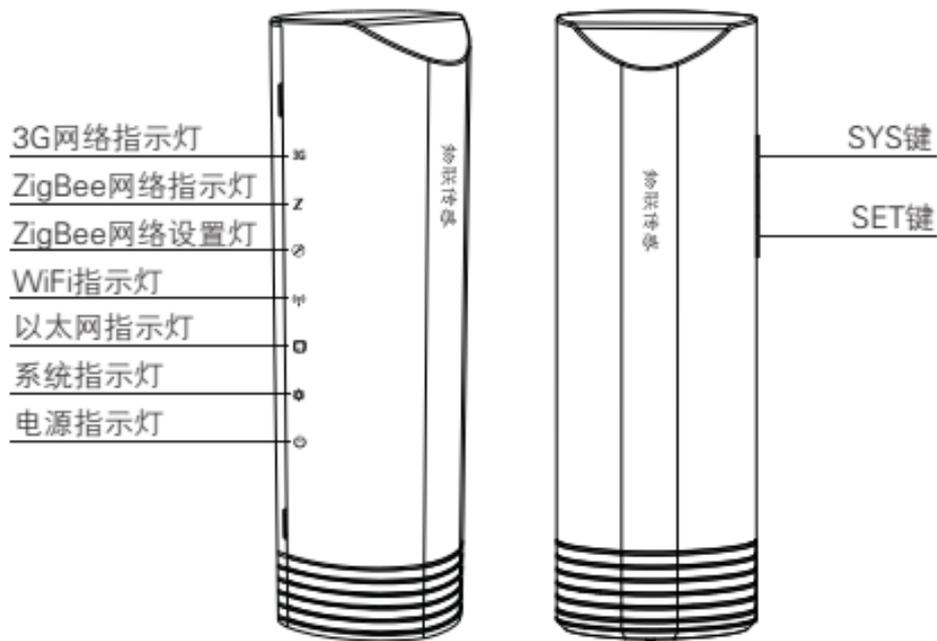
XXXXXX所在处
（X为本产品ID后六位）

2、打开已连接WiFi设备的浏览器,在地址栏输入"192.168.188.1"进入网关管理后台。登录后,可分别进行以太网设置、WiFi设置、3G网络设置等。(具体设置请参考软件使用手册的后台说明)

登录界面如下:

