

Version 1.00 | 01/16/2025



User Manual

5G M2M Modem

DWM-311-G

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Chapter 1 Introduction

1.1 Introduction

Congratulations on your purchase of D-Link's 5G M2M modem. With this 5G M2M 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.

1.2 Contents List

1.2.1 Package Contents #Standard Package

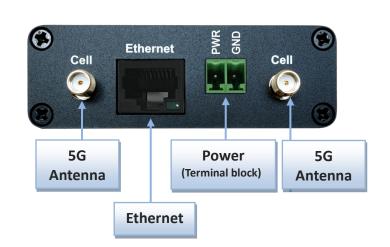
Items	Description	Contents	Quantity
1	DWM-311-G 5G M2M Modem	en Cen	1pc
2	Cellular Antenna		4pcs
3	RJ45 Cable		1pc
4	Power Adater (DC 12V/1A)		1pcs

#Optional Package

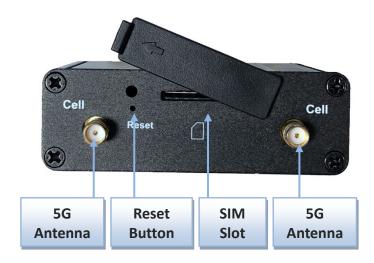
Items	Description	Contents	Quantity
1	Wall mount kit	left	1 set
2	DIN rail kit		1 set (DIN rail: screw x3)

1.3Hardware 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 when the Cell/PDP LED (blue and red) flashes alternately for 3~4 seconds, and then release it. The device will restore to factory default settings.



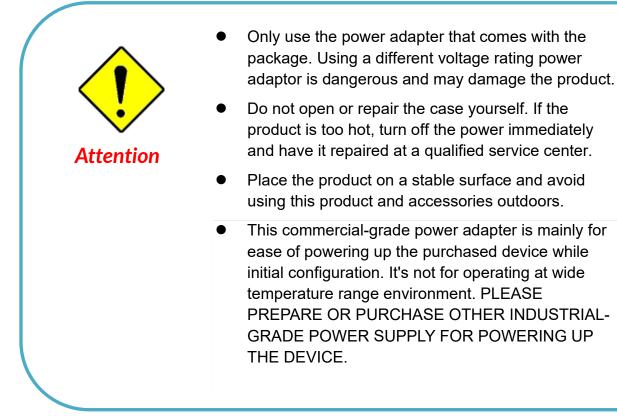
Indication	LEDColor	Description
D Power	Blue	Steady On : Device power is on Off : Device power is off
Cell/PDP	Blue Red	Red and Steady On: Cellular is not registered to network. Red and Flash: Cellular is registering to network. Blue and Steady On: The device registers to 5G network. Blue and Slow Flash: The device registers to LTE or3G network.
Ill Signal Strength	Blue	Blue and Steady On: Cellular signal is good. Blue and Slow Flash: Cellular signal is weak. OFF: No cellular signal.

1.5 Installation& MaintenanceNotice

1.5.1 SYSTEM REQUIREMENTS

Network Requirements	 AEthernet RJ45cable 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



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 thattowhich the receiver isconnected.
- 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 comply 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 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!!

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

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) Frequency Band & Maximum Power

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 device 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 middlearea of device. You need to remove the outer SIM card cover before installing or removing an inserted SIM card. Please follow below instructions to installor removea SIM card. After SIM card is well installed or removed, put back the outer SIM card cover.

Step 1: Remove SIM cover Remove the SIM cover from left side.



Step 3: Insert a SIM Push the SIM card into the SIM slot.



Step 4: Put Back SIM cover Put back the SIM cover



1.6.3 Connecting to the Network or a Host

The DWM-311-G 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.

