

EJOIN ACOM6xx Series SMS Gateway

User Manual



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Chapter I Equipment Information

1.1 Product Brief

Ejoin SMS gateway is a multi-functional and high performance product, which supports SMS sending, receiving and group sending. It's different from traditional modem, it's based on IP network, with the SMPP/HTTP API, customers can develop SMS server easily. It is widely used in mobile marketing, verify code, bulk SMS and corporate SMS.

1.2 Product Application

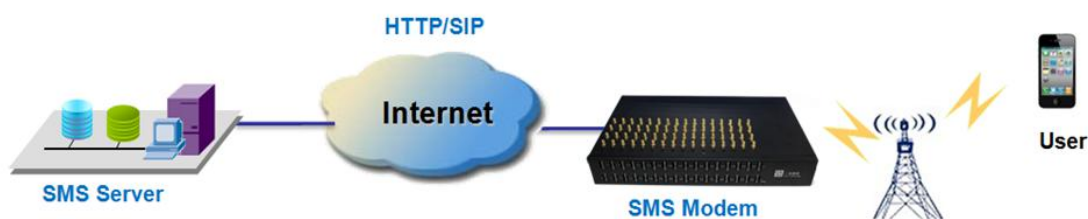


Figure 1.2-1 Product Application

1.3 Product Appearance

Back Panel

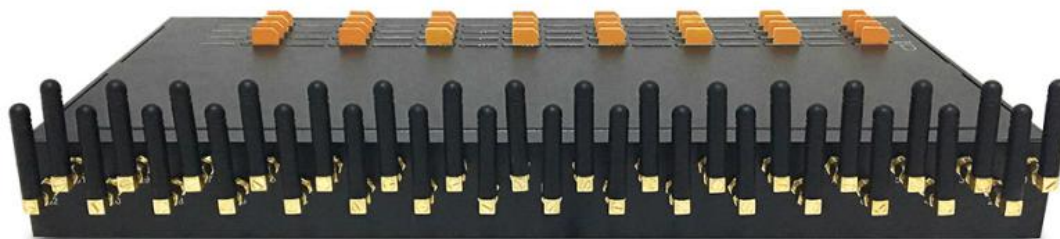


Figure 1.3-1 Back Panel

Description of the front panel(from left to right):

- 1 Ground connection
- 1 reset button (press RST button about 10s will restore to factory settings)
- 1 Power Interface (DC 12V 5A)
- 2 Network Interface (LAN and WAN, RJ45)
- 1 Console Interface (USB to Serial, Baudrate 115200)
- 32 Antenna Connector

Front Panel

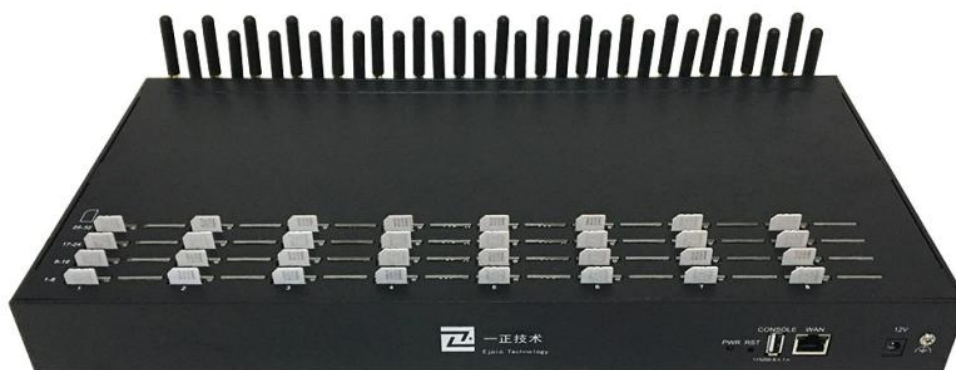


Figure 1.3-2 Front Panel

Description of the front panel(from left to right):

