



WAPD-246ACN LoRa Gateway User Manual

Version : 1.0.2

Release History

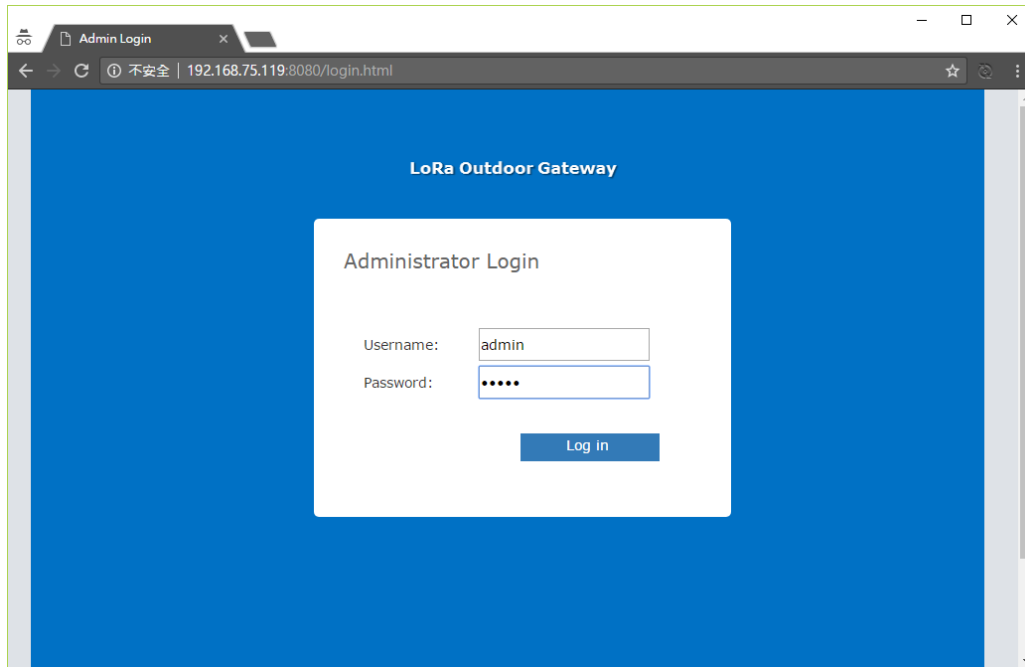
Release Data	Release Version	Description	Author
2017/08/04	1.0.1	Initial release	William Huang
2017/10/13	1.0.2	Add FW update instruction	William Huang