A <u>d</u> dress	🕘 192.168.0.1	•	🔁 Go 🛛

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

Login
Welcome to the router configuration interface.Enter the password and click 'Login'
Username
Password
Password
Login

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 Setup

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

2.1 Network

🚯 Status	~	DeviceMode Cellular Ethernet Port Forwarding DDNS
< Setup	^	
Network		Device Mode
System		Device Mode Modem
Administrator	~	Save
🕩 Logout		

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.
DDNS	Register a dynamic host name for the unit.

2.1.1 Device Mode

DeviceMode	Cellular	Ethernet	Port Forwarding	DDNS	
Device Mode					
Device Mode			Modem	•	
Save					

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

2.1.2 Cellular

Device Mode	Cellular	Ethernet	Port Forwarding	DDNS			
Cellular Acce	SS						
APN			Manual	~			
Manual APN							
Username							
Password							
Authentication	l.		Auto	~			
IP Туре			IPv4	~			
IP Mode			Dynamic IP	~	Static IP Config	g	
PIN Code							
MTU Setup			🗆 Enable	(68~1500)			
Keep Alive			Enable				(22111122 -)
			IP Address : 8.8.8	.8	Int	terval : 60	(2~14400 seconds)
Roaming			🗆 Enable				
Discard Ping fro	om WAN		🗆 Enable				

Device Mode		
Item	Value setting	Description
APN	 A Must filled setting 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	 A Must filled setting String format : any 	Enter the APN you want to use to establish the connection. This is a must-filled setting if you selected Manual APN as APN scheme.
Username	text 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	 A Must filled setting By default Auto is selected 	Select PAP (Password Authentication Protocol) and use such protocol to be authenticated with the carrier's server. 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 Туре	 A Must filled setting 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	 A Must filled setting By default Dynamic IP is selected 	Dynamic IP The unit will get IP from cellular service Static IP The unit will set IP according Static IP Config.	
PIN Code	 An Optionalsetting String format : interger 	Enter the PIN (Personal Identification Number) code if it needs to unlock your SIM card.	
MTU Setup	 AnOptional setting 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	 An optional setting 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.	
Roaming	 AnOptional setting Uncheck by default 	Check the checkbox to enable the modem to connect on the cellular network at roaming state.	
Discard Ping from WAN	 AnOptional setting Uncheck by default 	The modem will not respond the ICMP request packet from remote hosts when the checkbox is checked.	

Static IP Configuration

IP	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)

Save Close

Static IP Configuration Value setting Description 1. IPv4 format. IP The Static IP Address setting of this unit. 2. A Must filled setting 255.255.255.0 (/24) is Subnet Mask The Subnet Mask of this configed static IP. set by default 1. IPv4 format. **Default Gateway** Thegateway setting of this configed static IP. 2. AnOptional setting **Primary DNS** 1. IPv4 format. Assigned DNS server of this configed static IP.

	2. AnOptional setting	
Secondary DNS	 IPv4 format. AnOptional setting 	Assigned DNS server of this configed static IP.

2.1.3 Ethernet

DeviceMode	Cellular	Ethernet	Port Forwarding	DDNS		
Ethernet IP						
IP		192.168.123.	192.168.123.254			
Netmask			255.255.255	255.255.255.0 (/24)		
DHCP Server		🛃 Enable	✓ Enable			
DHCP Setting		DHCP Co	DHCP Config			
					Save	

Ethernet IP		
ltem	Value setting	Description
IP	1. IPv4 format.	The LAN IP Address of this unit.
IF	2. A Must filled setting	The LAN IP Address of this dhit.
Netmask	255.255.255.0 (/24) is	The Subnet Mask of this unit.
Netillask	set by default	
DHCP Server	The box is checked by	Click Enable box to activate DHCP Server.
DHCF Server	default.	
DHCP Setting	N/A	Click DHCP Configbutton 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	 Numberic string format. A Must filled setting 	The IP Pool of this DHCP Server. It is Starting Address entered in this field.
IP Pool End	 Numberic string format. A Must filled setting 	The IP Pool of this DHCP Server. It is Ending Address entered in this field.
Lease Time	 Numberic string format. A Must filled setting 	The Lease Time of this DHCP Server. <u>Value Range</u> : 300 ~ 604800 seconds.

