IDG400-0TE0C (LTE cat. 4)

User Manual



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Chapter 1 Introduction

1.1 Introduction

Congratulations on your purchase of AMIT's IDG400 M2M Cellular Modem. With this AMIT cellular 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 3G/4G WAN connection.
- Provide one Giga-Ethernet port for comprehensive LAN connection.
- Simple Web GUI is used for basic setting and check the 3G/4G 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	IDG400-0TE01 4G Modem	No. Ass	1pcs
2	Cellular Antenna		2pcs
	MicroUSB Cable	Sales Control of the	1pcs
4	RJ45 Cable		1pcs

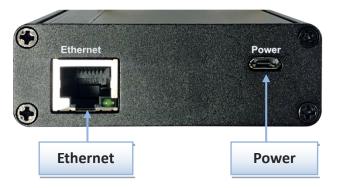
#Optional Package

Items	Description	Contents	Quantity
1	Extender		1pcs or 2 pcs (1 pcs needed for din-rail and 2 pcs needed for wall-mount)
2	DIN-Rail Bracket		1pcs
3	WALLMOUNT	8/8	2pcs/set
4	DC TO Micro USB		1pcs

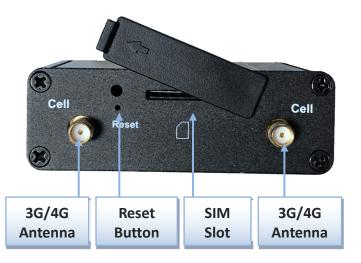
5	Power Adapter	1pcs
6	Plug(US/EU/AU/UK)	1PCS

1.3 Hardware Configuration

Left View



Right View



※Reset Button

RESET button provides user a quick and easy way to resort the default setting. Press the RESET button continuously for 6 seconds, and then release it. The device will restore to factory default settings.

1.4 LED Indication



Indication	LED Color	Description
O Power	Blue	Steady On: Device power is on Off: Device power is off
Status	Blue Red	Red Steady on: Cellular is not ready or no cellular signal. Red Flash: Cellular is ready but register status is not ready. Blue Steady On: The signal is ready and regists to operator. Blue Fast Flash: State on LTE. Blue Slow Flash: State on 3G.

1.5 Installation & Maintenance Notice

1.5.1 SYSTEM REQUIREMENTS

· · · · · · · · · · · · · · · · · · ·	
	A fast Ethernet RJ45 cable
Network Requirements	3G/4G cellular service subscription
	10/100/1000 Ethernet adapter on PC
	Computer with the following:
	Windows®, Macintosh, or Linux-based operating
	system
Web-based Configuration Utility	An installed Ethernet adapter
Requirements	Browser Requirements:
	Internet Explorer 10.0 or higher
	Chrome 73 or higher
	Firefox 60.0 or higher

1.5.2 WARNING



- Only use the power cable that comes with the package.
- Over voltage rating 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.
- Place the product on a stable surface and avoid using this product and accessories outdoors.

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 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

(1) Frequency Band & Maximum Power

1.a Frequency Band for Cellular Connection (for EC25-EU version)

Band number	Operating Frequency	Max output power
LTE FDD BAND 1	Uplink: 1920-1980 MHz	23.1 dBm
	Downlink: 2110-2170 MHz	23.1 ((b)))
LTE FDD BAND 3	Uplink: 1710-1785 MHz	23.0 dBm
	Downlink: 1805-1880 MHz	23.0 00111
LTE FDD BAND 7	Uplink: 2500-2570 MHz	22.8 dBm
	Downlink: 2620-2690 MHz	22.8 00111
LTE FDD BAND 8	Uplink: 880-915 MHz	23.2 dBm
	Downlink: 925-960 MHz	25.2 UBIII
LTE FDD BAND 20	Uplink: 832-862 MHz	23.5 dBm
	Downlink: 791-821 MHz	25.5 UBIII
LTE FDD BAND 28A	Uplink: 704 -723 MHz	23 dBm
	Downlink: 759 - 778MHz	23 UBIII
LTE FDD BAND 38	Uplink: 2570-2620 MHz	21.7 dBm
	Downlink: 2570-2620 MHz	21.7 UDIII
LTE FDD BAND 40	Uplink: 2300-2400 MHz	21.5 dBm
	Downlink: 2300-2400 MHz	21.5 UBIII
WCDMA BAND 1	Uplink: 1920-1980 MHz	
	Downlink: 2110-2170 MHz	23.3 dBm
WCDMA BAND 8	Uplink: 880-915 MHz	23.3 08111
	Downlink: 925-960 MHz	
E-GSM	Uplink: 880-915 MHz	22.0 dDm
	Downlink: 925-960 MHz	32.9 dBm
DCS	Uplink: 1710-1785 MHz	20.0 dPm
	Downlink: 1805-1880 MHz	29.9 dBm

