

Outdoor LoRaWAN[®] Gateway UG67

Quick Start Guide

Safety Precautions

Milesight will not shoulder responsibility for any loss or damage resulting from not following the instructions of this operating guide.

- The device must not be modeled in any way.
- Do not place the device close to objects with naked flames.
- Do not place the device where the temperature is below/above the operating range.
- Do not power on the device or connect it to other electrical device when installing.
- Check lightning and water protection when used outdoors.
- Do not connect or power the equipment using cables that have been damaged.

Related Documents

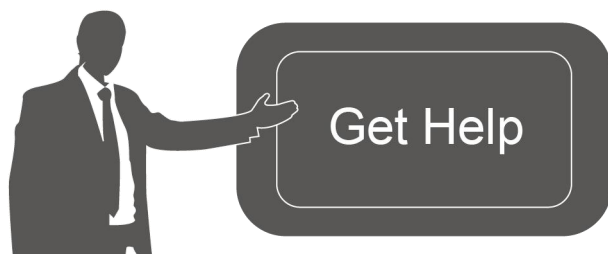
This Quick Start Guide only explains the installation of Milesight UG67 LoRaWAN® Gateway. For more functionality and advanced settings, please refer to the relevant documents as below.

Document	Description
UG67 Datasheet	Datasheet for UG67 LoRaWAN® Gateway.
UG67 User Guide	Users can refer to the guide for instruction on how to log in the web GUI, and how to configure all the settings.

The related documents are available on Milesight website: <https://www.milesight-iot.com>

Declaration of Conformity

UG67 is in conformity with the essential requirements and other relevant provisions of the CE, FCC, and RoHS.



For assistance, please contact
Milesight technical support:
Email: iot.support@milesight.com
Tel: 86-592-5085280
Fax: 86-592-5023065

FCC Statement

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

Note: 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.

FCC 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 20cm between the radiator& your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Revision History

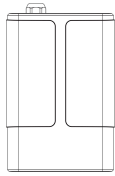
Date	Doc Version	Description
October 30, 2020	V1.0	Initial version
May 6, 2021	V1.1	Delete optional mark of LoRa antennas, add DC pinouts
July 29, 2021	V1.2	Add antenna accessories and installation method

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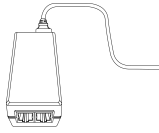
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1. Packing List

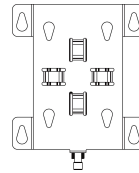
Before you begin to install the UG67 LoRaWAN® Gateway, please check the package contents to verify that you have received the items below.



1 × UG67



1 × PoE Injector



1 × Mounting Bracket



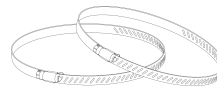
Wall Mounting Kits



1 × Cable Gland



1 × SIM Dust Cover



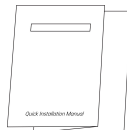
2 × Hose Clamps



1 × DC Power Cable



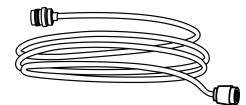
1 × Warranty Card



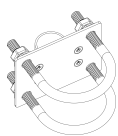
1 × Quick Start Guide



2 × LoRa Antennas



1 × Antenna Coaxial
Cable (1m)



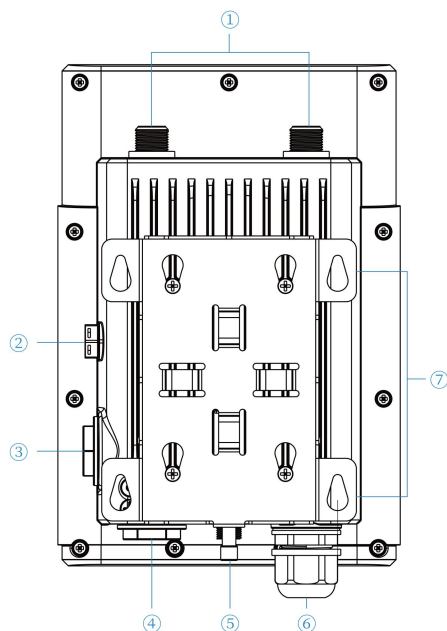
1 × Antenna Clamp Kit



If any of the above items is missing or damaged, please contact your sales representative.

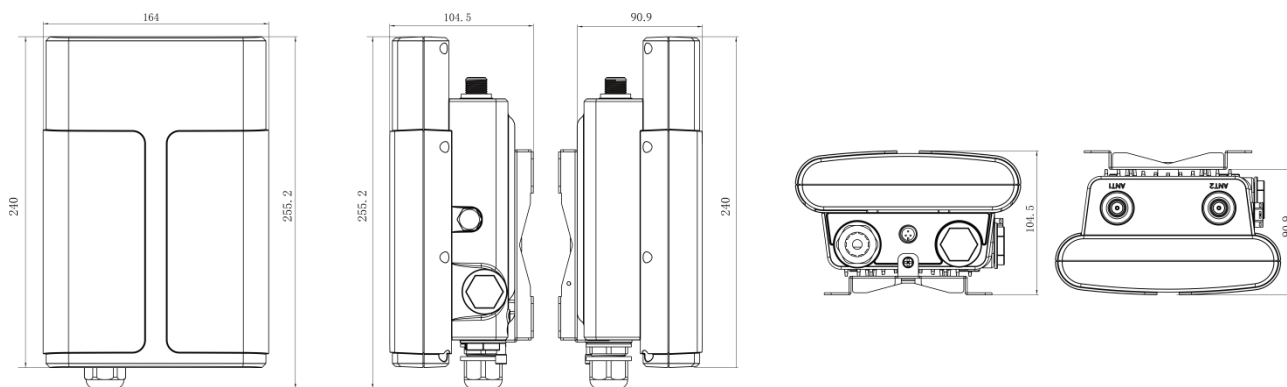
2. Hardware Introduction

2.1 Overview



- ① LoRa Antenna Connector
- ② Vent Plug
- ③ SIM Slot
- ④ LED Area & Type-C Port & Reset Button
- SYS: System Indicator
- LoRa: LoRa Indicator
- LTE: Cellular Indicator
- ⑤ DC Power Connector (Solar Connector)
- ⑥ Ethernet Port (PoE)
- ⑦ Mounting Bracket

2.2 Dimensions (mm)



2.3 LED Indicators

LED	Indication	Status	Description
SYS	System Status	Green Light	Static: the system is running properly
		Red Light	The system goes wrong
LoRa	LoRa Status	Off	Packet Forwarder mode is running off
		Green Light	Packet Forwarder mode is running well
LTE	Cellular Status	Off	SIM card is registering or fails to register (or there are no SIM cards inserted)
		Green Light	Blinking slowly: SIM card has been registered and is ready for dial-up

			Blinking rapidly: SIM card has been registered and is dialing up now
			Static: SIM card has been registered and dialed up successfully

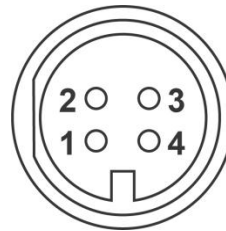
2.4 Reset Button

Function	Description	
	SYS LED	Action
Reset	Static Green	Press and hold the reset button for more than 5 seconds.
	Static Green → Rapidly Blinking	Release the button and wait.
	Off → Static Green	The gateway resets to factory default.