2.1.4 Port Forwarding



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

Virtual Server Rule Configuration			
Name			
Server IP			
Source IP	Any 🔻		
Protocol	TCP(6) •		
Public Port	Single Port 🔻		
Private Port	Single Port 🔻		
Rule	Enable		
	Save Close		

Virtual Server F	Rule Configuration	
Item	Value setting	Description
Name	 String format can be any text A Must filled setting 	The name of current rule
Server IP	A Must filled setting	This field is to specify the IP address of the interface selected in the WAN Interface setting above.
Source IP	 A Must filled setting 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 filled settin	 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. Value Range: 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.
		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.
		Value Range: $1 \approx 65535$ 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.
	1. Anoptional filled	
Dula	setting	
Rule	2.The box isunchecked	Check the Enable box to activate the rule.
	by default.	
	· ·	

Rule Name	
test	Edit Delete
Virtual Server – Rule I	ame
Item \	alue setting Description

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

2.1.5 DDNS

DeviceMode	Cellular	Ethernet	Port Forwarding	DDNS	
Configuration					
DDNS			🗆 Enable	2	
Provider			DynDNS.org	org Y	
Host Name					
User Name /	E-Mail				
Password / K	еу				
				Save	

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	 String format can be any text A Must filled setting 	Your registered host name of DDNS Service. <u>Value Range</u> :0 ~ 63 characters.
User Name / E-Mail	 String format can be any text A Must filled setting 	Enter your User name or E-mail addresss of DDNS Service.
Password / Key	 String format can be any text A Must filled setting 	Enter your Password or Key of DDNS Service.

2.2 System

This section provides the configuration of system features.

2.2.1 System Time

System Time Language System I	nformation Scheduling
System Time	
Current Time	Fri Jan 1 01:17:07 2021
Sync Time	Auto 🗸
Time Zone	(GMT+00:00) Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London
NTP Server	pool.ntp.org
Daylight Saving	🗆 Enable
Start Date	1 🗸 / 1 🖌 / 0 🗸 (Month/Day/Hour)
End Date	1 🗸 / 1 🖌 / 0 🗸 (Month/Day/Hour)
Action	Action

Device Mode		
Item	Value setting	Description
Current Time	N/A	Show the current time of the unit.
Sync Time	 A Must-filled item. Atuo is selected by default. 	When select Auto , unit will sync the time via cellular cell,and 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	 A Must-filled item. GMT+00 :00 is selected by default. 	Select a time zone where this device locates.
NTP Server	1. A Must-filled item.	Indicate which NTP server will be used of the time synchronization.
Daylight Saving	 It is an optional item. 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 Date for the daylight saving time duration.
Start Date	N/A	Start time for Daylight Saving.
End Date	N/A	End Time of Daylight Saving.
Action	N/A	Click Action to sync time immediately

2.2.2 Language

System Time	GNSS	Language	System Information	Scheduling
Configuratio	on			
Language Lis			English	-
				Save

Language		
Item	Value setting	Description
	1. A Must-filled item.	Language setiing of the WebGUI.
Language List	2. English is selected by	
	default.	