联网设置

3G网络指示灯

ZigBee网络指示灯

ZigBee网络设置灯

WiFi指示灯

以太网指示灯

系统指示灯

电源指示灯

SYS键

SET键

连接服务器

接通电源 ——电源正常工作—→ ⏻长亮

成功连接服务器 　　　　　　　　　　　　未连接到服务器

✿每2秒闪烁一次 ←——网关启动之后（大约需50秒）——→ ✿1秒闪烁一次

首次建立ZigBee网络

SYS键
SET键 ——快击6次，单次快—→ ZigBee网络正常工作
击时间不超过1秒 ——→ Z 1秒闪烁一次

加网设置

快击4次进行组网 → 允许其他设备加入ZigBee网络 → ⊘长亮 z 1秒闪烁一次

SYS键
SET键

快击3次 → 不允许新设备加入ZigBee网络 → ⊘熄灭
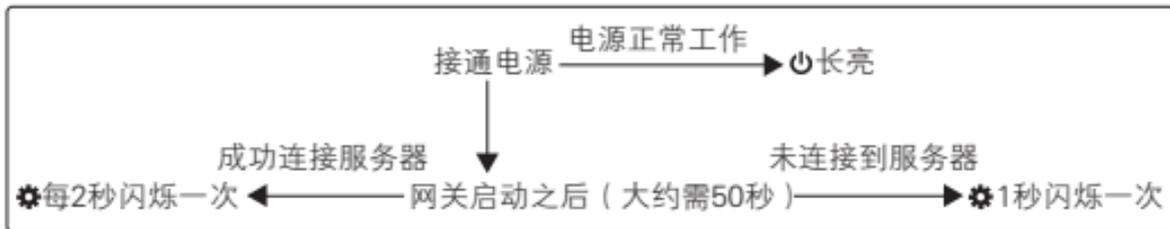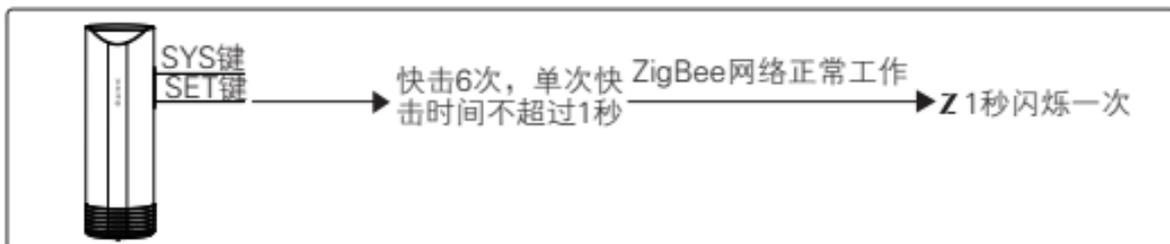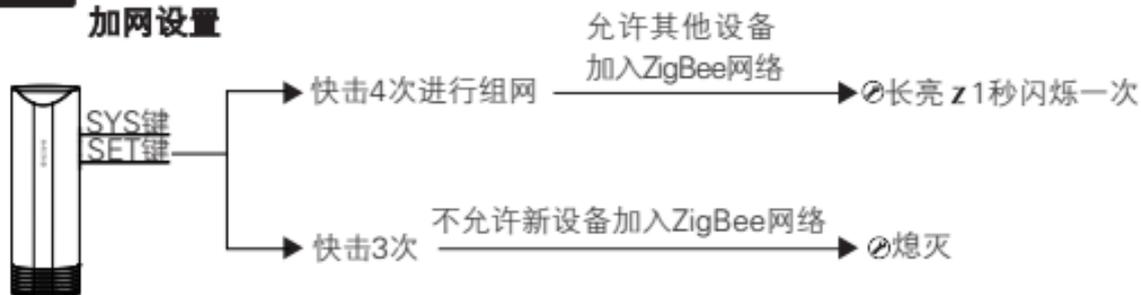
注：默认允许时间为4钟，到达时间后，【Zigbee网络指示灯】熄灭。