2.5 DC Power Connector

UG67 supports 12 VDC or solar supply via M12 connector.

Pin	Color	Description
1	Black	GND
2	White	Reserved
3	Yellow	Reserved
4	Red	+12V



3. Hardware Installation

3.1 SIM Card Installation

A. Insert the SIM card into the device according to the direction icon on the device. If you need to take out the SIM card, press into the SIM card and it will pop up automatically.

B. Tighten the SIM dust cover with wrench to prevent water into the device.

Note: UG67 does not support hot plugging (also called hot swapping). please turn off the power before you insert or take off cards.

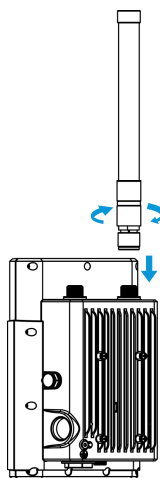


3.2 Antenna Installation

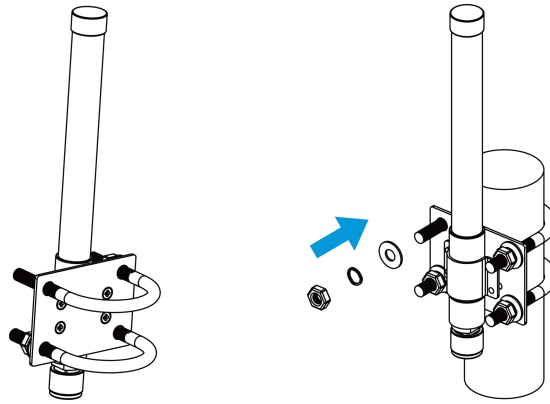
UG67 supports multiple LoRa antenna types. After installation, please select the corresponding installation type in web GUI.

Internal Antenna Mode: keep gateway positive outwards to ensure good signal.

Signal Antenna Mode: the external antenna must be installed on ANT1 connector.

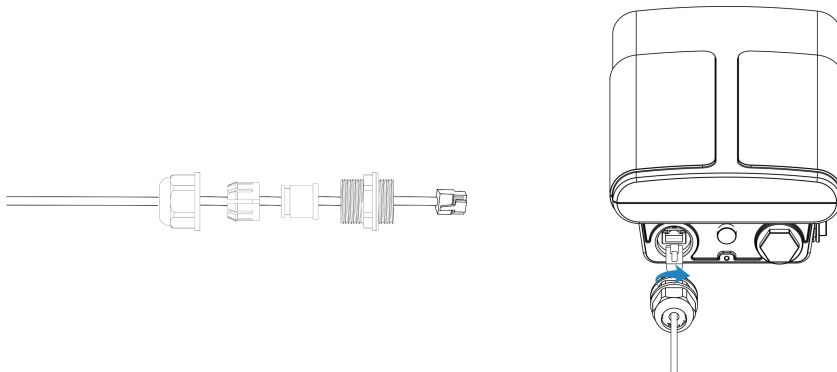


Double Antenna Mode: it's suggested to add coaxial cable between one of antenna connectors (ANT1 is recommended) and LoRa antenna to ensure better performance. After installation, the LoRa antenna can be fixed to a pole via antenna clamp kit. Pass this LoRa antenna through the antenna clamp and fix it with 4 screws, then wrap the U-bolt around a pole and fix the clamp with nuts and other accessories.

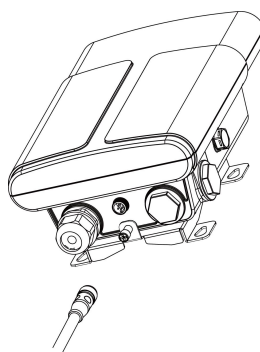


3.3 Ethernet Cable & Power Cable Installation

Pass the Ethernet cable through the cable gland and rotate the cable gland to gateway, then tighten the cable gland with wrench.

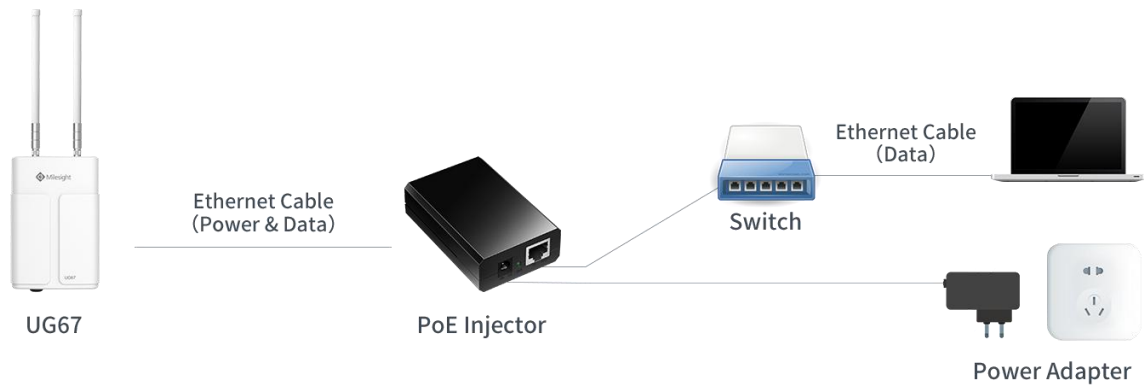


For DC or solar power supply, remove the protective cap of power connector and rotate the DC power cable into the power connector.



