

UG67 Gateway

Quick Start Guide

Milesight IoT

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

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

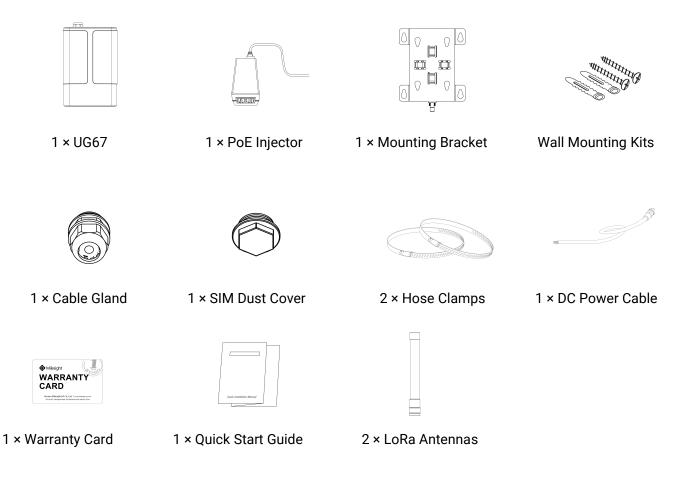


Contents

1. Packing List4
2. Hardware Introduction 5
2.1 Overview5
2.2 Dimensions (mm)5
2.3 LED Indicators5
2.4 Reset Button6
2.5 DC Power Connector
3. Hardware Installation7
3.1 SIM Card Installation7
3.2 Antenna Installation7
3.3 Ethernet Cable & Power Cable Installation
3.4 Power Supply8
3.5 Gateway Installation9
3.5.1 Wall Mounting9
3.5.2 Pole Mounting9
4. Login the Web GUI 11
4.1 Wireless Access11
4.2 Wired Access12
5. Network Connection14
5.1 Configure the Ethernet Connection14
5.2 Configure the Wi-Fi Connection14
5.3 Configure the Cellular Connection16
6. Packet Forwarder Configuration17
7. Network Server Configuration19
7.1 Connect UG67 to Milesight IoT Cloud19
7.2 Connect UG67 to MQTT/HTTP Server21

1. Packing List

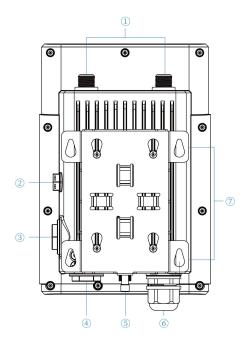
Before you begin to install the UG67 LoRaWAN[®] Gateway, please check the package contents to verify that you have received the items below.



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

2. Hardware Introduction

2.1 Overview



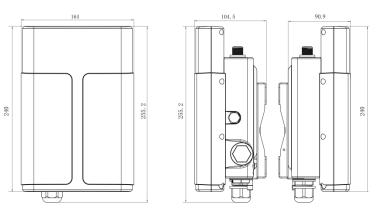
- ① LoRa Antenna Connector
- ② Vent Plug
- ③ SIM Slot
- ④ LED Area & Type-C Port & Reset Button

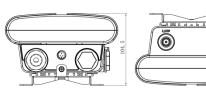
SYS: System Indicator

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	
515	STS System Status	Red Light	The system goes wrong	
LoRa	LoRa LoRa Status	Off	Packet Forwarder mode is running off	
LUKa	LURA SIdius	Green Light	Packet Forwarder mode is running well	
LTE	Callular Status Off		SIM card is registering or fails to register	
	Cellular Status	Cellular Status Off		(or there are no SIM cards inserted)

 (\mathbf{O})

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

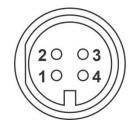
2.4 Reset Button

Function	Description				
Function	SYS LED	Action			
	Static Green	Press and hold the reset button for more than 5 seconds.			
Reset	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.

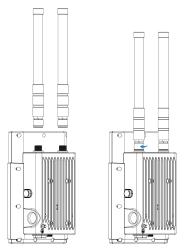
Note: UG67 does not support hot plugging (also called hot swapping). please turn off the power before you insert or take off cards.