- 32 SIM slots (Multi Sim Rotation Model Sim Slot will be more than Port numbers)
- 1 Power light (indicate the status of the power connection)
- 32 LED lights (indicate the status of SIM cards)
- 2 fans

1.4 Special Features

- Support SIM rotation (Optional Model)
- Support 2G/3G/4G Sim Cards
- Support ERMS(Ejoin Remote Management System)
- AT Command Directly
- Support hot-swap
- Support HTTP/SIP SMS API/USSD API
- Support IMEI modification
- Support SMPP server/client
- Support SNMP
- Email to SMS;SMS to Email
- Support Bulk SMS /MMS Campaign

1.5 Specification

Mode	ACOM604	ACOM608	ACOM616	ACOM632	ACOM664
Channels	4	8	16	32	64
SIM slots	4	8	16/64/128/256/512	32/64/128/256/512	64/256/512
Frequency	GSM/CDMA/WCDMA/LTE (Optional)				
SMS protocol	SMPP, HTTP, SIP				
Network protocol	IPv4,TCP, UDP, PPPoE, DHCP, DNS, NAT, Telnet, HTTP, TFTP				
Firmware update	TFTP/HTTP				
ERMS	Ejoin Remote Management System				
Encryption	RC4, BASE64				

Table 1.5-1

1.6 Mobile Features

- SMS Send, Receive and Forward (GSM/SIP/HTTP)
- SMS Inbox/Outbox
- AT Command, USSD
- SMS Format: PDU/TXT
- PIN Code Management
- CDMA Delay Answer
- GSM Polarity Reversal
- Carrier Selection

Chapter II Equipment Installation

2.1 SIM Card Placement

Insert SIM cards like the figure 2.1-1. The SIM cards should be mini-SIM (2FF).



Figure 2.1-1 SIM Card Placement

2.2 Antenna Installation

The external antenna should be installed vertically always on a site with a good wireless signal.



Figure 2.2-1 Antenna Installation

2.3 Network Connection

Plug Ethernet line into gateway WAN port, and then connect the other end of the Ethernet line with switch or router. Note: Do not use LAN port, LAN port is useless.



Figure 2.3-1 Network Connection

2.4 Power Connection

Connect the small end of the power cable to the power input on the back panel, and plug the other end of the cable into a 220V power outlet.



Figure 2.4-1 Power Connection

2.5 Serial Connection

Connect one side of serial cable to the console port on the back panel, another side to computer USB port.(Don't need connect it normally)



Figure 2.5-1 Serial Connection

Chapter III Web Settings

3.1 Login

Open the web browser and type the IP address. If it is the first time you login the gateway, please use the default settings below:

IP Address: 192.168.1.67

Account: root

Password: root



Figure 3.1-1 Login web

3.2 Basic Settings

WAN Settings

There are three types of WAN port IP: Static, Dynamic and PPPoE. (Default static IP is 192.168.1.67). You can also change the wan settings when get a new device. If you want to access in this default IP, your local PC need a same network segment 192.168.1.xxx.

WAN Settings
⏴ Collapse

WAN Type:

WAN IP:

IP Mask:

Default Gateway:

DNS Server:

Figure 3.2-1 WAN Settings

Items	Description
WAN Type	Static IP: manually set up gateway IP. Dynamic IP: automatically get IP from local network. PPPoE: need ISP offer the account and password. Use this mode when there is no router in the local network
WAN IP	The WAN IP address of gateway
IP Mask	The subnet mask of gateway
Default Gateway	Default gateway IP address. Example: router IP.
DNS Gateway	Domain name server IP address. Example: 8.8.8.8.

Table 3.2-1

3.3 Gateway Settings

3.3.1 Port Settings

Basic Settings

Basic Settings Collapse

Frequency Band: 850-900-1800-1900 MHz

Network Type: Auto

Register Type: Voice network

Unnormal SIM Supp: Enable

Figure 3.3.1-1 Basic Settings

Items	Description
Frequency Band	Choose the module frequency.
Network Type	It's used for 3G or 4G device to change the network type
Register Type	voice or data network for registering
Unnormal SIM supp	It's used for special country, keep it disabled.

