



# Outdoor LoRaWAN<sup>®</sup> 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

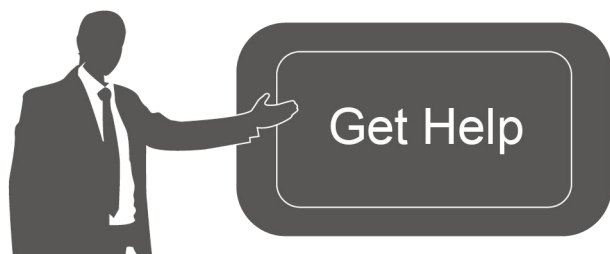
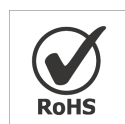
This Quick Start Guide only explains the installation of Milesight UG67 LoRaWAN® Gateway. For more functionality and advanced settings, please refer to the relevant documents as below.

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](mailto:iot.support@milesight.com)

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361024, China

## Revision History

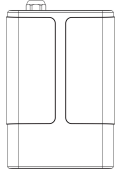
Date	Doc Version	Description
October 30, 2020	V1.0	Initial version
May 6, 2021	V1.1	Delete optional mark of LoRa antennas, add DC pinouts
July 29, 2021	V1.2	Add antenna accessories and installation method
Oct. 31, 2022	V 1.3	1. Delete Ethernet cable 2. Web GUI pictures update

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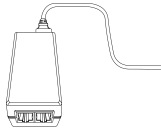
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## 1. Packing List

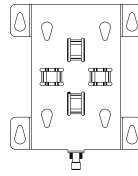
Before you begin to install the UG67 LoRaWAN® Gateway, please check the package contents to verify that you have received the items below.



1 × UG67



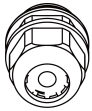
1 × PoE Injector



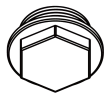
1 × Mounting Bracket



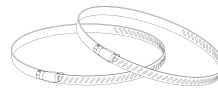
4 × Wall Mounting Kits



1 × RJ45 Cable Gland



1 × SIM Dust Cover



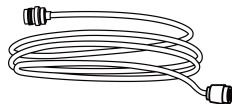
2 × Hose Clamps



1 × M12 DC Power  
Cable



2 × LoRaWAN® Antennas  
(60 cm)



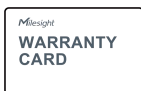
1 × Antenna Coaxial  
Cable (1m)



1 × Antenna Clamp Kit



1 × Quick Start Guide



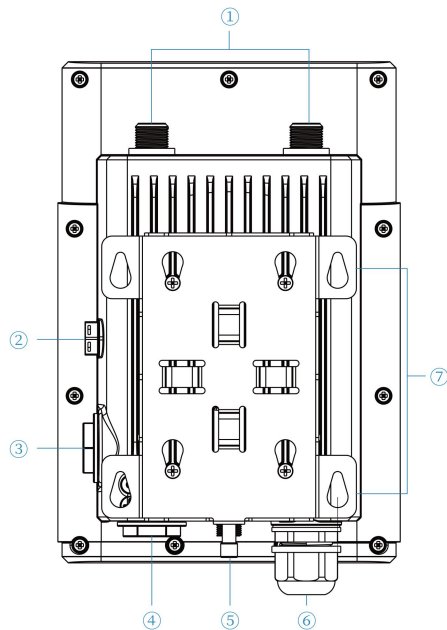
1 × Warranty Card



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

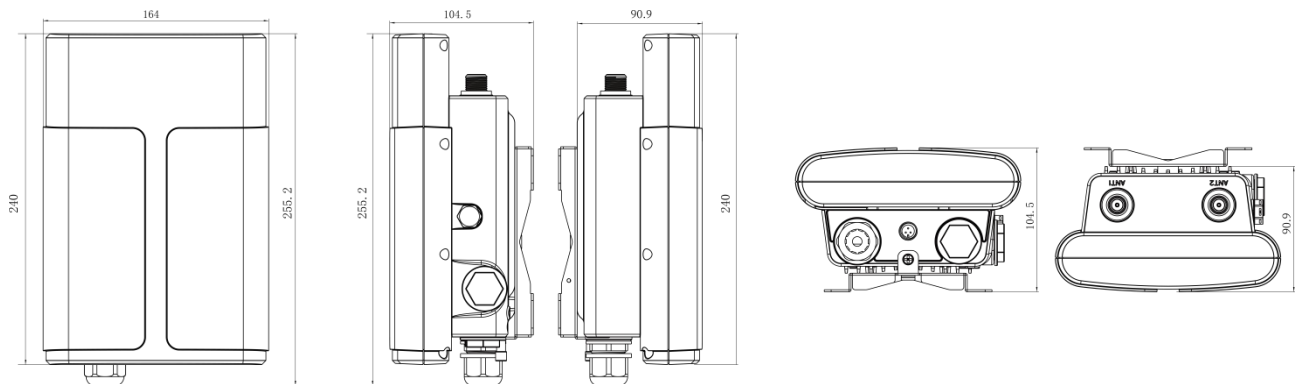
## 2. Hardware Introduction

### 2.1 Overview



- ① LoRaWAN® 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	Packet Forwarder 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

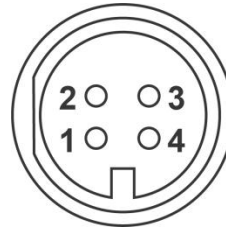
## 2.4 Reset Button

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.

