

# 4G Modem

IDG400-0TE0C (LTE cat. 4)

User Manual



# 4G Modem

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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.

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## 1.2 Contents List

### 1.2.1 Package Contents

#### #Standard Package

Items	Description	Contents	Quantity
1	IDG400-0TE01 4G Modem		1pcs
2	Cellular Antenna		2pcs
	MicroUSB Cable		1pcs
4	RJ45 Cable		1pcs

#### #Optional Package

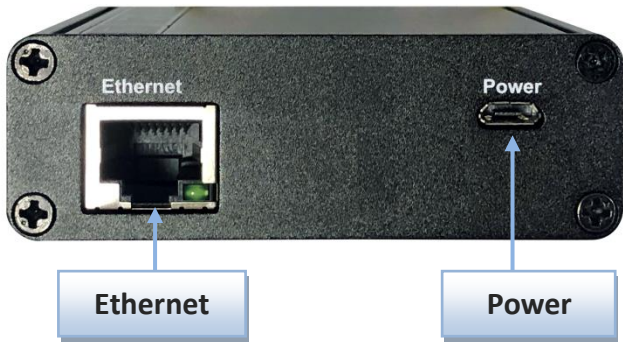
Items	Description	Contents	Quantity
1	Extender		1pcs or 2 pcs (1 pcs needed for din-rail and 2 pcs needed for wall-mount)
2	DIN-Rail Bracket		1pcs
3	WALLMOUNT		2pcs/set
4	DC TO Micro USB		1pcs

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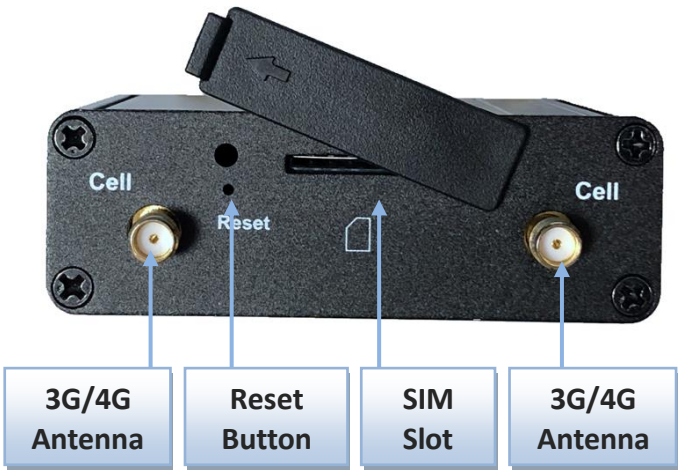
5	Power Adapter		1pcs
6	Plug(US/EU/AU/UK)		1PCS

## 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.

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## 1.4 LED Indication



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

## 1.5 Installation & Maintenance Notice

### 1.5.1 SYSTEM REQUIREMENTS

Network Requirements	<ul style="list-style-type: none"><li>• A fast Ethernet RJ45 cable</li><li>• 3G/4G cellular service subscription</li><li>• 10/100/1000 Ethernet adapter on PC</li></ul>
Web-based Configuration Utility Requirements	<p><b>Computer with the following:</b></p> <ul style="list-style-type: none"><li>• Windows®, Macintosh, or Linux-based operating system</li><li>• An installed Ethernet adapter</li></ul> <p><b>Browser Requirements:</b></p> <ul style="list-style-type: none"><li>• Internet Explorer 10.0 or higher</li><li>• Chrome 73 or higher</li><li>• Firefox 60.0 or higher</li></ul>

### 1.5.2 WARNING



***Attention***

- 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.