Table 3.3.1-1 Basic Settings

Hardware Properties

Multi sim cards rotation model (ACOM616-64,ACOM632-128,ACOM632-256,ACOM632-512,ACOM664-256,ACOM664-512) are able to disable /enable different sim slots by below settings.Select the ports which you need to disable/enable and submit to take effect.

Hardware Properties Collapse

Port	Enable SIM Card	Lock Operator	Mobile Base	Provider	In Vol	Out Vol	IMEI
1	A B C D	0	0	0	0	4	866854039336071
2	A B C D	0	0	0	0	4	866854039244127
3	A B C D	0	0	0	0	4	866854039046795
4	A B C D	0	0	0	0	4	866854039181683
5	A B C D	0	0	0	0	4	866854039021566
6	A B C D	0	0	0	0	4	866854039218766
7	A B C D	0	0	0	0	4	866854039021574
8	A B C D	0	0	0	0	4	866854039218782

Figure 3.3.1-2 Hardware Properties

Items	Description
Port NO.	Gateway channel
Enable SIM Card	The SIM is enabled with \surd , and disabled without \surd . You can enable or disable SIM by this button.
Lock Operator	Roaming sim card lock operator
Mobile Base	The base station of SIM registered.
Input Vol	Input volume of module, unmodifiable value.
Output Vol	Output volume of module. unmodifiable value.
IMEI	International Mobile Equipment Identity of this module. This gateway support IMEI modification, you can do it on IMEI settings page.

Table 3.3.1-2 Hardware Properties

3.3.2 Base Stations

Basic Settings

Figure 3.3.2-1 Basic Settings

Items	Description
Max Channels	The maximum number of base station
Lowest Valid Signal	The lowest valid signal of base station, the default value is -90 dbm. SIM card will not register in the base station which signal is lower than the value.
Switch Period	Base station switch period, the default value is 60 minutes. Base station will switch automatically by the period (when base

	selection is “poll”).
Base Balancing	<p>Disable: every channel will select the base station with best signal. We suggest this mode.</p> <p>Enable: every channel will try to select different base station.</p>

Table 3.3.2-1 Basic Settings

Base Stations settings/operations

Base Stations Settings/Operations ▲ Collapse

Port No	Base Selection	Base Station	White List	Black List	Operations
1	Auto ▼	0	<input type="text"/>	<input type="text"/>	<input type="button" value="Refresh"/>
2	Auto ▼	0	<input type="text"/>	<input type="text"/>	<input type="button" value="Refresh"/>
3	Auto ▼	114	<input type="text"/>	<input type="text"/>	<input type="button" value="Refresh"/>
4	Auto ▼	0	<input type="text"/>	<input type="text"/>	<input type="button" value="Refresh"/>
5	Auto ▼	114	<input type="text"/>	<input type="text"/>	<input type="button" value="Refresh"/>
6	Auto ▼	0	<input type="text"/>	<input type="text"/>	<input type="button" value="Refresh"/>
7	Auto ▼	0	<input type="text"/>	<input type="text"/>	<input type="button" value="Refresh"/>
8	Auto ▼	0	<input type="text"/>	<input type="text"/>	<input type="button" value="Refresh"/>
9	Auto ▼	0	<input type="text"/>	<input type="text"/>	<input type="button" value="Refresh"/>
10	Auto ▼	0	<input type="text"/>	<input type="text"/>	<input type="button" value="Refresh"/>
11	Auto ▼	0	<input type="text"/>	<input type="text"/>	<input type="button" value="Refresh"/>
12	Auto ▼	0	<input type="text"/>	<input type="text"/>	<input type="button" value="Refresh"/>
13	Auto ▼	0	<input type="text"/>	<input type="text"/>	<input type="button" value="Refresh"/>
14	Auto ▼	0	<input type="text"/>	<input type="text"/>	<input type="button" value="Refresh"/>
15	Auto ▼	0	<input type="text"/>	<input type="text"/>	<input type="button" value="Refresh"/>
16	Auto ▼	0	<input type="text"/>	<input type="text"/>	<input type="button" value="Refresh"/>