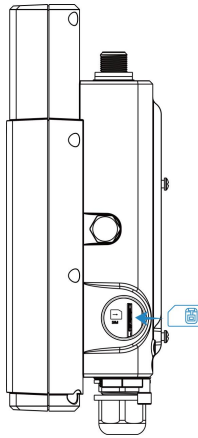
Pin	Color	Description
1	Black	GND
2	White	Reserved
3	Yellow	Reserved
4	Red	+12V



### 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.



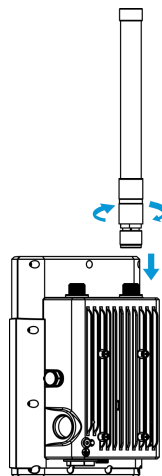
#### 3.2 Antenna Installation

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

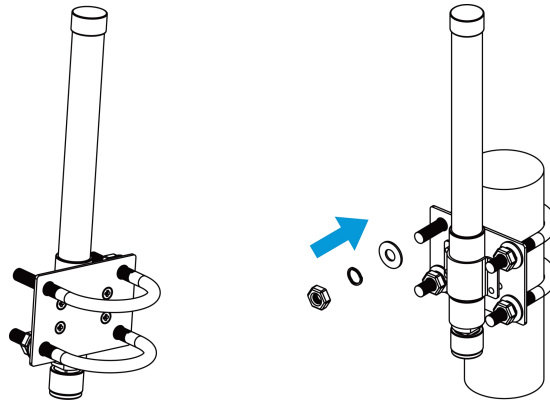
**Internal Antenna Mode:** keep gateway positive outwards to ensure good signal.

**Single or Double Antenna Mode:** pass one LoRaWAN® 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. After installation, connect this antenna to gateway antenna **ANT1** connector via the coaxial cable. For double antenna mode, please connect another antenna to ANT2 connector directly.

**Note:** do not install this antenna to gateway directly if there is strong wind on the scene.

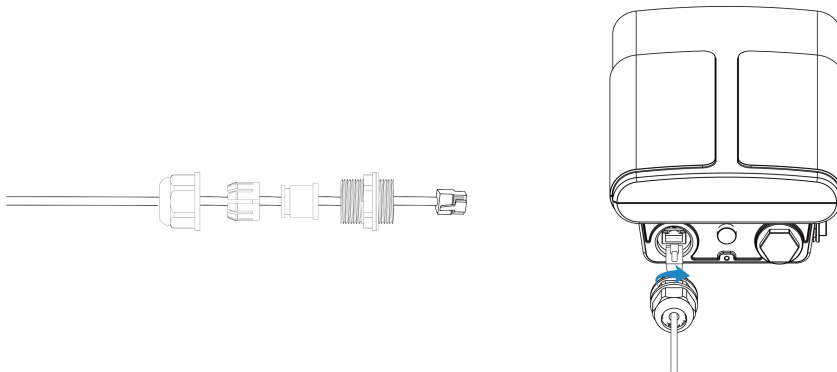




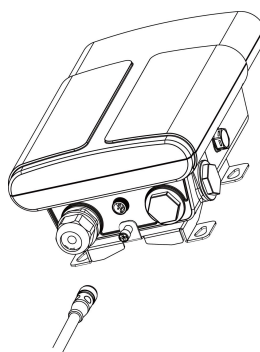


### 3.3 Ethernet Cable & Power Cable Installation

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

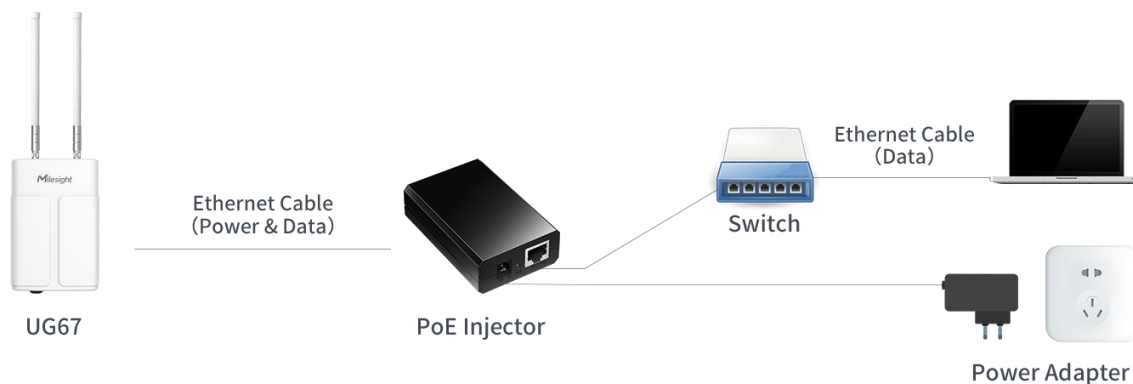


For DC or solar power supply, remove the protective cap of power connector and rotate the DC power cable into the power connector.