3.4 Power Supply

UG67 can be powered by 802.3af standard PoE or 12VDC. Please follow the picture to provide power supply via PoE injector:



3.5 Gateway Installation

UG67 can be mounted to a wall or a pole. Before you start, make sure that your SIM card has been inserted, your antennas have been attached and all cables have been installed.

Note: Do not connect device to power supply or other devices when installing.

3.5.1 Wall Mounting

Preparation: mounting bracket (with a screw), wall plugs, wall mounting screws and other required tools.

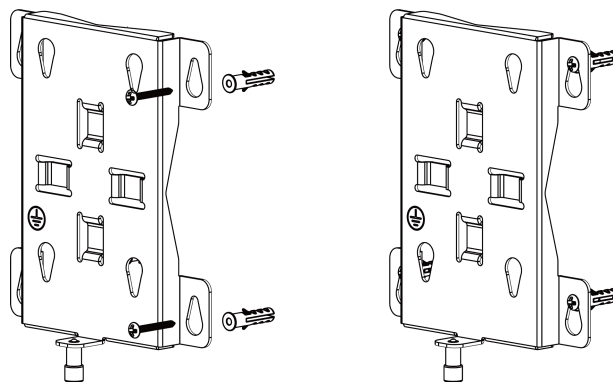
A. Align the mounting bracket horizontally to the desired position on the wall, use a marker pen to mark four mounting holes on the wall, and then remove the mounting bracket from the wall.

Note: The connecting lines of adjacent points are at right angles.

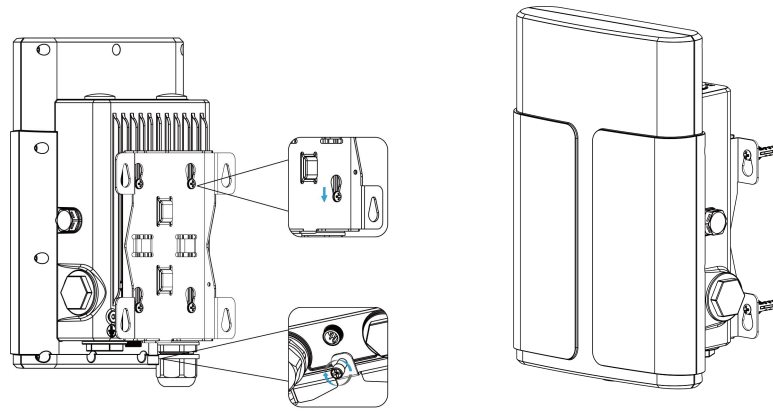
B. Drill four holes with a depth of 32 mm by using your drill with a 6 mm drill bit on the positions you marked previously on the wall.

C. Insert four wall plugs into the holes respectively.

D. Mount the mounting bracket horizontally to the wall by fixing the wall mounting screws into the wall plugs.



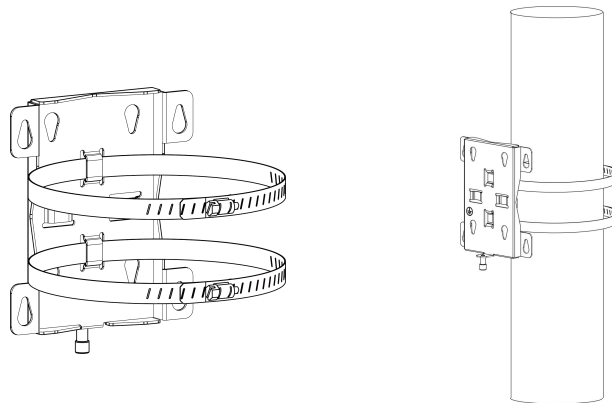
E. Hang the device to the mounting bracket via bracket mounting screws on the back of device, then screw the bracket screw to the bottom of the device.



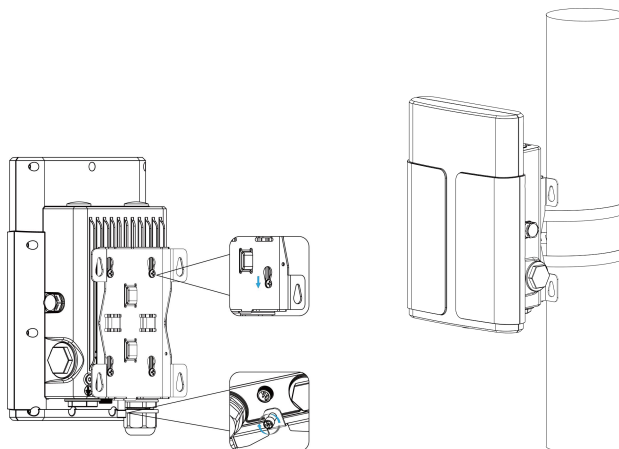
3.5.2 Pole Mounting

Preparation: mounting bracket (with a screw), hose clamp and other required tools.

- A. Loosen the hose clamp by turning the locking mechanism counter-clockwise.
- B. Straighten out the hose clamp and slide it through the rectangular rings in the mounting bracket, wrap the hose clamp around the pole.
- C. Use a screwdriver to tighten the locking mechanism by turning it clockwise.



- D. Hang the device to the mounting bracket via bracket mounting screws on the back of device, then screw the bracket screw to the bottom of the device.



4. Login the Web GUI

UG67 provides web-based configuration interface for management. If this is the first time you configure the gateway, please use the default settings below:

ETH IP Address: **192.168.23.150**

Wi-Fi IP Address: **192.168.1.1**

Wi-Fi SSID: **Gateway_*******

Username: **admin**

Password: **password**

4.1 Wireless Access

A. Enable Wireless Network Connection on your computer and search for access point “Gateway_*****” to connect it.

B. Open a Web browser on your PC (Chrome is recommended) and type in the IP address 192.168.1.1 to access the web GUI.

C. Enter the username and password, click “Login”.

English

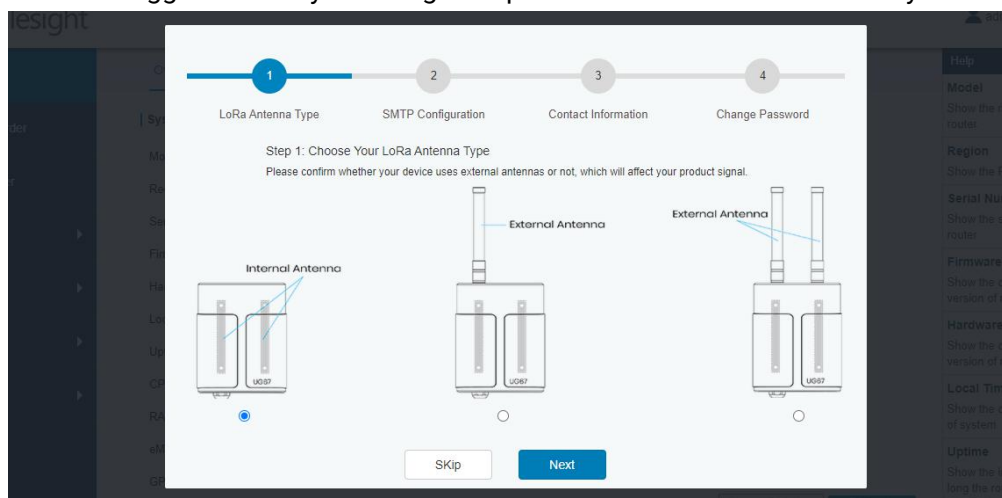


Login



If you enter the username or password incorrectly more than 5 times, the login page will be locked for 10 minutes.

D. After logging the web GUI, follow the guide to complete the basic configurations. You can also skip the instructions. It's suggested that you change the password for the sake of security.



E. You can view system information and perform configuration of the gateway.

The screenshot shows the Milesight gateway web interface. The top navigation bar includes 'Status', 'Overview', 'Packet Forward', 'Cellular', 'Network', 'WLAN', 'VPN', and 'Host List'. The 'Overview' tab is selected, displaying 'System Information'. The system information table lists the following details:

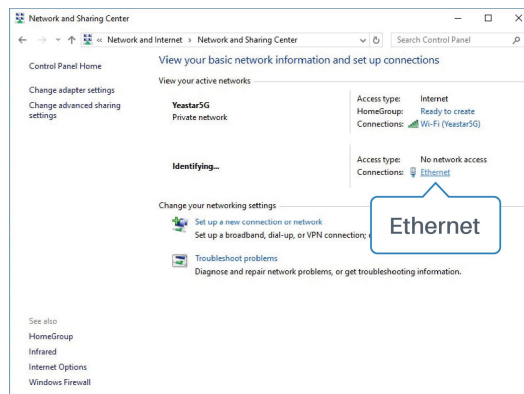
Item	Value
Model	UG67-L00E-470M
Region	CN470
Serial Number	6222A3243835
Firmware Version	60.0.0.23
Hardware Version	V1.0
Local Time	2020-12-14 17:05:05 Monday
Uptime	4days,05:52:48
CPU Load	2%
RAM (Capacity/Available)	512MB/77MB(15.04%)
eMMC (Capacity/Available)	3.0GiB/2.7GiB(89.74%)
GPS	-

At the bottom right of the system information section, there are buttons for 'Manual Refresh' and 'Refresh'. On the right side of the interface, there is a 'Help' sidebar with links for Model, Region, Serial Number, Firmware Version, Hardware Version, Local Time, and Uptime.

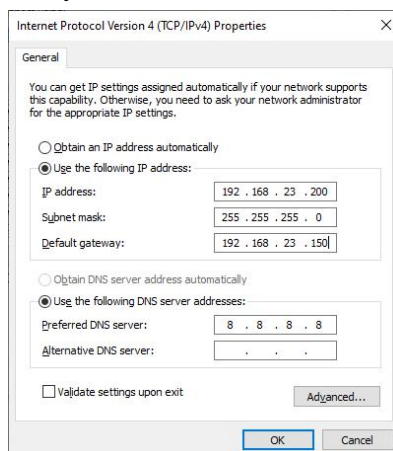
4.2 Wired Access

Connect PC to UG67 ETH port through PoE injector. The following steps are based on Windows 10 operating system for your reference.

A. Go to "Control Panel" → "Network and Internet" → "Network and Sharing Center", then click "Ethernet" (May have different names).



B. Go to "Properties" → "Internet Protocol Version 4(TCP/IPv4)" and select "Use the following IP address", then assign a static IP manually within the same subnet of the gateway.



C. Open a Web browser on your PC (Chrome is recommended) and type in the IP address 192.168.23.150 to access the web GUI.

D. Enter the username and password, click "Login".

English

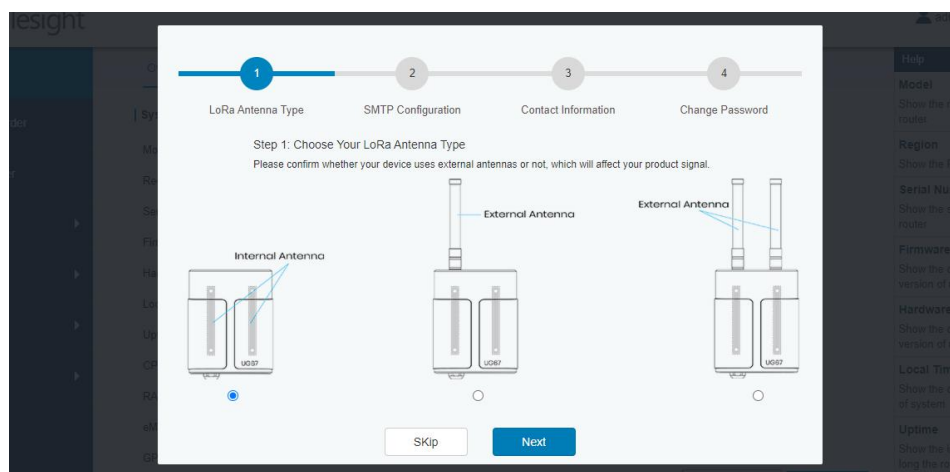


Login



If you enter the username or password incorrectly more than 5 times, the login page will be locked for 10 minutes.

E. After logging the web GUI, follow the guide to complete the basic configurations. You can also skip the instructions. It's suggested that you change the password for the sake of security.



F. After guide complete, you can view system information and perform configuration of the gateway.

Milesight

admin

For your device security, please change the default password.

Status

Packet Forwarder

Network Server

Network

System

Maintenance

APP

Overview

Packet Forward

Cellular

Network

WLAN

VPN

Host List

System Information

Model: UG67-L00E-470M

Region: CN470

Serial Number: 6222A3243835

Firmware Version: 60.0.0.23

Hardware Version: V1.0

Local Time: 2020-12-14 17:05:05 Monday

Uptime: 4days,05:52:48

CPU Load: 2%

RAM (Capacity/Available): 512MB/77MB(15.04%)

eMMC (Capacity/Available): 3.0G/2.7G(89.74%)

GPS: -

Manual Refresh Refresh

Help

Model: Show the model name of router.