1.b Frequency Band for Cellular Connection (for Quectel EC25-AF version)

Band number	Operating Frequency	Max output power
LTE FDD BAND 2	Uplink: 1850-1910 MHz	23.86 dBm
	Downlink: 1930-1990 MHz	25.00 08111
LTE FDD BAND 4	Uplink: 1710-1755 MHz	22 02 dDm
	Downlink: 2110-2155 MHz	23.82 dBm
LTE FDD BAND 5	Uplink: 824-849 MHz	23.46 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.

	Downlink: 869-894 MHz	
LTE FDD BAND 12	Uplink: 699-716 MHz	23.75 dBm
	Downlink: 729-746 MHz	25.75 UBIII
LTE FDD BAND 13	Uplink: 777-787 MHz	23.86 dBm
	Downlink: 746-756 MHz	23.80 08111
LTE FDD BAND 14	Uplink: 788-798 MHz	23.86 dBm
	Downlink: 758-768 MHz	23.80 08111
LTE FDD BAND 66	Uplink: 1710-1780 MHz	23.34 dBm
	Downlink: 2100-2200 MHz	25.34 UDIII
WCDMA BAND 2	Uplink: 1850-1910 MHz	
	Downlink: 1930-1990 MHz	
WCDMA BAND 4	Uplink: 1710-1755 MHz	23.3 dBm
	Downlink: 2110-2155 MHz	23.3 UDIII
WCDMA BAND 5	Uplink: 824-849 MHz	
	Downlink: 869-894 MHz	

(2) DoC Information

You can get the DoC information of this product from the following URL: http://www.amitwireless.com/products-doc/

(3) RF Exposure Statements

To comply with RF exposure limits established in FCC, the distance between the antenna or antennas and the user should not be less than 20 cm (7.87").

(4) Unit Mounting Notice

The product is suitable for mounting at heights <= 2m (approx. 6 ft), or in a cabinet. Ensure the unit is fixed tightly to reduce the likelihood of injury due to exposure to mechanical hazards if dropped.

(5) Manufacture Information

Manufacture Name: AMIT Wireless Inc.

Manufacture Address: No. 28, Lane 31, Sec. 1, Huandong Rd., Sinshih Dist., Tainan 74146, Taiwan

1.6 Hardware Installation

This chapter describes how to install and configure the hardware

1.6.1 Mount the Unit

The IDG400 series 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 IDG400 series. 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.





1.6.3 Connecting to the Network or a Host

The IDG400 series provides one RJ45 port to connect to Giga-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.

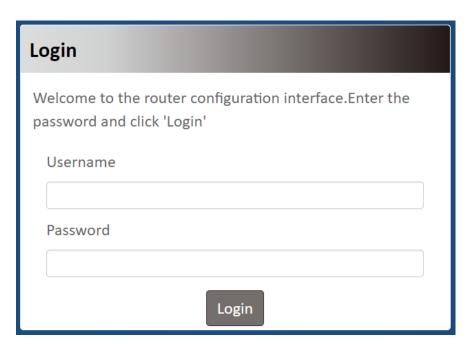
1.6.4 Setup by Configuring WEB UI

You can browse web UI to configure the device.

Type in the IP Address (http://192.168.123.254)²



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



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

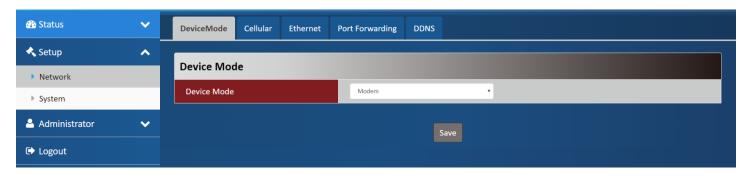
² The default LAN IP address of this gateway is 192.168.123.254. If you change it, you need to login by using the new IP address.

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

Chapter 2 Setup

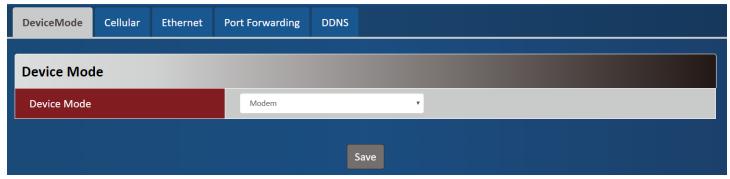
The IDG400 series connect to a machine via giga ethernet interface for 3G/4G network connection. IDG400 series also provides another function with NAT router. It can help the network application more flexible.