Figure 3.3.2-3 Base Stations Settings

Items	Description
Port NO.	Gateway channel, starts from 1 to 16.
Base Selection	<p>Auto: every channel will select the base station automatically.</p> <p>Poll: base station will switch during every switch period, if set a base</p>

	station in white list, it will be locked in this channel.
Base station	It will show the base station
White List	The base station white list, if you just put one base here and select “poll”, this channel will lock the base station.
Black List	The base station can’t be used if put in black list.
Operations	Refresh the base station information.

Table 3.3.2-2 Base Stations Settings

3.3.3 IMEI Settings

IMEI means International Mobile equipment Identity, it is a 15-digit number. The gateway can do IMEI modification, it can protect SIM from blocking. With the function, you can do static IMEI or dynamic IMEI.

Modify IMEI : Specify Prefix

IMEI Switching Collapse

Enable By SIM Switching.

Enable Online Time(Min):

Port IMEI Collapse

Port	IMEI	A	B	C	D
1	866854039336071	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	866854039244127	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	866854039046795	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4	866854039181683	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Figure 3.3.3-1 IMEI Settings

You can set any different IMEI for every port, just set 14-digit number, the last digit will generate itself. If you need set with special prefix, just click “copy”, you can see the figure as above: set 865 in port 1A, after click “copy”, every port will have a IMEI prefix 865, click “auto complete”, the IMEI prefix will generate automatically. If you just put an IMEI prefix in the blank, the IMEI will changed when SIM switch(default), and also you can change the

conditions for changing above.

Modify IMEI : Customize Range ▾

Dynamic IMEI List ⬆ Collaspe

Data Detail

Data Status: Add ▾

IMEI Start:

IMEI Size: 1

Data List

<input type="checkbox"/>	IMEI Start	IMEI Size	Operation
<input type="checkbox"/>	863435412312336	10000	[Delete] [Edit]

Figure 3.3.3-2 Dynamic IMEI Settings

You can click “Add New” button to add a new dynamic IMEI list, this list includes initial IMEI value of IMEI group and the size of IMEI group. click “Delete” will delete a exist IMEI list, if you want to change the settings of dynamic IMEI list, please click “Edit” button.

3.3.4 PIN Settings

PIN means personal identification number, it just like a password of SIM card, it can help to prevent SIM card from being stolen and improve security. Most SIM cards don't have PIN code. If a SIM card is with PIN, you need input PIN code in corresponding slot and enable “PIN Unblock”, then the SIM card will work.

Basic Settings Collapse

PIN Unblock: Submit Cancel

Port PIN Collapse

Port								
1	A	<input type="text"/>	B	<input type="text"/>	C	<input type="text"/>	D	<input type="text"/>
2	A	<input type="text"/>	B	<input type="text"/>	C	<input type="text"/>	D	<input type="text"/>
3	A	<input type="text"/>	B	<input type="text"/>	C	<input type="text"/>	D	<input type="text"/>
4	A	<input type="text"/>	B	<input type="text"/>	C	<input type="text"/>	D	<input type="text"/>

Figure 3.3.4-1 Basic Settings

3.3.5 SIM Settings

SIM Schedule

SIM schedule is a function for multiple slots device, with this function, you can enable different sim cards in different time. As the screenshot below, A slot sim cards enable in time from 00:00 to 6:00, B slot sim cards enable in time from 6:00 to 12:00.

