

Ultra Low Power Solar LoRaWAN[®] Gateway SG50

User Guide



Safety Precautions

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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 disassembled or remodeled 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.

Declaration of Conformity

SG50 is in conformity with the essential requirements and other relevant provisions of the CE, FCC, and RoHS.



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Revision History

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Date	Doc Version	Description
Oct. 15, 2023	V 1.0	Initial version
Jan. 15, 2024	V 1.1	 Support to connect to Milesight gateway embedded network server; Support to connect to Milesight Development platform and DeviceHub V2.

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1. Product Introduction

1.1 Overview

SG50 is an energy-efficient solar LoRaWAN[®] gateway designed for outdoor environments with limited power availability and ample solar energy resources. With built-in batteries and accessorial solar panel, SG50 can work independently in various scenarios, especially the places with hard access to power resources.

Besides the high adaptability, SG50 is highly compatible with mainstream network servers and supports remote management via remote network servers which provides both convenience and secured management.

Benefiting from its robust structural design and high IP67 protection rate, SG50 can work smoothly in harsh environments. It is specifically tailored for applications such as oil and gas, mining, forestry, and remote industries where power consumption must be carefully managed.

1.2 Key Features

- Fast deployment with the all-in-one design and standard accessories
- Built-in rechargeable batteries & accessorial solar panel for wireless usage
- Support cellular for backhaul network enabling independent networking
- Equipped with high-efficient power management design prolonging its battery life up to 4 days
- IP67 enclosure and robust structural design promote its strength and working lifespan
- Equipped with SX1302 chip, handling a higher amount of traffic with lower consumption
- Equipped with GPS for simple remote management and deployment
- Milesight DeviceHub 2.0 & Development Platform provide easy and centralized management of remote devices

• Compatible with mainstream network servers like The Things Industries, ChirpStack, AWS IoT Core for LoRaWAN[®], etc.

2. Hardware Introduction

2.1 Packing List



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

2.2 Hardware Overview

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2.3 Button and LED Indicator

LED Indicators

LED	Indication	Status	Description
Damar 8	Off	The power is off	
SYS	Power & System Status	Green Light	The system is running properly
	System Status	Red Light	The system goes wrong
		Off	SIM card is registering or failed to register
		UII	(or there are no SIM cards inserted)
		lular Status Green Light	Blinking slowly: SIM card has been registered
LTE	Collular Statua		and is ready for dial-up
	Cellular Status		Blinking rapidly: SIM card has been registered
		Green Light	and is dialing up now
			Static: SIM card has been registered and dialed
			up successfully
		Off	Wi-Fi is off
Wi-Fi	Wi-Fi Status	Green Light	Blinking slowly: Wi-Fi is starting
			Static: Wi-Fi is on

Wi-Fi/Reset Button

Function	Action	LED Indication
Turn On Wi-Fi	When Wi-Fi is disabled, quickly press the button once to turn on Wi-Fi for 10 minutes.	Wi-Fi: Off → On
Turn Off Wi-Fi	When Wi-Fi is enabled, quickly press the button once to turn off Wi-Fi for 10 minutes.	Wi-Fi: On → Off
Reset to Factory Default	Press and hold the button for more than 5 seconds	SYS: blinks rapidly.

2.4 Dimensions (mm)

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3. Hardware Installation

3.1 SIM Card Installation

1. Take the SIM cover down, and use an ejector tool to open the SIM card tray. Insert the nano (4FF) SIM card, then put the slot with the SIM card back into the device.

2. Rotate back the cover and tighten it with a wrench to prevent water from entering the device.



3.2 Power Supply

SG50 can be powered by either a 12-24 VDC external supply or a solar panel. In the meantime, the internal battery pack will also be charged. When the external supply is disconnected or there is not enough power for the solar panel, SG50 can be powered by the internal battery pack.

Battery Installation

1. Release the fixing screw on the side of the device, and remove the battery compartment cover.

2. Push the battery into the battery compartment as the icon shows. If you need to take out the battery, hold on the latches on the battery to pull it out.