3.2 Antenna Installation

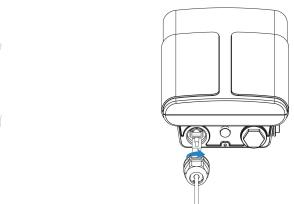
The external antenna should be installed vertically always on a site with a good signal. Note:

- 1) Install LoRa antenna into ANT1 connector if there is only one external antenna.
- 2) Keep front panel away from walls if using embedded antennas.

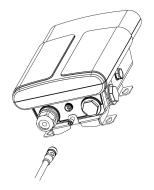


3.3 Ethernet Cable & Power Cable Installation

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

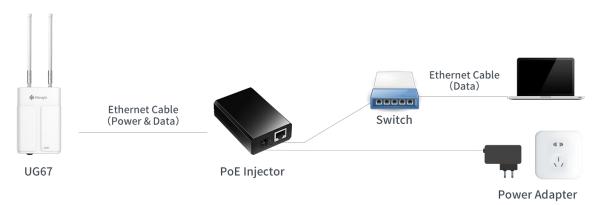


For DC or solar power supply, remove the protective cap of power connector and rotate the DC power cable into the power connector.



3.4 Power Supply

UG67 can be powered by 802.3af standard PoE injector or other PoE devices. 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, wall plugs, wall mounting screws and other required tools.

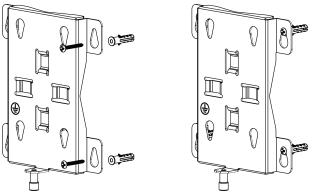
1. Align the mounting bracket horizontally to the desired position on the wall, use a marker pen to mark four mounting holes on the wall, and then remove the mounting bracket from the wall.

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

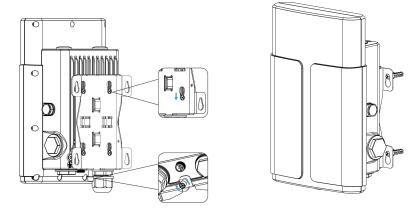
2. Drill four holes with a depth of 32 mm by using your drill with a 6 mm drill bit on the positions you marked previously on the wall.

3. Insert four wall plugs into the holes respectively.

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



5. Hang the device to the mounting bracket via bracket mounting screws on the back of device.



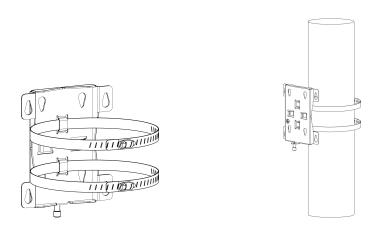
3.5.2 Pole Mounting

Preparation: mounting bracket, hose clamp and other required tools.

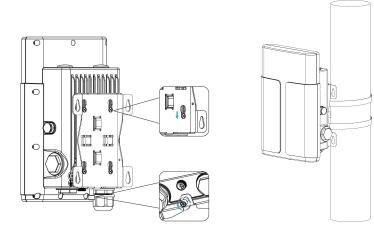
1. Loosen the hose clamp by turning the locking mechanism counter-clockwise.

2. Straighten out the hose clamp and slide it through the rectangular rings in the mounting bracket, wrap the hose clamp around the pole.





3. Use a screwdriver to tighten the locking mechanism by turning it clockwise.



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.

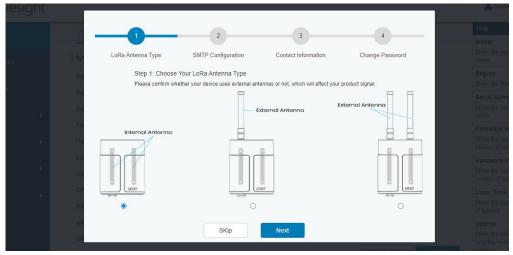
C. Enter the username and password, click "Login".



(II) English

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.





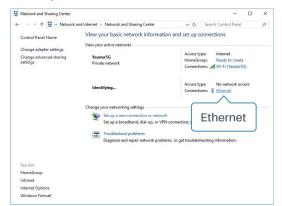
E. You can view system information and perform configuration of the gateway.