SIM Schedule Collapse

Data List Add

Begin	End		SIM Slots																																Oper.	
00:00	06:00	<input checked="" type="checkbox"/> A	<input checked="" type="checkbox"/> 01	<input checked="" type="checkbox"/> 02	<input checked="" type="checkbox"/> 03	<input checked="" type="checkbox"/> 04	<input checked="" type="checkbox"/> 05	<input checked="" type="checkbox"/> 06	<input checked="" type="checkbox"/> 07	<input checked="" type="checkbox"/> 08	<input checked="" type="checkbox"/> 09	<input checked="" type="checkbox"/> 10	<input checked="" type="checkbox"/> 11	<input checked="" type="checkbox"/> 12	<input checked="" type="checkbox"/> 13	<input checked="" type="checkbox"/> 14	<input checked="" type="checkbox"/> 15	<input checked="" type="checkbox"/> 16	[Edit]	<input checked="" type="checkbox"/> 17	<input checked="" type="checkbox"/> 18	<input checked="" type="checkbox"/> 19	<input checked="" type="checkbox"/> 20	<input checked="" type="checkbox"/> 21	<input checked="" type="checkbox"/> 22	<input checked="" type="checkbox"/> 23	<input checked="" type="checkbox"/> 24	<input checked="" type="checkbox"/> 25	<input checked="" type="checkbox"/> 26	<input checked="" type="checkbox"/> 27	<input checked="" type="checkbox"/> 28	<input checked="" type="checkbox"/> 29	<input checked="" type="checkbox"/> 30	<input checked="" type="checkbox"/> 31	<input checked="" type="checkbox"/> 32	[Del]
06:00	12:00	<input checked="" type="checkbox"/> B	<input checked="" type="checkbox"/> 01	<input checked="" type="checkbox"/> 02	<input checked="" type="checkbox"/> 03	<input checked="" type="checkbox"/> 04	<input checked="" type="checkbox"/> 05	<input checked="" type="checkbox"/> 06	<input checked="" type="checkbox"/> 07	<input checked="" type="checkbox"/> 08	<input checked="" type="checkbox"/> 09	<input checked="" type="checkbox"/> 10	<input checked="" type="checkbox"/> 11	<input checked="" type="checkbox"/> 12	<input checked="" type="checkbox"/> 13	<input checked="" type="checkbox"/> 14	<input checked="" type="checkbox"/> 15	<input checked="" type="checkbox"/> 16	[Edit]	<input checked="" type="checkbox"/> 17	<input checked="" type="checkbox"/> 18	<input checked="" type="checkbox"/> 19	<input checked="" type="checkbox"/> 20	<input checked="" type="checkbox"/> 21	<input checked="" type="checkbox"/> 22	<input checked="" type="checkbox"/> 23	<input checked="" type="checkbox"/> 24	<input checked="" type="checkbox"/> 25	<input checked="" type="checkbox"/> 26	<input checked="" type="checkbox"/> 27	<input checked="" type="checkbox"/> 28	<input checked="" type="checkbox"/> 29	<input checked="" type="checkbox"/> 30	<input checked="" type="checkbox"/> 31	<input checked="" type="checkbox"/> 32	[Del]

Submit Cancel

Figure 3.3.5-1 SIM Schedule

3.3.6 Number Settings

You can get SIM Card number by USSD or SMS automatically.

Reminder :It is necessary to fill in the sim cards number when enable port-inter port calling or sending.

Auto Query Collapse

Operator ID	Method	Content	Number Key	Service Num	Recv Num	Translation
46001	<input type="text" value="USSD"/> <ul style="list-style-type: none"> NONE USSD SMS SIM 	<input type="text" value="#686#"/>	<input type="text" value="number is"/>	<input type="text"/>	<input type="text"/>	<input style="width: 50px;" type="text" value=" -> "/>

Inquiry Now Submit Reset

Figure 3.3.6-1 Auto Settings by USSD

Items	Description
Auto-Get LocNum	When choose USSD, the gateway will get the SIM number by USSD
USSD Command	The USSD command for querying SIM number.
Number Keywords	The prefix keywords of the SIM number in USSD response. For example: the USSD response is your SIM number 923345556978, then keyword is number, it is usually the word before SIM number.
Prefix Translation	If you get the number is 923345556978, but you don't need a country code, you can do prefix translation, delete 923 then add 0.