Gateway Configuration

Access gateway Administration Web GUI at :8080 port

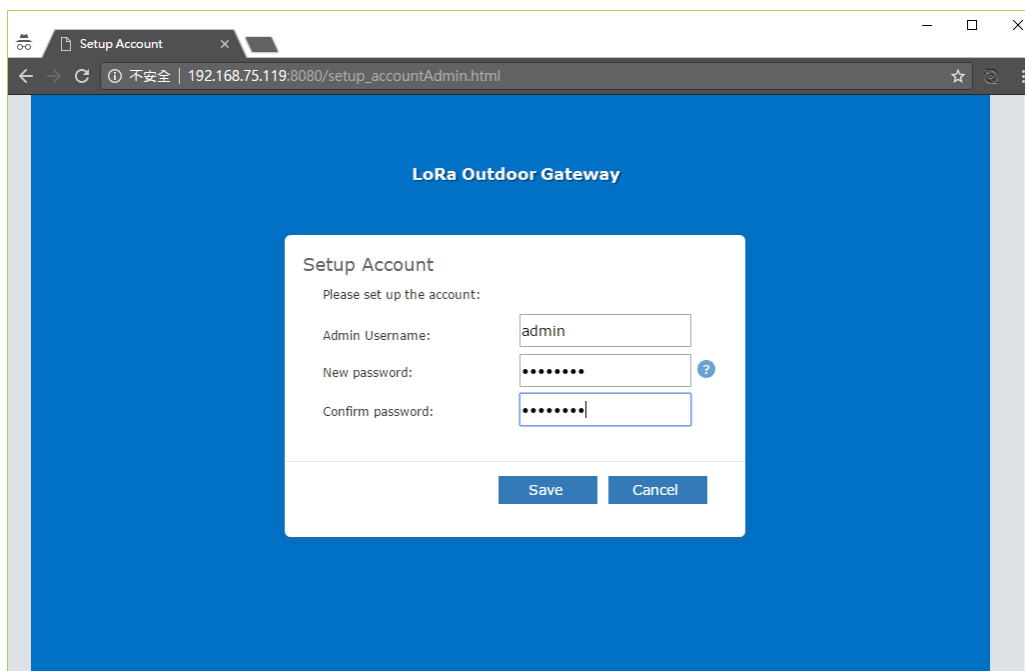
http://x.x.x.x:8080/

Default Username/Password : admin/admin



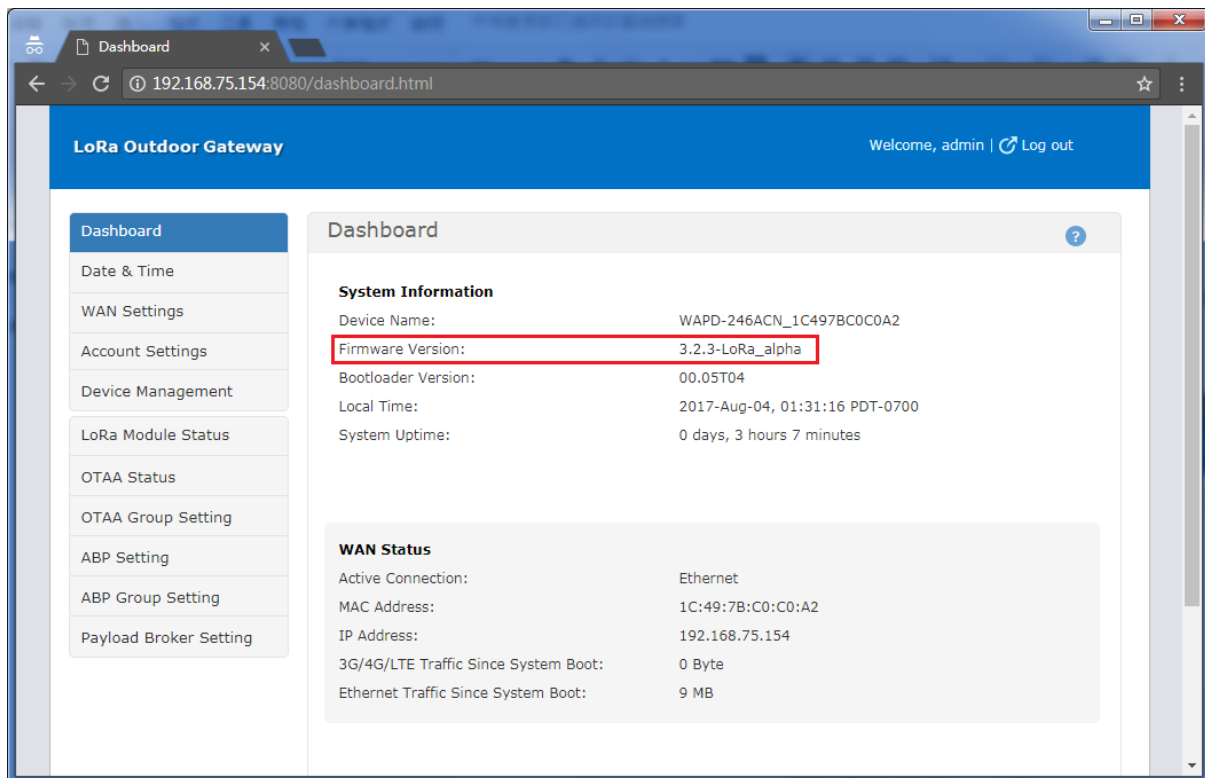
If it is the first login, it will ask you to update the default account