2.1 Network



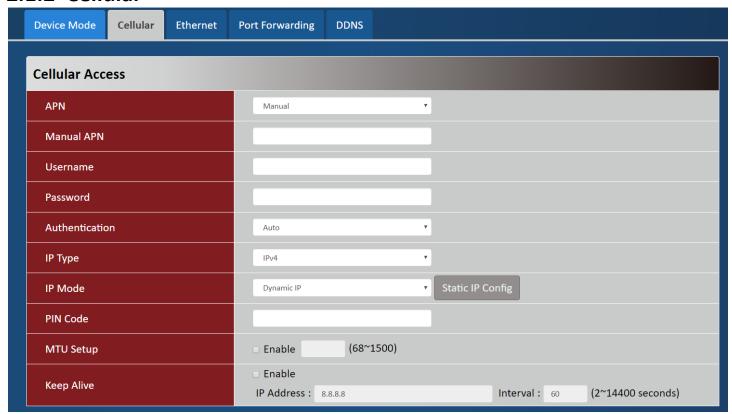
Network Page	
Item	Description
Device Mode	Set the unit operating mode
Cellular	Set the parameter for cellular network.
Ethernet	Set the IP of Ethernet and DHCP service
Port Forwarding	Enable specified port or protocol for service on connected device.
DDNS	Register a dynamic host name for the unit.

2.1.1 Device Mode



Device Mode		
Item	Value setting	Description
Device Mode	 A Must filled setting 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 ethernnet

2.1.2 Cellular



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 text 	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	 An Optional setting String format: any text 	Enter the optional username settings if your ISP provided such settings to you.
Password	 An Optional setting 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 .
ІР 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.

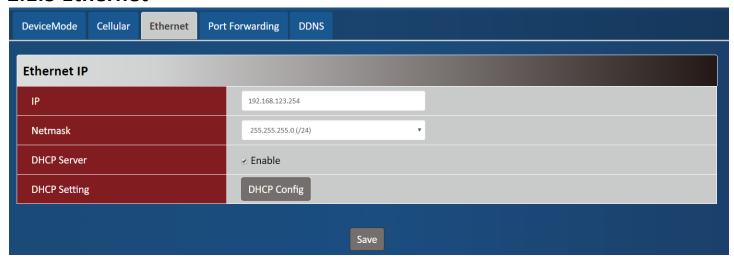
IP Mode	 A Must filled setting By default Dynamic IP s selected 	Dynamic IP The unit will get IP from cellular service Static IP The unit will set IP according Static IP Config.
PIN Code	 An Optional setting String format : interger 	Enter the PIN (Personal Identification Number) code if it needs to unlock your SIM card.
MTU Setup	 An Optional 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.

Static IP Configuration	Static IP Configuration				
IP	0.0.0.0				
Subnet Mask	255.255.255.0 (/24)				
Default Gateway	o.o.o.o (Optional)				
Primary DNS	o.o.o.o (Optional)				
Secondary DNS	0.0.0.0 (Optional)				

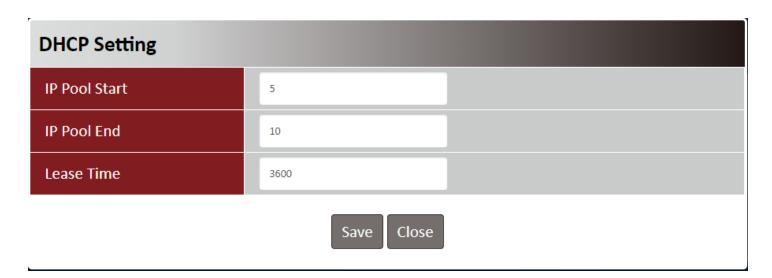


Static IP Configuration		
Item	Value setting	Description
IP	1. IPv4 format.	The Static IP Address setting of this unit.
	2. A Must filled setting 255.255.255.0 (/24) is	
Subnet Mask	set by default	The Subnet Mask of this configed static IP.
Default Gateway	1. IPv4 format.	The gateway setting of this configed static IP.
Delault Gateway	2. An Optional setting	The gateway setting of this configed static ir.
Primary DNS	1. IPv4 format.	Assigned DNS server of this configed static IP.
Filliary DN3	2. An Optional setting	Assigned DNS server of this configed static ip.
Secondary DNS	1. IPv4 format.	Assigned DNS server of this configed static IP.
Secondary DNS	2. An Optional setting	Assigned Divo server of this configed static IP.