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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 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!!**

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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.<sup>1</sup>

### (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 Downlink: 2110-2170 MHz	23.1 dBm
LTE FDD BAND 3	Uplink: 1710-1785 MHz Downlink: 1805-1880 MHz	23.0 dBm
LTE FDD BAND 7	Uplink: 2500-2570 MHz Downlink: 2620-2690 MHz	22.8 dBm
LTE FDD BAND 8	Uplink: 880-915 MHz Downlink: 925-960 MHz	23.2 dBm
LTE FDD BAND 20	Uplink: 832-862 MHz Downlink: 791-821 MHz	23.5 dBm
LTE FDD BAND 28A	Uplink: 704 -723 MHz Downlink: 759 - 778MHz	23 dBm
LTE FDD BAND 38	Uplink: 2570-2620 MHz Downlink: 2570-2620 MHz	21.7 dBm
LTE FDD BAND 40	Uplink: 2300-2400 MHz Downlink: 2300-2400 MHz	21.5 dBm
WCDMA BAND 1	Uplink: 1920-1980 MHz Downlink: 2110-2170 MHz	23.3 dBm
WCDMA BAND 8	Uplink: 880-915 MHz Downlink: 925-960 MHz	
E-GSM	Uplink: 880-915 MHz Downlink: 925-960 MHz	32.9 dBm
DCS	Uplink: 1710-1785 MHz 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 Downlink: 1930-1990 MHz	23.86 dBm
LTE FDD BAND 4	Uplink: 1710-1755 MHz Downlink: 2110-2155 MHz	23.82 dBm
LTE FDD BAND 5	Uplink: 824-849 MHz	23.46 dBm

<sup>1</sup> 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.

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	Downlink: 869-894 MHz	
LTE FDD BAND 12	Uplink: 699-716 MHz Downlink: 729-746 MHz	23.75 dBm
LTE FDD BAND 13	Uplink: 777-787 MHz Downlink: 746-756 MHz	23.86 dBm
LTE FDD BAND 14	Uplink: 788-798 MHz Downlink: 758-768 MHz	23.86 dBm
LTE FDD BAND 66	Uplink: 1710-1780 MHz Downlink: 2100-2200 MHz	23.34 dBm
LTE FDD BAND 71	Uplink: 663-698 MHz Downlink: 617-652 MHz	23.46 dBm
WCDMA BAND 2	Uplink: 1850-1910 MHz Downlink: 1930-1990 MHz	23.3 dBm
WCDMA BAND 4	Uplink: 1710-1755 MHz Downlink: 2110-2155 MHz	
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  $\leq 2$  m (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

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## 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.

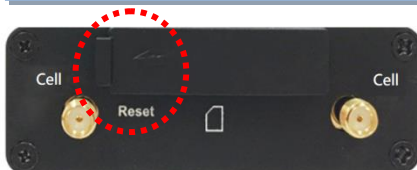
### 1.6.2 Insert the SIM Card

**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.

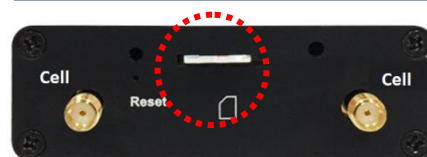
#### Step 1: Remove SIM cover

Remove the SIM cover from left side.



#### Step 2: Remove SIM

Push the inserted SIM card to eject the SIM card.



#### Step 3: Insert a SIM

Push the SIM card into the SIM slot.



#### Step 4: Put Back SIM cover

Put back the SIM cover



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### 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.