退网设置

长按10秒 → 系统自动重启并恢复为出厂设置，ZigBee网络不受影响。

SYS键
SET键

长按10秒 → 网关自动退出ZigBee网络

智能家居系统配置
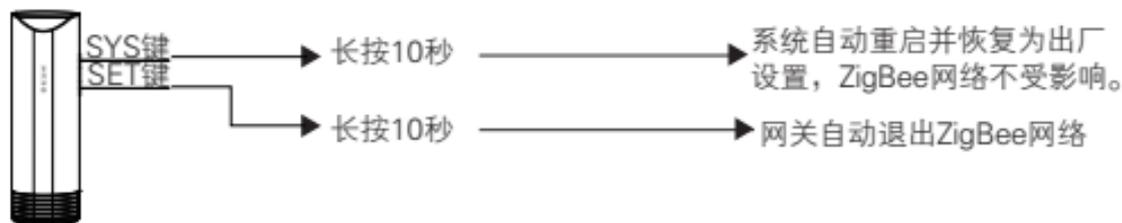
注意事项

1.初次使用时，打开APP客户端登录网关，用户名可通过输入产品底部的ID号或者扫描产品底部的二维码，初始密码为产品ID号的后六位（请及时修改密码）。

2.请将本产品放置在远离洗衣机、微波炉、冰箱、路由器等具有干扰源的区域，否则将可能影响产品通信灵敏度及其工作性能。

3.请将本产品放置在无障碍物的空旷位置，避免放置在三面金属环绕的区域，以便于网关获得最佳通信范围。

4.请将本产品放置在桌上或者四周通风的表面，不要放置在地毯上或其他柔软材料上，以免影响通风散热。

5.本产品应安装在干燥清洁的地方，以免内部元器件受潮或其他杂物进入而影响使用效果。

6.产品表面沾有灰尘时，用细布擦干即可，切勿使用带腐蚀的清洁液及其它化学溶剂进行清洁。

7.具体安装请咨询有资质的代理商或客服。

8.请勿擅自拆卸或改装本产品及其配件。

9.若本产品发生故障，非专业人员不得打开本产品，应送到当地维修点进行维修，或直接与我司客服联系。

故障诊断

序号	问题	解决方法
1	设备使用时，指示灯及设置灯均无法正常工作，应该如何处理？	首先请确认通电是否正常，然后请确认是否使用本产品配套的电源适配器。
2	无法打开网关的管理界面？	①确保设备连接正确，相应的指示灯正常； ②电脑或手机设置为自动获取IP地址； ③更换浏览器再次尝试。
3	忘记了登录网关的密码？	请尝试恢复出厂设置。网关通电的情况下，长按SYS键10秒，系统状态指示灯灭掉时恢复出厂设置成功。(恢复出厂设置会清空网关所有的配置数据，请谨慎操作。)

序号	问题	解决方法
4	使用本公司智能家居APP客户端登录，一直显示网关不在线？	请尝试：①确认网络是否正常；②确认网关的网络指示灯是否正常；③若网络和网关的指示灯都正常，网关断电重启。若以上方法都不行，请及时联系我们。
5	设备加入网关，指示灯显示已经入网成功，但设备列表没有显示？	请尝试：①先退网，再加入指定的网关；②确认网关的版本，请联网重启网关升级最新版本。若以上方法都不行，请及时联系我们。
6	App客户端使用时频繁掉线，应该如何处理？	请确认网关是否处于远离电磁干扰和散热良好的环境。

订购信息

产品名称	物联传感竖型网关（AP，3G）	物联传感竖型网关（AP）
型号	WG-ZGWMDPB-G111-01	WG-ZGWMDPB-G110-01
材质颜色	PC+ABS，黑色	PC+ABS，黑色
货号	WGPN140925001	WGPN1437001

软件下载

下载方式一：

请扫描本产品包装盒上的二维码，下载最新版本软件客户端。

下载方式二：

官网下载：http://www.wulian.cc/service.shtml

**温馨提示：初次使用时，请仔细阅读产品使用说明书并及时关注我司资讯，更新
下载最新版本软件客户端。**

物联传感®

Wireless Vertical Type Gateway

For WG-ZGWMDPB-G111-01
WG-ZGWMDPB-G110-01

User Manual
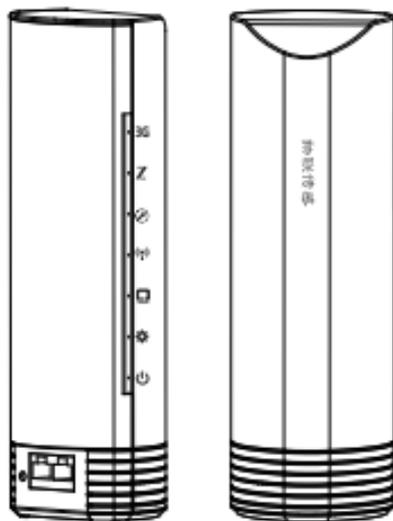
Federal Communications Commission (FCC) Compliance Notice:

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.

Federal Communications Commission (FCC) Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Federal Communications Commission (FCC) Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm during normal operation.

Welcome to use Wireless Vertical Type Gateway User Manual

● 物联传感®is the registered trademark of Nanjing IOT Sensor Technology Co., Ltd. All the other product names and registered trademarks mentioned in this manual are trademarks or registered trademarks of their respective owners.

●Please read this manual carefully and keep it properly before using.