You may configure the account as admin/Admin123

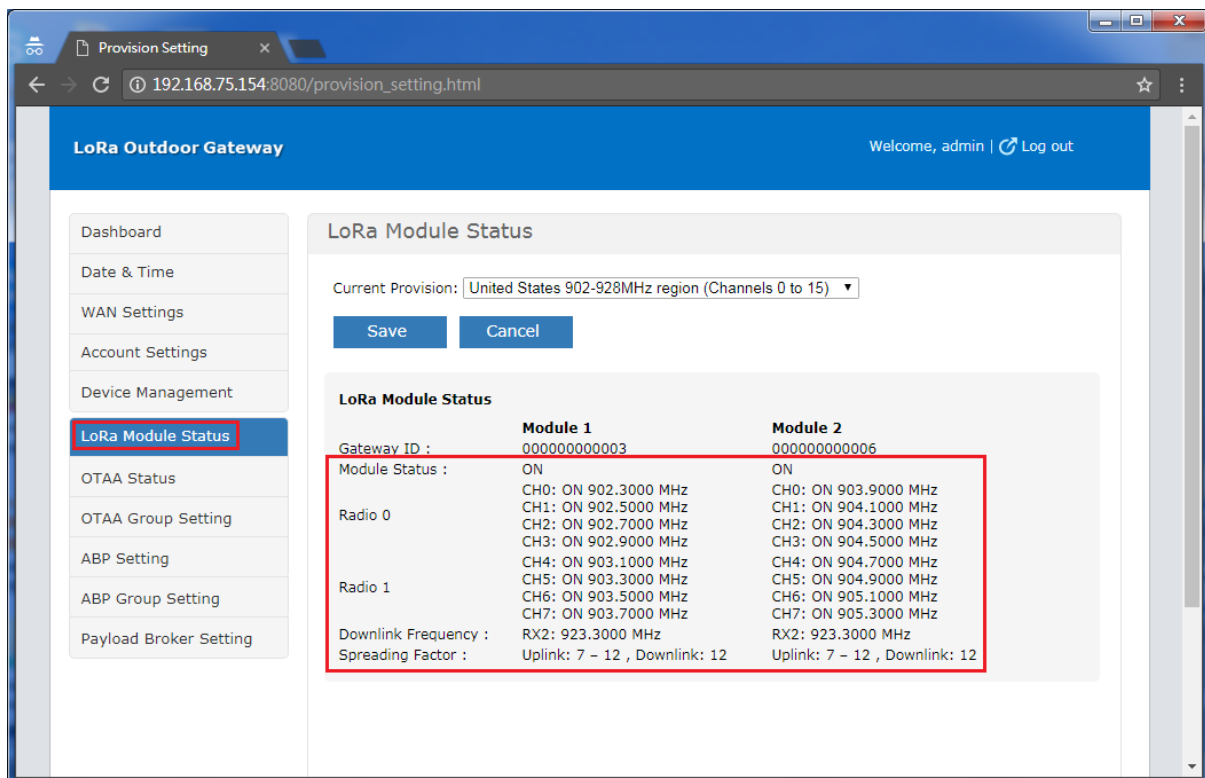


After login, Dashboard page shows System