### 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.

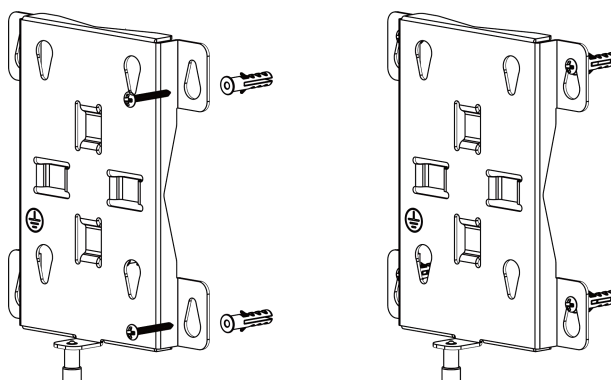
A. Align the mounting bracket horizontally to the desired position on the wall, use a marker pen to mark four mounting holes on the wall, and then remove the mounting bracket from the wall.

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

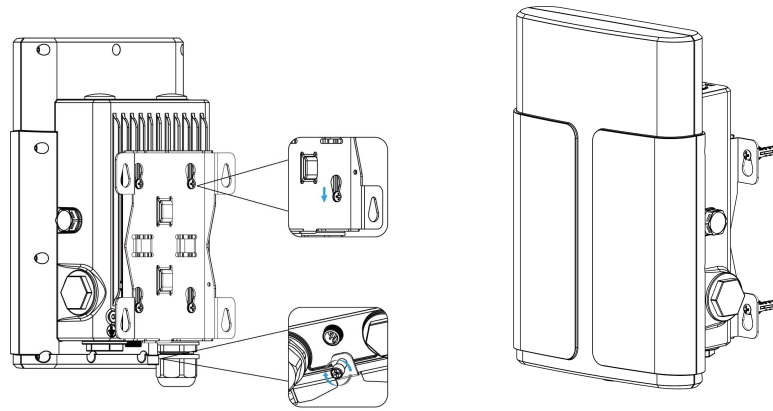
B. Drill four holes with a depth of 32 mm by using your drill with a 6 mm drill bit on the positions you marked previously on the wall.

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.



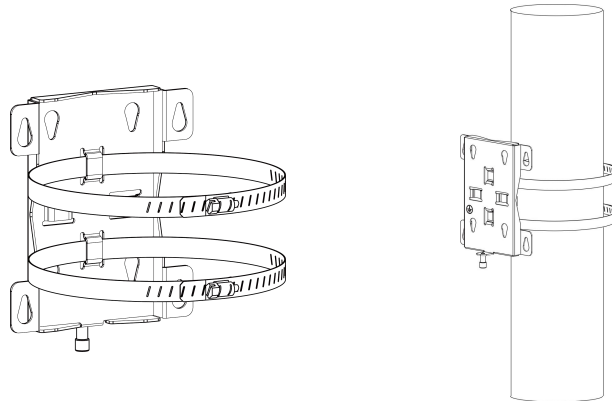
E. Hang the device to the mounting bracket via bracket mounting screws on the back of device, then screw the bracket screw to the bottom of the device.



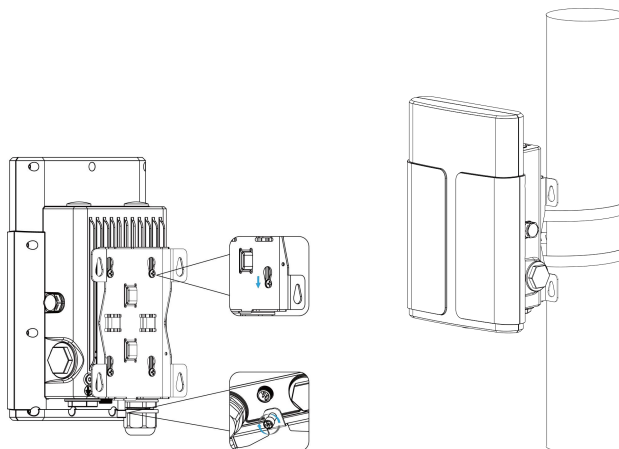
### 3.5.2 Pole Mounting

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

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



- 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:

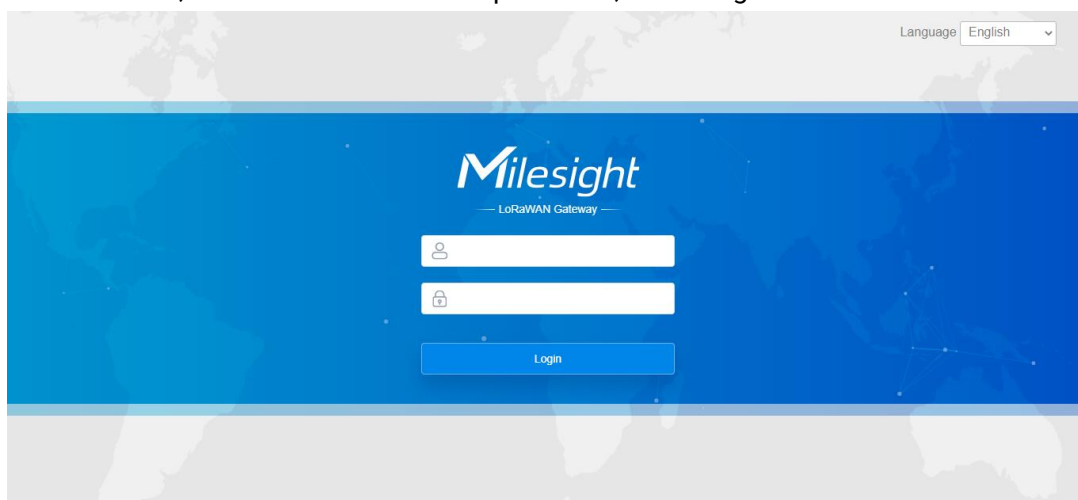
Username: **admin**

Password: **password**

### 4.1 Wireless Access

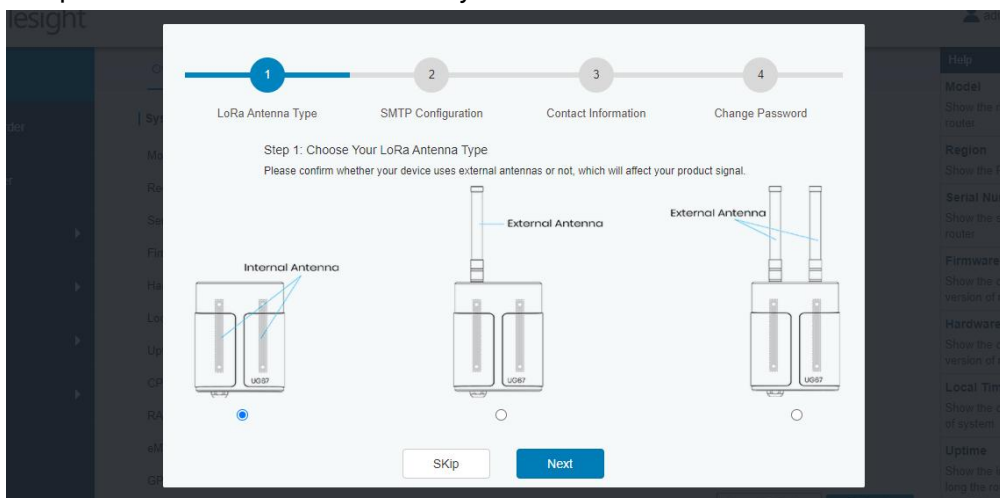
A. Enable Wireless Network Connection on your computer and search for access point "Gateway\_\*\*\*\*\*" to connect it.

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, enter the username and password, click "Login".

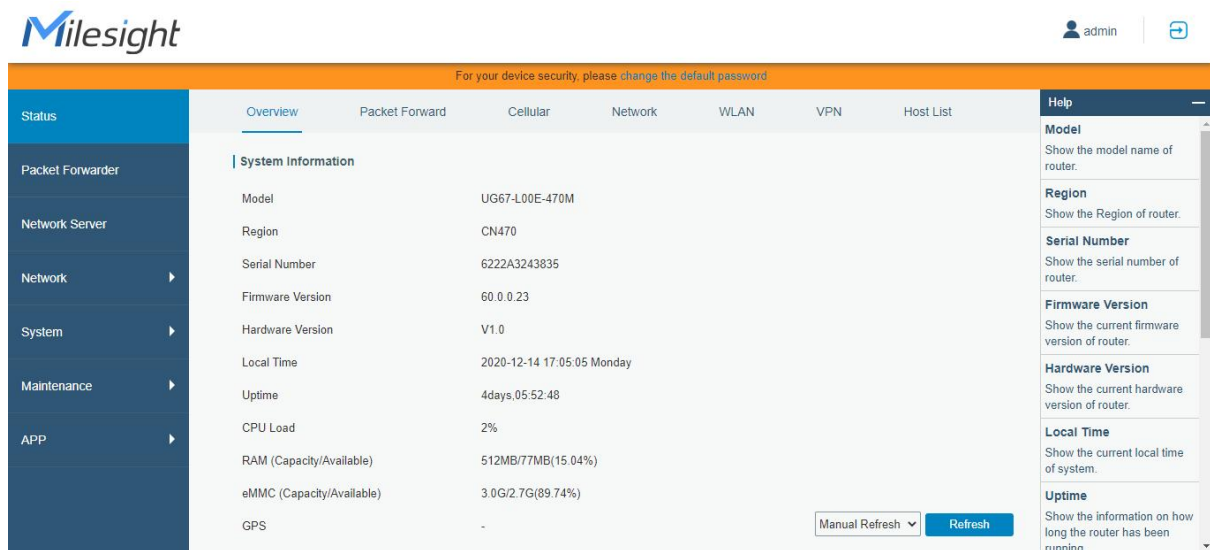


**If you enter the username or password incorrectly more than 5 times, the login page will be locked for 10 minutes.**

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



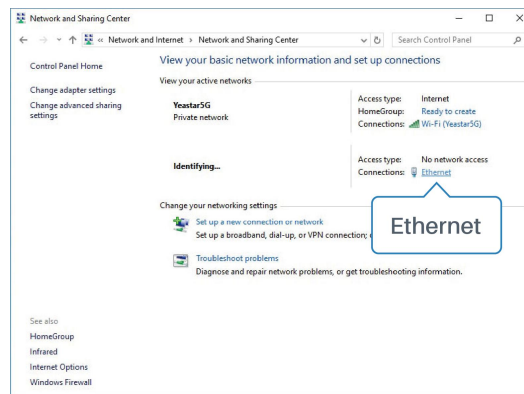
E. You can view system information and perform configuration of the gateway.