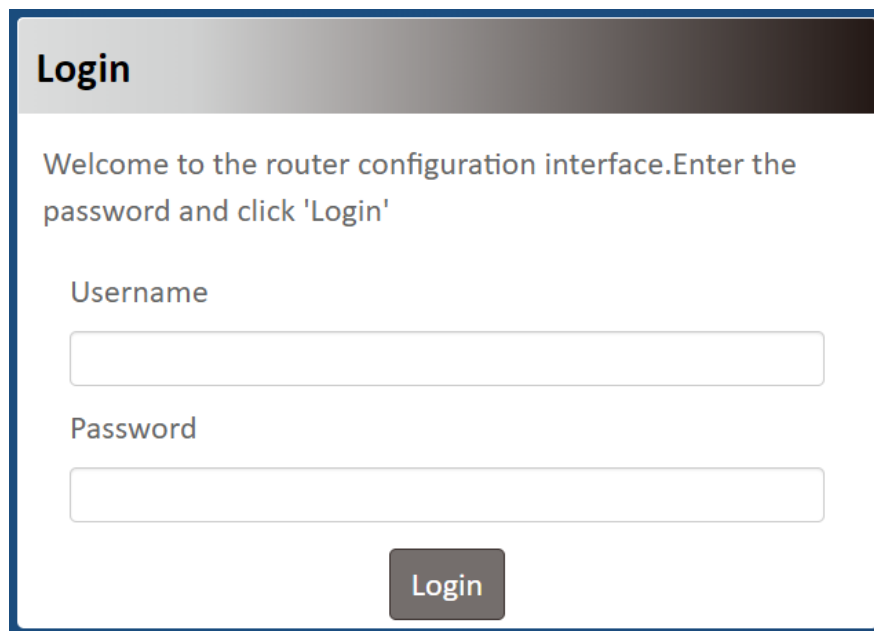
### 1.6.4 Setup by Configuring WEB UI

You can browse web UI to configure the device.

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



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. The page has a dark header with the word "Login" in white. Below the header, there is a message: "Welcome to the router configuration interface. Enter the password and click 'Login'". There are two input fields: "Username" and "Password". Below these fields is a "Login" button. The entire form is enclosed in a blue border.

The default setting for both username and password is '**admin**'<sup>3</sup>.

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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

Status

Setup

Network

System

Administrator

Logout

DeviceMode

Cellular

Ethernet

Port Forwarding

DDNS

Device Mode

Device Mode

Modem

Save

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 <b>NAT</b> is selected	<b>NAT</b> The unit will provide a NAT service and provide a simple firewall for the connected device. <b>Modem</b> The unit will pass the cellular IP to connected device via ethernet

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## 2.1.2 Cellular

Device Mode

Cellular

Ethernet

Port Forwarding

DDNS

Cellular Access

APN

Manual

Manual APN

Username

Password

Authentication

Auto

IP Type

IPv4

IP Mode

Dynamic IP

Static IP Config

PIN Code

MTU Setup

☐ Enable

(68~1500)

Keep Alive

☐ Enable

IP Address : 8.8.8.8

Interval : 60

(2~14400 seconds)

Device Mode Item	Value setting	Description
APN	1. A Must filled setting 2. By default <b>Auto</b> is selected	<b>Auto</b> The unit will detect the SIM and set an APN from internal database. <b>Manual</b> User must set APN manually.
Manual APN	1. A Must filled setting 2. String format : any text	Enter the <b>APN</b> you want to use to establish the connection. This is a must-filled setting if you selected <b>Manual APN</b> as APN scheme.
Username	1. An Optional setting 2. String format : any text	Enter the optional <b>username</b> settings if your ISP provided such settings to you.
Password	1. An Optional setting 2. String format : any text	Enter the optional <b>Password</b> settings if your ISP provided such settings to you.
Authentication	1. A Must filled setting 2. By default <b>Auto</b> is selected	Select <b>PAP</b> (Password Authentication Protocol) and use such protocol to be authenticated with the carrier's server. Select <b>CHAP</b> (Challenge Handshake Authentication Protocol) and use such protocol to be authenticated with the carrier's server. When <b>Auto</b> is selected, it means it will authenticate with the server either <b>PAP</b> or <b>CHAP</b> .
IP Type	1. A Must filled setting 2. By default <b>IPv4</b> is selected	Specify the IP type of the network service provided by your 3G/4G network. It can be <b>IPv4</b> , <b>IPv6</b> , or <b>IPv4v6</b> .