Info. Firmware Version can

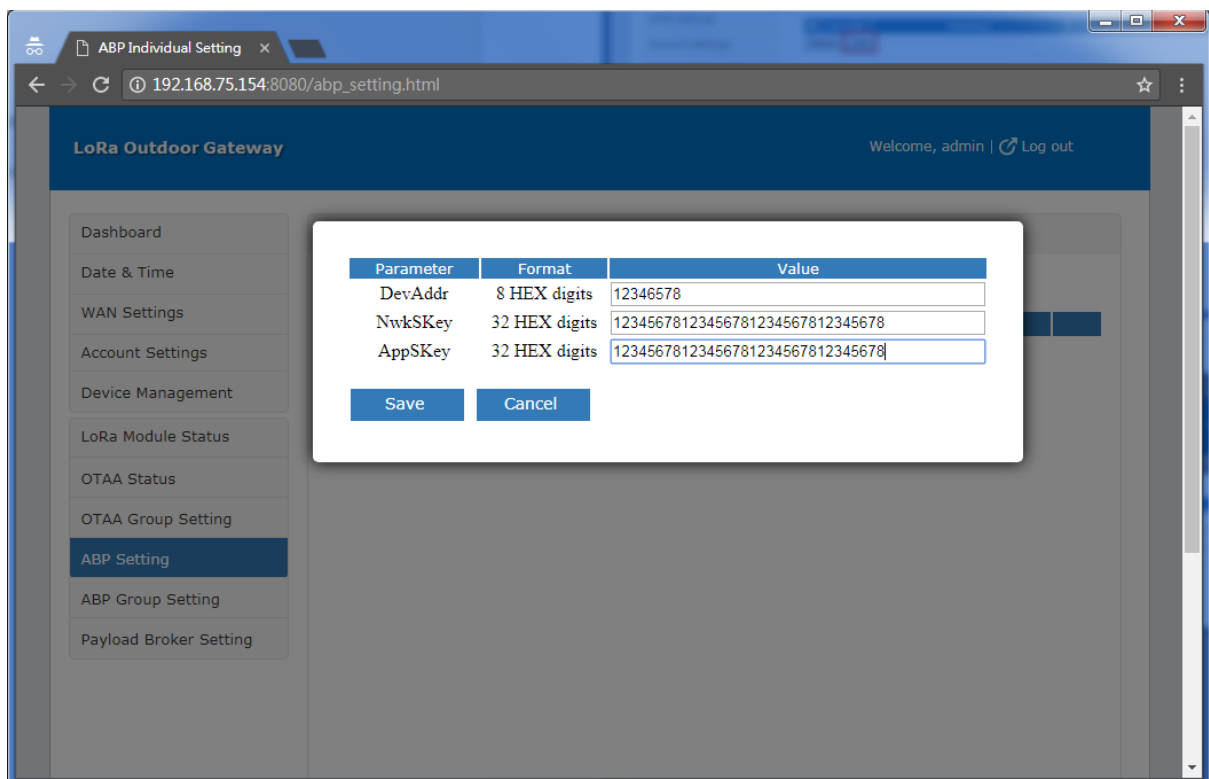
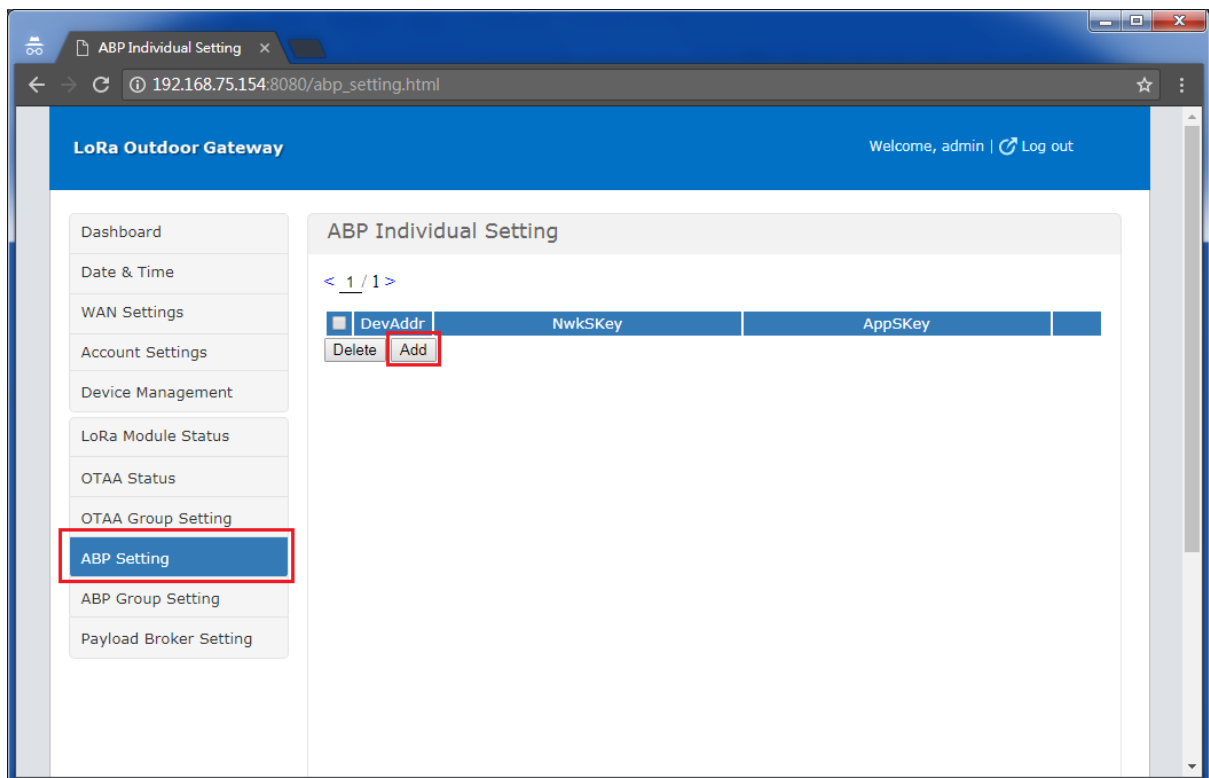
be checked at here.



