



User Manual

5G M2M PoE Modem

DWM-311-GP

5G M2M PoE Modem

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Chapter 1 Introduction

1.1 Introduction

Congratulations on your purchase of D-Link's DWM-311-GP 5G M2M PoE Modem. With this 5G M2M PoE modem you have made a great first step in the world of connected Internet of things (IOT) by simply inserting a SIM card from the local mobile carrier into this device to get things connected. This section gives you all the information you need to set up your device.

Main Features:

- Provide 5G WAN connection and is back compatible with 3G/4G.
- Provide one 2.5 Gigabit Ethernet port for the LAN connection.
- Instinctive Web GUI is used for basic setting and check the cellular status.
- Designed easy-to-mount metal body for business and M2M environment to work with a variety M2M (Machine-to-Machine) applications.

Before you install and use this product, please read this manual in detail for fully exploiting the functions of this product.

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1.2 Contents List

1.2.1 Package Contents

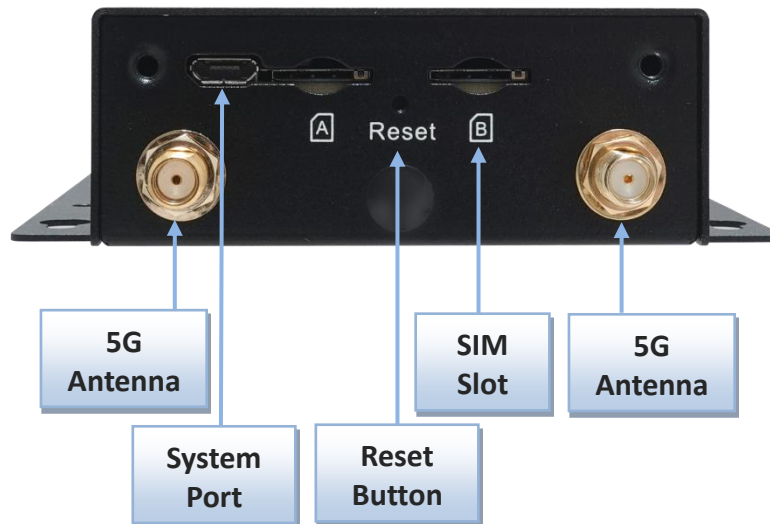
#Standard Package

Items	Description	Contents	Quantity
1	DWM-311-GP 5G M2M PoE Modem		1pc
2	Cellular Antenna		4pcs
3	RJ45 Cable		1pc
4	2 Pin Terminal Block		1pc
5	Power Adapter (54V/1.67A)		1pc
6	Power Cord		1pc
7	DIN-Rail Bracket		1 set (DIN rail x2, screw x4)

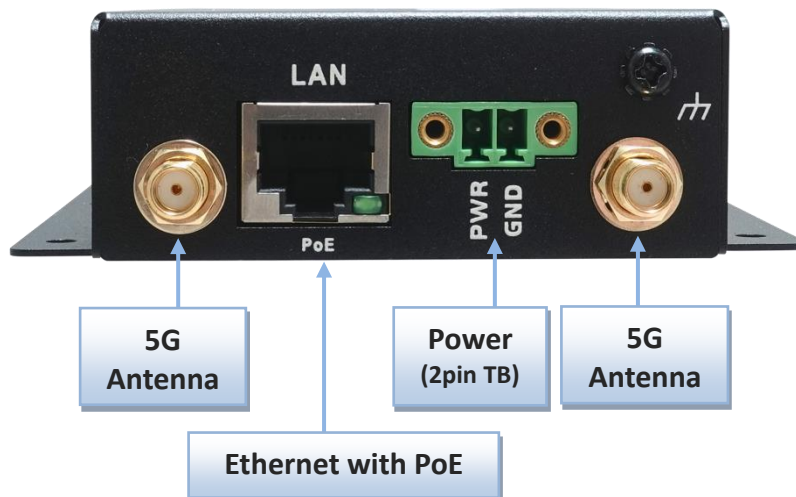
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1.3 Hardware Configuration

➤ Right View



➤ RightView



✂Reset Button

RESET button provides user a quick and easy way to resort the default setting. Press the RESET button continuously for more than 8 seconds. The device will restore to factory default settings.

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1.4 LED Indication



Indication	LEDColor	Description
 Power	Blue	Steady On: Device power is on Off: Device power is off
 Cell/PDP	Blue + Red	Red and Steady On: Cellular is not registered to network. Red and Flash: Cellular is registering to network. Blue and Steady On: The device registers to 5G network. Blue and Slow Flash: The device registers to LTE or 3G network.
 Signal Strength	Blue	Blue and Steady On: Cellular signal is good. Blue and Slow Flash: Cellular signal is weak. OFF: No cellular signal.
 PoE	Blue	Steady On: Supply PoE Power to Ethernet Port. Off: No PoE Power to Ethernet Port.
Ethernet	Green	Green and Steady On: A Ethernet device is connected. Green and Flash: Data transmission through Ethernet.

1.5 Installation& MaintenanceNotice

1.5.1 SYSTEM REQUIREMENTS

Network Requirements	• A Ethernet RJ45 cable • 4G/5G cellular service subscription • 100/1000M Ethernet adapter on PC
Web-based Configuration Utility Requirements	Computer with the following: • Windows®, Macintosh, or Linux-based operating system • An installed Ethernet adapter Browser Requirements: • Internet Explorer 8.0 or higher • Chrome 2.0 or higher • Firefox 3.0 or higher • Safari 3.0 or higher

1.5.2 WARNING



- Only use the power adapter that comes with the package. Using a different voltage rating power adaptor is dangerous and may damage the product.
- Do not open or repair the case yourself. If the product is too hot, turn off the power immediately and have it repaired at a qualified service center.

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Federal Communication Commission Interference Statement

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.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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

FOR PORTABLE DEVICE USAGE (<20m from body/SAR needed)

Radiation Exposure Statement:

The product complies with the FCC portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

FOR MOBILE DEVICE USAGE (>20cm/low power)

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.

FOR COUNTRY CODE SELECTION USAGE (WLAN DEVICES)

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must be fixed to US operation channels only.

1.5.3 HOT SURFACE CAUTION



CAUTION: The surface temperature for the metallic enclosure can be very high! Especially after operating for a long time, installed at a closed cabinet without air conditioning support, or in a high ambient temperature space.

DO NOT touch the hot surface while servicing!!

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1.5.4 Product Information for CE RED Requirements

The following product information is required to be presented in product User Manual for latest CE RED requirements.¹

(1) Frequency Band & Maximum Power

(2) Frequency Band & Maximum Power

Band Number	Frequency Band	Max. Output Power
WCDMA Band 1	1920 ~ 1980 MHz	23 dBm
WCDMA Band 5	824 ~ 849 MHz	23 dBm
WCDMA Band 8	880 ~ 915 MHz	23 dBm
LTE Band 1	1920 ~ 1980 MHz	23 dBm
LTE Band 3	1710 ~ 1785 MHz	23 dBm
LTE Band 5	824 ~ 849 MHz	23 dBm
LTE Band 7	2500 ~ 2570 MHz	23 dBm
LTE Band 8	880 ~ 915 MHz	23 dBm
LTE Band 20	832 ~ 862 MHz	23 dBm
LTE Band 28	703 ~ 748 MHz	23 dBm
LTE Band 38	2570 ~ 2620 MHz	26 dBm
LTE Band 40	2300 ~ 2400 MHz	23 dBm
LTE Band 41	2496 ~ 2690 MHz	26 dBm
LTE Band 42	3400 ~ 3600 MHz	26 dBm
LTE Band 43	3600 ~ 3800 MHz	26 dBm
5G NR Band n1	1920 ~ 1980 MHz	23 dBm
5G NR Band n3	1710 ~ 1785 MHz	23 dBm
5G NR Band n5	824 ~ 849 MHz	23 dBm
5G NR Band n7	2500 ~ 2570 MHz	23 dBm
5G NR Band n8	880 ~ 915 MHz	23 dBm
5G NR Band n20	832 ~ 862 MHz	23 dBm
5G NR Band n28	703 ~ 748 MHz	23 dBm
5G NR Band n38	2570 ~ 2620 MHz	26 dBm
5G NR Band n40	2300 ~ 2400 MHz	23 dBm
5G NR Band n40	2300 ~ 2400 MHz	23 dBm
5G NR Band n41	2496 ~ 2690 MHz	26 dBm
5G NR Band n77	3300 ~ 4200 MHz	26 dBm
5G NR Band n78	3300 ~ 3800 MHz	26 dBm

¹ The information presented in this section is ONLY valid for the EU/EFTA regional version. For those non-CE/EFTA versions, please refer to the corresponding product specification.

1.6 Hardware Installation

This chapter describes how to install and configure the hardware

1.6.1 Mount the Unit

The DWM-311-GP can be placed on a desktop, or use extender to place on DIN-Rail bracket or mount on the wall.

1.6.2 Insert the SIM Card

WARNING: BEFORE INSERTING OR CHANGING THE SIM CARD, PLEASE MAKE SURE THAT POWER OF THE DEVICE IS SWITCHED OFF.

SIM card slot is located in the middle area of DWM-311-GP. You need to remove the outer SIM card cover before installing or removing an inserted SIM card. Please follow below instructions to install or remove a SIM card. After SIM card is well installed or removed, put back the outer SIM card cover.

Step 1:

Loosen the screws and remove the SIM cover as shown on the right.



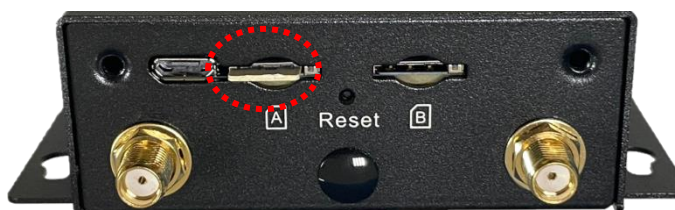
Step 2:

Push the SIM card into the slot A (SIM-A) or slot B (SIM-B).



Step 3:

Push the inserted SIM card again to reject it from the SIM slot.



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1.6.3 Connecting to the Network or a Host

The DWM-311-GP provides one RJ45 port to connect to 10/100/1000/2500Mbps Ethernet. It can auto detect the transmission speed on the network and configure itself automatically. Connect one Ethernet cable to the RJ45 port (LAN) of the device and plug another end of the Ethernet cable into your computer's network port to connect this device to the host PC for device configuration.