3. Fix the cover back to the device using the fixing screw.



Note:

- After installing the battery, the device will not power on automatically. Please connect the power cable of the solar panel to the device to turn it on. When the power cable is disconnected, the device will power off.
- The device can not be charged when its temperature is more than 50°C. Please avoid direct exposure of the device to sunlight.
- When the device detects the temperature is lower than 0°C and solar panel power is enough (more than 7W), the device will heat the battery until the temperature reaches to 10°C, then charge the battery if the battery level is not full.
- The battery should be removed from the device if it will not be used for an extended period.

3.3 Gateway Installation

SG50 with solar panel can be mounted either to a wall or pole. It is suggested to install the device on sunny days for solar panel adjustment and charging.

3.3.1 Mounting Bracket Installation

Wall Mounting:

Drill 4 holes on the wall according to the mounting bracket and insert the wall plugs into these holes. Then fix the mounting bracket to the wall by fixing the wall mounting screws into the wall plugs.



Pole Mounting:

Straighten the hose clamps and slide them through the rectangular rings in the mounting bracket. Wrap the hose clamps around the pole, then use a screwdriver to tighten the locking mechanism by turning it clockwise.



3.3.2 Solar Panel Installation

1. Fix the solar panel to the solar panel bracket using 6 fixing screws.



2. Hang the solar panel bracket onto the mounting bracket and fix both parts using 2 fixing screws first. Adjust the angle of the solar panel bracket (15°, 45°, and 75° is optional) based on the installation environment. Then fix the remaining two screws to the solar panel bracket.



3.3.3 Device Installation

1. Fix the device to the opposite side of the solar panel bracket using 4 screws. When installation, it is suggested to fix the 2 screws on the top at first.

2. Install antennas as Antenna Installation chapter.



3. Connect M12 power cable of the solar panel to DC power connector of the device, then the device will power on automatically.



3.3.4 Antenna Installation

U-strap Mounting:

1. Pass the LoRaWAN[®] antenna through the U-strap clamp and fix the U-strap clamp to the side of the mounting bracket using 2 flat washers and 2 screws.



2. Connect one end of the antenna coaxial cable to the LoRaWAN[®] antenna, the opposite end to the device's antenna connector.



U-bolt Mounting:

1. Pass the LoRaWAN[®] antenna through the antenna clamp and fix it using 4 screws, then wrap the U-bolt around the pole and fix the clamp with nuts and other accessories.



2. Connect one end of the antenna coaxial cable to the LoRaWAN[®] antenna, the opposite end to the device's antenna connector.



4. Access the Gateway

G50 provides user-friendly web GUI for configuration and users can get access to it via Wi-Fi connection. The default settings are listed below: Wi-Fi SSID: Gateway_XXXXXX (can be found on the label) Wi-Fi IP Address: 192.168.23.1 Browser: Chrome (Recommended) Username: admin Password: password

Configuration Steps:

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Step 1: Connect M12 power cable to the device to turn on the device and ensure the Wi-Fi LED is statically on.

Step 2: Enable the Wireless Network Connection on your computer and search for the corresponding access point, then connect the computer to this access point.

Step 3: Open the browser and type 192.168.23.1 to access the web GUI.

Step 4: Select the language.

Step 5: Enter the default username and password to log in the web GUI.

English



Step 6: It is suggested to follow the wizard to complete basic settings. Users can also skip all steps or exit the wizard to configure the device.

1) Configure the cellular settings to set up cellular connections. Usually, it is necessary to type the APN parameter to register to cellular networks. For details please refer to <u>Cellular</u> chapter.

2) Configure correct system time. For details please refer to <u>Time</u> chapter.

3) Configure the device to connect a LoRaWAN[®] network server. For details please refer to <u>Packet Forward-General</u> chapter.

4) Configure the packet filter. For details please refer to <u>Packet Forward-Packet Filters</u> chapter.

5) Configure the WLAN settings. For details please refer to <u>WLAN</u> chapter.