Table 3.3.6-1 Auto Settings by USSD

The page below shows the setting of getting number by SMS, it is same as USSD, you should send the SMS content of query sim cards number to the operator to get the SIM card number.

Figure 3.3.6-2 Auto Settings by SMS

You are also able to fill in sim cards number by manual. Submit the settings to take effect.

Port No.	SIM Number	A	B	C	D
1D	1234567	A Jack EJOIN	B 1234567	C 1234567	D 1234567
2A	12345612	A 12345612	B	C	D
3A	12345612	A 12345612	B	C	D
4A	12345623	A 12345623	B	C	D
5A	12345621	A 12345621	B	C	D
6A	12345613	A 12345613	B	C	D
7A	12345614	A 12345614	B	C	D
8A	12345615	A 12345615	B	C	D
9A	12345616	A 12345616	B	C	D

Figure 3.3.6-3 SIM Number

3.3.7 Billing Settings

This is the billing system page, this billing system is widely used in querying balance automatically which can remind customers to recharge or replace the no balance SIM cards. The theory of this billing system: every SIM card will get an accurate balance from USSD or SMS response, then the system will deduct money in every billing period by tariff which you set, so it may take some deviation.

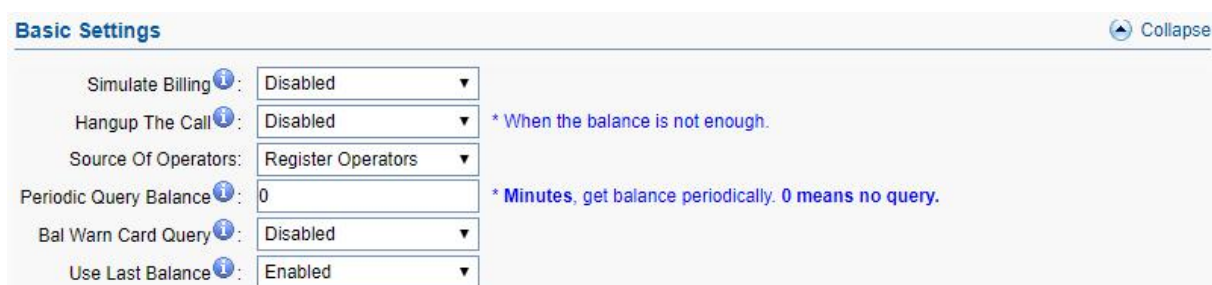


Figure 3.3.7-1 Basic Settings

Items	Description
Billing	Enable it, the billing system will be up.
Hangup The Call	If it is enabled, the call will be hang up when the balance is lower than invalid balance value.
Source of operators	When operator ID and IMSI are different, can use this settings
Periodic query balance	Get balance periodically, it may be more accurate.
Bal Warn Card Query	If it is enabled, it will query the balance when lower than caution balance value.
Use Last Balance	Enable: query balance failed, use last balance Disable: query balance failed, balance show N/A, the sim can't be used if it is lower than invalid balance value and it show yellow sim LED

Table 3.3.7-1

Provider List ▲ Collapse

Index	Operator ID	Operator Name	Query Method	Caution Balances	Invalid Balances
1	46001	CHINA UNICOM GSM	USSD ▼	0.00	0.00
<input type="button" value="Submit"/> <input type="button" value="Reset"/>					


USSD Query Keyword List ▲ Collapse

Index	Operator ID	Query Command	Balance Keywords	Invalid Balance Keywords	Invalid SIM Keywords
1	46001	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="button" value="Inquiry Now"/> <input type="button" value="Submit"/> <input type="button" value="Reset"/>					

SMS Query Keyword List ▲ Collapse

Index	Operator ID	Service Num	Query Cmd	Balance Keys	Invalid Bal Keys	Invalid SIM Keys
1	46001	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="button" value="Inquiry Now"/> <input type="button" value="Submit"/> <input type="button" value="Reset"/>						