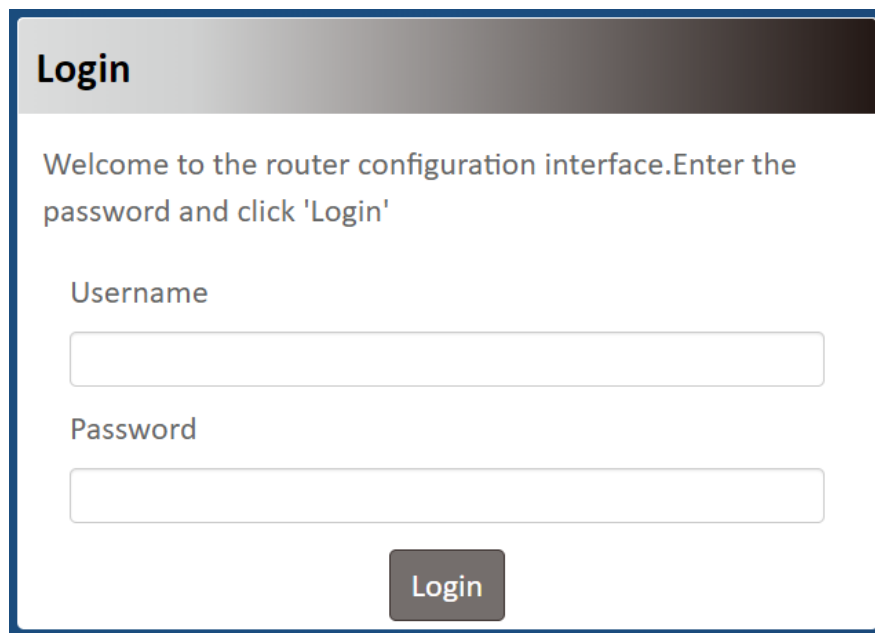
1.6.4 Setup by Configuring WEB UI

You can browse web UI to configure the device.

Type in the IP Address (<http://192.168.0.1>)²



When you see the login page, enter the user name and password and then click '**Login**' button.

A screenshot of a web-based login interface for a router. At the top is a dark grey header with the word 'Login' in white. Below the header, the text 'Welcome to the router configuration interface. Enter the password and click 'Login'' is displayed. There are two input fields: the first is labeled 'Username' and the second is labeled 'Password'. Both fields are empty. Below the password field is a dark grey button with the word 'Login' in white.

The default setting for both username and password is '**admin**'³.

2 The default LAN IP address of this gateway is 192.168.0.1. If you change it, you need to login by using the new IP address.

3 For security concern, the login process will force user to change default password at the first time.

Chapter 2 Status

2.1 Cellular

Status	Network	Modem	Signal	Data Usage
Cellular	IPv4 Network			
Security	Mode	NAT		
Setup	Link Status	Disconnected		
Security	IP Address	0.0.0.0		
Administrator	Netmask	0.0.0.0		
Logout	Gateway	0.0.0.0		

Network Page Item	Description
Device Mode	Set the unit operating mode
Cellular	Set the parameter for cellular network.
Ethernet	Set the IP of Ethernet and DHCP service
Port Forwarding	Enable specified port or protocol for service on connected device.
Datat Uage	Interface Traffic Statistics screen displays the Interface's total transmitted packets.

2.1.1.Network

Network	Modem	Signal	Data Usage
IPv4 Network			
Mode	NAT		
Link Status	Disconnected		
IP Address	0.0.0.0		
Netmask	0.0.0.0		
Gateway	0.0.0.0		

Network Page Item	Description
Mode	Network type NAT
Link Status	Display cellular network status-connected or disconnected.
IP address	Base station distribution network IP
Netmask	Display cellular network netmask
Gateway	Display cellular network gateway

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2.1.2.Modem

Network

Modem

Signal

Data Usage

Modem Information

IMEI

357748929008582

Advanced Information

Advanced

Service Information

SIM

SIM-B

SIM Status

SIM card not insert

Register Status

N/A

Operator

Service Type

Band

Advanced Information

Advanced

Modem Information	
Item	Description
IMEI	Display modem IMEI information
Advanced Information	Click“advanced”button to show Advanced Information

Advanced information

IMEI

868371050045414

Temperature

57 °C

4G Band Capability

1:2:3:4:5:7:8:12:13:14:17:18:19:20:25:26:28:29:30:32:34:38:39:40:41:42:43:46:48:66:71

5G Band Capability

1:2:3:5:7:8:12:13:14:18:20:25:26:28:29:30:38:40:41:48:66:70:71:75:76:77:78:79

Close

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Advanced Information	
Item	Description
IMEI	Display modem IMEI information
Temperature	Module temperature
4G Band capability	4G-supported band
5G Band capability	5G-supported band

Service Information	
SIM	SIM-A
SIM Status	Ready
Register Status	Registered
Operator	Chunghwa Telecom
Service Type	LTE
Band	Band 3
Advanced Information	<button>Advanced</button>

Service information	
Item	Description
SIM	Display card slot
SIM status	Display read sim status
Register status	Display base station registration status- <i>registered</i> or <i>not registered</i>
Operator	Operator name
Service type	Display LTE/5G
Band	Connected frequency band
Advanced Information	Click“ advanced ”button to show Advanced Information

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Advanced information

MCC	466
MNC	92
Roaming	No
Cell ID	965E40E
Band	Band 7
LAC	0
TAC	36400

Close

Advanced Information	
Item	Description
MCC	Display modem IMEI information
MNC	Module temperature
Roaming	Roaming status-no or roaming
Cell ID	Cell ID
Band	Connected frequency band
LAC	Location Area Code
TAC	Tracking Area Number

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2.1.3.Signal

Network

Modem

Signal

Data Usage

Cellular Signal

Service Type

Operator

RSSI

Advanced Information

0

Advanced

Cellular Signal	
Item	Description
Service type	Cellular service type LTE/5G
Operator	Operator name
RSSI	Display Received Signal
Advanced Information	Click“advanced”button to show Advanced Information

Advanced information

RSSI

RSRP

RSRQ

SINR

RSCP

ECIO

-73

-103

-12

1.40

0

0

Close

Advanced Information	
Item	Description
RSSI	Display Received Signal
RSRP	Display Signal Received Power
RSRQ	Display Signal Received Quality

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SINR	Display Interference Strength
RSCP	Display Signal Received Power
ECIO	Display interference Ratio

2.2 Security

Status

Cellular

Security

Setup

VPN

OpenVPN Client Name

OpenVPN Client #1Advanced

2.2.1.VPN

OpenVPN Client Name

OpenVPN Client #1Advanced

OpenVPN Client Name	
Item	Description
OpenVPN client #1	Click“advanced”button to show advanced information

Advanced Information

OpenVPN Client Name	OpenVPN Client #1
Remote IP/FQDN	122.146.196.220
Remote Subnet	192.168.218.0 / 24
Virtual IP	0.0.0.0
Conn.Time	00:00:00:00
Conn.Status	Disconnected

Close

Advanced Information	
Item	Description
OpenVPN client name	VPN Client name

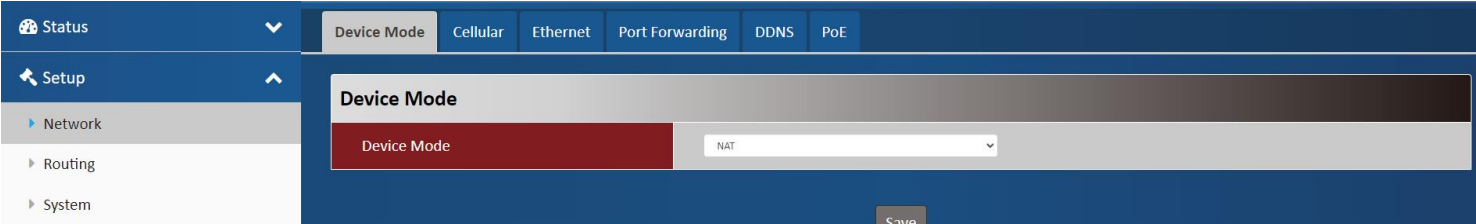
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Remote IP/FQDN	VPN server IP or FQDN
Remote Subnet	VPN server remote subnet
Virtual IP	VPN virtual ip
Conn.time	Display connected time
Conn.status	Display connected or disconnected

Chapter 3 Setup

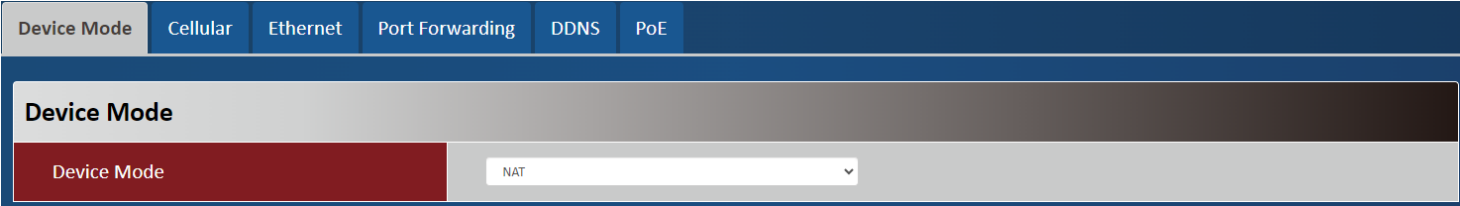
The DWM-311-GP connect to a machine via the Ethernet interface for 3G/4G/5G network connection. The DWM-311-GP also provides another function with NAT router. It can help the network application more flexible.

3.1 Network



Network Item	Description
Device Mode	Set the unit operating mode
Cellular	Set the parameter for cellular network.
Ethernet	Set the IP of Ethernet and DHCP service
Port Forwarding	Enable specified port or protocol for service on connected device.
DDNS	Register a dynamic host name for the unit.
PoE	The PoE port management function includes PoE port control, PD failure check and Power Off/On by schedule.

3.1.1 Device Mode



Device Mode Item	Value setting	Description
Device Mode	1. A must-fill setting 2. By default NAT is selected	NAT The unit will provide a NAT service and provide a simple firewall for the connected device. Modem The unit will pass the cellular IP to connected device via ethernet

3.1.2 Cellular

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Device Mode Cellular Ethernet Port Forwarding DDNS PoE

Cellular Access

	SIM-A	SIM-B
APN	Manual	Manual
Manual APN		
Username		
Password		
Authentication	Auto	Auto
IP Type	IPv4	IPv4
IP Mode	Dynamic IP Static IP Config	Dynamic IP Static IP Config
PIN Code		
Roaming	☐ Enable	☐ Enable
MTU Setup	☐ Enable (68~1500)	
Keep Alive	☒ Enable IP Address: 8.8.8.8 Interval: 60 (2~14400 seconds)	
Discard Ping from WAN	☐ Enable	
Failback	☐ Enable Counter: 5 (5~1440 minutes)	
SIM Switch Policy	Policy Setting	

Save

Cellular access Item	Value setting	Description
APN	1. A must-fill setting 2. By default Auto is selected	Auto The unit will detect the SIM and set an APN from internal database. Manual User must set APN manually.
Manual APN	1. A must-fill setting 2. String format : any text	Enter the APN you want to use to establish the connection. This is a must-fill setting if you selected Manual APN as APN scheme.
Username	1. An optional setting 2. String format : any text	Enter the optional Username settings if your ISP provided such settings to you.
Password	1. An optional setting 2. String format : any text	Enter the optional Password settings if your ISP provided such settings to you.
Authentication	1. A Must-fill setting 2. By default Auto is	Select PAP (Password Authentication Protocol) and use such protocol to be authenticated with the carrier's server.