5. Operation Guide

5.1 Status

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verview Cellular			Manual Refresh 🗸 Refr
G50-L09NA-868M		GPS	-
6781D31002200001 EU 24E124FFFEF7FC26		Longitude	-
Battery Level	Battery Temperature	Latitude	-
84% [Charging]	27°C	Altitude	-
System Information		WLAN Enabled	
Firmware Version	50.0.0.1	SSID	Gateway_F7FC26
Hardware Version	V1.1		
Region	EU868	LoRaWAN Packet Forward Connected	D
Local Time	2023-10-24 16:19:59 Tuesday	Server Type	ChirpStack-Generic
Uptime	0d, 00h06min27s	Server Address	112.124.8.125
CPU Temperature	37.6°		
Solar Status	Inactive	Cellular Connected	
		IP Address	10.139.25.142
		Connection Duration	0days, 00:05:50

Overview	
Parameters	Description
Model	The whole model name of the gateway.
SN	The serial number of the gateway.
EUI	The unique identifier of the gateway and it's non-editable.
Battery Level & Status	The internal battery level and current charging status.
Battery Temperature	The temperature of the internal battery.
System Information	
Firmware Version	The currentl firmware version of the gateway.
Hardware Version	The current hardware version of the gateway.
Region	The LoRaWAN [®] frequency region of the gateway. This is non-editable. Note: the frequency plan can be changed on Packet Forward > Radios page and will be not affected by this region value. For example, the gateway with region AU915 can also change the frequency plan to US915, AS923-1, etc.
Local Time	The current local time of the system.
Uptime	The information on how long the gateway has been running.
CPU Temperature	The temperature of CPU.
Solar Status	The current solar powering status.
GPS	

Longitude	The latitude of the location.
Latitude	The longitude of the location.
Altitude	The altitude of the location.
WLAN	
SSID	The SSID of the WLAN access point.
LoRaWAN Packet F	Forward
Server Type	The LoRaWAN® packet forward connection type.
Server Address	The LoRaWAN [®] network server address. When server type is Basic Station, this will show LNS URI and CUPS URI.
Cellular	
IP Address	The IP address of cellular network.
Connection Duration	The information on how long the cellular network has been connected.

erview Cellular			Manual Refresh v Re
Ready Register Status: Registered (Home network)		NET Connected Connection Duration: 0days, 00:27:49	
Modem		Network	
Model	EG912U	IPv4 Address	10.139.25.142/3
Version	EG912UGLAAR03A09M08	IPv4 Gateway	192.168.0.
Signal Level	31 asu(-51 dbm)	IPv4 DNS	218.85.152.9
IMEI	869487060733168		
IMSI	460115210733084		
ICCID	89860321245923785509		
ISP	CHN-CT		
Network Type	FDD LTE		
PLMN ID	46011		
LAC	5F0C		
Cell ID	0E0B70B		

Cellular	
Parameters	Description
Modem	
	Corresponding detection status of module and SIM card.
	 No SIM Card: the SIM card is not inserted
	• SIM Card Error: the SIM card is error
SIM Status	• PIN Error: the PIN code is error
	 PIN Required: the SIM card requires to type PIN code
	• PUK Required: the SIM card requires to be unlocked by PUK code
	No Signal: no cellular signal

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	• Ready: the SIM card is inserted
	• Down: the SIM card is deactivated
Register Status	The registration status of SIM card.
Model	The name of cellular module.
Version	The firmware version of cellular module.
Signal Level	The RSSI (Received Signal Indicator) of registered cellular network.
IMEI	The IMEI of the cellular module.
IMSI	The IMSI of the SIM card.
ICCID	The ICCID of the SIM card.
ISP	The network provider on which the SIM card registers.
Network Type	The connected network type, such as FDD LTE.
PLMN ID	The current PLMN ID, including MCC, MNC, LAC and Cell ID.
LAC	The location area code of the SIM card.
Cell ID	The Cell ID of the SIM card location.
Network	
Connection Status	The connection status of the cellular network.
Connection Duration	The information on how long the cellular network has been connected.
IPv4 Address	The IPv4 address of the cellular network.
IPv4 Gateway	The IPv4 gateway of the cellular network.
IPv4 DNS	The IPv4 DNS sever of the cellular network.

5.2 Packet Forward

SG50 supports to work as a packet forwarder to set up communication between LoRaWAN[®] end devices and LoRaWAN[®] network server.

5.2.1 General

	adios Packet Filters	s Advanced Traffic		
E	UI	24E124FFFEF7FC26		
G	ateway ID *	24E124FFFEF7FC26		
Destin	ation			
E	nable			
Ţ	ype	Semtech	✓ Connected	
S	erver Address	eu1.cloud.thethings.network		
P	ort Up	1700		
P	ort Down	1700		
General				
Parameters		Description		
EUI	The unique ide	entifier of the gateway and it's non	-editable.	
Gateway ID		The customizable ID for registering gateway to network server, such as TTN. It is the same as gateway EUI by default.		
Destination		as gateway Lor by acraal.		
Destination				
Enable	Enable or disa	ble the packet forward feature.		