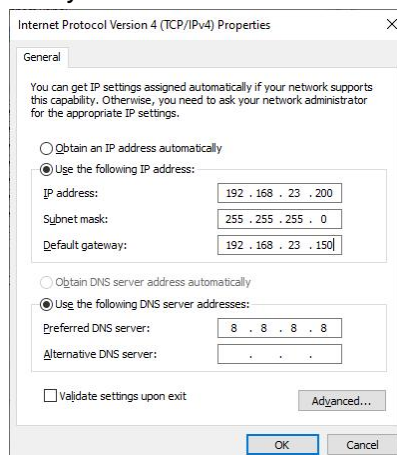
## 4.2 Wired Access

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

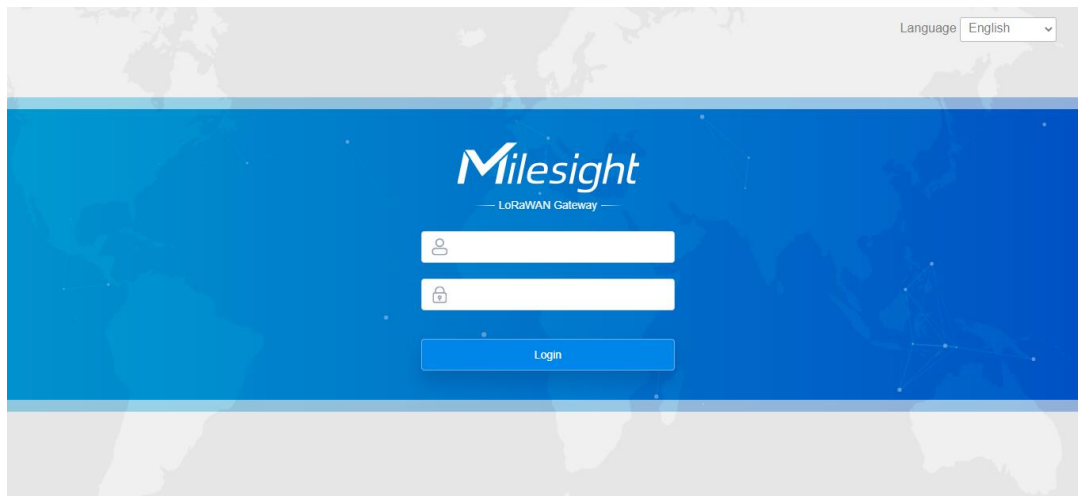
A. Go to "Control Panel" → "Network and Internet" → "Network and Sharing Center", then click "Ethernet" (May have different names).



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.

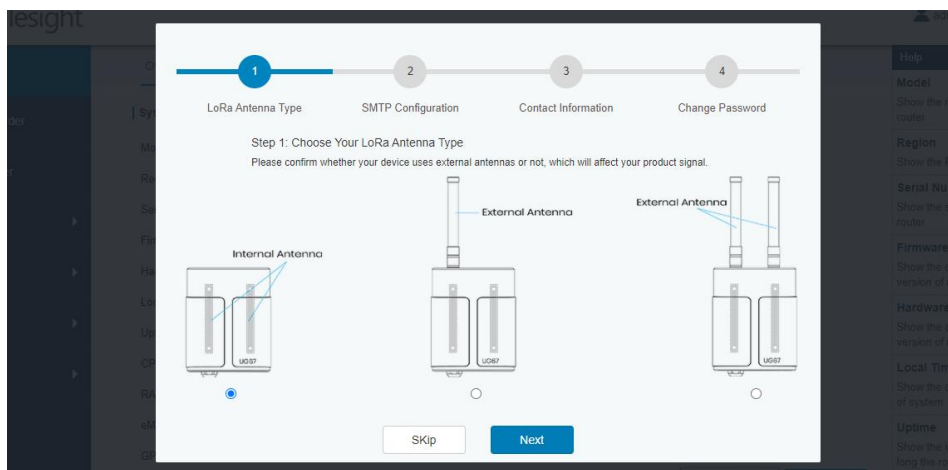


C. Open a Web browser on your PC (Chrome is recommended) and type in the IP address 192.168.23.150 to access the web GUI, enter the username and password, click “Login”.