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<b>IP Mode</b>	1. A Must filled setting 2. By default <b>Dynamic IP</b> is selected	<b>Dynamic IP</b> The unit will get IP from cellular service.. <b>Static IP</b> The unit will set IP according <b>Static IP Config</b> .
<b>PIN Code</b>	1. An Optional setting 2. String format : interger	Enter the PIN (Personal Identification Number) code if it needs to unlock your SIM card.
<b>MTU Setup</b>	1. An Optional setting 2. <b>Uncheck</b> by default	Check the Enable box to enable the MTU (Maximum Transmission Unit) limit, and specify the <b>MTU</b> for the 3G/4G connection. <b>MTU</b> refers to Maximum Transmission Unit. It specifies the largest packet size permitted for Internet transmission. <b>Value Range: 68 ~ 1500.</b>
<b>Keep Alive</b>	1. An optional setting 2. Box is unchecked by default	Check the <b>Enable</b> box to activate the keep alive function. Input <b>IP Address</b> and <b>interval</b> to send an ICMP packet to check the network status.

## Static IP Configuration

IP	<input type="text" value="0.0.0.0"/>	
Subnet Mask	<input type="text" value="255.255.255.0 (/24)"/>	
Default Gateway	<input type="text" value="0.0.0.0"/>	(Optional)
Primary DNS	<input type="text" value="0.0.0.0"/>	(Optional)
Secondary DNS	<input type="text" value="0.0.0.0"/>	(Optional)

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

2.1.3 Ethernet

DeviceMode

Cellular

Ethernet

Port Forwarding

DDNS

Ethernet IP

IP

192.168.123.254

Netmask

255.255.255.0 (/24)

DHCP Server

☒ Enable

DHCP Setting

DHCP Config

Save

Ethernet IP Item	Value setting	Description
IP	1. IPv4 format. 2. A Must filled 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 <b>Enable</b> box to activate DHCP Server.
DHCP Setting	N/A	Click <b>DHCP Config</b> button to pop-up the <b>DHCP Setting</b> 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 filled setting	The IP Pool of this DHCP Server. It is Starting Address entered in this field.

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IP Pool End	1. Numeric string format. 2. A Must filled setting	The IP Pool of this DHCP Server. It is Ending Address entered in this field.
Lease Time	1. Numeric string format. 2. A Must filled setting	The Lease Time of this DHCP Server. <b><u>Value Range:</u> 300 ~ 604800 seconds.</b>

### 2.1.4 Port Forwarding

DeviceMode

Cellular

Ethernet

Port Forwarding

DDNS

Virtual Server

Virtual Server

☐ Enable

Add

Save

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

Virtual Server Rule Configuration

Name

Server IP

Source IP

Protocol

Public Port

Private Port

Rule

Any

TCP(6)

Single Port

Single Port

☐ Enable

Save

Close

# 4G Modem

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

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setting  
2.The box is unchecked  
by default.

Rule Name	
test	<button>Edit</button> <button>Delete</button>

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

## 2.1.5 DDNS

DeviceMode	Cellular	Ethernet	Port Forwarding	DDNS
------------	----------	----------	-----------------	------

### Configuration

DDNS	<input type="checkbox"/> Enable
Provider	<div>DynDNS.org</div>
Host Name	<div></div>
User Name / E-Mail	<div></div>
Password / Key	<div></div>

Save

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

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2. A Must filled setting

## 2.2 System

This section provides the configuration of system features.