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	selected	Select CHAP (Challenge Handshake Authentication Protocol) and use such protocol to be authenticated with the carrier's server. When Auto is selected, it means it will authenticate with the server either PAP or CHAP .
IP Type	1. A must-fill setting 2. By default IPv4 is selected	Specify the IP type of the network service provided by your 3G/4G network. It can be IPv4 , IPv6 , or IPv4v6 .
IP Mode	1. A must-fill setting 2. By default Dynamic IP is selected	Dynamic IP The unit will get IP from cellular service.. Static IP The unit will set IP according to Static IP Config .
PIN Code	1. An optional setting 2. String format : interger	If the PIN (Personal Identification Number) code is required to unlock your SIM card, enter the PIN code you set.
Roaming	1. An optional setting 2. Uncheck by default	Check the checkbox to enable the modem to connect on the cellular network at roaming state.
MTU Setup	1. An optional setting 2. Uncheck by default	Check the Enable box to enable the MTU (Maximum Transmission Unit) limit, and specify the MTU for the 3G/4G connection. MTU refers to Maximum Transmission Unit. It specifies the largest packet size permitted for Internet transmission. Value Range: 68 ~ 1500.
Keep Alive	1. An optional setting 2. Box is unchecked by default	Check the Enable box to activate the keep-alive function. Input IP Address and interval to send an ICMP packet to check the network status.
DiscardPing from WAN	1. An optional setting 2. Uncheck by default	The modem will not respond the ICMP request packet from remote hosts when the checkbox is checked.
Failback	1. Uncheck by default 2.5 minutes by default	When Failback is checked, when the main WAN can be connected, it will switch to the main WAN after the set count time is up Value Range: 5 ~ 1440 minutes.
SIM Switch Policy		Click the Policy Setting button to define the SIM switch policy or browse the current policy settings.

Policy Setting

Failed connection	0 (0~10 times)
RSSI Monitor	☐ Enable Threshold: - 0 (-90~-113 dBm)
Network Service	☐ Enable Loss NR5G signal: 0 (1~30 minutes)
Roaming Service	☐ Enable Timeout: 0 (1~30 minutes)

Save

Close

Policy Setting Item	Value setting	Description
Failed Connection	1. 0 By default	Number of failed connections, After the number of times is reached, switch the SIM

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RSSI Monitor	1. 0 By default 2. Uncheck by default	When the signal is less than the set value, the SIM will be switched
Network Service	1. 0 By default 2. Uncheck by default	When the loss NR5G signal reaches the set value time, start switching SIM
Roaming Service	1. 0 By default 2. Uncheck by default	Switch SIM when roaming timeout time reaches the set value

Static IP Configuration

IP	0.0.0.0	
Subnet Mask	255.255.255.0 (/24)	
Default Gateway	0.0.0.0	(Optional)
Primary DNS	0.0.0.0	(Optional)
Secondary DNS	0.0.0.0	(Optional)

Static IP Configuration		
Item	Value setting	Description
IP	1. IPv4 format. 2. A Must-fill setting	The Static IP Address setting of this unit.
Subnet Mask	255.255.255.0 (/24) is set by default	The Subnet Mask of this configured static IP.
Default Gateway	1. IPv4 format. 2. An optional setting	The gateway setting of this configured static IP.
Primary DNS	1. IPv4 format. 2. An optional setting	Assigned DNS server of this configured static IP.
Secondary DNS	1. IPv4 format. 2. An optional setting	Assigned DNS server of this configured static IP.

3.1.3 Ethernet

Device Mode

Cellular

Ethernet

Port Forwarding

DDNS

PoE

Ethernet IP

IP	192.168.123.254
Netmask	255.255.255.0 (/24)
DHCP Server	☒ Enable
DHCP Setting	DHCP Config

Ethernet IP Item	Value setting	Description
IP	1. IPv4 format. 2. A Must-fill setting	The LAN IP Address of this unit.
Netmask	255.255.255.0 (/24) is set by default	The Subnet Mask of this unit.
DHCP Server	The box is unchecked by default.	Click Enable box to activate DHCP Server.
DHCP Setting	N/A	Click DHCP Config button to pop-up the DHCP Setting page.

DHCP Setting

IP Pool Start	5
IP Pool End	10
Lease Time	3600

Save

Close

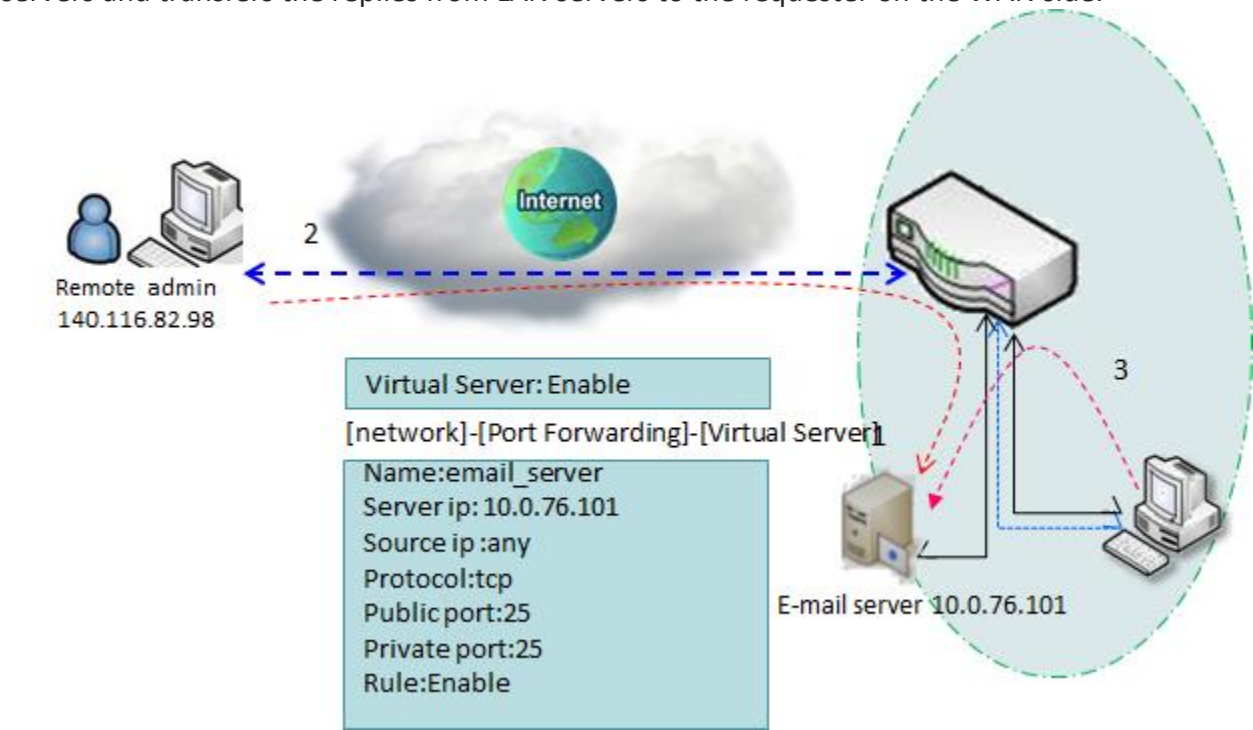
DHCP Setting Item	Value setting	Description
IP Pool Start	1. numeric string format. 2. A must-fill setting	The IP Pool of this DHCP Server. It is Starting Address entered in this field.
IP Pool End	1. numeric string format.	The IP Pool of this DHCP Server. It is Ending Address entered in this field.

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Lease Time	2. A must-fill setting	The Lease Time of this DHCP Server. ValueRange: 300 ~ 604800 seconds.
	1. numeric string	
	2. A must-fill setting	

3.1.4 Port Forwarding

"Virtual Server"allows you to access servers with the global IP address of the gateway as if they are servers existed in the Internet. The gateway serves the service requests by port forwarding the requests to the LAN servers and transfers the replies from LAN servers to the requester on the WAN side.



Device Mode

Cellular

Ethernet

Port Forwarding

DDNS

PoE

Virtual Server

Virtual Server

☐ Enable

Add

Virtual Server Item	Value setting	Description
Virtual Server	The box is unchecked by default	Check the Enable box to activate this port forwarding function Click Add will pop-up Virtual Server Rule Configuration page.

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Virtual Server Rule Configuration

Name	email_server	
Server IP	10.0.76.101	
Source IP	Any	
Protocol	TCP(6)	
Public Port	Single Port	25
Private Port	Single Port	25
Rule	☒ Enable	

Virtual Server Rule Configuration		
Item	Value setting	Description
Name	1. String format can be any text 2. A must-fill setting	The name of current rule
Server IP	A must-fill setting	This field is to specify the IP address of the interface selected in the WAN Interface setting above.
Source IP	1. A must-fill setting 2. By default Any is selected	This field is to specify the Source IP address . Select Any to allow the access coming from any IP addresses. Select Specific IP Address to allow the access coming from an IP address. Select IP Range to allow the access coming from a specified range of IP address.
Protocol	A must-fill setting	When "TCP(6)" is selected It means the option "Protocol" of packet filter rule is TCP. Public Port selected a predefined port from Well-known Service , and Private Port is the same with Public Port number. Public Port is selected Single Port and specify a port number, and Private Port can be set a Single Port number. Public Port is selected Port Range and specify a port range, and Private Port can be selected Single Port or Port Range . <u>Value Range</u> :1 ~ 65535 for Public Port, Private Port. When "UDP(17)" is selected It means the option "Protocol" of packet filter rule is UDP. Public Port selected a predefined port from Well-known Service , and Private Port is the same with Public Port number. Public Port is selected Single Port and specify a port number, and Private Port can be set a Single Port number.

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Public Port is selected Port Range and specify a port range, and Private Port can be selected Single Port or Port Range. <u>Value Range</u>:1 ~ 65535 for Public Port, Private Port. When “TCP(6)& UDP(17)” is selected It means the option “Protocol” of packet filter rule is TCP and UDP. Public Port selected a predefined port from Well-known Service, and Private Port is the same with Public Port number. Public Port is selected Single Port and specify a port number, and Private Port can be set a Single Port number. Public Port is selected Port Range and specify a port range, and Private Port can be selected Single Port or Port Range. <u>Value Range</u>:1 ~ 65535 for Public Port, Private Port. When “User-defined” is selected It means the option “Protocol” of packet filter rule is User-defined. For Protocol Number, enter a port number.		
Rule	1. An optional filled setting 2. The box is unchecked by default.	Check the Enable box to activate the rule.