●The Wireless Vertical Type Gateway (hereinafter referred to as "this product") is a kind of smarthome product produced by Nanjing IOT Sensor Technology Co., Ltd. (hereinafter referred to as "Wulian"). This product shall be synchronized with relevant APP terminal of smart home. And the supplied accessories shall be used together. Wulian is not responsible for any loss due to improper installation and usage of this product.

●For initial use, please read the Software User Manual carefully. Please check the Wulian website periodically for manual and APP update availability and the relevance.

●The reproduction of the content of the manual, in whole or in part, is strictly prohibited without the written consent from Nanjing IOT Sensor Technology Co., Ltd. The using of the trademark above is also forbidden. The illegal use of the trademarks of Wulian shall be investigated according to the law.

●For more information about smart home products, please visit：http://www.wulian.cc/

Features

●Supports IEEE 802.15.4ZigBee/SmartRoom protocol.

●The standard Ethernet interface makes it possible to connect the smart home network with LAN or internet, and to transfer wireless communication data safely and reliably.

●Any power adapter meeting IEC standard could match this product, which makes it available in over 150 countries and regions around the world.

●Users could operate any products using this protocol easily through APP terminal.

●The customized scene makes it possible to achieve interworking of multiple devices.

●With delicate appearance and design, it is suitable for all decoration styles.

●It is strong and durable as the shell adopts material which is free from shock and heat resistance.

Specifications

√Communication Protocol	IEEE 802.15.4 、 IEEE 802.11 b/g/n
√ Wired Access	LAN、WAN
√ Wireless Access	WiFi、3G(WCDMA)
√ Processor Parameter	MT7620A, Max 580MHz
√ROM Type &Capacity	SPI FLASH 128 MB
√ Memory Type &Capacity	DDR2 512 MB
√Operating Frequency	IEEE 802.15.4 2405～2480MHz IEEE 802.11 b/g/n 2412～2472MHz
√Transmission Rate	IEEE 802.15.4 Max. 250Kbps IEEE 802.11 b/g/n Max.300Mbps
√ Power Supply	DC 5V，2A AC/DC Power Adapter

|	
√Communication Distance	500m (visible)
√Power Consumption	Max 7.5W
√Antenna Type	PCB Antenna
√Dimensions（Length×Width×Height,mm）	74.5×68.5×227
√Materials & Color	PC+ABS，black
√Flame Resistance Level	UL94 V-0
√Net Weight	465g
√Operating Temperature	-10℃～+45℃
√Operating Humidity	≤95%RH（Noncondensing）

Packing List

Wireless Vertical
Type Gateway*1

AC/DC AC/DC Adapter*1
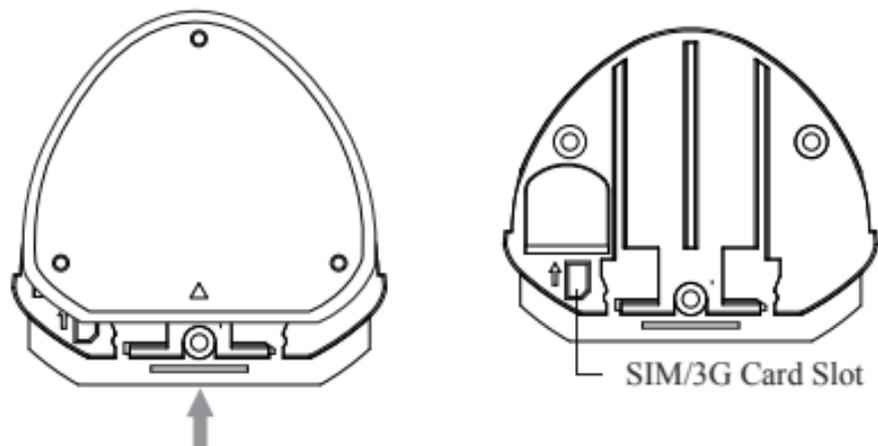（take the Chinese standard as example）

Specifications*1
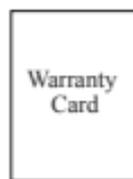
Warranty Card*1

Installation (3G Version)

Place this product on a flat surface, and open the cover at the bottom by pushing in the direction of the arrow as shown in the diagram below. Then insert a 3G card and it could be used.