2.1.3 Ethernet



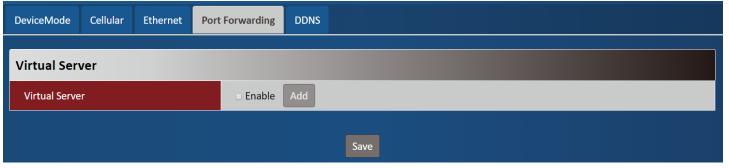
Ethernet IP		
Item	Value setting	Description
IP	1. IPv4 format.	The LAN IP Address of this unit.
	2. A Must filled setting	
Netmask	255.255.255.0 (/24) is	The Subnet Mask of this unit.
- Tetinosk	set by default	The Subhet Wask of this unit.
DHCP Server	The box is unchecked by	Click Enable box to activate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



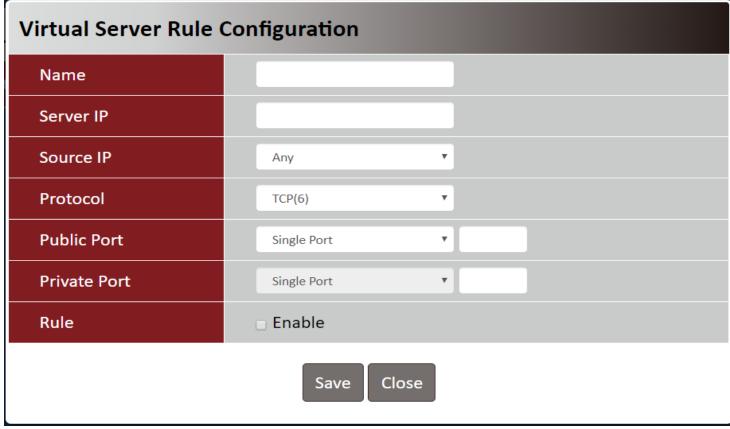
DHCP Setting		
Item	Value setting	Description
	1. Numberic string	
IP Pool Start	format.	The IP Pool of this DHCP Server. It is Starting Address entered in this field.
	2. A Must filled setting	

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 Sei Vei	default	Click Add will pop-up Virtual Server Rule Configuration page.