Region: Show the Region of router.

Serial Number: Show the serial number of router.

Firmware Version: Show the current firmware version of router.

Hardware Version: Show the current hardware version of router.

Local Time: Show the current local time of system.

Uptime: Show the information on how long the router has been running.

5. Network Connection

This section explains how to connect the gateway to network via WAN connection, Wi-Fi or cellular.

5.1 Configure the Ethernet Connection

- Go to “Network” → “Interface” → “Port” page to select the connection type and configure Ethernet port information.
- Click “Save & Apply” for changes to take effect.

Port_1

Port: eth 0

Connection Type: Static IP

IP Address: 192.168.22.112

Netmask: 255.255.255.0

Gateway: 192.168.22.1

MTU: 1500

Primary DNS Server: 8.8.8.8

Secondary DNS Server: 114.114.114.114

Enable NAT: ☒

Multiple IP Address

IP Address	Netmask	Operation
		+

- Connect Ethernet port of gateway to devices like router or modem.
- Log in the web GUI via the newly assigned Ethernet port IP address and check network connection.

Overview

Packet Forward

Cellular

Network

WLAN

VPN

Host List

WAN

Port	Status	Type	IP Address	Netmask	Gateway	DNS	Duration
eth 0	up	Static	192.168.22.112	255.255.255.0	192.168.22.1	8.8.8.8	1days,02h 34m 22s

5.2 Configure the Wi-Fi Connection

- Go to “Network” → “Interface” → “WLAN” and select “Client” mode.
- Click “Scan” to search for Wi-Fi access point. Select the available one and click “Join Network”.

Port

WLAN

Cellular

Loopback

< GoBack

SSID	Channel	Signal	Cipher	BSSID	Security	Frequency	
AAA	Auto	-61dBm	AES	24:e1:24:f0:c4:13	WPA-PSK/WPA2-PSK	2412MHz	Join Network

C. Type the key of Wi-Fi.

Port	WLAN	Cellular	Loopback
WLAN			
Enable	☒		
Work Mode	Client		Scan
SSID	AAA		
BSSID	24:e1:24:f0:c4:13		
Encryption Mode	WPA-PSK/WPA2-PSK		
Cipher	AES		
Key	*****		
IP Setting			
Protocol	DHCP Client		

D. Go to "Status"→"WLAN" to check Wi-Fi status. If it shows "Connected", it means gateway connects to Wi-Fi successfully.

Overview	Packet Forward	Cellular	Network	WLAN
WLAN Status				
Wireless Status	Enabled			
MAC Address	24:e1:24:f0:de:14			
Interface Type	Client			
SSID	AAA			
Channel	Auto			
Encryption Type	WPA-PSK/WPA2-PSK			
Cipher	AES			
Status	Connected			
IP Address	192.168.1.145			
Netmask	255.255.255.0			
Connection Duration	0 days, 02:44:45			

5.3 Configure the Cellular Connection

- Go to "Network" → "Interface" → "Cellular" → "Cellular Setting" page to enable cellular settings.
- Choose relevant network type and fill in SIM card information like APN or PIN code.
- Click "Save" and "Apply" for changes to take effect.

Port	WLAN	Cellular	Loopback
Cellular Setting			
Enable		☒	
Network Type		Auto	
APN			
Username			
Password			
Access Number			
PIN Code			
Authentication Type		Auto	
Roaming		☒	
SMS Center			
Connection Setting		☐	
Enable NAT		☒	

- Go to "Status" → "Cellular" page to view the status of the cellular connection. If it shows "Connected", it means the SIM has dialed up successfully. On the other hand, you can check the status of LTE indicator. If it keeps on light statically, it means SIM has dialed up successfully.

Overview	Packet Forward	Cellular	Network	WLAN
Modem				
Status	Ready			
Model	EC25			
Version	EC25ECGAR06A07M1G			
Signal Level	23asu (-67dBm)			
Register Status	Registered (Home network)			
IMEI	860425047368939			
IMSI	460019425301842			
ICCID	89860117838009934120			
ISP	CHN-UNICOM			
Network Type	LTE			
PLMN ID				
LAC	5922			
Cell ID	340db83			
Network				
Status	Connected			
IP Address	10.132.132.59			
Netmask	255.255.255.240			
Gateway	10.132.132.60			

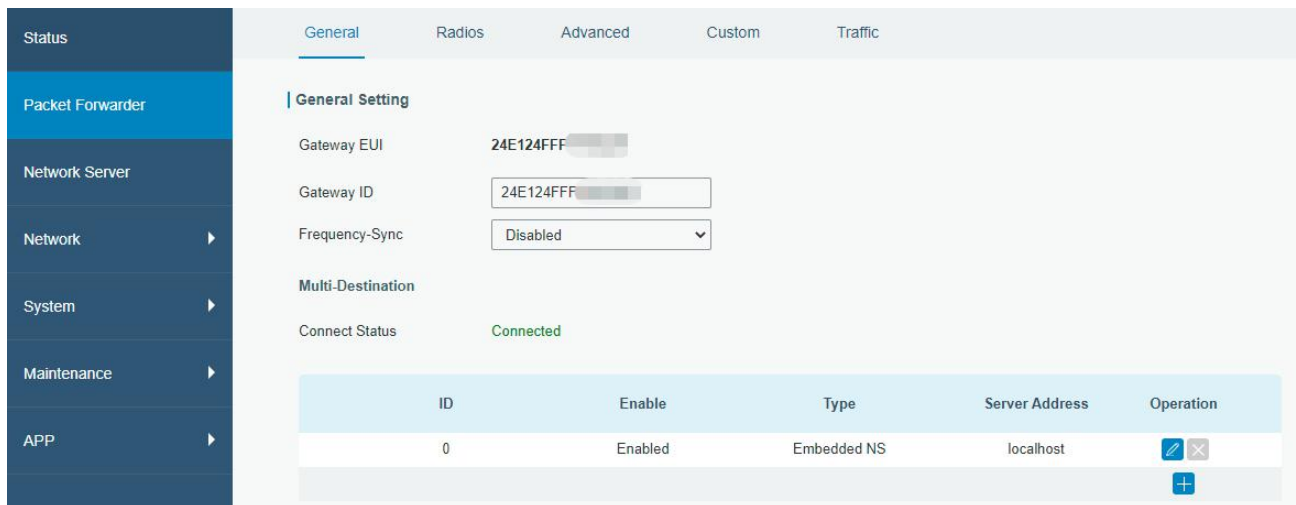
6. Packet Forwarder Configuration

UG67 has installed multiple packet forwarders including Semtech, Chirpstack-Generic MQTT broker, etc. This section explains how to connect the gateway to network servers.