SIM/3G Card Slot

Open the cover at the bottom
by pushing and insert a 3G card

Network Settings

Connect the network cable to WAN Interface of this product. As Ethernet Indicator flashes, the Ethernet is connected to the network successfully.

LAN Interface

Power Supply

DC 5V Power Interface

Reverse Side

LAN Interface

WAN Interface
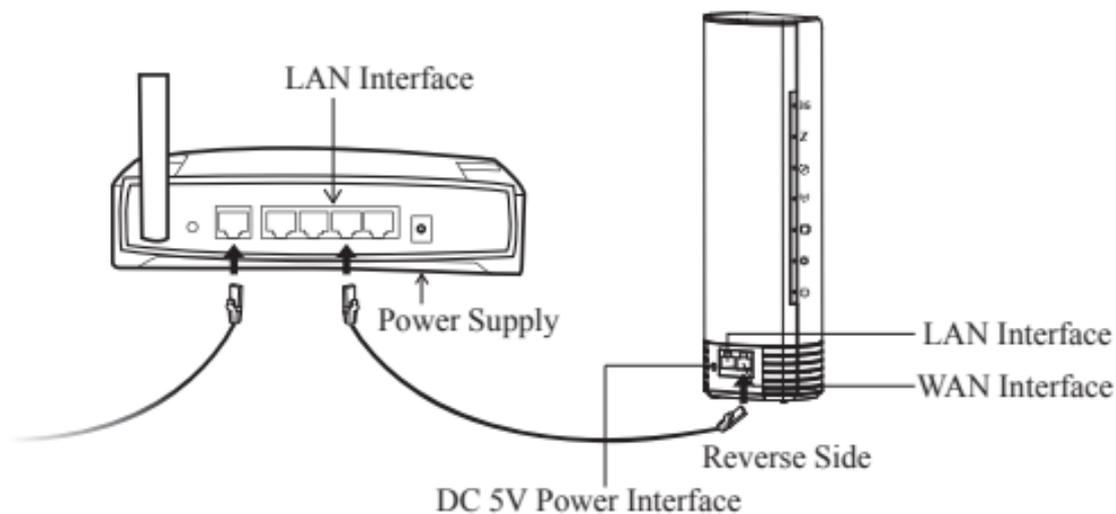
Start devices (smart phones, pads, notebooks, etc.) with Wi-Fi function and search the Wi-Fi signal of this product. Choose Wi-Fi signal named "Wulian_XXXXXX" (XXXXXX stand for the last six characters of the product ID) and the APP will log in automatically.

QR Code of ID
(Scan QR Code without manual input)