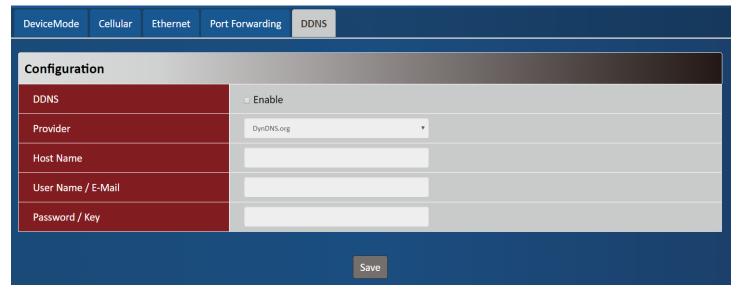
1. String format can be any text	Virtual <u>Server</u> R	Rule Configuration	
1. String format can be any text 2. A Must filled setting Server IP A Must filled setting This field is to specify the IP address of the interface selected in the WAN Interface setting above. This field is to specify the Source IP address. Source IP 2. By default Any is Select Any to allow the access coming from any IP addresss. Select IP Range to allow the access coming from an IP address. Select Breaffile IP Address to allow the access coming from an IP address. Select Pecific IP Address to allow the access coming from an IP address. Select Pecific IP Address to allow the access coming from an IP address. Select Pecific IP Address to allow the access coming from an IP address. Select Pecific IP Address to allow the access coming from an IP address. Select Pecific IP Address to allow the access coming from an IP address. Select Pecific IP Address to allow the access coming from an IP address. Select Pecific IP Address to allow the access coming from an IP address. Select Pecific IP Address to allow the access coming from an IP address. Select Pecific IP Address to allow the access coming from an IP address. Select Pecific IP Address to allow the access coming from an IP address. Select Pecific IP Address to allow the access coming from an IP address. Select Pecific IP Address to allow the access coming from an IP address. Select Pecific IP Address to allow the access coming from an IP address. Select Pecific IP Address to allow the access coming from an IP address. Select Pecific IP Address to allow the access coming from an IP address. Select Selected IP Address to allow the access coming from an IP address. Select Selected IP Address to allow the access coming from an IP address. Select Selected Single Port and specify a port number, and Private Port can be set a Single Port or Port Range. Yolue Range: 1 ~ 65535 for Public Port, Private Port. When "CP(6) & UDP(27)" is selected It means the option "Protocol" of packet filter rule is TCP and UDP. Public Port is selected Single Por			Description
Interface setting above. This field is to specify the Source IP address.	Name	 String format can be any text 	
Source IP 2. By default Any is selected 2. By default Any is selected 3. Elect Specific IP Address to allow the access coming from an IP address. Select IP Range to allow the access coming from an IP address. 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 number. Public Port is selected Port Range and specify a port number, and Private Port can be set a 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 is the same with Public Port number. Port is the same with Public Port and specify a port number, and Private Port is the same with Public Port number. Port can be set a Single Port number. Public Port is selected Single Port number. Public Port is selected Fort Range 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 set a Single Port or Port Range. Value Range: 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 is selected a predefined port from Well-known Service, and Private Port is the same with Public Port number. Public Port is selected Single Port or Port Range. Value Range: 1 ~ 65535 for Public Port, Private Port. When "User-defined" is selected It means the option "Protocol" of packet filter rule is U	Server IP	A Must filled setting	
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 and specify a port number, and Private Port can be set a Single Port and specify a port range, and Private Port can be set a Single Port number. Public Port is selected Port Range and specify a port range, and Private Por 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 is selected a predefined port from Well-known Service, and Private Port can be set a Single Port number. Public Port is selected Port Range and specify a port number, and Private Port can be set a Single Port or Port Range. Value Range: 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 is the same with 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 is the same with Public Port number. Public Port is selected Port Range and specify a port number, and Private Port is the same with Public Port number. Public Port is selected Port Range and specify a port number, and Private Port is the same with Public Port number. Public Port is selected Port Range and specify a port number, and Private Port is the same with Public Port number. Public Port is selected Port Range and specify a port number, and Private Port is the same with Public Port number. Public Port is selected Port Range and specify a port number, and Private Port is selected Port Range and specify a port number, and Private Port is selected Port Range and specify a port number, and Private Port is selected Port Range and specify a port number, and Private Port is selected Port Range and specify a port number, and Private Port is selected Port Range and specif	Source IP	2. By default Any is	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
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For Protocol Number , enter a port number.	Protocol	A Must filled settin	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 "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 ~ 65535 for Public Port, Private Port.
T. AN ODUONAL MIEG CHECK THE FNADIE DOX TO ACTIVATE THE THIE	Rule	1. An optional filled	

setting 2.The box is unchecked by default.



Virtual Server	– Rule Name	
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



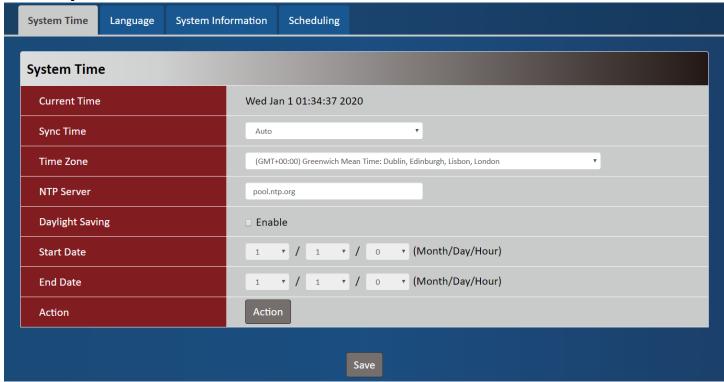
DDNS		
Item	Value setting	Description
DDNS	The box is unchecked by default	Check the Enable box to activate this function.
Provider	DynDNS.org is set by default	Select your DDNS provider of Dynamic DNS. It can be DynDNS.org , NO-IP.com , TZO.com etc
Host Name	 String format can be any text A Must filled 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	1. String format can be any text	Enter your Password or Key of DDNS Service.

2. A Must filled setting

2.2 System

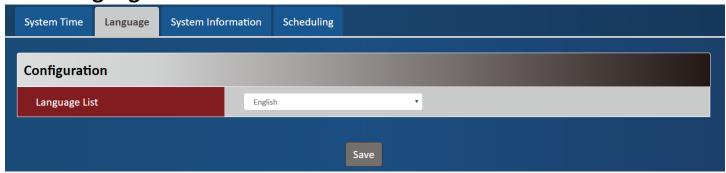
This section provides the configuration of system features.