Rule Name

test

Edit

Delete

Rule Name Item	Value setting	Description
Rule name	N/A	Click “Edit” button to pop-up Virtual Server Rule Configuration page to edit the rule. Click “Delete” button to delete this rule

3.1.5 DDNS

Device Mode

Cellular

Ethernet

Port Forwarding

DDNS

PoE

Configuration

DDNS

☐ Enable

Provider

DynDNS.org

Host Name

User Name / E-Mail

Password / Key

5G M2M PoE Modem

DDNS Item	Value setting	Description
DDNS	The box is unchecked by default	Check the Enable box to activate this function.
Provider	DynDNS.org is set by default	Select your DDNS provider of Dynamic DNS. It can be DynDNS.org, NO-IP.com, TZO.com etc...
Host Name	1. String format can be any text 2. A Must-fill setting	Your registered host name of DDNS Service. <u>Value Range:</u>0 ~ 63 characters.
User Name / E-Mail	1. String format can be any text 2. A Must-fill setting	Enter your User name or E-mail addresss of DDNS Service.
Password / Key	1. String format can be any text 2. A Must-fill setting	Enter your Password or Key of DDNS Service.

3.1.6 PoE

Device Mode
Cellular
Ethernet
Port Forwarding
DDNS
PoE

PoE Port Definition

Port-1	☐ Enable
Time Schedule	-- select one --

PoE Port Definition Item	Value setting	Description
Port-1	The box is unchecked by default	Check the Enable box to activate Poe function. Require power supply 48w
Time schedule	Select one is set by default	if you have set other schedule rules, there will be other options to select.

3.2 Routing

Status
Setup
Network
Routing
System

Static Routing
Routing Information

Static Routing

Static Routing	☐ Enable	Add
----------------	---------------------------------	-----

Save

5G M2M PoE Modem

Routing Item	Value setting	Description
Static Routing	The box is unchecked by default	Check the Enable box to activate this function.
Routing Information	N/A	The routing information allows user to view the routing table and policy routing information.

3.2.1 Static Routing

Status

Setup

Network

Routing

System

Static Routing

Routing Information

Static Routing

☐ Enable

Add

Save

Static Routing Item	Value setting	Description
Static Routing	The box is unchecked by default	Check the Enable box to activate this function. Click Add will pop-up Static Routing Rule Configuration page.

Static Routing Rule Configuration

Name

Destination IP

Subnet Mask

Gateway IP

Interface

Metric

Rule

LAN

☐ Enable

Save

Close

Static Routing Rule Configuration Item	Value setting	Description
Name	The box is unchecked by default	Check the Enable box to activate this function. Click Add will pop-up Static Routing Rule Configuration page.

5G M2M PoE Modem

Destination IP	1. IPv4 Format 2. A must-fill setting	Specify the Destination IP of this static routing rule.
Subnet Mask	1.255.255.255.0 (/24) is set by default	Specify the Subnet Mask of this static routing rule.
Gateway IP	1. IPv4 Format 2. A must-fill setting	Specify the Gateway IP of this static routing rule.
Interface	LAN is set by default	Select the Interface of this static routing rule. use the available WAN / LAN interfaces.
Metric	1. Numeric string format 2. A must-fill setting	The Metric of this static routing rule. <i>Value Range: 0 ~ 255.</i>
Rule	The box is unchecked by default.	Click the Enable to activate static routing functions.

3.2.2 Routing Information

Static Routing

Routing Information

Routing Information

192.168.123.0

Detail

Routing Information		
Item	Value setting	Description
192.168.123.0	192.168.123.0 by default	Show default routing and routing rule list

Routing Information

Destination IP	192.168.123.0
Subnet Mask	255.255.255.0
Gateway IP	0.0.0.0
Interface	LAN
Metric	0

Close

3.3 System

This section provides the configuration of system features.

Status

Setup

Network

Routing

System

Security

Administrator

Logout

System Time

System Information

Scheduling

Data Cap

System Time

Current Time

Sync Time

Time Zone

NTP Server

Daylight Saving

Start Date

End Date

Action

Mon Jan 1 06:29:50 2024

Auto

(GMT+00:00) Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London

pool.ntp.org

☐ Enable

1 / 1 / 0 (Month/Day/Hour)

1 / 1 / 0 (Month/Day/Hour)

Action

3.3.1 System Time

Status

Setup

Network

Routing

System

Security

Administrator

Logout

System Time

System Information

Scheduling

Data Cap

System Time

Current Time

Sync Time

Time Zone

NTP Server

Daylight Saving

Start Date

End Date

Action

Mon Jan 1 06:29:50 2024

Auto

(GMT+00:00) Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London

pool.ntp.org

☐ Enable

1 / 1 / 0 (Month/Day/Hour)

1 / 1 / 0 (Month/Day/Hour)

Action

System time Item	Value setting	Description
Current Time	N/A	Show the current time of the unit.
Sync Time	1. A must-fill item. 2. Atuo is selected by default.	When select Auto , unit will sync the time via cellular cell, then try to use NTP if cellular cell doesn't provide time information. When select NTP , the unit will sync time via ntp service.
Time Zone	1. A must-fill item. 2. GMT+00 :00 is selected by default.	Select a time zone that this device locates in
NTP Server	1. A must-fill item.	Indicate which NTP server will be used of the time synchronization.
Daylight Saving	1. It is an optional item. 2. Un-checked by default	Check the Enable button to activate the daylight saving function. When user enabled this function, user has to specify the Start Date and End

5G M2M PoE Modem

		Date for the daylight saving time duration.
Start Date	1. It is an optional item.	Start time for Daylight Saving.
End Date	1. It is an optional item.	End Time of Daylight Saving.
Action	N/A	Click Action to sync time immediately

3.3.2 System Information

System Time

System Information

Scheduling

Data Cap

System Information

Model Name

Serial Number

Device Up-Time

DWM-311-GP A1

T34N153000014

0day 5hr 31min 2sec

System Information

Item

Value setting

Description

Model Name

N/A

Show the model name of the device

3.3.3 Scheduling

System Time

System Information

Scheduling

Data Cap

Time Schedule

Time Schedule

Add

Time Schedule		
Item	Value setting	Description
Time Schedule	N/A	Press Add to create a schedule rule for system.

Time Schedule Configuration

Rule Name

Rule Policy

Inactivate

The Selected Days and Hours Below.

Time Period Definition

Week Day

Every Day

Start Time (hh:mm)

End Time (hh:mm)

Save

Close

Time Schedule Configuration		
Item	Value Setting	Description
Rule Name	String: any text	Set rule name
Rule Policy	Default Inactivate	Inactivate/activate the function been applied to in the time period below

Time Period Definition		
Item	Value Setting	Description
Week Day	Select from menu	Select everyday or one of weekday
Start Time	Time format (hh :mm)	Start time in selected weekday

5G M2M PoE Modem

End Time

Time format (hh :mm)

End time in selected weekday

3.3.4 Data Cap

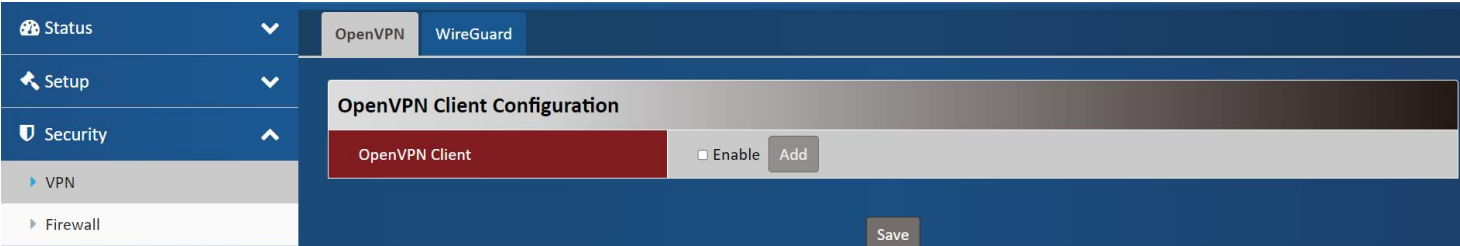
System TimeSystem InformationSchedulingData Cap

Configuration

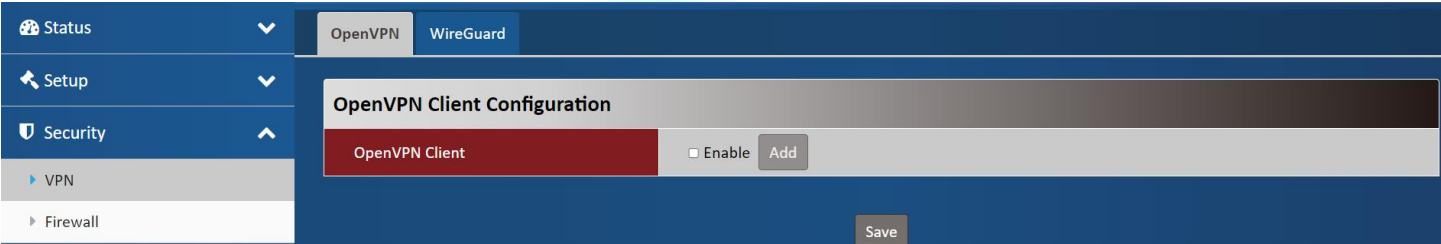
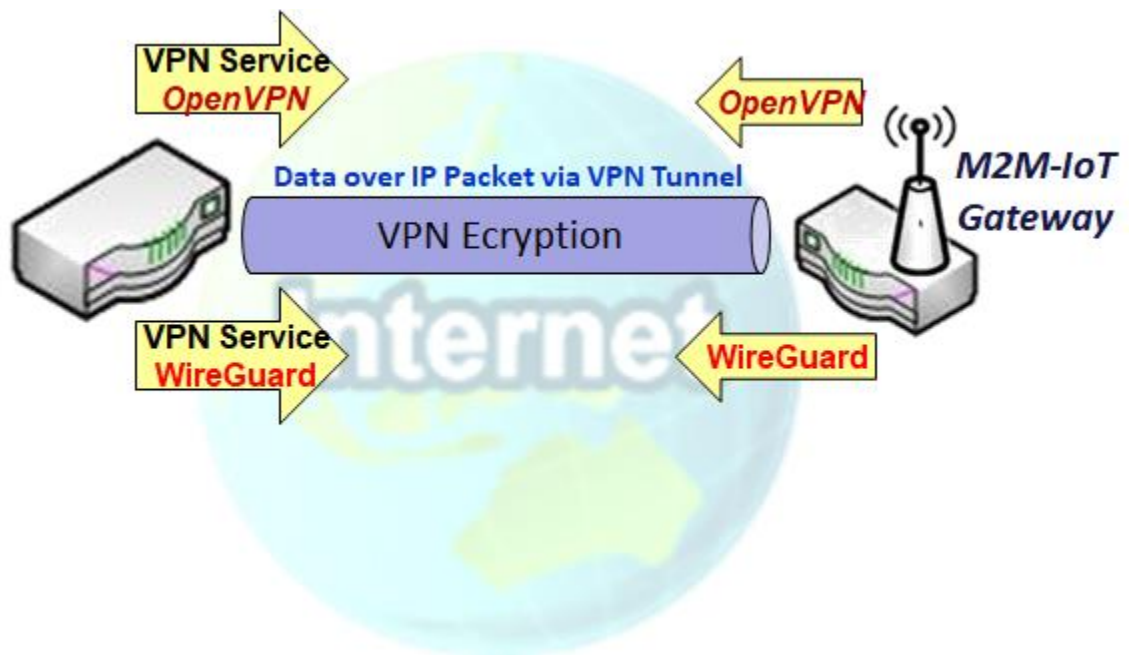
Data Cap	☐ Enable
SIM	SIM-A
Amount	20 GB
Warning Ratio (%)	100%
Reset Date monthly	10
Current Ratio (%)	Datacap is disabled
Send SMS	☐ Enable
Phone Number	