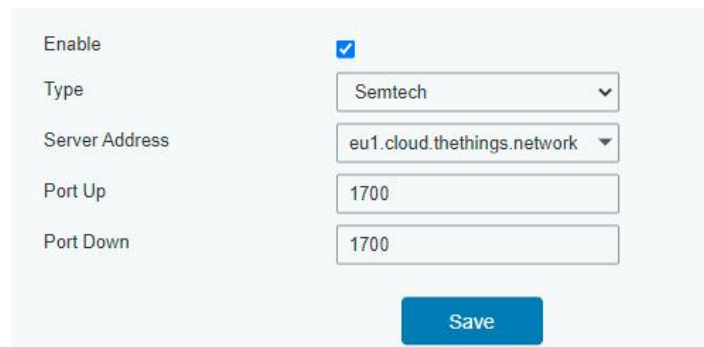
Make sure the gateway connects to the network as shown in [Section 5](#).

A. Go to “Packet Forwarder” → “General” page and click  to add a network server.

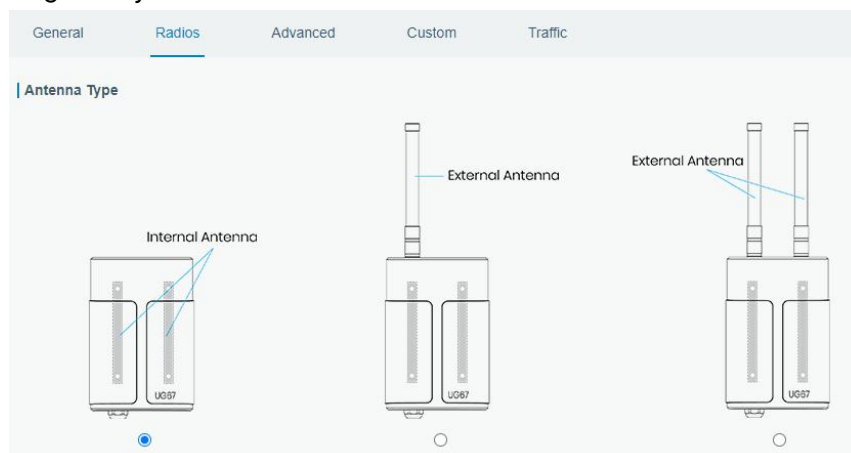


ID	Enable	Type	Server Address	Operation
0	Enabled	Embedded NS	localhost	 

B. Fill in the server information and enable this server.



C. Go to “Packet Forwarder” → “Radio” page to configure antenna type, center frequency and channels. The channels of the gateway and network server need to be the same.



Region US915

Name	Center Frequency/MHz
Radio 0	904.3
Radio 1	905.0

Multi Channels Setting

Enable	Index	Radio	Frequency/MHz
☒	0	Radio 0	903.9
☒	1	Radio 0	904.1
☒	2	Radio 0	904.3
☒	3	Radio 0	904.5
☒	4	Radio 1	904.7
☒	5	Radio 1	904.9
☒	6	Radio 1	905.1
☒	7	Radio 1	905.3

D. Add the gateway on network server page. For more details about the network server connection please refer to [Milesight IoT Support portal](#).

E. Go to "Traffic" page to view the data communication of UG67.

GeneralRadiosAdvancedCustomTraffic

Traffic Setting

StopClear

Rfch	Direction	Time	Ticks	Frequency	Datarate	Coderate	RSSI	SNR
1	up	11:52:38	317882157 1	865.985	SF7BW125	4/5	-91	5.0
1	up	11:52:22	316226269 2	866.585	SF7BW125	4/7	-108	-11.8
0	down	-	311888813 1	865.0625	SF7BW125	4/5	-	-
0	up	11:51:37	311788813 1	865.0625	SF7BW125	4/5	-95	-0.8

7. Network Server Configuration

UG67 can work as network server and transmit data to Milesight IoT Cloud or other platform via MQTT/HTTP/HTTPS.



Make sure the gateway connects to the network as shown in [Section 5](#).

7.1 Connect UG67 to Milesight IoT Cloud

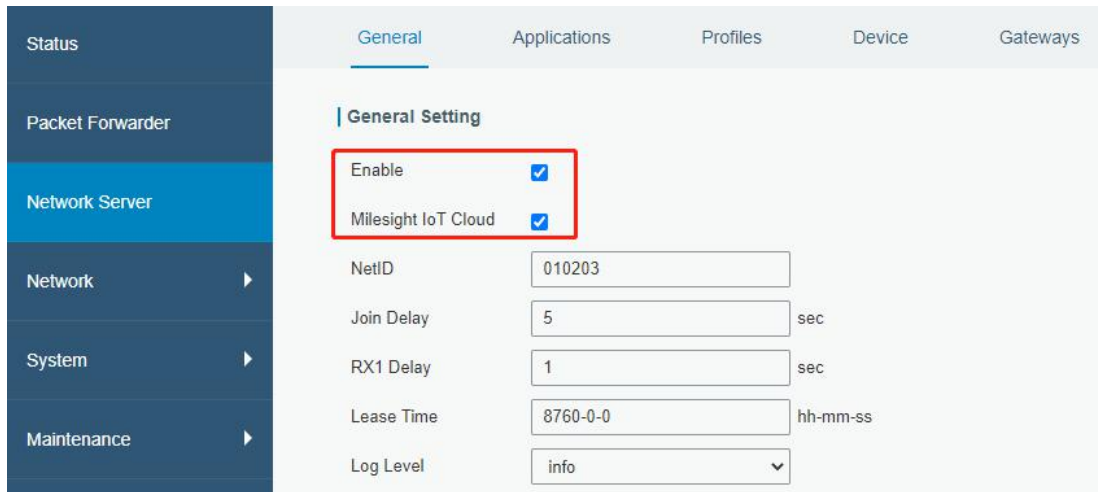
A. Go to “Packet Forwarder” → “General” page to enable the embedded network server.