Status Packet Forwarder Network Server	Overview System Information	Packet Forward	Cellular	Network	WLAN	VPN	Host List	Help
Packet Forwarder								Man dial
								Model
Network Server	Model							Show the model name of router.
Network Server			UG67-L00E-470M					Region
	D1-		CN470					Show the Region of router.
	Region		CN470					Serial Number
Network	Serial Number		6222A3243835					Show the serial number of router.
Firmware Version			60.0.0.23					Firmware Version
System 🕨	Hardware Version		V1.0					Show the current firmware version of router.
	Local Time		2020-12-14 17:05:05	Monday				Hardware Version
Maintenance 🕨 🕨	Uptime		4days,05:52:48					Show the current hardware version of router.
APP	CPU Load		2%					Local Time
APP	RAM (Capacity/Availa	ble)	512MB/77MB(15.049	6)				Show the current local time of system.
	eMMC (Capacity/Avail	lable)	3.0G/2.7G(89.74%)					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" \rightarrow "Network and Internet" \rightarrow "Network and Sharing Center", then click "Ethernet" (May have different names).



B. Go to "Properties" \rightarrow "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.

nternet Protocol Version 4	(TCP/IPv4) Properties
General	
	signed automatically if your network supports you need to ask your network administrator ings.
O Obtain an IP address	automatically
• Use the following IP a	ddress:
IP address:	192 . 168 . 23 . 200
Subnet mask:	255.255.255.0
Default gateway:	192 . 168 . 23 . 150
Obtain DNS server ad	dress automatically
• Use the following DNS	server addresses:
Preferred DNS server:	8.8.8.8
Alternative DNS server:	· · ·
Vaļidate settings upo	n exit Ad <u>v</u> anced
	OK Cancel



C. Open a Web browser on your PC (Chrome is recommended) and type in the IP address 192.168.23.1 50 to access the web GUI.

English

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

	Milesight	
-	Username	
8	Password	
	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.

lesignt					adm
		2	3		Holp
		2			Mode)
der	LoRa Antenna Type	SMTP Configuration	Contact Information	Change Password	Show the m router
	Step 1: Choo	se Your LoRa Antenna Type			Region
è.	Please confirm	whether your device uses external ant	ennas or not, which will affect yo	our product signal.	Show the R
	Re		xternal Antenna	External Antenna	Serial Num Show the se router
	Fin				Firmware
10	Internal Antenno	' <u> </u>			Show the cu
		0		0 0	version of ro
(K)					Hardware Show the cu version of ro
	C.F.		267	UG67	Local Time
	R4 O	0		0	Show the cu of system
	eM GP	SKip	Next		Uptime Show the in long the rau

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

			Fo	r your device security.	please change the d	efault password			
Status		Overview	Packet Forward	Cellular	Network	WLAN	VPN	Host List	Help
Packet Forwarder		System Informa	ation						Model Show the model name of router.
Network Server		Model		UG67-L00E-470M					Region Show the Region of router.
Network	•	Region Serial Number		CN470 6222A3243835					Serial Number Show the serial number of router.
System	•	Firmware Version Hardware Versio		60.0.0.23 V1.0					Firmware Version Show the current firmware version of router.
faintenance	►	Local Time Uptime		2020-12-14 17:05:0 4days,05:52:48	5 Monday				Hardware Version Show the current hardware version of router.
\PP	۲	CPU Load RAM (Capacity/A	Available)	2% 512MB/77MB(15.04	1%)				Local Time Show the current local time of system.
АРР	•		and the second se				Manual R	efresh 🗸 Refresh	Local Time Show the current lo

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" \rightarrow "Interface" \rightarrow "Port" page to select the connection type and configure Ethernet port information.

B. 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		
Enable NAT			
Multiple IP Address			
IP A	ddress	Netmask	Operation
			E

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

D. Log in the web GUI via the newly assigned IP address and go to "Status" \rightarrow "Network" to check Ethernet port status.

Overview	Packet	Forward	Cellular	Network WLAN	VPN H	ost List	
WAN							
Port	Status	Туре	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" \rightarrow "Interface" \rightarrow "WLAN" and select "Client" mode.