### 2.2.1 System Time

System Time

Language

System Information

Scheduling

System Time

Current Time

Wed Jan 1 01:34:37 2020

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

Save

Device Mode		
Item	Value setting	Description
Current Time	N/A	Show the current time of the unit.
Sync Time	1. A Must-filled item. 2. <b>Auto</b> is selected by default.	When select <b>Auto</b> , unit will sync the time via cellular cell, and then try to use NTP if cellular cell doesn't provide time information. When select <b>NTP</b> , the unit will sync time via ntp service.
Time Zone	1. A Must-filled item. 2. <b>GMT+00 :00</b> is selected by default.	Select a time zone where this device locates.
Daylight Saving	1. It is an optional item. 2. Un-checked by default	Check the <b>Enable</b> button to activate the daylight saving function. When user enabled this function, user has to specify the <b>Start Date</b> and <b>End Date</b> 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 <b>Action</b> to sync time immediately

2.2.2 Language

System TimeLanguageSystem InformationScheduling

Configuration

Language List

English

Save

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

2.2.3 System Information

System TimeLanguageSystem InformationScheduling

System Information

Model Name

IDG400-0TE0C

Serial Number

ZZ20500000

Manufacturing Date

2020-5

System Information 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

System TimeLanguageSystem InformationScheduling

Time Schedule

Time Schedule

Add

# 4G Modem

Scheduling		
Item	Value setting	Description
Time Schedule	N/A	Press <b>Add</b> 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
End Time	Time format (hh :mm)	End time in selected weekday



## Chapter 3 Administrator

### 3.1 Manager

#### 3.1.1 FW Upgrade

FW Upgrade

Password & MMI

Reboot & Reset

Telnet & SSH

Remote Administrator

Firmware Information

FW Version

00004D0.K21\_021.0000\_02071600

FW Date

2020/02/07

Firmware Upgrade

FW Path

Choose File

No file chosen

Upgrade Action

Upgrade

Backup Configuration Settings

Backup Configuration Settings

Download

Via Web UI

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

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

3.1.2 Password & MMI

FW Upgrade

Password & MMI

Reboot & Reset

Telnet & SSH

Remote Administrator

Password

Old Password

New Password

New Password Confirmation

Save

MMI

Login

Password-Guessing Attack & MAX: 3 (times)

Login Timeout

☒ Enable 300 (seconds)

Save

Password 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
Save	N/A	Click <b>Save</b> button to save the settings

MMI Item	Value setting	Description
Login	3 times is set by default	Enter the login trial counting value. <b>Value Range:</b> 3 ~ 10. If someone tried to login the web GUI with incorrect password for more than the counting value, an warning message <b><i>“Already reaching maximum Password-Guessing times, please wait a few seconds!”</i></b> 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. <b>Value Range:</b> 30 ~ 65535.

# 4G Modem

## 3.1.3 Reboot & Reset

FW Upgrade

Password & MMI

Reboot & Reset

Telnet & SSH

Remote Administrator

System Operation

Reboot

Now

Reboot

Reset to Default

Reset

Save

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

## 3.1.4 Telnet & SSH

FW Upgrade

Password & MMI

Reboot & Reset

Telnet & SSH

Remote Administrator

Configuration

Telnet

LAN ☐ Enable WAN ☐ Enable Service Port : 23

SSH

LAN ☐ Enable WAN ☐ Enable Service Port : 22

Save

Telnet & SSH		
Item	Value setting	Description
Telnet	<div><div>1. Default value is disable such service</div><div>2. By default <b>Service Port</b> is 23.</div></div>	<div>Check the <b>Enable</b> box to activate the Telnet function for connecting from LAN or WAN interfaces.</div> <div>You can set which number of <b>Service Port</b> you want to provide for the corresponding service.</div> <div><b>Value Range:</b> 1 ~65535.</div>
SSH	<div><div>3. Default value is disable such service</div><div>1. By default <b>Service Port</b> is 22.</div></div>	<div>Check the <b>Enable</b> box to activate the SSH Telnet function for connecting from LAN or WAN interfaces.</div> <div>You can set which number of <b>Service Port</b> you want to provide for the corresponding service.</div> <div><b>Value Range:</b> 1 ~65535.</div>

3.1.5 Remote Administrator

FW Upgrade

Password & MMI

Reboot & Reset

Telnet & SSH

Remote Administrator

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

Rule Configuration

Name

Protocol

HTTP

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 <b>HTTP</b> or <b>HTTPS</b> 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 <b>Any IP</b> to allow any remote hosts Select <b>Specific IP</b> to allow the remote host coming from a specific subnet.
Subnet Mask	N/A	An IP address entered in this field and a selected <b>Subnet Mask</b> to compose the subnet if Remote IP set in <b>Specific IP</b> .
Service Port	1. 80 for HTTP by default	This field is to specify a Service Port to HTTP or HTTPS connection.