2.2.1 System Time



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.
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



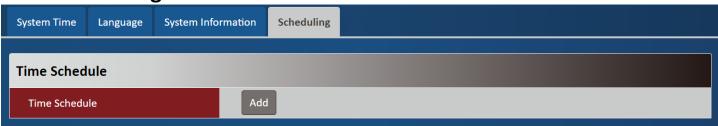
Language		
Item	Value setting	Description
	1. A Must-filled item.	Language setiing of the WebGUI.
Language List	2. English is selected by	
	default.	

2.2.3 System Information

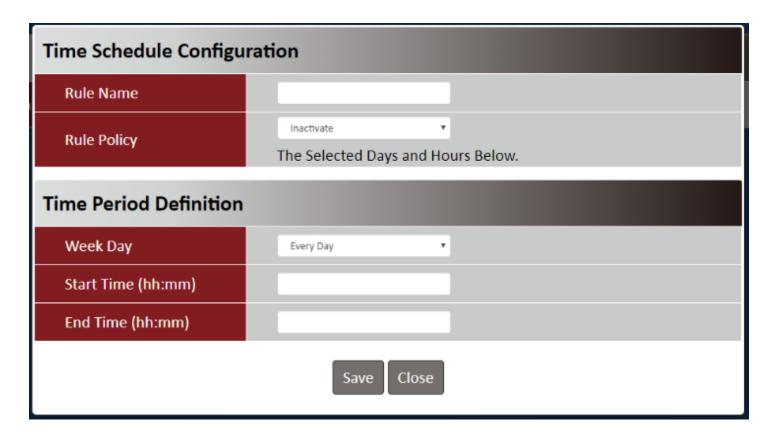


System Information	1	
Item	Value setting	Description
Model Name	N/A	Show the model name of the device
Serial Number	N/A	Show the serial number of the device
Manufacturing Datte	N/A	Show the manufacturing date of the device.

2.2.4 Scheduling



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



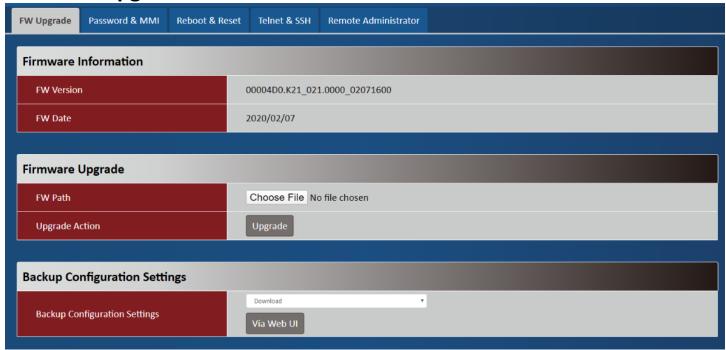
Time Schedule Configuration		
Item	Value Setting	Description
Rule Name	String: any text	Set rule name
Rule Policy	Default Inactivate	Inactivate/activate the function been applied to in the time period below

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

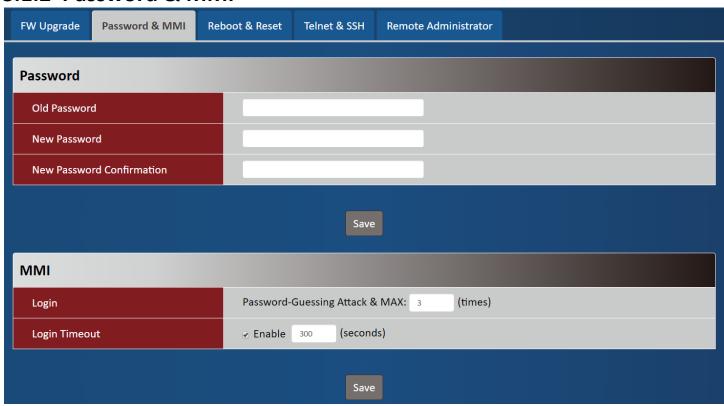


Firmware Information		
Item	Value setting	Description
FW Version	N/A	It displays the firmware version of the product
FW Date	N/A	It displays the build time of the firmware

Firmware Upgrad	de	
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.