Go to “LoRa Module Status” to check band setting



Go to “ABP Setting” page to configure ABP setting



(ex. 12345678 / 12345678123456781234567812345678 / 12345678123456781234567812345678)

Go to “Payload Broker Setting” page to check MQTT related settings

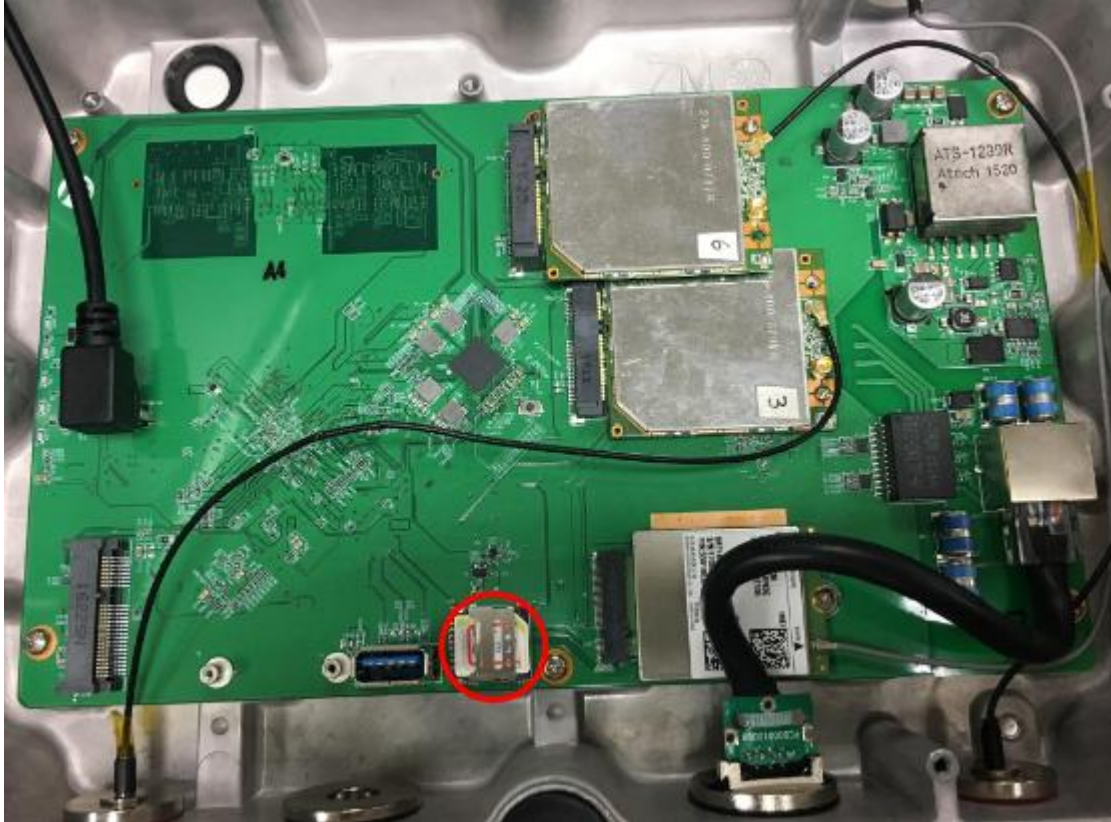
The screenshot displays the 'Payload Broker (MQTT)' configuration page of a 'LoRa Outdoor Gateway'. The page has a blue header with the gateway name and a user login status. A left sidebar contains a menu with options like Dashboard, Date & Time, WAN Settings, Account Settings, Device Management, LoRa Module Status, OTAA Status, OTAA Group Setting, ABP Setting, ABP Group Setting, and Payload Broker Setting. The main content area is titled 'Payload Broker (MQTT)' and contains several input fields: 'Hostname' (127.0.0.1), 'Port' (1883), 'Subscribe(UL) Topic Prefix' (GIOT-GW/UL/), 'Publish(DL) Topic Prefix' (GIOT-GW/DL/), and 'Downlink ACK Prefix' (GIOT-GW/DL-report/). The 'Subscribe(UL) Topic Prefix' field is highlighted with a red box. To the right of the 'Publish(DL) Topic Prefix' field, there is a '+' sign followed by two long hexadecimal strings and the text '(GW ID)'. At the bottom of the form are 'Save' and 'Cancel' buttons.