Configuration		
Item	Value Setting	Description
Data Cap	Un-checked by default.	Check the Enable box to activate the Data cap function.
SIM	SIM A by default.	Specify SIMA or SIMB
Amout	1. An optional setting.	Specify the allowable data limitation for the defined cycle period
Warning Ration(%)	100% by default.	Send a notification when a set condition is met
Reset Date monthly	1.10 by default. 2. An optional setting.	Specify a certain day of each month as the periodic execution of reset data
Current Ratio(%)	0 by default	
Send SMS	Un-checked by default.	Check the Enable box to activate the connection restriction function.
Phome Number	1. An optional setting.	When send sms Enable,can Set the sending SMS object

Chapter 4 Security



4.1 VPN



VPN Page Item	Value setting	Description
OpenVPN	N/A	The OpenVPN setting allows user to create and configure OpenVPN tunnels.
WireGuard	N/A	The WireGuard setting allows user to create and configure WireGuard tunnels

4.1.1 OpenVPN

OpenVPN

WireGuard

OpenVPN Client Configuration

OpenVPN Client

☐ Enable

Add

OpenVPN client name	Page	
Item	Value setting	Description
OpenVPN client	The box is unchecked by default	Check the Enable box to activate this port forwarding function Click Add , OpenVPN Client Rule Configuration page will pop-up.

5G M2M PoE Modem

OpenVPN Client Rule Configuration

Name	OpenVPN Client #1	
Protocol	TCP	Port: 4430
Tunnel Scenario	TAP	
Remote IP/FQDN	60.249.211.108	
Remote Subnet	192.168.100.100	255.255.255.0 (/24)
Redirect Internet Traffic	☐ Enable	
CA Cert	hRyIHOQhQ== -----END CERTIFICATE-----	
Client Cert	UA== -----END CERTIFICATE REQUEST-----	
Client Key	lv4fXUZA1ssMXoV2lwpXWoOStYRR2ChLK0drfaeJCA= -----END RSA PRIVATE KEY-----	
Encryption Cipher	Blowfish	
Hash Algorithm	SHA-1	
LZO Compression	Adaptive	
Persist Key	☐ Enable	
Persist Tun	☐ Enable	
Additional Configuration		
Tunnel	☒ Enable	

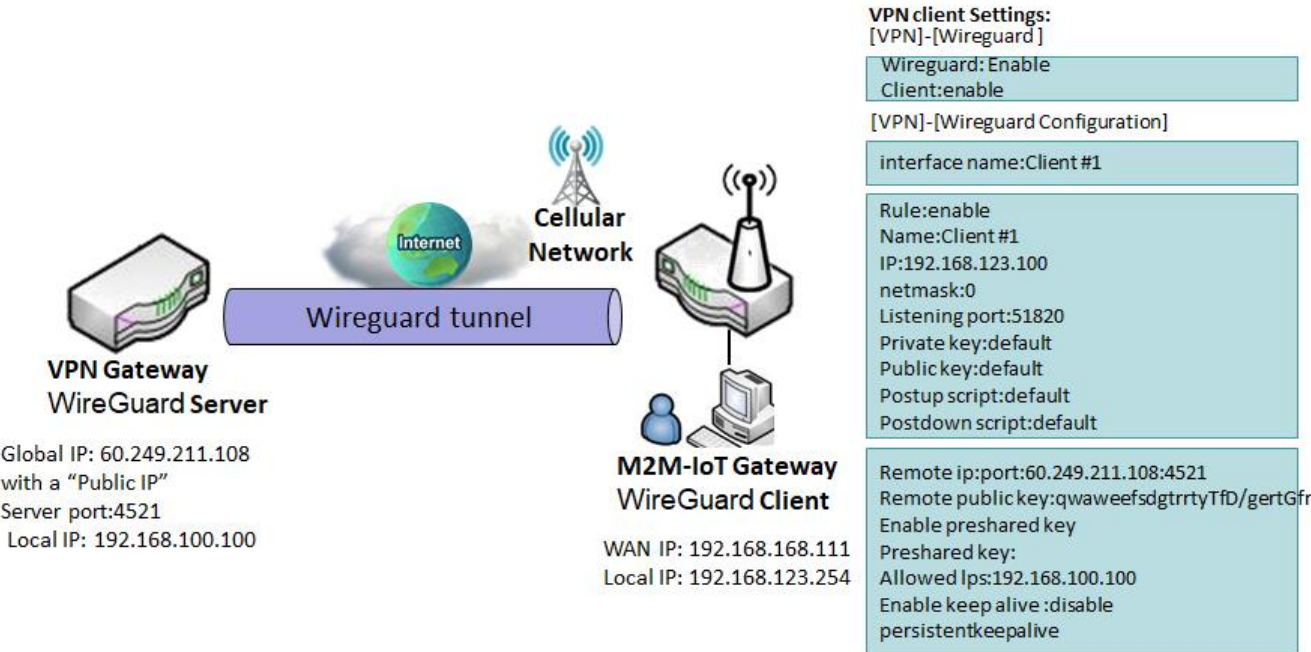
Save
Close

OpenVPN Client Rule Configuration Page		
Item	Value setting	Description
Name	1. String format can be any text 2. A must-fill setting	The name of current rule
Protocol	1. A must-fill setting 2. By default TCP is selected.	Define the selected Protocol for connecting to the OpenVPN Server. • Select TCP , or UDP -> The TCP protocol will be used to access the OpenVPN Server, and Port will be set as 4430 automatically.

5G M2M PoE Modem

		• Select UDP -> The UDP protocol will be used to access the OpenVPN Server, and Port will be set as 1194 automatically.
Tunnel Scenario	1. A must-fill setting 2. By default is selected.	Specify the type of Tunnel Scenario for connecting to the OpenVPN Server. It can be TUN for TUN tunnel scenario, or TAP for TAP tunnel scenario.
Remote IP/FQDN	A must-fill setting	Specify the Remote IP/FQDN of the peer OpenVPN Server for this OpenVPN Client tunnel. Fill in the IP address or FQDN.
Remote Subnet	1. An optional setting. 2. The box is unchecked by default.	Check the Enable box to activate remote subnet function, and specify Remote Subnet of the peer OpenVPN Server for this OpenVPN Client tunnel. Fill in the remote subnet address and remote subnet mask.
Redirect internet traffic	1. An optional setting. 2. The box is unchecked by default.	Check the Enable box to activate the Redirect Internet Traffic function.
CA Cert	A must-fill setting	Paste the CA Cert static key
Client Cert	A must-fill setting	Paste the Client Cert static key
Client key	A must-fill setting	Paste the Client Key static key
Encryption Cipher	1. A must-fill setting. 2. By default Blowfish is selected.	Specify the Encryption Cipher from the dropdown list. It can be Blowfish/AES-256/AES-192/AES-128/None .
Hash Algorithm	By default SHA-1 is selected.	Specify the Hash Algorithm from the dropdown list. It can be SHA-1/MD5/MD4/SHA2-256/SHA2-512/None/Disable .
LZO Compression	By default Adaptive is selected.	Specify the LZO Compression scheme.
Persist Key	1. An optional setting. 2. The box is checked by default.	Check the Enable box to activate the Persis Key function.
Persist Tun	1. An optional setting. 2. The box is checked by default.	Check the Enable box to activate the Persis Tun function.
Additional Configuration	1. An optional setting. 2. String format: any text	Specify the Additional Configuration .
Tunnel	The box is unchecked by default.	Click the Enable to activate OpenVPN functions.

4.1.2 WireGuard



OpenVPN

WireGuard

WireGuard

Enable

☐ Enable

Client Enable

☐ Enable

WireGuard Item	Value setting	Description
Enable	The box is unchecked by default	Check the Enable box to activate this wireguard function
Client enable	The box is unchecked by default	Check the Enable box to activate this client function Click Add will pop-up Interface page

Interface

Name

Save

Close

Interface Item	Value setting	Description
----------------	---------------	-------------

5G M2M PoE Modem

Name	A must-fill setting	Specify a name as the identifier of the client.
------	---------------------	---

Rule Name	
000	Edit Delete

Rule Name	Value setting	Description
Item		
Name	N/A	Check the Edit box to activate this wireguard function Check the Delete box to delete Rule

Interface	
Rule	☒ Enable
Name	Client#1
IP	192.168.123.100
Netmask	0
Listening Port	51820
Private Key	APzy78gjd6rUMIDNilAbZav27jKROtk/v0LZwDja7Fk=
Public Key	JDX8OZThzDvmE6MdgZ1Bd7TpsYy11WuCtAVmCcgpIU=
Postup Script	
Postdown Script	

Interface	Value setting	Description
Item		
Rule	The box is unchecked by default	Check the Enable box to activate this wireguard function
Name	A must-fill setting.	Specify a name as the identifier of the client.
IP	A must-fill setting.	Specify the server IP.
Netmask	0 by default	Specify the Netmask setting for the wireGuard server
Listening Port	51820 by default	Indicate the listening port of UDP connection.
Private Key	N/A	randomly generate client Private Key
Public Key	N/A	randomly generate server Public Key
Postup script	Blank is set by default	When the VPN service starts, the instructions to be executed are required
Postdown script	Blank is set by default	When the VPN service starts, the instructions to be executed are required