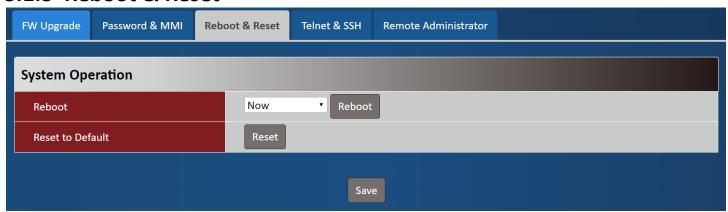
3.1.2 Password & MMI



Password		
Item	Value setting	Description
Old Password	 String: any text 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
Save	N/A	Click Save button to save the settings

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

3.1.3 Reboot & Reset



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 Telnet & SSH

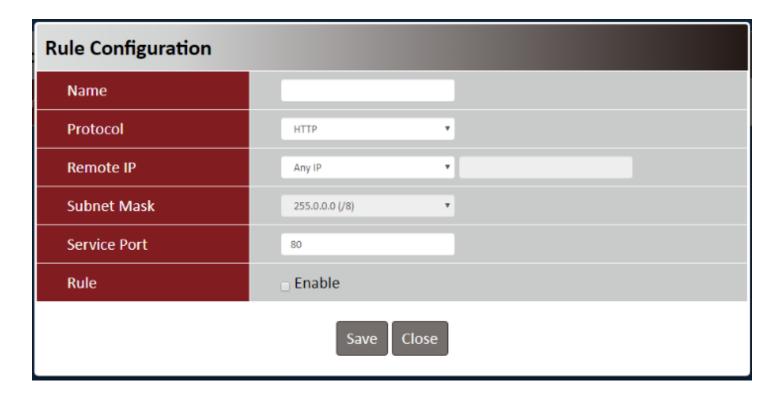


Telnet & SSH		
Item	Value setting	Description
Telnet	 Default value is disable such service By default Service Port is 23. 	Check the Enable box to activate the Telnet function for connecting from LAN or WAN interfaces. You can set which number of Service Port you want to provide for the corresponding service. <u>Value Range</u> : 1 ~65535.
SSH	 Default value is disable such service 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.

3.1.5 Remote Administrator



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

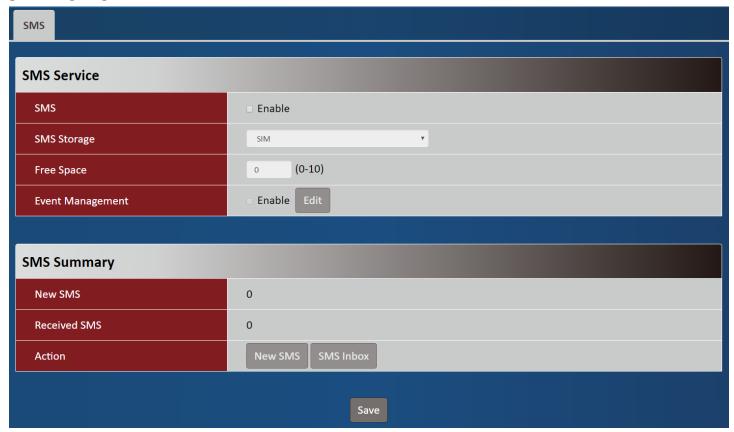


Rule Configuration		
Item	Value setting	Description
Name	String: any text	Set rule name
Protocol	HTTP is set by default	Select HTTP or HTTPS method for router access.
Remote IP	A Must filled setting	This field is to specify the remote host to assign access right for remote access. Select Any IP to allow 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	This field is to specify a Service Port to HTTP or HTTPS connection.

	2. 443 for HTTPS by default	<i>Value Range</i> : 1 ~ 65535.
Rule	The box is unchecked by default.	Click Enable box to activate this rule.

3.2 Utility

3.2.1 SMS



SMS – SMS Service		
Item	Value setting	Description
SMS	The box is unchecked by default	This is the SMS switch. If the box checked that the SMS function enable, if the box unchecked that the SMS function disable.
SMS Storage	The box is SIM by default	The storage location of SMS. SIM means to store SMS in SIM card and Modem means to store SMS in the unit.
Free Space		Specify a number (1-10) for message count to reserve some available storage space and prevent it from run out of storage. The oldest message(s) will be deleted when the SMS storage is going to full. 0 means the function is ignored.
Event Management	The box is unchecked by default	Check the Enable box to activate the Event Management function. After enable the function, press Edit to set the management rule.