Field	Value
Hostname	127.0.0.1
Port	1883
Subscribe(UL) Topic Prefix	GIOT-GW/UL/
Publish(DL) Topic Prefix	GIOT-GW/DL/
Downlink ACK Prefix	GIOT-GW/DL-report/

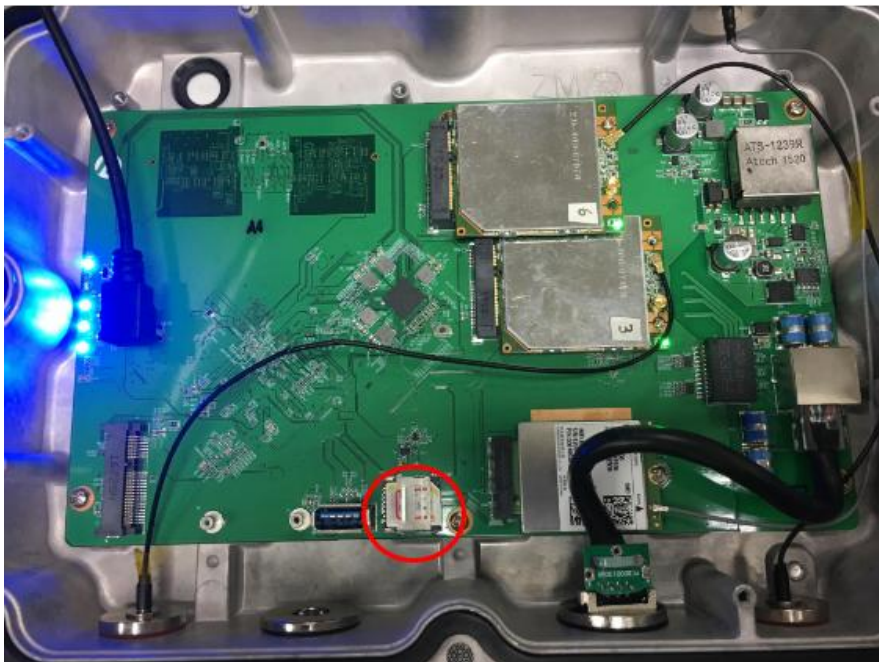
User can use “GIOT-GW/UL/+” to subscribe all the uplink data.

LTE setting

Power-off and insert SIM card



Power-on and Enable LTE function via Admin GUI



After login, go to WAN setting to enable LTE (input PIN code if needed) and press “SAVE”

LoRa Outdoor Gateway

Welcome, admin | [Log out](#)

Dashboard

Date & Time

WAN Settings

Account Settings

Device Management

LoRa Module Status

OTAA Status

OTAA Group Setting

ABP Setting

ABP Group Setting

Payload Broker Setting

WAN Settings

Ethernet Settings

IP Address Assignment:

DHCP Client

MTU:

Auto

Manual

MTU Value:

1500

 bytes(Range:576~1500,Default:1500)

DNS Server Source:

Get dynamically from ISP

DNS Server1:

192.168.75.1

DNS Server2:

MAC Address Source:

Use default MAC address

MAC Address:

1C:49:7B:C0:C0:A2

3G/4G/LTE Settings

3G/4G/LTE:

OFF

ON

!

 If the 3G/4G/LTE is turned off, the device can only access Internet through ethernet.

Save

Cancel

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LoRa Outdoor Gateway

Welcome, admin | [Log out](#)

Dashboard

Date & Time

WAN Settings

Account Settings

Device Management

LoRa Module Status

OTAA Status

OTAA Group Setting

ABP Setting

ABP Group Setting

Payload Broker Setting

WAN Settings

Ethernet Settings

IP Address Assignment:

DHCP Client

MTU:

Auto

Manual

MTU Value:

1500

 bytes(Range:576~1500,Default:1500)

DNS Server Source:

Get dynamically from ISP

DNS Server1:

192.168.75.1

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Use default MAC address

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1C:49:7B:C0:C0:A2

3G/4G/LTE Settings

3G/4G/LTE:

OFF

ON

!

 If the 3G/4G/LTE is turned off, the device can only access Internet through ethernet.

PIN Code:

Carrier:

APN Settings:

Auto

Manual

MCC:

MNC:

APN:

Server:

Username:

Password:

Proxy:

Port:

MMSC:

MMS Proxy:

MMS Port:

Type:

Save

Cancel

Unplug PoE Adapter's "DATA IN" port to let device switch from ethernet to LTE

##

By default, device use ethernet to connect to internet. Unless PoE Adapter's "DATA IN" port is unplugged, device will switch to use LTE.