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

Port	WLAN		Cellular	Lo	opback			
< 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 Loopbac	ck	
VLAN				
Enable				
Work Mode		Client	~	Scan
SSID		AAA		
BSSID		24:e1:24:f0:c4:13		
Encryption M	ode	WPA-PSK/WPA2-PSK	~	
Cipher		AES	~	
Key		•••••		
P Setting				
Protocol		DHCP Client	~	

D. Go to "Status" \rightarrow "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	1	0 days <mark>, 02:44:45</mark>		



5.3 Configure the Cellular Connection

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

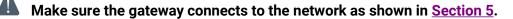
Port	WLAN	Cellular	Loopback
Cellular S	etting		
Enable			
Network Ty	/pe	Auto	~
APN			
Username			
Password			
Access Nu	mber		
PIN Code			
Authentica	tion Type	Auto	~
Roaming			
SMS Cente	er		
Connectio	on Setting		
Enable NA	Т		

D. Go to "Status" \rightarrow "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		EC25ECGAR06A07M	1G	
Signal Level		23asu (-67dBm)		
Register Status		Registered (Home net	w <mark>or</mark> k)	
IMEI		860425047368939		
IMSI		460019425301842		
ICCID		898601178380099341	20	
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.



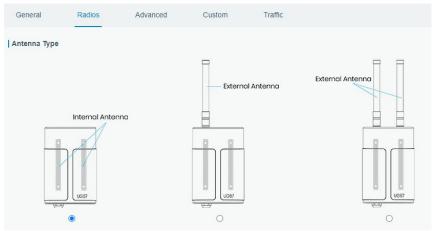
A. Go to "Packet Forwarder" \rightarrow "General" page and click \pm to add a network server.

Status		General	Radios	Advanced	Custom	Traffic		
Packet Forwarder		General Setting						
Network Server		Gateway EUI Gateway ID		24E124FFF				
Network	•	Frequency-Sync		Disabled	~			
System	۲	Multi-Destination		Connected				
Maintenance	•		ID	Enable		Туре	Server Address	Operation
APP	۲		0	Enabled	E	Embedded NS	localhost	
								<u>+</u>

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

Туре	Semtech ~
Server Address	eu1.cloud.thethings.network
Port Up	1700
Port Down	1700

C. Go to "Packet Forwarder" \rightarrow "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		9	04.3
	Radio 1		9	05.0
Multi Channels Settin	g			
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 <u>Milesight IoT Support portal</u>.

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

General	Radios	Adv	anced	Custom	Traffic			
Traffic Sett	Clea	ar l						
Rfch	Direction	Time	Ticks	Frequency	Datarate	Coderate	RSSI	SNR
1	up	<mark>11:52:38</mark>	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		3 <mark>118888813</mark> 1	865.0625	SF7BW125	4/5	10	i.
0	up	<mark>11:51:37</mark>	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.



M Make sure the gateway connects to the network as shown in <u>Section 5</u>.

7.1 Connect UG67 to Milesight IoT Cloud

A. Go to "Packet Forwarder" \rightarrow "General" page to enable the embedded network server.

Status	General	Radios A	Advanced Cust	tom Traffic		
Packet Forwarder	General Setting					
Network Server	Gateway EUI Gateway ID	24E124FFF 24E124FF				
Network	Frequency-Sync	Disabled	~			
System 🕨	Multi-Destination	Connected				
Maintenance		ID	Enable	Туре	Server Address	Operation
APP 🕨	[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.

Region		US915		~	
	Name			Center Frequency/MHz	
	Radio 0		904	1.3	
	Radio 1		905	i.0	
Multi Channels Settin	g				
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	
				905.3	1

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

Status	General	Applications	Profiles	Device	Gateways
Packet Forwarder	General Settin	g			
Network Server	Enable Milesight IoT Cle	vud 💟			
Network	NetID	010203			
	Join Delay	5		sec	
System 🕨	RX1 Delay	1		sec	
Maintenance	Lease Time	8760-0-0		hh-mm-ss	
Maintenance P	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.