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Semtech	
Server Address	The LoRaWAN [®] network server IP address or domain.
Port Up	The UDP port to forward uplinks from end device to network server.
Port Down	The UDP port to forward downlinks from network server to end device.
Basic Station	
URI	The URL of LoRaWAN [®] network server. Please type as below format and replace <i><server-address></server-address></i> and <i><port></port></i> as real server address and server port. LNS URI: <i>wss://<server-address>:<port></port></server-address></i> or <i>ws://<server-address>:<port></port></server-address></i> CUPS URI: <i>https://<server-address>:<port></port></server-address></i>
CA File	CA certificate to secure the server domain. Note: change the certificate file format as <i>.trust</i> before import.
Client Certificate File	Client certificate file to verify the identity of the gateway.
Client Key File	Private key file to verify the identity of the gateway.
GPS	When connecting via LNS, enable or disable it to forward gateway GPS data to network server.
Chipstack-Generic	
Server Address	The LoRaWAN [®] network server IP address or domain.
MQTT Port	The LoRaWAN [®] network server port.
User Credentials	After enabled, username and password are required to type for verification.
TLS Authentication	Select from "Self signed certificates" or "CA signed server certificate". CA signed server certificate: verify with the certificate issued by Certificate Authority (CA) that pre-loaded on the device. Self signed certificates: upload the custom CA certificates, client certificates and secret key for verification.
Remote Embedded	NS
Server Address	The IP address or domain name of Milesight controller gateway.
MQTT Port	The communication port to Milesight controller gateway.

5.2.2 Radios

General Radios Packet Filters	Advanced Traffic		
Radio Channel Setting			
Supported Freq	EU868	\sim	
Radio 0	867.5		
Radio 1	868.5		
Multi Channels Setting			
Enable	Radio		Frequency/MHz
	Radio 1	×	868.1
	Radio 1	~	868.3
	Radio 1	~	868.5
	Radio 0	×	867.1
	Radio 0	×	867.3
	Radio 0	•	867.5
	Radio 0	×	867.7
	Radio 0	×	867.9

| LoRa Channel Setting

Enable		
Radio	Radio 1	~
Frequency/MHz	868.3	
Bandwidth/kHz	250KHz	~
Data Rate/Bit	SF7	~
FSK Channel Setting		
Enable	~	
Radio	Radio 1	*

Radio	Radio 1	~
Frequency/MHz	868.8	
Bandwidth/kHz	125KHz	~
Data Rate/Bit	50000	

Radios				
Parameters	Description			
Radio Channel Setting				

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Supported Freq	The LoRaWAN [®] frequency plan used for the uplink and downlink frequencies and datarates. Available options depend on the gateway's model: -470M: CN470 -868M: EU868, RU864, IN865 -915M: US915, AU915, KR920, AS923-1&2&3&4		
Radio 0/Radio 1	The center frequencies to receive packets from LoRaWAN [®] nodes.		
Multi Channels Set	ting		
Enable	Enable or disable this channel to transmit packets.		
Radio	Choose Radio 0 or Radio 1 as the center frequency.		
Frequency/MHz	Set the frequency of this channel. Range: center frequency \pm 0.4625.		
LoRa/FSK Channel	Setting		
Enable	Enable or disable this channel to transmit packets.		
Radio	Choose Radio 0 or Radio 1 as the center frequency.		
Frequency/MHz	Set the frequency of this channel.		
Bandwidth/kHz	Set the bandwidth of this channel.		
Data Rate/Bit	Set the data rate.		

5.2.3 Packet Filters

SG50 supports to filter uplink packets via different conditions to reduce network congestion, save network traffic and ensure the safe operations.

General Radios P	acket Filters Advanced Traffic		
Filters by NetID	0		
Mode	• White List Black List		
List		+	
Filters by JoinEU			
Mode	• White List Black List		
List		То	+
Filters by DevEU			
Mode	• White List O Black List		
List		То	+

Packet Filters			
Parameters	Description		
Filters by NetID	Forward/Not forward the uplink packets that meet the NetID.		
Filters by JoinEUI	Forward/Not forward the join request packets that meet the JoinEUI range.		
Filters by DevEUI	Forward/Not forward the join request packets that meet the DevEUI range.		
Mode	Select the filter mode as black list or white list.		
	White List: Only forward the packets in this list to the network server.		
	Black List: Only forward the packets except this list to the network server.		
List	Set the specific filtering value or range list. Every condition supports to add 5		
	lists at most.		