Figure 3.3.7-2 Related Settings

Items	Description
Query Method	USSD or SMS for querying balance
Caution Balances	When the balance is lower than caution balance value, the billing system will send a USSD or SMS to recalibrate balance.
Invalid Balances	The SIM can't be used if it is lower than invalid balance value and it will show  No Balance
Query Command	The HTTP or SMS command for querying balance
Balance Keywords	The balance keywords in USSD or SMS response. For example: your credit balance is AED 45.82. then AED can be the keywords
Invalid Balance Keywords	Can't get balance from invalid balance keywords.
Invalid SIM Keywords	If the SIM is blocked by operator, it may get another response like: sorry, your SIM is blocked now. then you can set blocked as a invalid SIM keywords. The card will show
Service Num	The operator number, it will send SMS back to you.
Query Cmd	SMS command for querying balance
Balance Keys	Same as Balance keywords.

Invalid Bal Keys	Same as USSD.
Invalid SIM Keys	Same as USSD.

Table 3.3.7-2 Related Settings

Click“Add New” button, you can set a tariff list with different destination prefix. ”x ” means for all prefix. You can also do the operations of delete and edit here.

Tariff List Collapse

Data Detail

Data Status: ▼

Destination Prefix:

Tariff: / Submit

Data List Add New Delete

<input type="checkbox"/>	Destination Prefix	Tariff	Operation
<input type="checkbox"/>	x	0.0010/60	[Delete] [Edit]

Figure 3.3.7-3 Tariff List

3.3.8 AT Command

Module Operations

You can select different module and do the operations of restart, stop and start.

Module Operations Collapse

Please Select Module: ▼ Restart Stop Start

Figure 3.3.8-1 Module Operations

Command Operation

Command Operations
[Collapse](#)

Please Select Port: All

01 02 03 04 05 06 07 08
 09 10 11 12 13 14 15 16

Manually Call:

AT Command:

USSD Command:

Response Data

Port	SIM Status	Content	Operation
1A			
2A		at+cpin? +CPIN: READY	
3A			
4A			
5A			

Figure 3.3.8-2 Command Operations

Items	Description
Select port	Select port to do command operations.
Manually call	Check the SIM can send a call or not.
AT Command	AT command to check SIM status.
USSD command	It's for querying balance, number and recharge etc.
SIM status	Display the SIM status.
Content	The response after sending USSD/AT command.

Table 3.3.8-1 Command Operations

3.3.9 USSD Command

USSD Auto Send

USSD command send automatically by the conditions below, Drop means drop the current call after call duration time reached.

Figure 3.3.9-1 USSD Auto Send

On this page, you can send USSD command manually and get USSD response more convenient.

Figure 3.3.9-2 USSD List

Items	Description
Copy	Copy the USSD command to other channel.
Show Current	Display the active SIM cards.
Show ALL SIM	Display all SIM cards.
Clear Data	Clear the USSD response.
Send	Execute the USSD command.

Table 3.3.9-1 USSD list

3.3.10 Switch Card

Basic Settings

The screenshot shows a web interface for 'Basic Settings'. At the top left is the title 'Basic Settings' and a 'Collapse' button. Below are three configuration items: 'SMS Warning' with a dropdown menu set to 'Disabled', 'SMS Receiver for Warning' with an empty text input field, and 'Restart save current card' with a dropdown menu set to 'Disabled'. At the bottom right are 'Submit' and 'Reset' buttons.

Figure 3.3.10-1 Basic Settings

Items	Description
SMS warning	When sim card locked, device will send a sms to destination mobile for warning
SMS Receiver for Warning	The destination mobile which sms send
Restart save current card	Whether to save the current card of each port when restart, so that I can continue to be used after restarting. eg: 1B sim card is active, after restart, the active card will be 1A, but if enable this button, the active card will still be 1B.

Table 3.4.10-1 Basic Settings

Conditions for Locking Card

When the SIM reaches any conditions below, gateway will lock/switch it.