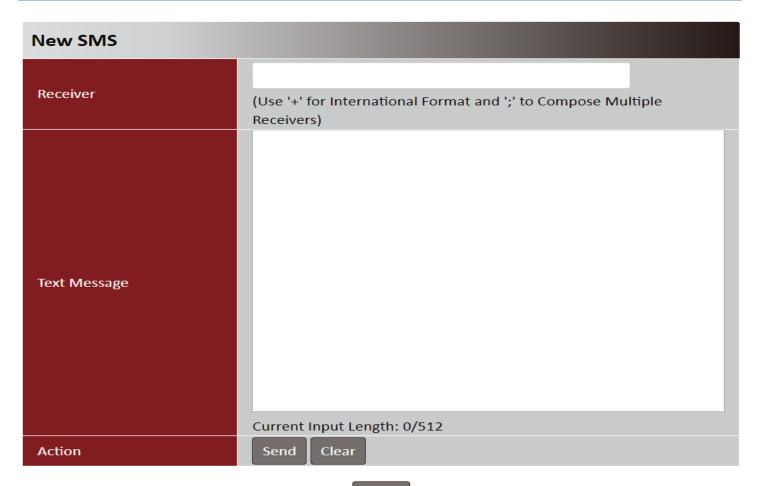
SMS – SMS Sum	mary	
Item	Value setting	Description
New SMS	N/A	If SIM card inserts to unit first time, New SMS value is zero. When received a new SMS but didn't read, this value will plus one.
Received SMS	N/A	This value records the existing SMS numbers. When received the new SMS, this value will plus one.
Action	N/A	New SMS When press this button, it will pop-up a page to let user write an SMS and can send it out. SMS Inbox When press this button, SMS inbox table will show to user.

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
	Save Close

Account Configurati	Account Configuration		
Item	Value setting	Description	
Phone Number#1 / #2	 Mobile phone number format A Must filled setting 	Fill the specify Phone number to activate the Event Managemen t function. User just can handle Event Management function on these phone numbers.	
Application	Check box, default is unchecked.	Activate the phone tto have Managing / Notifying or both functions.	
Enable	Check box, default is unchecked.	Checked it to enable the SMS event management on #1 or #2 phone number.	

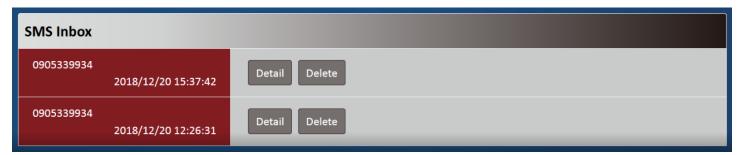
Managing Events		
Item	Value setting	Description
Cellular Status	N/A	Enable the option and user can query the current connection status via sending SMS "status" from specify phone number which enables managing function.
Cellular Reconnect	N/A	Enable the option and user can force the current connection re-econnect once via sending SMS "reconnect" from specify phone number which enables managing function.
Reboot	N/A	Enable the option and user can force the device reboot once via sending SMS "reboot" from specify phone number which enables managing function.

Notifying Events		
Item	Value setting	Description
Cellular Connected	N/A	Enable the option will send a SMS to show "WAN Link UP-IP:xxx.xxx.xxx.xxx" to specify phone number which enable Notifying function when cellular WAN establishs a connaction.
Celular Disconnected	N/A	Enable the option will send a SMS to show "WAN Link Down" to specify phone number which enable Notifying function when cellular WAN connection is broken.



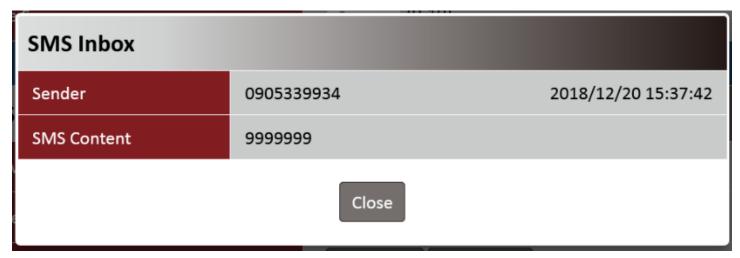
Close

New SMS		
Item	Value setting	Description
Receiver	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. The router supports up to a maximum of
Text Wiessage	Text Message N/A	512 characters for SMS context length.
Action	N/A	Click Send to send current content of Text Message to Receiver
	N/A	Click Clear to clear current Text Message.



SMS Inbox		
Item	Value setting	Description
SMS Inbox	N/A	Show the phone number and timestamp of the SMS

Detail: Click this button will pop-up the SMS Inbox to show the content. **Delete:** Click this button will delete the SMS.



SMS Inbox		
Item	Value setting	Description
Sender	N/A	Show the phone number and timestamp of the SMS
SMS Content	N/A	Show the content of the SMS