2.2.3 System Information

System Time	Language	System Information	Scheduling
System Information			
Model Name	e	DWM	-311-G A2

System Informatio	n	
ltem	Value setting	Description
Model Name	DWM-311-G	Show the model name of the device

2.2.4 Scheduling

System Time	GNSS	Language	System Information	Scheduling
Time Sched	ule			
Time Schedu	ıle		Add	

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

Time Schedule Configuration				
Rule Name				
Rule Policy	The Selected Days and Hours Below.			
Time Period Definition				
Week Day	Every Day 🔻			
Start Time (hh:mm)				
End Time (hh:mm)				
	Save			

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	
End Time	Time format (hh :mm)	End time in selected weekday	

Chapter 3 Administrator

3.1 Manager

3.1.1 FW Upgrade

🚯 Status	~	FW Upgrade	Password & MMI	Reboot & Reset	SSH	Remote Administrator	Device Management		
< Setup	~								
Security	~	Firmware I	nformation		-	_	_		
Administrator	~	FW Version FW Date		v2.00.003 2023/10/					
Manager				2023/10/	19				
▶ Utility		Firmware U	Firmware Upgrade						
🕩 Logout		FW Path							
		Upgrade Act	Upgrade Action			Upgrade			
		Backup Cor	Backup Configuration Settings						
		Backup Con	figuration Settings	Download Via Web		~			
Firmware Inf	ormatic	on							
Item		Value sett	ing	Description					

ltem	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	:	
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

Backup Configuration Settings			
Item	Value setting	Description	
Backup Configuration	NI / A	Select "Download" to backup current configuration to a file.	
Settings	N/A	Select "Upload" to restore configuration from selected file.	

3.1.2 Password & MMI

FW Upgrade Pa	assword & MMI	Reboot & Reset	SSH	Remote Administrator	
Username					
Username		admin			
New Username					
				Save	
Password					
Old Password					
New Password					
New Password Con	firmation				
(NOTE: The password mus	t be at least 10 characte	rs long, and must contain	at least 1 Er	nglish letter and 1 number. The pa	assword cannot be the same as the login account.)
			l	Save	
ммі					
Login		Password-Gue	essing Att	ack & MAX: 3 (tir	nes)
Login Timeout		🔽 Enable 🗄	00 (seconds)	

Username		
ltem	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
Save	N/A	Click Save button to save the settings

Password		
Item	Value setting	Description
Old Password	 String: any text The default password for web-based MMI is 	Enter the current password to enable you unlock to change password.

	ʻadmin'.	
New Password	String: any text	Enter new password
New Password Confirmation	String: any text	Enter new password again to confirm
Save	N/A	Click Save button to save the settings

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</i> <i>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.

3.1.3 Reboot & Reset

FW Upgrade	Password & MMI	Reboot & Reset	SSH	Remote Administrator	AT & NMEA
System Operation					
Reboot		Now	~	Reboot	
Reset to Defa	ault	Reset			
				Save	

Device Mode		
Item	Value setting	Description
Reboot	N/A	Chick the Reboot button to reboot the unit immediately
Reset to Default	N/A	Click the Reset button to reset the device configuration to its default value.

3.1.4 SSH

SSH Item SSH	Value setting 1. Default value is disable such service 1. By default Service Port is 22.		Description 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. Value Range: 1 ~65535.		
FW Upgrade	Password & MMI	Reboot & Reset	SSH	Remote Administrator	
Configuration					
SSH	LAN Enable WAN Enable Service Port: 22		: 22		

3.1.5 Remote Administrator

	FW Upgrade	Password & MMI	Reboot & Reset	SSH	Remote Administrator	
	Remote Administrator Host Definition					
	Remote Admin Definition	istrator Host	Add			
-						
R	Remote Administrator Host Definition					
l	tem	Value sett	ing De	scriptio	n	
	emote Administ ost Definition	rator N/A	Pre	ss "Add" to	o set a remote administrato	r rule

Rule Configuration	
Name	
Protocol	HTTP T
Remote IP	Any IP
Subnet Mask	255.0.0.0 (/8)
Service Port	80
Rule	Enable
	Save Close

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 filled setting	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	N/A	An IP address entered in this field and a selected Subnet Mask to compose the subnet if Remote IP set in Specific IP.	
Service Port	1. 80 for HTTP by default 2. 443 for HTTPS by default	This field is to specify a Service Port to HTTP or HTTPS connection. <u>Value Range</u> :1 ~ 65535.	
Rule	The box is unchecked by default.	Click Enable box to activate this rule.	