Note: When join EUI and dev EUI are both configured, only packets that meet both conditions will be forwarded.

5.2.4 Advanced

Seneral Radios Packet Filters	Auranceu Iranc	
Beacon Period	O 0 ○ 128	
Intervals Setting		
Keep Alive Interval/s	10	
Stat Interval/s	30	
Push Timeout/ms	100	
LBT Settings		
Enable		
RSSI Target	-80	
Expert Options		
Enable		
		Example
		Clear
vanced		
vanceu		

Advanced		
Parameters	Description	
Beacon Setting		
Beacon Period	Interval of gateway sending beacons for Class B device time synchronization. 0 means the gateway will not send beacons. Please select the value as 128 if end device type is Class B.	
Intervals Setting		
Keep Alive Interval/s	The interval of keepalive packet which is sent from gateway to network server to keep the connection stable and alive.	

Start Interval/s	The interval to update the network server with gateway statistics.		
Push Timeout/ms	The timeout to wait for the response from server after the gateway sends data.		
LBT Setting			
Enable	Enable or disable LBT feature. Listen before talk (LBT) is used to detect whether the downlink channel is idle and avoid channel access conflicts. Note: AU915 and US915 do not support LBT feature.		
RSSI Target	The criteria of an idle channel. If actual RSSI of a channel is less than the criteria/target, the channel is considered as idle.		
Expert Options			
Enable	After enabled, the device supports customizing the configuration file to configure packet forwarder and customized configuration will overwrite the packet forward configurations of web GUI. To customize configuration file with correct format, click "Example" to go to reference page.		

5.2.5 Traffic

SG50 supports to display latest 30 pieces of traffic received from end devices or network server.

neral Radios	Packet Filters Advanced Traffic						St
Direction	Time	Frequency	Datarate	Channel	RSSI	SNR	Data
Up	0000-00-00T00:00:00.000000Z	868.300000	SF12BW125	1	-68	7.8	gHYKGAcAbxpV1CCs4WGqdz DHsEnqTV8=
Up	0000-00-00T00:00:00.000000Z	868.300000	SF10BW125	1	-59	12.0	AAEAKgDAJOEkMgU4TGEk4 SQqSrt/0xl=
Up	0000-00-00100:00:00:000000Z	868.300000	SF12BW125	1	-84	-0.5	QFUDAASBYQMNVXtWJ55sO 6clOGiHNbc=
Up	0000-00-00T00.00:00.000000Z	868.100000	SF12BW125	0	-70	8.2	AAABAAAAQUCoUIWHQbxB QKJMK+HR0Fk=
Up	0000-00-00T00:00:00:00000Z	868.100000	SF10BW125	0	-67	11.5	QCrgkQYAn91a1X42GOkiKvtA SbVvRH0≍
Up	0000-00-00T00.00.00.000000Z	868.100000	SF10BW125	0	-68	12.2	QCCSkcEA9ctVXXBh/chcyE2r 1L7AWEK+ijdRhvBaSGTbrVw Vhpc2HVhjLAgAGXXGCzW MusHNV2zh49oE=
Up	0000-00-00T00:00:00.000000Z	867.700000	SF7BW125	6	-94	-2.5	QP6GoQCAm1FVo5jXGJxO1/ x7I9Ncuw==
Up	0000-00-00T00:00:00.000000Z	868.500000	SF10BW125	2	-59	8.5	AAEAKgDAJOEkMgU4TGEk4 SSzLNZDAIs=
Up	0000-00-00T00:00:00.00000Z	868.300000	SF12BW125	1	-95	-6.8	QFFVdMKBmqwNVdJOJjWYrL 2w94tKErE9U63A9A≈=
Up	0000-00-00100:00:00.00000Z	867.700000	SF7BW125	6	-80	10.2	QG1jBQGADY1VNsn0fEof3KU RCne+NkKG+KJD
Up	0000-00-00T00.00:00.000000Z	868.100000	SF7BW125	0	-80	11.2	QA0yYQeA8AQKKLbn7v9pcT RKu6ScYZhnVUBe
Up	0000-00-00T00:00:00.000000Z	868.300000	SF7BW125	1	-83	12.0	QG1jBQGADY1VNsn0fEof3KU RCne+NkKG+KJD

Traffic				
Parameters	Description			
Fresh/Stop	Fresh: click to fresh this page to update latest data automatically. Stop: click to stop fresh this page to update latest data.			
Direction The transmission direction of this packet.				
Time	The receiving time of this packet.			