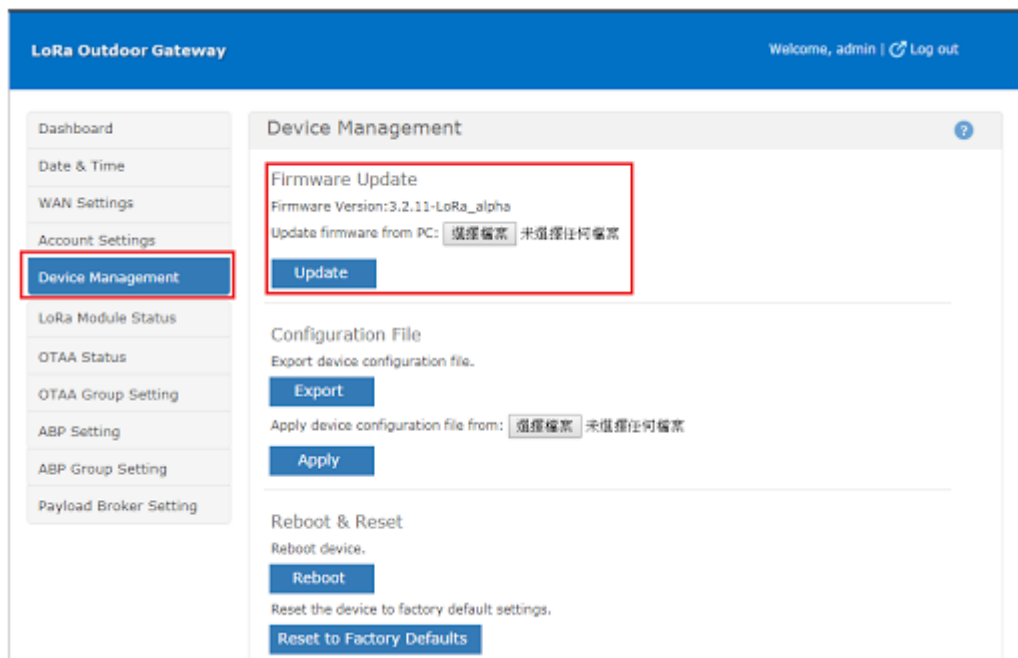


Firmware Update

Go to "Device Management"

Select the Firmware file's location

And press Update.



Installation procedure

Please follow the below process and suggestion when install the device

For POE input cable: please use cable type CL3, CL3P, CL3R, CL3X, marked "SUNLIGHT RESISTANT", "SUN. RES.", or "SR." and "water resistant" or "W".

For LAN cable: please use cable type as described in Article 800 of ANSI/NFPA 70, "National Electrical Code" (NEC).

Step 1.



Step 2.



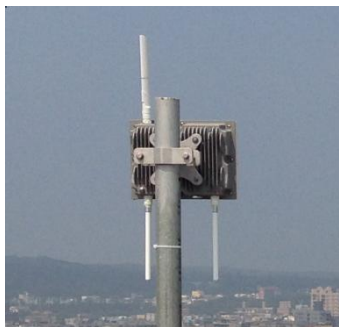
Step 3.



Step 4.



Step 5. Install the device on a pole.



Please follow below picture's direction, when install the device.



Federal Communication Commission Interference 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 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 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.

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.

IMPORTANT NOTE:

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance **23cm** between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Country Code selection feature to be disabled for products marketed to the US/CANADA.

Professional installation instruction

Please be advised that due to the unique function supplied by this product, the device is intended for use with our interactive entertainment software and licensed third-party only. The product will be distributed through controlled distribution channel and installed by trained professional and will not be sold directly to the general public through retail store.

1. Installation personal

This product is designed for specific application and needs to be installed by a qualified personal who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.

2. Installation location

The product shall be installed at a location where the radiating antenna can be kept 23cm from nearby person in normal operation condition to meet regulatory RF exposure requirement.

3. External antenna

Use only the antennas which have been approved by the applicant. The non-approved antenna(s) may produce unwanted spurious or excessive RF transmitting power which may lead to the violation of FCC/IC limit and is prohibited.

4. Installation procedure

Please refer to user's manual for the detail.

5. Warning

Please carefully select the installation position and make sure that the final output power does not exceed the limit set force in relevant rules. The violation of the rule could lead to serious federal penalty.