5G M2M PoE Modem

Peer

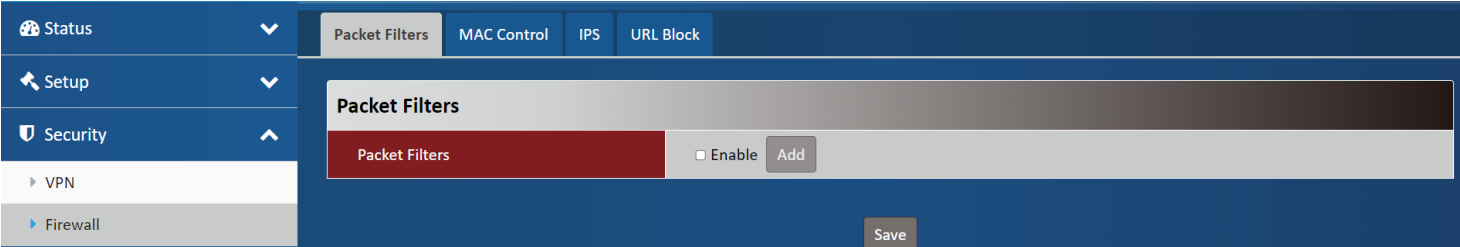
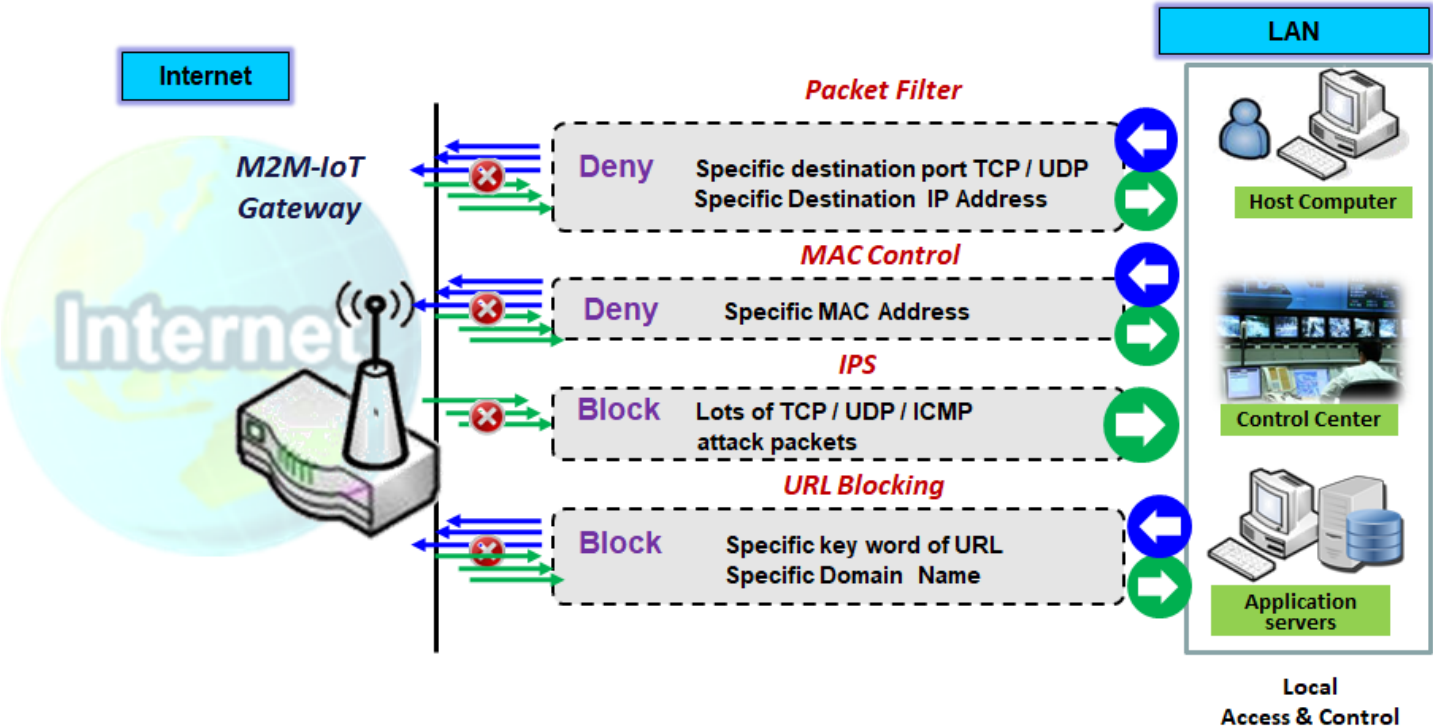
Remote IP:Port	60.249.211.108:5
Remote Public Key	qwaweefsdgtrrtyTfD/gertGfr
Enable Preshared Key	☒ Enable
Preshared Key	upXhcPSJB8Fkbea40E/md8TMwoE
Allowed Ips	192.168.100.100
Enable Keep Alive	☐ Enable
PersistentKeepalive	0

Save

Close

Peer Item	Value setting	Description
Remote IP: Port	A must-fill setting.	Specify the remote IP and port
Remote Public key	A must-fill setting.	Specify the server public key
Enable Preshared key	The box is unchecked by default	Check the Enable box to activate this Preshared key function
Preshared key	N/A	randomly generate Preshared key
Allowed IPs	Blank is set by default	server LAN network segment
Eable Keep Alive	The box is unchecked by default	Check the Enable box to activate this Keep Alive function
PersistentKeepalive	0 by default	Set connection confirmation interval

4.2 Firewall



4.2.1 Packet Filters



Packet Filters Item	Value setting	Description
Packet Filters	The box is unchecked by default	Check the Enable box to activate this Packet Filter function Click Add will pop-up Packet Filter Rule Configuration page

5G M2M PoE Modem

Packet Filter Rule Configuration

Name	test	
Source IP	IP Range 192.168.123.200 - 192.168.123.250	
Destination IP	Specific IP Address 195.165.124.33	
Source Interface	Any	
Destination Interface	Any	
Source MAC	AA:BB:CC:EE:DD:FF	
Protocol	Any	
Source Port	Any	
Destination Port	Single Port 80	
Time Schedule	(0) Always	
Rule	☒ Enable	

Save

Close

Packet Filter Rule Configuration		
Item	Value setting	Description
Name	1. String format can be any text 2. A must-fill setting	Enter a packet filter rule name. Enter a name that is easy for you to remember.
Source ip	1. A must-fill setting 2. By default Any is selected	This field is to specify the Source IP address . Select Any to filter packets coming from any IP addresses. Select Specific IP Address to filter packets coming from an IP address. Select IP Range to filter packets coming from a specified range of IP address.
Destination IP	1. A must-fill setting 2. By default Any is selected	This field is to specify the Destination IP address . Select Any to filter packets that are entering to any IP addresses. Select Specific IP Address to filter packets entering to an IP address entered in this field. Select IP Range to filter packets entering to a specified range of IP address entered in this field.
Source Interface	1. A must-fill setting 2. By default Any is selected	Define the selected interface to be the packet-entering interface of the router. If the packets to be filtered are coming from LAN to WAN then select LAN for this field. Select Any to filter packets coming into the router from any interfaces.
Destination interface	1. A must-fill setting	Define the selected interface to be the packet-leaving interface of the router.

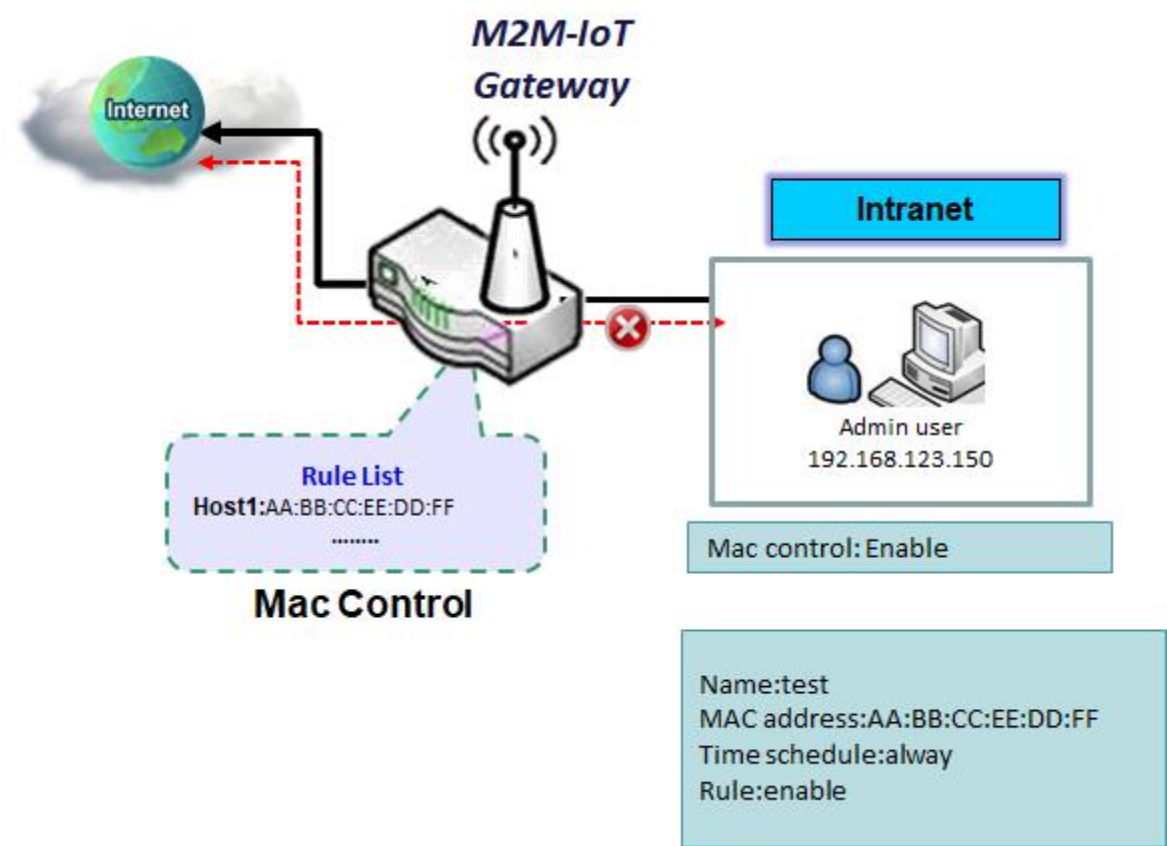
5G M2M PoE Modem

	2. By default, Any is selected	If the packets to be filtered are entering from LAN to WAN then select WAN for this field. Select Any to filter packets leaving the router from any interfaces.
Source MAC	1. optional	Specify the Source MAC address .
Protocol	1. A must-fill setting 2. By default Any is selected	For Protocol , select Any to filter any protocol packets For Protocol , select TCP to filter tcp packets For Protocol , select udp to filter udp packets For Protocol , select both to filter both packets For Protocol , select ICMP to filter ICMP packets For Protocol , select GRE to filter GRE packets For Protocol , select AH to filter AH packets For Protocol , select ESP to filter ESP packets For Protocol , select SCT to filter SCT packets
Source port	1. A must-fill setting 2. By default Any is selected	This field is to specify the Source port . Select Any to filter packets coming from any port. Select single port to Specify a unique port for the packets come to the port. Select port range to filter packets coming from a specified range of port.
Destination port	1. A Must-fill setting 2. By default Any is selected	This field is to specify the destination port . Select Any to filter packets coming from any port. Select single port to filter a unique port for the packets come to the port. Select port range to filter packets with a specified destination port range.
Time schedule	1. An optional filled setting 2. (0) Always Is selected by default.	Apply Time Schedule to this rule; otherwise leave it as (0) Always.
Rule	The box is unchecked by default	Check the Enable box to activate this Packet Filter function

4.2.2 MAC Control

When the administrator wants to reject the traffics from some client hosts with specific MAC addresses, he can use the "MAC Control" function to reject with the black list configuration.