ID	Enable	Type	Server Address	Operation
0	Enabled	Embedded NS	localhost	

B. Go to “Packet Forwarder” → “Radio” page to select the antenna type, center frequency and channels. The channels of the gateway and nodes need to be the same.

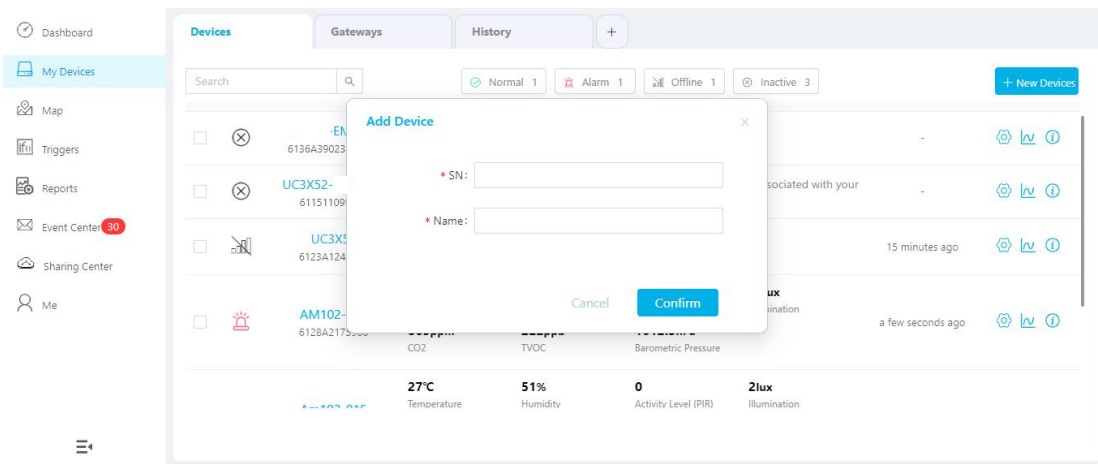
Enable	Index	Radio	Frequency/MHz
☒	0	Radio 0	903.9
☒	1	Radio 0	904.1
☒	2	Radio 0	904.3
☒	3	Radio 0	904.5
☒	4	Radio 1	904.7
☒	5	Radio 1	904.9
☒	6	Radio 1	905.1
☒	7	Radio 1	905.3

C. Go to “Network Server” → “General” page to enable the network server and “Milesight IoT Cloud” mode.



General	Applications	Profiles	Device	Gateways
General Setting				
Enable ☒				
Milesight IoT Cloud ☒				
NetID	010203			
Join Delay	5	sec		
RX1 Delay	1	sec		
Lease Time	8760-0-0	hh-mm-ss		
Log Level	info			

D. Log in the Milesight IoT Cloud. Then go to “My Devices” page and click “+New Devices” to add gateway to Milesight IoT Cloud via SN. Gateway will be added under “Gateways” menu.



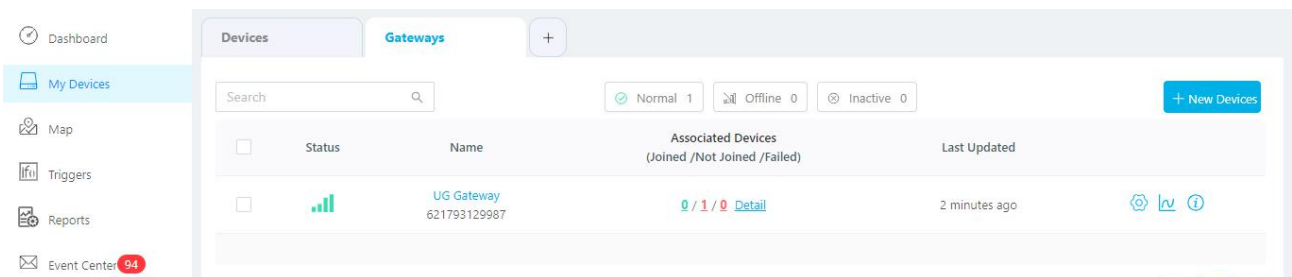
Add Device

* SN:

* Name:

Cancel Confirm

E. The gateway is online on Milesight IoT Cloud.



Status	Name	Associated Devices (Joined / Not Joined / Failed)	Last Updated
	UG Gateway 621793129987	0 / 1 / 0 Detail	2 minutes ago

7.2 Connect UG67 to MQTT/HTTP Server

A. Go to “Packet Forwarder” → “General” page to enable the embedded network server.

The screenshot shows the 'General Setting' page for the Packet Forwarder. The left sidebar contains navigation links: Status, Packet Forwarder (selected), Network Server, Network, System, Maintenance, and APP. The main content area has tabs for General, Radios, Advanced, Custom, and Traffic. Under 'General Setting', the following fields are visible:

- Gateway EUI: 24E124FF
- Gateway ID: 24E124FF
- Frequency-Sync: Disabled
- Multi-Destination: (empty)
- Connect Status: Connected

Below these settings is a table with the following columns: ID, Enable, Type, Server Address, and Operation.

ID	Enable	Type	Server Address	Operation
0	Enabled	Embedded NS	localhost	[Edit] [Delete] [Add]

B. Go to “Packet Forwarder” → “Radio” page to select the antenna type, center frequency and channels. The channels of the gateway and nodes need to be the same.

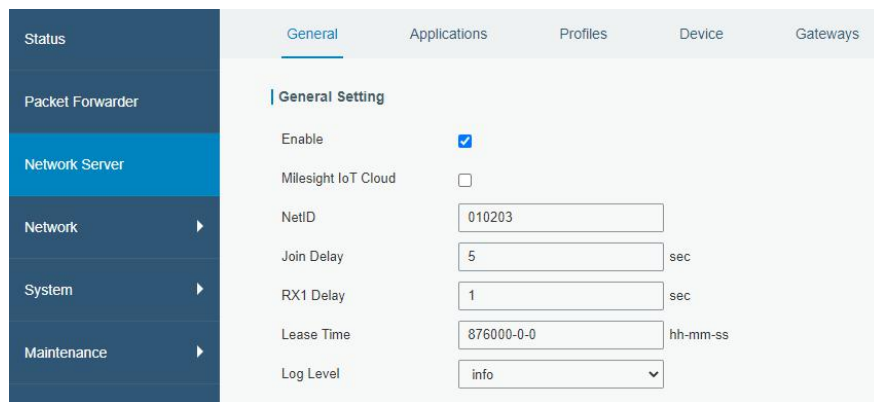
The screenshot shows the 'Radio' configuration page. At the top, the 'Region' is set to 'US915'. Below this is a table for radio configuration:

Name	Center Frequency/MHz
Radio 0	904.3
Radio 1	905.0

Below the table is the 'Multi Channels Setting' section, which contains another table:

Enable	Index	Radio	Frequency/MHz
☒	0	Radio 0	903.9
☒	1	Radio 0	904.1
☒	2	Radio 0	904.3
☒	3	Radio 0	904.5
☒	4	Radio 1	904.7
☒	5	Radio 1	904.9
☒	6	Radio 1	905.1
☒	7	Radio 1	905.3

C. Go to “Network Server” → “General” page to enable the network server mode.

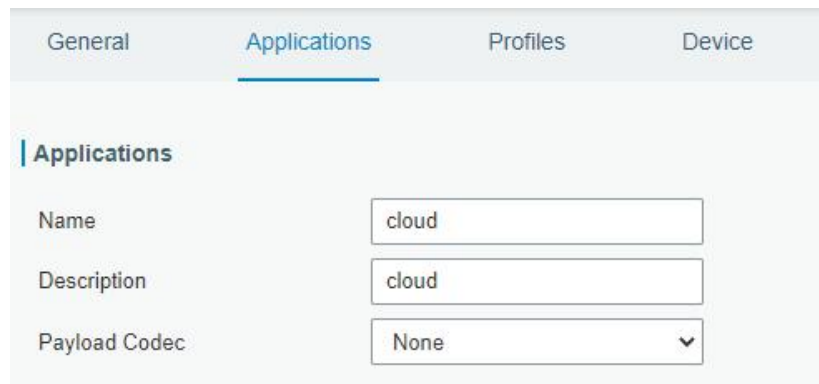


	General	Applications	Profiles	Device	Gateways
Status					
Packet Forwarder					
Network Server					
Network					
System					
Maintenance					

General Setting

Enable	☒
Mulesight IoT Cloud	☐
NetID	010203
Join Delay	5 sec
RX1 Delay	1 sec
Lease Time	876000-0-0 hh-mm-ss
Log Level	info

D. Go to "Network Server"→"Application" to add a new application.

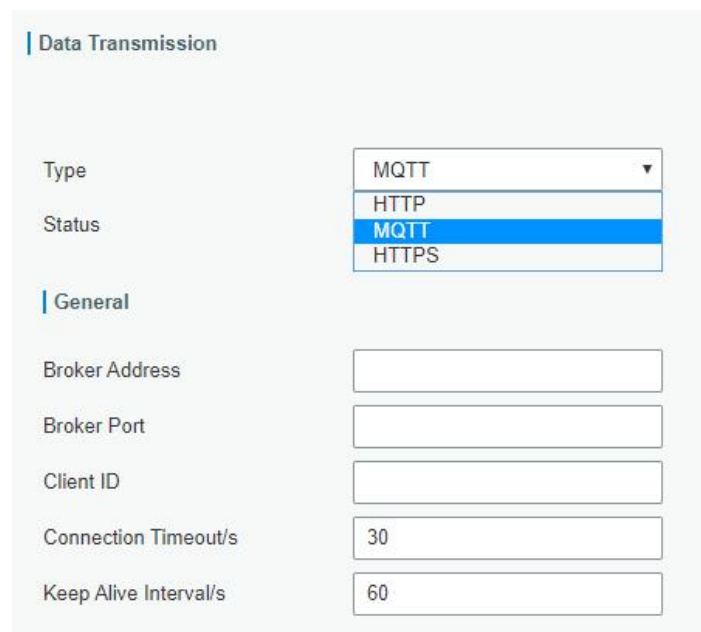


General	Applications	Profiles	Device

Applications

Name	cloud
Description	cloud
Payload Codec	None

After saving the application, you can select HTTP, HTTPS or MQTT protocol and fill in correspond server information to send data to another server.



Data Transmission

Type	MQTT
Status	

General

Broker Address	
Broker Port	
Client ID	
Connection Timeout/s	30
Keep Alive Interval/s	60

E. Go to "Profiles" page to add a new profile for the device.

General Applications **Profiles** Device

Device Profiles

Name

Max TXPower

Join Type

Class Type ☒ Class A ☐ Class B ☐ Class C

Advanced ☐

Save **Cancel**

F. Go to “Device” page and click “Add” to add LoRaWAN® node devices.

General Applications Profiles **Device** Gateways Packets

Device

Add **Bulk Import** **Delete All**

Device Name	Device EUI	Device-Profile	Application	Last Seen	Activated	Operation
No matching records found						

Device Name

Description

Device EUI

Device-Profile

Application

Frame-counter Validation ☐

Application Key

Device Address

Network Session Key

Application Session Key

Uplink Frame-counter

Downlink Frame-counter

Save & Apply

You can also click “Bulk Import” if you want to add many nodes all at once.

Import File **Browse** **Import** **Template Download**

Click “Template Download” to download template file and add device information to this file. Application

and device profile should be the same as you created on web page.

	A	B	C	D	E	F	G	H	I
1	name	description	deveui	application	deviceprofile	appkey	devaddr	appskey	nwkskey
2	24e1242191323266		24e1242191323266	cloud	ClassC-OTAA	112233445566778899aa112233445566			
3									
4									
5									

Import this file to add bulks of devices.

F. Go to “Packets” page to check the packets from LoRaWAN® node devices. The type starts from “Up” means uplinks and “Dn” means downlinks.

Network Server

Clear

Search

Device EUI	Frequency	Datarate	SNR	RSSI	Size	Fcnt	Type	Time	Details
24e124126a146579	868300000	SF7BW125	8.5	-85	4	14	UpUnc	2020-04-28T15:09:25+08:00	!
24e124126a146579	868300000	SF7BW125	10.2	-75	4	13	UpUnc	2020-04-28T15:04:25+08:00	!

Click “Details” to check the properties and payload contents of packets.

Packets Details	
Fcnt	14
Port	85
Modulation	LORA
Bandwidth	125
SpreadFactor	7
Bitrate	0
CodeRate	4/5
SNR	8.5
RSSI	-85
Power	-
Payload(b64)	A3cYAA==
Payload(hex)	03771800
MIC	f5acdeb2

[END]