Chapter 4 Status

4.1 Cellular

🕐 Status	^	Network Modem Signal	
Cellular	j		
Security		IPv4 Network	
< Setup	~	Mode	NAT
🐣 Administrator	~	Link Status	Connected
🕞 Logout		IP Address	10.249.247.27
		Netmask	255.255.258
		Gateway	10.249.247.28

4.1.1 Network

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

4.1.2 Modem

🚯 Status	^	Network Modem Signal	Network Modem Signal		
Cellular		Modem Information			
Security		IMEI	357748929006115		
Setup	~	FW Version	RM520NEUDAR03A06M4G_0CPU_20230515A		
U Security	~	Advanced Information	Advanced		
Administrator	~				
🗭 Logout		Service Information			
		SIM	SIM-A		
		SIM Status	SIM card not insert		
		Register Status	N/A		
		Operator			
		Service Type			
		Band			
		Advanced Information	Advanced		

Modem information Page		
Item	Description	
IMEI	Display modem IMEI information	
FW version	Display modem fw version	

Advanced Information Clicl"advanced" button to show Advanced Information

Advanced information		
IMEI	868371050045414	
Temperature	57 °C	
4G Band Capability	1:2:3:4:5:7:8:12:13:14:17:18:19:20:25:26:28:29:30:32:34:38:39:4 0:41:42:43:46:48:66:71	
5G Band Capability	1:2:3:5:7:8:12:13:14:18:20:25:26:28:29:30:38:40:41:48:66:70:71:7 5:76:77:78:79	

Close

Advanced Inf	Advanced Information Page		
Item	Description		
IMEI	Display modem IMEI information		
Temperature	Module temperature		
4G Band capabi	lity 4G support band		
5G Band capabi	lity 5G support band		

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

Service information Page		
Item	Description	
Sim	Display card slot	
Sim status	Display read sim status	
Register status	Display base station registration status registered or not register	
Operator	Operator name	
Service type	Display LTE /5G	
Band	Connected frequency band	
Advanced Information	Clicl"advanced" button to show Advanced Information	

Advanced information	
мсс	466
MNC	92
Roaming	No
Cell ID	965E40E
Band	Band 7
LAC	0
TAC	36400

Close

Advanced Information Page	
ltem	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

4.1.3 Signal

🚯 Status	^	Network Modem Signal	
Cellular			
Security		Cellular Signal	
🔦 Setup	~	Service Type	LTE
占 Administrator	~	Operator	Chunghwa Telecom
🕩 Logout		RSSI	-73
		Advanced Information	Advanced

Cellular Signal Pag	e
Item	Description
Service type	Cellular service type LTE /5G
Operator	Operator name
RSSI	Display Received Signal

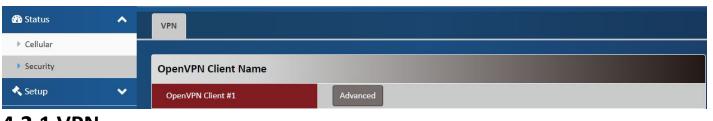
Advanced Information Clicl"advanced" button to show Advanced Information

Advanced information		
RSSI	-73	
RSRP	-103	
RSRQ	-12	
SINR	1.40	
RSCP	0	
ECIO	0	

Close

Advanced Information Page		
Item	Description	
RSSI	Display Received Signal	
RSRP	Display Signal ReceivedPower	
RSRQ	Display Signal ReceivedQuality	
SINR	Display Interference Strength	
RSCP	Display Signal ReceivedPower	
ECIO	Display interference Ratio	

4.2 Security



4.2.1 VPN



ltem

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Description

Openvpn client #1 Clicl"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	
Conn.Status	Disconnected	

Close

Advanced Information Page	
Item	Description
Openvpn client name	Vpn Client name
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