Dashboard	Devices	Gate	ways H	istory				
My Devices	Search	٩		Normal 1 🙇 Alarm	1 Offline 1	⊗ Inactive 3		+ New Devices
1 Map Triggers		<u>真实设备-EN</u> 6136A39023	Add Device			×		@ M @
Reports		UC3X52-虚 61151109	* SN :			sociated with your		@ <u>~</u> 0
Event Center 30	<i>□ 3</i> €	UC3X5 6123A124	* Name:				15 minutes ago	@ <u>w</u> @
Me		AM102- 6128A2175-	CO2	Cancel	Confirm Barometric Pressure	ux ination	a few seconds ago	© <u> </u>
		6 502.00	27°C Temperature	51% Humidity	0 Activity Level (PIR)	2lux Illumination		
≡•								

E. The gateway is online on Milesight IoT Cloud.

🕐 Dashboard	Devices		Gateways	+			
My Devices	Search		Q,	😔 Norr	nal 1 🔊 Offline 0 🛞 Ina	ctive 0	+ New Devices
Map		Status	Name	ol)	Associated Devices ined /Not Joined /Failed)	Last Updated	
Reports		all	UG Gateway 621793129987		<u>0/1/0</u> <u>Detail</u>	2 minutes ago	<u>ه ار (</u>
Event Center 94							

7.2 Connect UG67 to MQTT/HTTP Server

A. Go to "Packet Forwarder" \rightarrow "General" page to enable the embedded network server.

Status	General	Radios	Advanced	Custom	Traffic		
Packet Forwarder	General Setting						
Network Server	Gateway EUI Gateway ID	24E12	124FF]			
Network 🕨	Frequency-Sync	Disa	abled	~			
System 🕨	Multi-Destination Connect Status	Conne	ected				
Maintenance		ID	Enable		Туре	Server Address	Operation
APP 🕨		0	Enabled		Embedded NS	localhost	

B. Go to "Packet Forwarder" \rightarrow "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		9	004.3
	Radio 1		9	005.0
/lulti Channels Settin	g			
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" \rightarrow "General" page to enable the network server mode.

Status	General	Applications	Profiles	Device	Gateways
Packet Forwarder	General Setting				
Network Server	Enable Milesight IoT Cloud				
Network 🕨	NetID	010203			
	Join Delay	5		sec	
System 🕨	RX1 Delay	1		sec	
Maintenance	Lease Time	876000-0-	0	hh-mm-ss	
	Log Level	info		~	

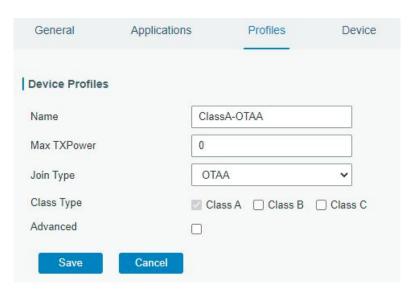
D. Go to "Network Server" \rightarrow "Application" to add a new application.

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		
Туре	MQTT	•
Status	HTTP	
Status	MQTT HTTPS	
General	A2	
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.



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

Add	Bulk Import D	elete All			Search	
Device Name	Device EUI	Device-Profile	Application	Last Seen	Activated	Opera
		No ma	tching records found			
					×.	
		e Name	uc11			
	Descr		a short description of you	r node		
	Devic		000000000000000			
		e-Profile	ClassA-OTAA	•		
	Applic		cloud	•		
		e-counter Validation				
		ation Key				
		ork Session Key				
		ation Session Key Frame-counter	0			
		link Frame-counter	0			
	Dom		U			
			Save & Apply			

10000000000000000000000000000000000000		-	
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.

1	A	В	C	D	E	F	G	Н	1
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.

twork Server									
Clear								Search	0
Device EUI	Frequency	Datarate	SNR	RSSI	Size	Fcnt	Туре	Time	Details
24e124126a146579	868300000	SF7BW125	8.5	-85	4	14	UpUnc	2020-04-28T15:09:25+08:00	0
									1000

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	a	
Payload(b64)	A3cYAA==	
Payload(hex)	03771800	
MIC	f5acdeb2	

[END]