# 4G Modem

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

## 3.2 Utility

### 3.2.1 SMS

SMS

SMS Service

SMS	<input type="checkbox"/> Enable
SMS Storage	<div>SIM</div>
Free Space	<div>0</div> (0-10)
Event Management	<input type="checkbox"/> Enable <div>Edit</div>

SMS Summary

New SMS	0
Received SMS	0
Action	<div>New SMS</div> <div>SMS Inbox</div>

Save

SMS – SMS Service		
Item	Value setting	Description
<b>SMS</b>	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.
<b>SMS Storage</b>	The box is <b>SIM</b> by default	The storage location of SMS. <b>SIM</b> means to store SMS in SIM card and <b>Modem</b> means to store SMS in the unit.
<b>Free Space</b>		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.
<b>Event Management</b>	The box is unchecked by default	Check the <b>Enable</b> box to activate the Event Management function. After enable the function, press <b>Edit</b> to set the management rule.

# 4G Modem

SMS – SMS Summary		
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	<p><b>New SMS</b> When press this button, it will pop-up a page to let user write an SMS and can send it out.</p> <p><b>SMS Inbox</b> When press this button, SMS inbox table will show to user.</p>

### Account Configuration

Phone Number#1	<input type="text"/>
Application	<input type="checkbox"/> Managing <input type="checkbox"/> Notifying
Enable	<input type="checkbox"/>
Phone Number#2	<input type="text"/>
Application	<input type="checkbox"/> Managing <input type="checkbox"/> Notifying
Enable	<input type="checkbox"/>

### Managing Events

Cellular Status	<input type="checkbox"/> Enable
Cellular Reconnect	<input type="checkbox"/> Enable
Reboot	<input type="checkbox"/> Enable

### Notifying Events

Cellular Connected	<input type="checkbox"/> Enable
Cellular Disconnected	<input type="checkbox"/> Enable

## 4G Modem

Account Configuration		
Item	Value setting	Description
Phone Number#1 / #2	1. Mobile phone number format 2. A Must filled setting	Fill the specify Phone number to activate the <b>Event Management</b> function. User just can handle Event Management function on these phone numbers.
Application	Check box, default is unchecked.	Activate the phone tto have <b>Managing / Notifying</b> 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 " <b>status</b> " 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 " <b>reconnect</b> " 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 " <b>reboot</b> " 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 " <b>WAN Link UP-IP:xxx.xxx.xxx.xxx</b> " to specify phone number which enable <b>Notifying</b> function when cellular WAN establishes a connaction.
Celular Disconnected	N/A	Enable the option will send a SMS to show " <b>WAN Link Down</b> " to specify phone number which enable <b>Notifying</b> function when cellular WAN connection is broken.

## 4G Modem

New SMS

Receiver

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

Text Message

Current Input Length: 0/512

Action

Send

Clear

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 512 characters for SMS context length.
Action	N/A	Click <b>Send</b> to send current content of <b>Text Message</b> to <b>Receiver</b> Click <b>Clear</b> to clear current <b>Text Message</b> .

SMS Inbox

0905339934  
2018/12/20 15:37:42

Detail

Delete

0905339934  
2018/12/20 12:26:31

Detail

Delete

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



# 4G Modem

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

SMS Inbox

Sender

0905339934

2018/12/20 15:37:42

SMS Content

9999999

Close

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