Mac control Scenario



Packet Filters	MAC Control	IPS	URL Block
----------------	-------------	-----	-----------

MAC Control

MAC Control ☐ Enable Add

MAC Control Item	Value setting	Description
MAC Control	The box is unchecked by default	Check the Enable box to activate this MAC control function Click Add will pop-up MAC control Rule Configuration page

5G M2M PoE Modem

MAC Control Rule Configuration

Name	test
MAC Address	AA:BB:CC:EE:DD:FF
Time Schedule	(0) Always ▾
Rule	☒ Enable

Save

Close

Mac Control Rule Configuration		
Item	Value setting	Description
Name	1. String format can be any text 2. A must-fill setting	Enter a MAC rule name. Enter a name that is easy for you to remember.
MAC address	Blank is set by default	Specify the Source MAC Address to filter rule.
Time Schedule	1. An optional filled setting 2. (0) Always is selected by default.	Apply Time Schedule to this rule; otherwise leave it as (0) Always.
Rule	The box is unchecked by default	Check the Enable box to activate this MAC control function

5G M2M PoE Modem

4.2.3 IPS

Packet Filters	MAC Control	IPS	URL Block
IPS			
IPS		☐ Enable	
SYN Flood Defence		☐ Enable	
SYN Flood Threshold		0 (100~10000)	
Ping Flood Defence		☐ Enable	
Ping Flood Threshold		0 (100~10000)	
UDP Flood Defence		☐ Enable	
UDP Flood Threshold		0 (100~10000)	
Block Smurf Attack		☐ Enable	
Block Land Attack		☐ Enable	
Block Fraggle Attack		☐ Enable	
Block Ping Of Death Attack		☐ Enable	
Block Traceroute		☐ Enable	
IP Spoofing Defence		☐ Enable	

IPS Page		
Item	Value setting	Description
IPS	The box is unchecked by default	Check the Enable box to activate this IPS function
Log enable	The box is unchecked by default	Check the Enable box to activate to activate Event Log.
SYN Flood Defense	The box is unchecked by default	Check the Enable box to activate this SYN Flood Defense function
SYN Flood Threshold	1. A must-fill setting 2. Traffic threshold is set to 0 by default 3. The value range can be from 100 to 10000.	Specify the value range to block
Ping Flood Defence	The box is unchecked by default	Check the Enable box to activate this Ping Flood Defence function
Ping Flood Threshold	1. A must-fill setting 2. Traffic threshold is set to 0 by default 3. The value range can	Specify the value range to block

5G M2M PoE Modem

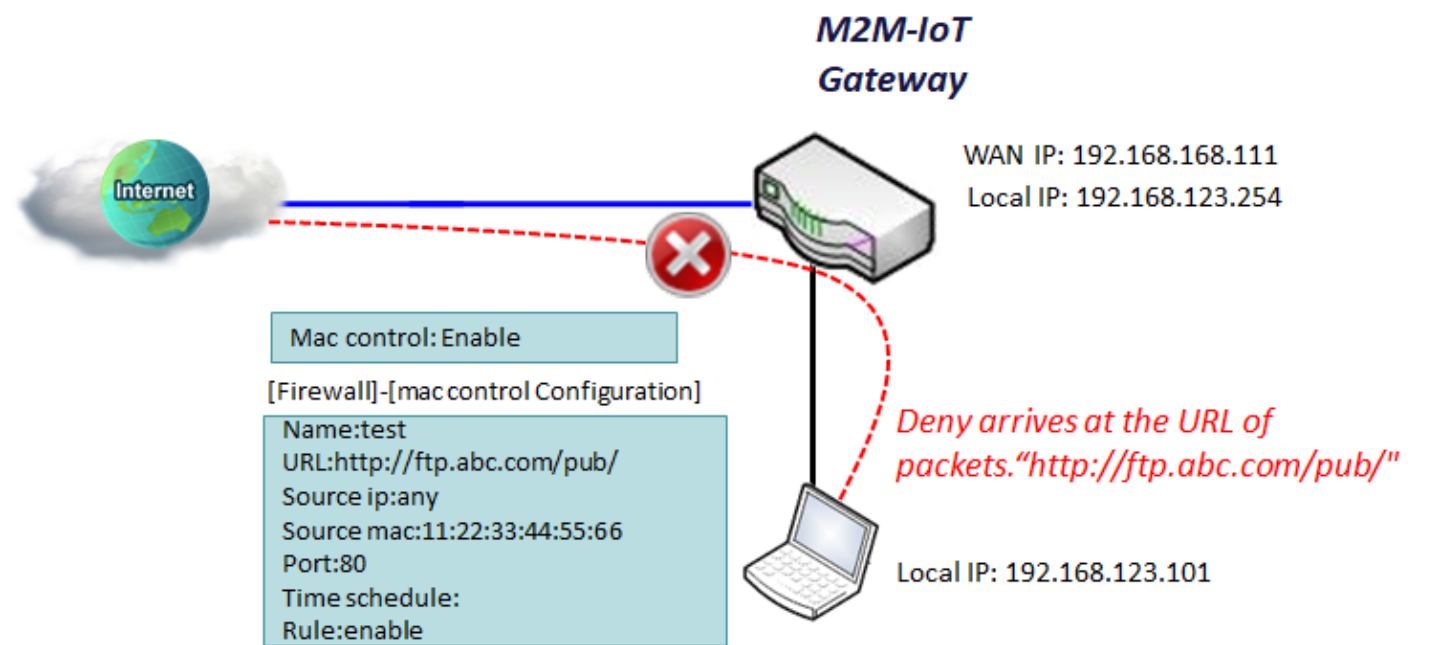
	be from 100 to 10000.	
UDP Flood Defence	The box is unchecked by default	Check the Enable box to activate this UDP Flood Defence function
UDP Flood Threshold	1. A Must-fill setting 2. Traffic threshold is set to 0 by default 3. The value range can be from 100 to 10000.	Specify the value range to block
Block Smurf Attack	The box is unchecked by default	Check the Enable box to activate this Block Smurf Attack function
Block Snork Attack	The box is unchecked by default	Check the Enable box to activate this Block Snork Attack function
Block Land Attack	The box is unchecked by default	Check the Enable box to activate this Block Land Attack function
Block Fraggle Attack	The box is unchecked by default	Check the Enable box to activate this Block Fraggle Attack function
ICMP Defender	The box is unchecked by default	Check the Enable box to activate this ICMP Defender function
Unknown Protocol Defence	The box is unchecked by default	Check the Enable box to activate this Unknown Protocol Defence function
Block Ping Of Death Attack	The box is unchecked by default	Check the Enable box to activate this Block Ping Of Death Attack function
Block ICMP Fragment Attack	The box is unchecked by default	Check the Enable box to activate this Block ICMP Fragment Attack function
Block SYN Fragment Attack	The box is unchecked by default	Check the Enable box to activate this Block SYN Fragment Attack function
Block Traceroute	The box is unchecked by default	Check the Enable box to activate this Block Traceroute function
Block Teardrop Attack	The box is unchecked by default	Check the Enable box to activate this Block Teardrop Attack function
TCP Abnormal Attack	The box is unchecked by default	Check the Enable box to activate this TCP Abnormal Attack function
IP Spoofing Defence	The box is unchecked by default	Check the Enable box to activate this IP Spoofing Defence function

5G M2M PoE Modem

4.2.4 URL Block

"URL Blocking" function can let you define blocking rules for incoming and outgoing Web request packets. With defined rules, gateway can control the Web requests containing the complete URL.

URL Scenario



Packet Filters	MAC Control	IPS	URL Block
----------------	-------------	-----	-----------

URL Block

URL Block ☐ Enable Add

URL Block Item	Value setting	Description
URL Block	The box is unchecked by default	Check the Enable box to activate this URL Block function Click Add , URL Block Rule Configuration page will pop-up

5G M2M PoE Modem

URL Block Rule Configuration	
Name	000
URL	http://ftp.abc.com/pub/
Source IP	Any
Source MAC	11:22:33:44:55:66
Port	80
Time Schedule	(0) Always
Rule	☒ Enable
Save Close	

URL Block Item	Value setting	Description
Name	1. String format can be any text 2. A must-fill setting	Specify an URL Blocking rule name. Enter a name that is easy for you to understand.
URL	Blank is set by default	Specify URL, Domain Name, or Keyword list for URL checking.
Source ip	1.A must-fill setting Any is set by default	This field is to specify the Source IP address. Select Any to filter packets coming from any IP addresses. Select Specific IP Address to filter packets coming from an IP address entered in this field. Select IP Range to filter packets coming from a specified range of IP address entered in this field.
Source MAC	Blank is set by default	This field is to specify the Source MAC address .
port	Blank is set by default	This field is to specify the port
Time schedule	1. An optional filled setting 2. (0) Always Is selected by default.	Apply Time Schedule to this rule; otherwise leave it as (0) Always.
Rule	The box is unchecked by default	Check the Enable box to activate this URL Block function

Chapter 5 Administrator

5.1 Manager

Status

Setup

Security

Administrator

Manager

Utility

Logout

FW Upgrade

Password & MMI

Reboot & Reset

SSH

Remote Administrator

Device Management

Firmware Information

FW Version

1.00.00

FW Date

2025/02/13

Firmware Upgrade

FW Path

選擇檔案 未選擇任何檔案

Upgrade Action

Upgrade

Backup Configuration Settings

Backup Configuration Settings

Download

Via Web UI

5.1.1 FW Upgrade

Firmware Information	
FW Version	00009A0.N51_a51.0000_05181400
FW Date	2023/05/18

Firmware Information		
Item	Value setting	Description
FW Version	N/A	It displays the firmware version of the product
FW Date	N/A	It displays the build time of the firmware

Firmware Upgrade

FW Path

選擇檔案 未選擇任何檔案

Upgrade Action

Upgrade

Firmware Upgrade		
Item	Value setting	Description
FW Path	N/A	Select firmware file to be upgraded
Upgrade Action	N/A	Click Upgrade button to start upgrade process with selected FW

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Backup Configuration Settings		
Backup Configuration Settings	Download	Via Web UI

Item	Value setting	Description
Backup Configuration Settings	Download is selected by default	You can backup or restore the device configuration settings by clicking the Via Web UI button. Download: for backup the device configuration to a config.bin file. Upload: for restore a designated configuration file to the device. Via Web UI: to retrieve the configuration file via Web GUI.

5.1.2 Password & MMI

Username	
Username	admin
New Username	

Item	Value Setting	Description
Username	1. The default username is 'admin'.	Display the current username for the administrator
New Username	String: any text	Enter the new username

Password	
Old Password	
New Password	
New Password Confirmation	

(NOTE: The password must be at least 10 characters long, and must contain at least 1 English letter and 1 number. The password cannot be the same as the login account.)