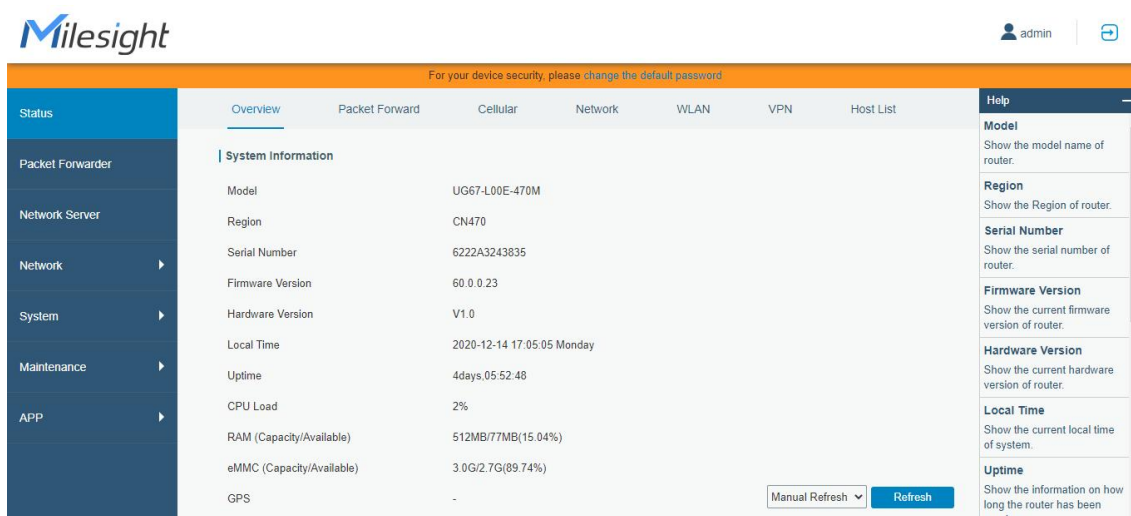


**!** If you enter the username or password incorrectly more than 5 times, the login page will be locked for 10 minutes.

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.



## 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

A. 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
		<a href="#">+</a>

B. Connect Ethernet port of gateway to devices like router or modem.

C. 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

A. Go to “Network” → “Interface” → “WLAN” and select “Client” mode.

B. Click “Scan” to search for Wi-Fi access point. Select the available one and click “Join Network”.

**Note:** please do use [wired access](#) method to access the web GUI, or you will fail to configure Wi-Fi setting.

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	<div>Join Network</div>

C. Type the key of Wi-Fi.

Port	WLAN	Cellular	Loopback
<b>WLAN</b>			
Enable	<input checked="" type="checkbox"/>		
Work Mode	Client <span>▼</span> <span>Scan</span>		
SSID	AAA		
BSSID	24:e1:24:f0:c4:13		
Encryption Mode	WPA-PSK/WPA2-PSK <span>▼</span>		
Cipher	AES <span>▼</span>		
Key	*****		
<b>IP Setting</b>			
Protocol	DHCP Client <span>▼</span>		

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
<b>WLAN Status</b>				
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			

E. Go to "Network" → "Failover" → "WAN Failover" to switch the wlan0 as main interface, then gateway can use the Wi-Fi to access the Internet.



Main Interface	Backup Interface	Startup Delay(s)	Up Delay(s)	Down Delay(s)	Track ID	Operation
wlan0	eth 0	30	0	0	1	<span>✕</span> <span>+</span>

Save

## 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.

Status
Packet Forwarder
Network Server
Network
System
Maintenance
APP

General
Radios
Advanced
Custom
Traffic

**General Setting**  
Gateway EUI: 24E124FFFEF...  
Gateway ID:   
Frequency-Sync: Disabled   
Multi-Destination  

ID	Enable	Type	Server Address	Connect Status	Operation
0	Enabled	Embedded NS	localhost	Connected	

Save & Apply

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

Enable	<input checked="" type="checkbox"/>
Type	<input type="text" value="Semtech"/>
Server Address	<input type="text" value="eu1.cloud.thethings.network"/>
Port Up	<input type="text" value="1700"/>
Port Down	<input type="text" value="1700"/>
<input type="button" value="Save"/>	

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.

General

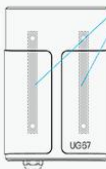
Radios


Advanced

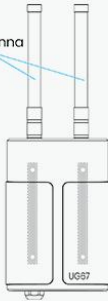
Custom

Traffic

Antenna Type


☒


☐


☐

Region

US915

Name	Center Frequency/MHz
Radio 0	<input type="text" value="904.3"/>
Radio 1	<input type="text" value="905.0"/>

Multi Channels Setting

Enable	Index	Radio	Frequency/MHz
<input checked="" type="checkbox"/>	0	<input type="text" value="Radio 0"/>	<input type="text" value="903.9"/>
<input checked="" type="checkbox"/>	1	<input type="text" value="Radio 0"/>	<input type="text" value="904.1"/>
<input checked="" type="checkbox"/>	2	<input type="text" value="Radio 0"/>	<input type="text" value="904.3"/>
<input checked="" type="checkbox"/>	3	<input type="text" value="Radio 0"/>	<input type="text" value="904.5"/>
<input checked="" type="checkbox"/>	4	<input type="text" value="Radio 1"/>	<input type="text" value="904.7"/>
<input checked="" type="checkbox"/>	5	<input type="text" value="Radio 1"/>	<input type="text" value="904.9"/>
<input checked="" type="checkbox"/>	6	<input type="text" value="Radio 1"/>	<input type="text" value="905.1"/>
<input checked="" type="checkbox"/>	7	<input type="text" value="Radio 1"/>	<input type="text" value="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.