The bottom of the gateway
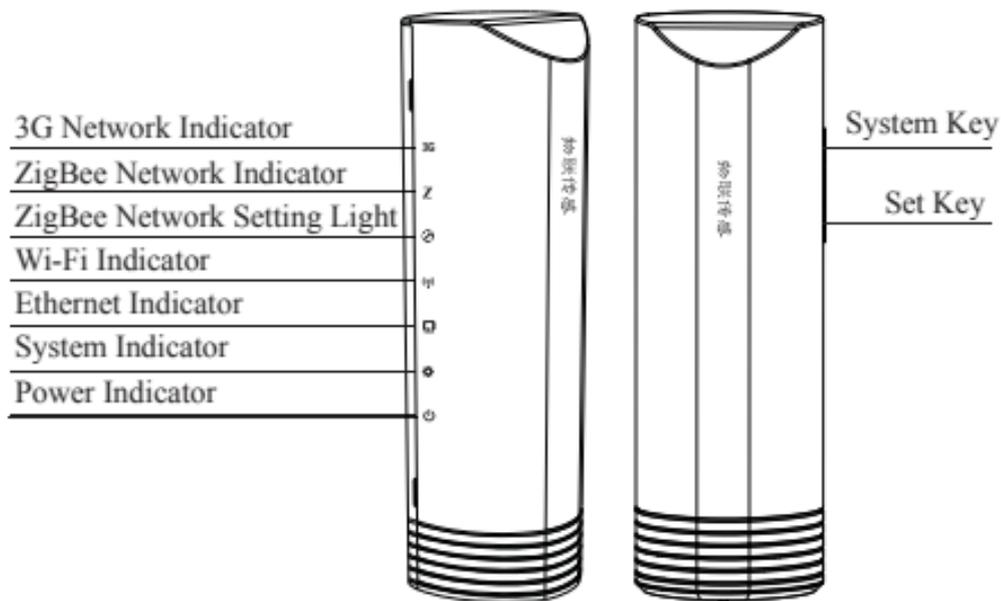
Network list

XXXXXXLocation
(XXXXXX stand for the last six characters of the product ID)

2、Open the browser of the device which has been connected to Wi-Fi. Input "192.168.188.1" in the address bar to enter backend of gateway. After logging in, users could set Ethernet, Wi-Fi and 3G network respectively. (For specific setting, please refer to user manual for backend.)

The login interface

Networking

3G Network Indicator
ZigBee Network Indicator
ZigBee Network Setting Light
Wi-Fi Indicator
Ethernet Indicator
System Indicator
Power Indicator

System Key
Set Key

Step One:

Connected to the Server

Power on — Normal power supply → ☢ Stays on

Connected to the server successfully — After the gateway is started (takes about 50s) — Not connected to the Server

☢ Flash every 2s ← ← ← → ☢ Flashes every 1s
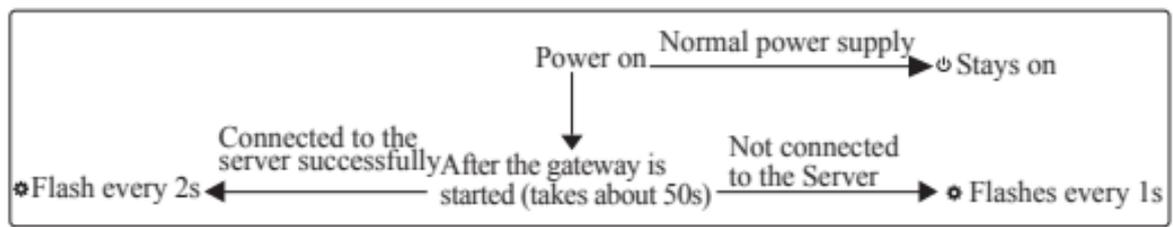
Step Two:

Build the ZigBee network for the first time

System Key
Set Key → Click 6 times quickly and each click is less than 1s — ZigBee network is working → z Flashes every 1s