Frequency	The frequency of receiving or sending this packet.	
Datarate	Datarate The datarate of this packet.	
Channel	The frequency channel of receiving or sending this packet.	
RSSI	The received signal strength of this packet.	
SNR	SNR The signal-to-noise ratio of this packet.	
Data	Data The encrypted data of this packet.	

5.3 Network

5.3.1 WLAN

SG50 supports whan feature to work as AP mode to configure device and it can not connect to other access points.

Note: one SG50 device only supports 2 devices' WLAN connection to login this device at the same time.

WLAN	Cellular		
	Enable		
	Disable When Discharged 🚯		
	Timing Turnoff 🕒		
	Timing Turnoff Time	19:00	O
	Timing Turnon Time	09:00	O
	SSID	Gateway_F7FC26	
	Encryption Mode	No Encryption	*
	Key		۲

WLAN			
Parameters	meters Description		
Enable	Enable or disable Wi-Fi feature.		
Disable When	After enabled, the device will turn off the Wi-Fi when the battery is		
Discharged	discharging to save power.		
Timing Turnoff If this option is enabled, the device will turn off and turn on the Wi-Fi at preset time points of a day.			
SSID	The unique name for this device Wi-Fi access point. The default SSID is		

Gateway_XXXXXX. (XXXXX=last 6 digits of MAC address)	
Encryption No Encryption and WPA-PSK are optional.	
Key Customize the Wi-Fi password when security mode is WPA-PSK.	

5.3.2 Cellular

SG50 supports to insert a SIM card to get cellular network connections.

WLAN	Cellular				
	APN				
	Username				
	Password		۲		
	Authentication Type	None	*		
	PIN Code		۲		
	AT Command	AT+CGREG?		Send	Clear
	+CGREG: 0,1				
	ок				

| Ping Detection

Enable ()	
Primary Server (IPv4)	8.8.8.8
Secondary Server (IPv4)	23.5.5.5
Interval/s	300
Retry Interval/s	5
Timeout/s	3
Max Ping Retries	3

Cellular		
Parameters	Description	
APN	The Access Point Name for cellular dial-up connection provided by local ISP. Please contact cellular operator or search for the Internet to get it.	
Username	The username for cellular dial-up connection provided by local ISP.	
Password	The password for cellular dial-up connection provided by local ISP.	
Authentication Type	Select from None, PAP and CHAP.	
PIN Code	A 4-8 characters PIN code to unlock the SIM.	
AT Command Send AT Command to get cellular information or configure advanced setting		
Emergency Reboot Enable to reboot the device if cellular connection is not available.		
Ping Detection		
Enable	After enabled, the device will send ICMP packets to corresponding servers to detect the connection periodically. Note: it is suggested to disable this option if the device is connected to the private network (Non-internet).	
Primary Server (IPv4)	The device will send ICMP packet to this server address or hostname to determine whether the Internet connection is still available or not.	
Secondary ServerThe device will try to ping the secondary server name if primary server is no available.		
Interval/s Time interval between two Pings.		
Retry Interval/s	When ping failed, the device will ping again at every retry interval.	
Timeout/s	The maximum time which the device will wait for a response to a ping request. If it does not receive a response for the timeout, the ping request will	

	be considered to have failed.
Max Ping Retries	The number of times the device will retry sending a ping request until
	determining that the connection has failed.

5.4 Service

Device Management	
Auto Provision	
Enable	
Management Platform	
Enable	
Platform Type	DeviceHub 2.0 ~
Devicehub Address	http://192.168.45.80

Parameters	Description		
Auto	Enable to receive the configurations from Milesight Development Platform once		
Provision	after the device is connected to Internet. This will work even management		
FIONSION	platform mode is disabled.		
Management F	Platform		
Enable	Enable the device to be managed by Milesight management platforms.		
Platform	Milesight DeviceHub 2.0 or Milesight Development Platform is optional.		
DeviceHub Address	Set the DeviceHub server IP address or domain name.		

