

## ZigBee Ethernet Gateway

Document Number : Rev. 1.0

### Introduction

- Ethernet gateway is Zigbee PRO HA1.2 coordinator designed to be easily configured and used in Ethernet environment by Cloud server & the mobile application.
- Ethernet gateway enables user to see current condition of home through mobile application installed on user's smartphone and/or tablet anywhere
- Using RF front-end module enable users to have long -distance control and extended battery life.
- Easy to see device status by LED indication.
- Sensor can be registered & removed in/from Cloud server by user's smart phone.
- Factory reset function.
- Auto upgrade function that synchronized with Cloud server can provide optimized environment.

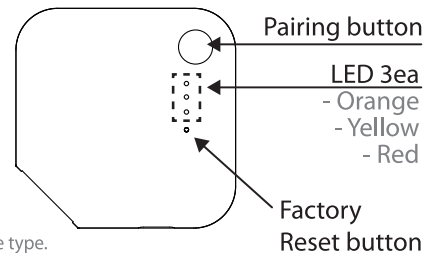
### Package Contents

#### Accessory

USB Cable  
LAN Cable  
Adaptor

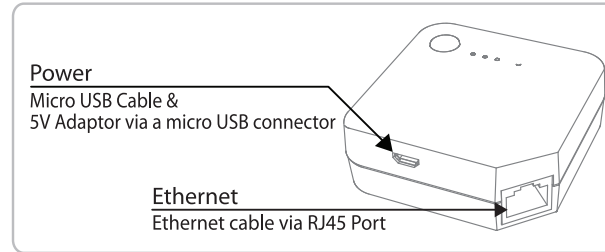
· Accessory package may be variable by your selected package type.

#### Gateway



### Product explanation

### Ports



### Button

1. Pairing Button : Start pairing with the sensor
2. Factory Reset Button : Initialize gateway to factory default.  
Note : This function erases all information registered in the gateway.  
E.g. : Paired device information.

### LEDs Indication

(For more details, please go to LED action list)

1. Red LED (Error LED, Factory Reset LED)  
- Indicates device error state.
2. Green LED (Power LED, Ethernet LED)  
- Indicates Power & Ethernet state.
3. Orange LED (Commissioning LED, ZigBee LED)  
- Indicates Pairing and Communication state.

### Specifications

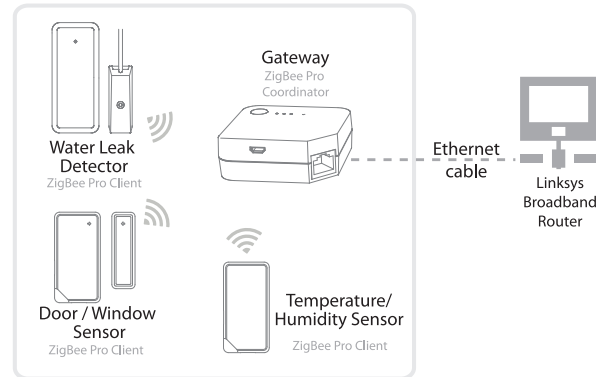
<b>Dimensions</b>	L=67mm, W=67mm, H=23.3mm
<b>Power/Voltage</b>	Micro USB power, 4.8~5.2[V] / 500[mA]/min
<b>Operating Temperature</b>	0°C ~ 50°C, Indoor use
<b>Storage Temperature</b>	-10°C ~ 60°C
<b>Relative Humidity</b>	up to 95% non-condensing

### RF Performance Requirements

**Protocols :** Zigbee HA

**Supported channels :** IEEE802.15.4 CH11 to CH26


### Product configuration



## Connect Power and Internet

1. Plug a micro USB cable in the computer or socket via 5V power supply.  
LEDs will blink 3 times in orange, green and red order.
2. Connect Ethernet cable to gateway.  
Note: Broadband Internet MUST be available when connecting Ethernet cable.
3. Configuration is done once green LED blinks and stays ON.

## Register via the smart phone application

1. Download a designated application to user's smart phone/tablet from Appstore or the homepage.
2. Run and configure the application with install wizard on the smart phone.
3.  There is QR code on the bottom of gateway to configure via QR code scanner on smart phone .


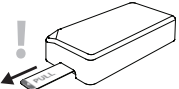
The sensor can be paired via either the smart phone application or gateway. Select preferable method to register the sensor in Cloud server.

## Pairing A

Pair sensor using mobile application.

1. Run sensor registration wizard.
2. Follow the wizard to pair the sensor.
3. Pull out battery tap of sensor to try pairing once it is ready.

## Pairing B

- 1 Press pairing button on gateway. 
- 2  An orange LED will blink. Then gateway is on pairing standby mode. (Orange LED will keep blinking for 30seconds)
- 3 Pull battery tab from a sensor to try pairing with gateway. (sensor will try pairing for 30seconds)
- 4 Once orange LED is off, pairing is done.

## Reset

Pull out and plug in connected micro USB cable again to reset the device.

## Factory Reset

Note : Factory reset will erase all stored information on the gateway. Please be careful when doing factory reset.



1. Pull out micro USB cable from gateway.
2. Press & hold factory reset button.
3. Plug a micro USB cable in gateway while pressing & holding factory reset button.
4. LEDs will blink 3 times in orange, green and red order; LED will be on once factory reset is successful.

## Error

1. Once error occurs on gateway, red LED will blink.  
Note : Check your mobile application in case error occurs.
2. The error occurs as there is general problem or critical problem.

## Firmware upgrade

1. These devices feature firmware upgrade function via the smart phone application.
2. When firmware upgrade message appears on the application, please follow the configuration guide.

Note : Do not turn off power or run other task until firmware upgrade is completed.

## FCC Compliance Statement

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 used in accordance with the instructions, may cause harmful interference to radio communications.

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, 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 or decrease the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that which the receiver is connected.
- Consult the dealer or an experienced remote control/TV technician for help.
- It is strongly recommended that the TV be plugged into a separate wall outlet.

The user is cautioned that changes and modifications made to the equipment without the approval of the manufacturer 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.

"CAUTION" : Exposure to Radio Frequency Radiation. Antenna shall be mounted in such a manner to minimize the potential for human contact to minimize the potential for human contact during normal operation. The antenna should not be contacted during operation to avoid the possibility of exceeding the FCC radio frequency exposure limit.

"CAUTION" : Exposure to Radio Frequency Radiation. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated with minimum distance of 20cm between the radiator and your body. This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users.