10

Add to the network

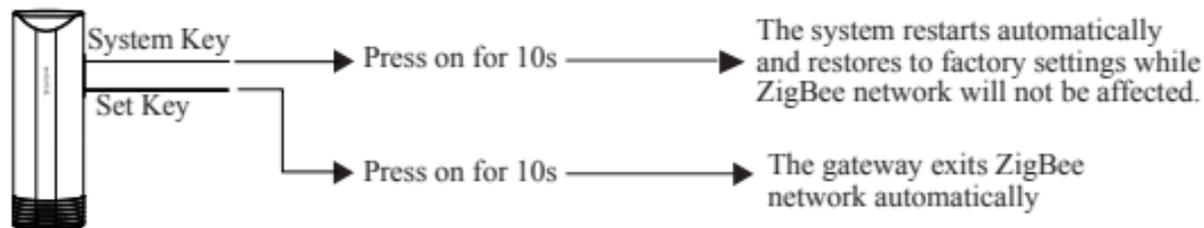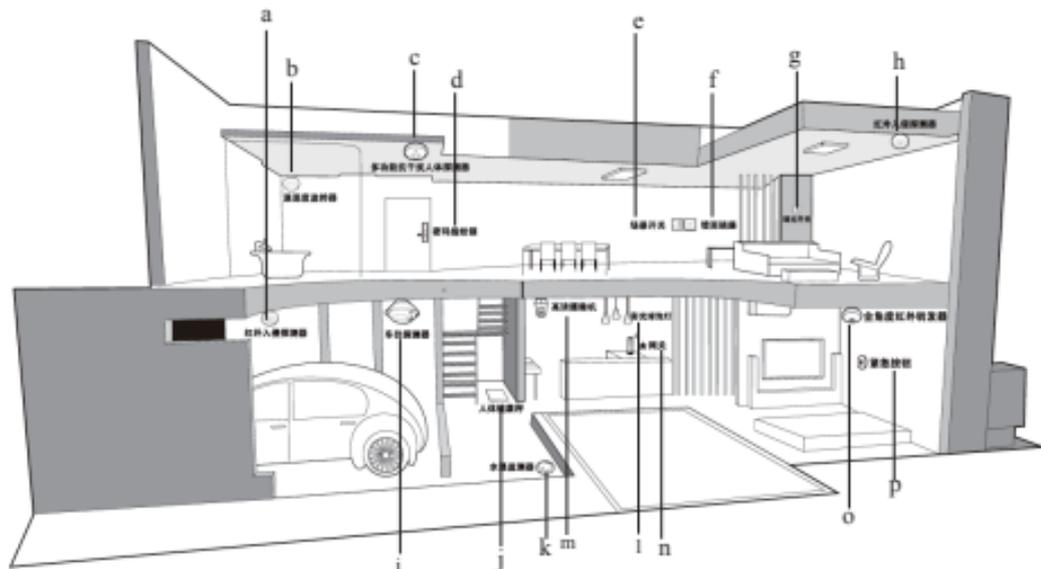| | | Other devices are allowed to be added in ZigBee network | ⊘ Stays on |
| System Key | Click 4 times quickly to build the network | | z Flashes every 1s |
| Set Key | Click 3 times quickly | Other devices are not allowed to be added in ZigBee network | ⊘ Goes out |
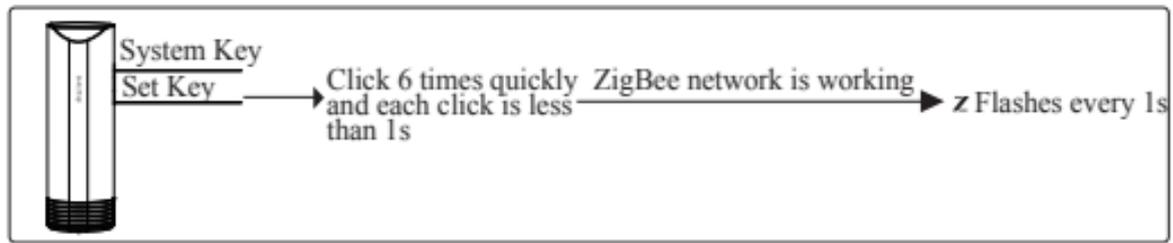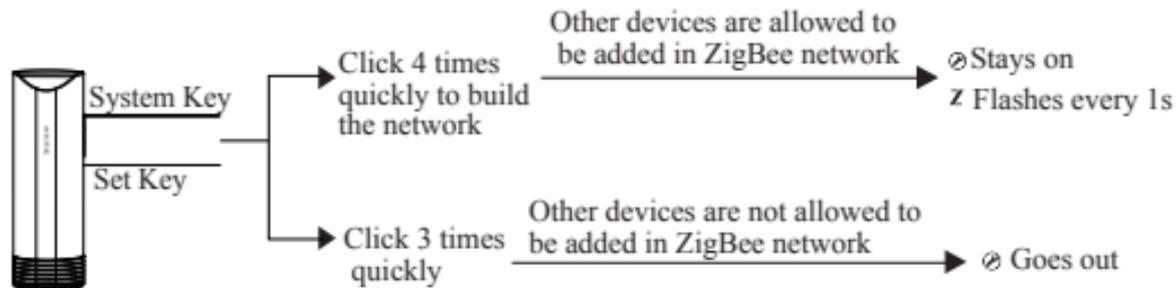
Note: Default time for allowing new devices to add in ZigBee network is 4 minutes, and the ZigBee Network Setting Light will go out after that.