5.5 System

5.5.1 General

General	Time	
	Username	admin
	Old Password	0
	New Password	0
	Confirm New Password	۲

Parameters	Description	
Username	Enter a new username. Only capital, lowercase, digits, "_" , and "-" are allowed.	
Old Password	Enter the old password.	
New Password	Enter a new password.	
Confirm New Password	Enter the new password again.	

5.5.2 Time

General	Time		
	Current Time	2023-10-25 13:47:15	
	Time Zone	Asia/Beijing	~
	Sync Type	Sync with NTP Server	~
	NTP Server Address	pool.ntp.org	

Parameters	Description
Current Time	Show the current system time.
Time Zone	Click the drop-down list to select the time zone you are in.
Sync Type	It's fixed as Sync with NTP Server.
NTP Server Address	Set the NTP Server's IP address or domain name.

5.5.3 Access Service

Milesight

I HT	ТР	
	Local access	
	Access port	80
Parameters		Description
Local access	Enable or disable the local access of HTTP.	
Access port	Set the service port of H	ITTP.

5.6 Maintenance

5.6.1 Log

Log	Backup/Upgrade Reb	poot	
	Log Severity	Debug	~
	Log File	Download	
	Core dump	Download	

Parameters	Description
Log Severity The list of severities follows the syslog protocol.	
Log File Download log file.	
Core dump	Core dump file contains a snapshot of a program's memory at a specific point in time when the program encounters a critical error or crashes, which can be used for debugging and troubleshooting purposes.

5.6.2 Backup/Upgrade

Log	Backup/Upgrade Reboot		
Ĩ	Backup		
	Download Backup	Download	
I	Restore		
	Reset	Perform Reset	
	Config File		Import Restore
ļ	Upgrade		
	Firmware Version	50.0.0.1	
	Reset		
	Upgrade Firmware		Import Upgrade

Backup/Upgrade		
Parameters	Description	
Backup		
Backup	Export the current configuration file to the PC.	
Restore		
Reset	Reset device to factory default settings. The device will restart after reset process is done.	
Config File	Click "Import" button to select configuration file, and then click "Restore" button to upload the configuration file to the device.	
Upgrade		
Firmware Version	Show the current firmware version.	
Reset	When this option is enabled, the device will be reset to factory defaults after upgrade.	
Upgrade Firmware	 Click "Import" button to select the new firmware file, and click "Upgrade" to upgrade firmware. Note: 1) Ensure that the distance between the computer and the SG50 device is not too far during the upgrade; otherwise, the upgrade process may fail. 2) After upgrade, the device will restart automatically. Please reconnect Wi-Fi to access the web GUI. 	

5.6.3 Reboot

On this page you can reboot the gateway and return to the login page. We strongly recommend

clicking "Save" button before rebooting the gateway so as to avoid losing the new configuration.



Appendix

Milesight

Default Frequency

Supported Freq	Channel/MHz
CN470	471.9, 472.1, 472.3, 472.5, 472.7,472.9, 473.1, 473.3 (8~15)
EU868	868.1, 868.3, 868.5, 867.1, 867.3, 867.5, 867.7, 867.9
IN865	865.0625, 865.4025, 865.6025, 865.985, 866.185, 866.385, 866.585, 866.785
RU864	868.9, 869.1, 869.3, 867.3, 867.5, 867.7, 867.9, 868.1
AU915	916.8, 917, 917.2, 917.4, 917.6, 917.8, 918, 918.2 (8~15)
US915	903.9, 904.1, 904.3, 904.5, 904.7, 904.9,905.1, 905.3 (8~15)
KR920	922.1, 922.3, 922.5, 922.7, 922.9, 923.1, 923.3, 923.5
AS923-1	923.2, 923.4, 922, 922.2, 922.4, 922.6, 922.8, 923
AS923-2	921.2, 921.4, 921.6, 921.8, 922, 922.2, 922.4, 922.6
AS923-3	916.6, 916.8, 917, 917.3, 917.4, 917.6, 917.8, 918
AS923-4	917.3, 917.5, 917.7, 917.9, 918.1, 918.3, 918.5, 918.7

-END-