Status

Packet Forwarder

Network Server

Network

System

Maintenance

APP

GeneralRadiosAdvancedCustomTraffic

General Setting

Gateway EUI24E124FFFEF0

Gateway ID24E124FFFEF0

Frequency-SyncDisabled

Multi-Destination

ID	Enable	Type	Server Address	Connect Status	Operation
0	Enabled	Embedded NS	localhost	Connected	<div><div></div><div></div></div>
<div></div>					

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.

Region: US915

Name	Center Frequency/MHz
Radio 0	904.3
Radio 1	905.0

**Multi Channels Setting**

Enable	Index	Radio	Frequency/MHz
<input checked="" type="checkbox"/>	0	Radio 0	903.9
<input checked="" type="checkbox"/>	1	Radio 0	904.1
<input checked="" type="checkbox"/>	2	Radio 0	904.3
<input checked="" type="checkbox"/>	3	Radio 0	904.5
<input checked="" type="checkbox"/>	4	Radio 1	904.7
<input checked="" type="checkbox"/>	5	Radio 1	904.9
<input checked="" type="checkbox"/>	6	Radio 1	905.1
<input checked="" type="checkbox"/>	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 Multicast Groups

**General Setting**

Enable ☒

Platform Mode ☒

Milesight IoT Cloud

NetID: 010203

Join Delay: 5 sec

RX1 Delay: 1 sec

Lease Time: 8760-0-0 hh-mm-ss

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.

Dashboard My Devices Map Triggers Reports Event Center 30 Sharing Center Me

**Devices** Gateways History +

Search: [ ]

Normal 1 Alarm 1 Offline 1 Inactive 3

**Add Device**

\* SN: [ ]

\* Name: [ ]

Cancel Confirm

Real Device - EN 6136A39023

UC3X52-虚 61151109

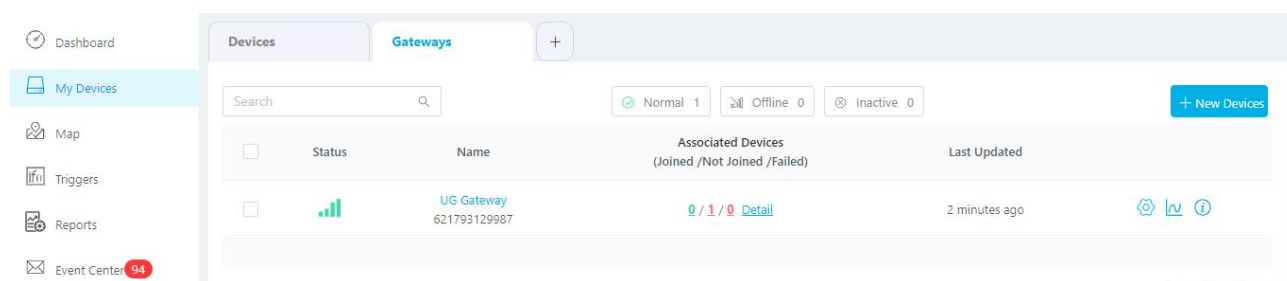
UC3X5 6123A124

AM102- 6128A2175

CO2 TVOC Barometric Pressure

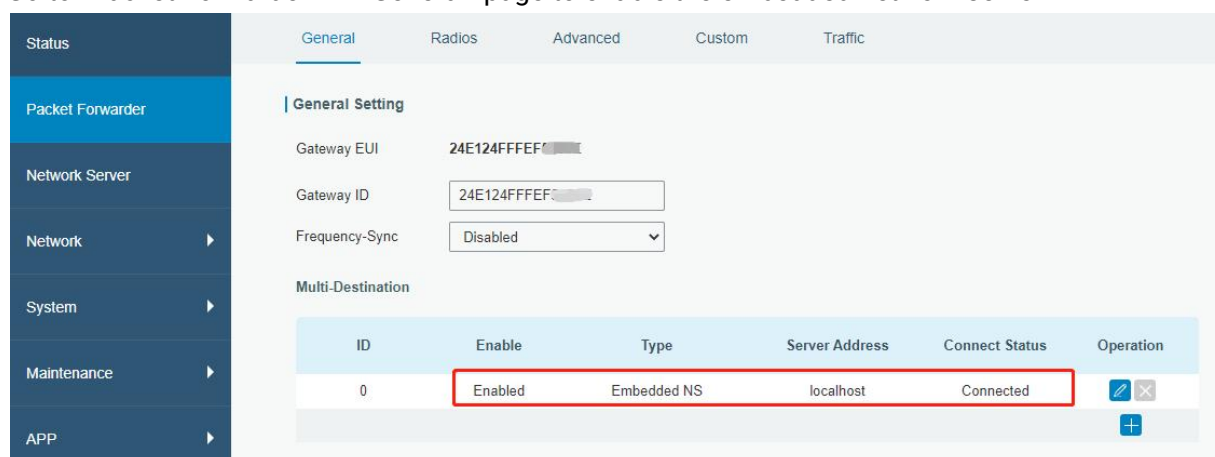
27°C Temperature 51% Humidity 0 Activity Level (PIR) 2lux Illumination