Exit network

| System Key | Press on for 10s | The system restarts automatically and restores to factory settings while ZigBee network will not be affected. |
| Set Key | Press on for 10s | The gateway exits ZigBee network automatically |

Smart Home System Configuration

a.Wireless IR Motion Detector   b.Temperature and humidity monitor   c.Multi-functional Detector
d.Fingerprint&Password Lock   e.Scene Switch   f.Wall Socket g.Wireless Dimmer Switch h. Wireless IR Motion
Detector i.Parking Sensor   j.Wireless Body Weight Meter k.Wireless Water Logging Sensor m.Rainbow Light
l.HD Video Camera n.Wireless Gateway o.Wireless IR Transmitter p.Wireless Emergency Button

CAUTIONS

1. Make sure this product is placed away from the washing machine, microwave oven, refrigerator, Router and other sources of interference, in case of poor communication sensitivity and working performance.

2. To ensure the best communication distance, place this product in spacious area and away from places which are surrounded on three sides by metal.

3. Place this product on the desk or ventilated surface. In case of poor ventilation and heat dissipation, do not place it on the carpet or other soft material.

4. Ensure the installation location is dry and clean, in case of poor effect in use by being exposed to moisture.

5. If there is dust on the surface, clean it with a piece of soft cloth. Do not use erosive liquid and other chemical solvent for cleaning.

6. For installation details, consult the qualified dealer or customer services for help.

7. Do not dissemble or refit this product and the accessories by yourself.

8. If any problems occurred, this product should not be dissembled by non-professionals, but delivered to local service center. Besides, our customer service are available.

Trouble Shooting

No	Trouble	Corrective Action
1	The indicators and setting lights are not working.	First make sure the power supply is good. Then check whether the matching power adapter is used.
2	Unable to enter the management interface.	a. Ensure the correct connection of the devices and good working status of the indicators. b. Set PC or cellphone as automatic access to IP address c. Change another Brower and try again.
3	Forget the login password of the gateway.	Try to restore to factory settings. When power is on, press on System Key for 10s.This product restores to factory settings when System Indicator is off. (Be careful, all the settings of the gateway will be deleted by restoring to factory settings.)

No	Trouble	Corrective Action
4	When logging in the Smart Home APP, the status of gateway is displayed as "offline".	a. Check whether the network is well; b. Check whether the indicators of the gateway are well; c. If both the network and the indicators are well, turn off the electricity and reboot the gateway. If none of the above methods are working, please contact us.
5	When adding devices to the gateway, the indicator displays successful adding while there is no hint on the device list of the APP.	Try to a. exit the network and then add to the designated gateway; b. Check the version of the gateway and build the network and reboot. Then update to the latest version.

Ordering

Name	Wireless Vertical Type Gateway (AP，3G)	Wireless Vertical Type Gateway (AP)
Model	WG-ZGWMDPB-G111-01	WG-ZGWMDPB-G110-01
Material & Color	PC+ABS，black	PC+ABS，black
Item No.	WGPN140925001	WGPN1437001

Software Download

Option A：
Users can download the software by scanning the QR Code in the packaging box.
Option B：
Download link：http://www.wulian.cc/service.shtml

Tips: For initial use, please download the software and read the software user manual carefully. Check the Wulian website periodically for manual update availability and its relevance.