Item	Value Setting	Description
Old Password	1. String: any text 2. The default password for web-based MMI is 'admin'.	Enter the current password to enable you unlock to change password.
New Password	String: any text	Enter new password
New Password Confirmation	String: any text	Enter new password again to confirm

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MMI	
Login	Password-Guessing Attack & MAX: 3 (times)
Login Timeout	☐ Enable 300 (seconds)

MMI Item	Value setting	Description
Login	3 times is set by default	Enter the login trial counting value. <u>Value Range:</u> 3 ~ 10. If someone tried to login the web GUI with incorrect password for more than the counting value, an warning message “ <i>Already reaching maximum Password-Guessing times, please wait a few seconds!</i> ” will be displayed and ignore the following login trials.
Login Timeout	The Enable box is checked, and 300 is set by default.	Check the Enable box to activate the auto logout function, and specify the maximum idle time as well. <u>Value Range:</u> 30 ~65535.

5.1.3 Reboot & Reset

FW Upgrade	Password & MMI	Reboot & Reset	SSH	Remote Administrator	Device Management
System Operation					
Reboot		Now Reboot			
Reset to Default		Reset			
Save					

System Operation Item	Value setting	Description
Reboot	Now is selected by default	Click the Reboot button to reboot the gateway immediately or on a pre-defined time schedule. Now: Reboot immediately Time Schedule: Select a pre-defined auto-reboot time schedule rule to reboot
Reset to Default	N/A	Click the Reset button to reset the device configuration to its default value.

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5.1.4 SSH

FW Upgrade

Password & MMI

Reboot & Reset

SSH

Remote Administrator

Device Management

Configuration

SSH

LAN ☐ Enable WAN ☐ Enable Service Port:

Save

SSH Item	Value Setting	Description
SSH	1. Default value is disable such service 1. By default Service Port is 22.	Check the Enable box to activate the SSH Telnet function for connecting from LAN or WAN interfaces. You can set which number of Service Port you want to provide for the corresponding service. <u>Value Range:</u> 1 ~65535.

5.1.5 Remote Administrator

FW Upgrade

Password & MMI

Reboot & Reset

SSH

Remote Administrator

Device Management

Remote Administrator Host Definition

Remote Administrator Host Definition

Add

Remote Administrator Host Definition Item	Value setting	Description
Remote Administrator Host Definition	N/A	Press "Add" to set a remote administrator rule

5G M2M PoE Modem

Rule Configuration

Name		
Protocol	HTTP	
Remote IP	Any IP	
Subnet Mask	255.0.0.0 (/8)	
Service Port	80	
Rule	☐ Enable	

Rule Configuration		
Item	Value setting	Description
Name	String: any text	Set rule name
Protocol	HTTP is set by default	Select HTTP or HTTPS method for router access.
Remote IP	A must-fill setting Any IP by default	This field is to specify the remote host to assign access right for remote access. Select Any IP to allow any remote hosts Select Specific IP to allow the remote host coming from a specific subnet.
Subnet Mask	255.0.0.0/8 by default	When Select Specific IP to allow the remote host coming from a specific subnet.
Service Port	1. 80 for HTTP by default	This field is to specify a Service Port to HTTP or HTTPS connection.
Rule	The box is unchecked by default.	Click Enable box to activate this rule.

5.1.6 Device management

Configuration

Device Management	☐ Enable
Input Service URL	
Input Server IP STUN traffic	
Self-Certification	☒ Enable

Configuration

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Item	Value setting	Description
Device management	The box is unchecked by default	Check the Enable box to activate this Device management function
Input service URL	Blank is set by default	Specify ANMS service domain name URL
Input server ip stun traffic	Blank is set by default	Specify ANMS server public ip or domain name
Self-certification	The Enable box is checked by default	Check the Enable box to activate this Self-certification function

5.2 Utility

Status

Setup

Security

Administrator

Manager

Utility

Logout

SMS

Command Script

System Log

SMS Service

SMS

SMS Storage

Free Space

Event Management

SMS Forward Management

SMS Summary

New SMS

Received SMS

Action

Save

5.2.1 SMS

SMS Service

SMS

SMS Storage

Free Space

Event Management

SMS Forward Management

Enable

SIM

0

(0-10)

Enable

Edit

Enable

Edit

SMS service		
Item	Value Setting	Description
SMS	The box is unchecked by default	Check the Enable box to activate this SMS function Click Add will pop-up MAC control rule configuration page

5G M2M PoE Modem

SMS storage	SIM by default	Select SIM or modem storage
Free space	0 by default	Specify a number (1-10) for message count to reserve some available storage space and prevent it from run out of storage.
Even management	The box is unchecked by default	Check the Enable box to activate this SMS function Click edit will pop-up account configuration page
SMS forward management	The box is unchecked by default	Check the Enable box to activate this SMS function Click edit will pop-up sms forward configuration page

Account Configuration

Phone Number#1	
Application	☐ Managing ☐ Notifying
Enable	☐
Phone Number#2	
Application	☐ Managing ☐ Notifying
Enable	☐

Managing Events

Cellular Status	☐ Enable
Cellular Reconnect	☐ Enable
Reboot	☐ Enable

Notifying Events

Cellular Connected	☐ Enable
Cellular Disconnected	☐ Enable

Account Configuration		
Item	Value Setting	Description
Phone number#1	The box is unchecked by default	Sender Phone Number for the received SMS
Application	The box is unchecked by default	Check the Enable box to activate this SMS function Check the Enable box to activate this SMS function
Enable	The box is unchecked by default	Check the Enable box to activate this SMS function
Phone number#2	The box is unchecked by default	Sender Phone Number for the received SMS

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Application	The box is unchecked by default	Check the Enable box to activate this Managing Event function Check the Enable box to activate this Notifying Events function
Enable	The box is unchecked by default	Check the Enable box to activate this SMS function

Managing Event Item	Value Setting	Description
Cellular Status	The box is unchecked by default	Check the Enable box to activate this SMS notification function
Cellular Reconnect	The box is unchecked by default	Check the Enable box to activate this SMS notification function
Reboot	The box is unchecked by default	Check the Enable box to activate this SMS notification function

Notifying Events Item	Value setting	Description
Cellular Connected	The box is unchecked by default	Check the Enable box to activate this SMS notification function
Cellular Disconnected	The box is unchecked by default	Check the Enable box to activate this SMS notification function

SMS Forward Configuration

Phone Number

Enable

☐

Save

Close

SMS Forward Configuration Item	Value Setting	Description
Phone number	1. A must-fill setting 2.Any string	Sender Phone Number for the received SMS
Enable	The box is unchecked by default	Check the Enable box to activate the SMS function.

SMS Summary		
New SMS	0	
Received SMS	0	
Action	New SMS SMS Inbox	

5G M2M PoE Modem

SMS Summary		
Item	Value setting	Description
New SMS	N/A	show new SMS number
Received SMS	N/A	show Received SMS number
Action	N/A	Click new SMS will pop-up new sms page Click sms inbox will pop-up sms inbox page

New SMS

Receiver

(Use '+' for International Format and ';' to Compose Multiple Rec
eivers)

Text Message

Current Input Length: 0/512

Action

Send

Clear

Close

New SMS		
Item	Value setting	Description
Remote Administrator Host Definition	N/A	Write the receivers to send SMS. User need to add the semicolon and compose multiple receivers that can group send SMS.
Text Message	N/A	Write the SMS context to send SMS.
Action		Click the Send button, above text message will be sent as a SMS. Click the Clear button, to clear text message

SMS Inbox		
None		
SMS Inbox		
Item	Value setting	Description
none	N/A	read or delete SMS, reply SMS or forward SMS from this screen.

5.2.2 Command Script

Command Script

Command Script

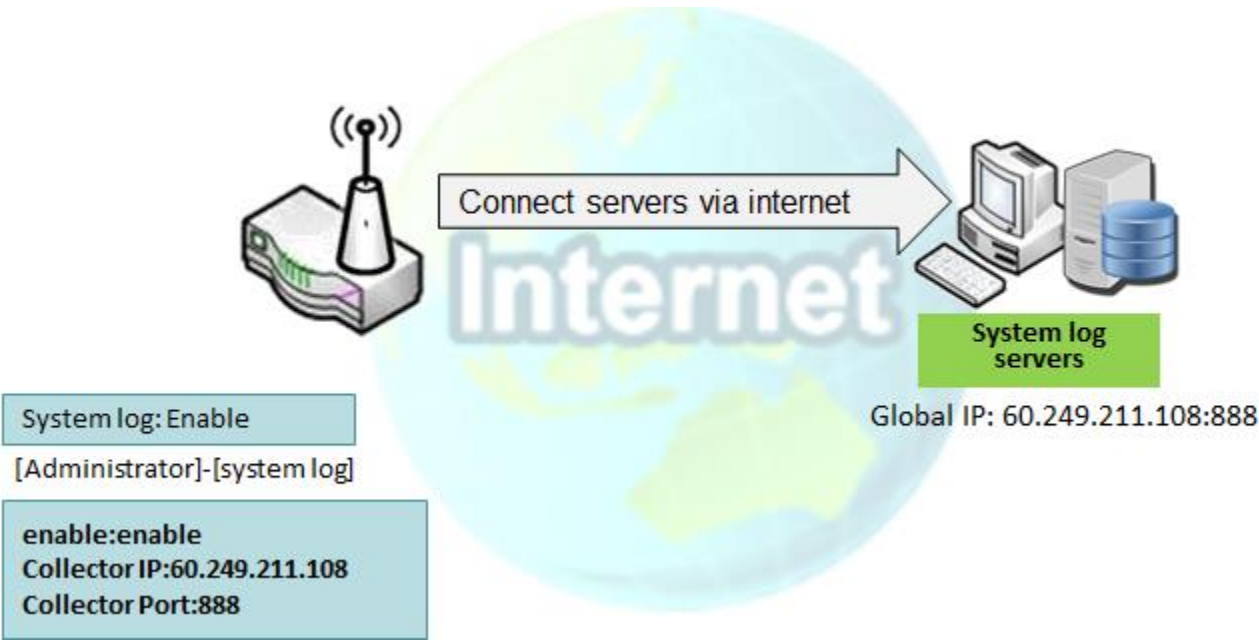
0 / 4096

Enable

☐ Enable

Command Script Item	Value Setting	Description
Command Script	1.An optional setting 2.Any string	Enter a short description for the applied Command Script.
Enable	The box is unchecked by default	Check the Enable box to activate the Command Script function.

5.2.3 System log



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System Log	
Enable	☒ Enable
Collector IP	60.249.211.108
Collector Port	4244

System Log Item	Value Setting	Description
Enable	The box is unchecked by default	Check the Enable box to activate the system log function
Collector IP	0.0.0.0 by default	Specify System log server IP
Collector Port	0 by default	Specify System log server port