E. The gateway is online on Milesight IoT Cloud.

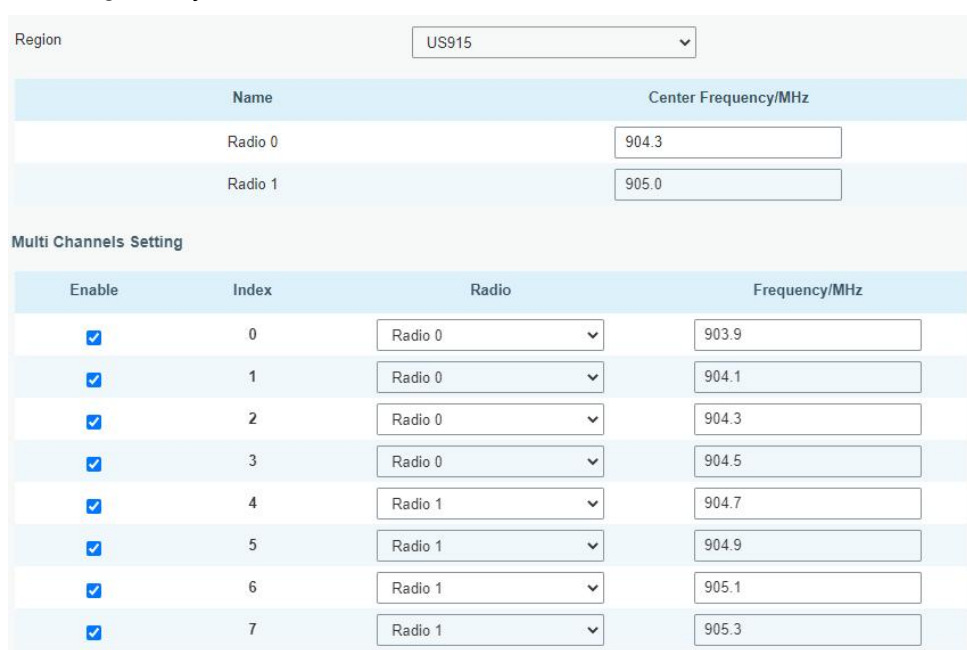


## 7.2 Connect UG67 to MQTT/HTTP Server

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



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.



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

The screenshot shows the 'General Setting' tab of the Milesight IoT Cloud configuration page. The left sidebar contains a menu with 'Status', 'Packet Forwarder', 'Network Server' (highlighted), 'Network', 'System', and 'Maintenance'. The main content area is titled 'General Setting' and includes the following fields:

Field	Value
Enable	<input checked="" type="checkbox"/>
Milesight IoT Cloud	<input type="checkbox"/>
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.

The screenshot shows the 'Applications' tab of the Milesight IoT Cloud configuration page. The left sidebar is the same as in the previous screenshot. The main content area is titled 'Applications' and includes the following fields:

Field	Value
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.

The screenshot shows the 'Data Transmission' tab of the Milesight IoT Cloud configuration page. The left sidebar is the same as in the previous screenshots. The main content area is titled 'Data Transmission' and includes the following fields:

Field	Value
Type	MQTT
Status	<input checked="" type="checkbox"/>
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.

The screenshot shows the 'Profiles' tab in the Milesight IoT platform. Under the 'Device Profiles' section, there is a form with the following fields:

- Name: ClassA-OTAA
- Max TXPower: 0
- Join Type: OTAA (dropdown menu)
- Class Type: ☒ Class A, ☐ Class B, ☐ Class C
- Advanced: ☐

At the bottom of the form are two buttons: 'Save' and 'Cancel'.

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


The screenshot shows the 'Device' page in the Milesight IoT platform. At the top, there are tabs: General, Applications, Profiles, Device (selected), Multicast Groups, Gateway Fleet, and Packets. Below the tabs, there is a section titled 'Device' with three buttons: 'Add' (highlighted with a red box), 'Bulk Import', and 'Delete All'. To the right of these buttons is a search bar with the text 'Search' and a magnifying glass icon. Below the buttons and search bar is a table with the following columns: Device Name, Device EUI, Device-Profile, Application, Last Seen, Activated, and Operation. The table is currently empty, and a message 'No matching records found' is displayed at the bottom.

The screenshot shows the 'Add' form for a new device in the Milesight IoT platform. The form has the following fields:

- Device Name: lora-sensor
- Description: a short description of your node
- Device EUI: 0000000000000000
- Device-Profile: ClassA-OTAA (dropdown menu)
- Application: cloud (dropdown menu)
- Frame-counter Validation: ☐
- Application Key: (empty text box)
- Device Address: (empty text box)
- Network Session Key: (empty text box)
- Application Session Key: (empty text box)
- Uplink Frame-counter: 0
- Downlink Frame-counter: 0

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										
<b>Clear</b>		<input type="text" value="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]