The screenshot shows a web interface for 'Conditions for Locking Card'. At the top left is the title 'Conditions for Locking Card' and a 'Collapse' button. Below are several settings: 'SIM Online Time Checking' with an unchecked 'Enable' checkbox; 'Accumulated SMS Count' with a checked 'Enable' checkbox; 'Reset When Switching' with an unchecked 'Enable' checkbox and a note 'Reset the cond when any other cond is reached.'; 'USSD Query' with an unchecked 'Enable' checkbox and a note 'Send USSD query command before switching.'; 'Accumulated SMS Count' with a text input field containing '100'; and 'Locking Duration' with a text input field containing '0' and a note 'Seconds, 0 means no lock while -1 means permanent lock.'

Figure 3.3.10-2 Locking Card Conditions

We take “Accumulated SMS count” for example to explain the lock/switch function.

Items	Description
Enable or Not	If it is enabled, the consecutive failed calls will be used as a condition for system to check.
Reset When Switching	This condition will be recalculated next time when it is switched by other conditions. For example:
USSD Query	After switch to next SIM, the next SIM will send USSD query command first.
Accumulated SMS Count	The maximum number of SMS count on this SIM card. If the number of SMS sent count reaches this value, the card will be locked if this condition is enabled.
Locking duration	The duration of locking. 0 means no lock while -1 means permanent lock.

Table 3.3.10-2 Locking Card Conditions

If the SIM card is locked by gateway, it will show  , it means locked by device. And you will also see the Description on running status >> call status page.

Lock/switch card conditions	Description on call status page
SIM Online Time Checking	Switch timer fired
Accumulated Call Duration Checking	Talk dur expired
Accumulated Connected Calls Checking	Talk num expired
Accumulated Calls Checking	Call num expired
Consecutive Failed Calls Checking	Failed call num expired
Consecutive No-Alert Calls Checking	Noalert num expired
Consecutive No-Answer Calls Checking	Noanswer num expired
Consecutive No Carrier Calls Checking	Nocarrier num expired
Consecutive Short-Duration Calls Checking	Shortdur num expired
Accumulated SMS Count checking	SMS num expired
Accumulated Failed SMS Count Checking	Failed SMS num expired
Consecutive Failed SMS Count Checking	Con-failed SMS num expired

Table 3.3.10-3 Description in call status

Click the top right-hand corner “add port cfg”, can define different ports with different

lock/switch cards conditions

3.3.11 Inter-Calling

Port inter-calling is a good solution for protecting SIM from blocking. It's a human behavior feature.

Basic Settings Collapse

Port Inter-Calling: * If enabled, device will enable the feature by following conditions.

Send SMS: * If enabled, the callee will send a SMS to caller before inter-calling.

Min Call Duration: * Seconds

Max Call Duration: * Seconds

Figure 3.3.11-1 Basic Settings

Items	Description
Port Inter-Calling	The function will work if it is enabled. (need to set SIM number for every port first).
Send SMS	If it is enabled, the callee will send a SMS to caller before inter-calling
Min Call Duration	The minimum call duration when do port inter calling
Max Call Duration	The maximum call duration when do port inter calling. the call duration will between minimum and maximum duration.

Table 3.3.11-1 Basic Settings

When enable this function, after exceeding the condition below, the idle port will call each other random (need to set the SIM number for every port first).

Conditions Settings Collapse

Time flow control -

By Device Online Time Min Interval: Minutes Max Interval: Minutes

Consecutive Failed Calls Failed Calls:

By Consecutive Calls Consecutive Calls:

Total Call Durations Call Durations: Minutes

Cumulative of Calls Call Sums:

By Continuous SuccCalls Con SuccCalls:

Figure 3.3.11-2 Conditons Settings

If you enable “Send SMS”, you will see the page below.

The screenshot shows the 'SMS List' interface. At the top right, there is a 'Collapse' button. Below the title, there are 'Add New' and 'Delete' buttons. The main area contains a table with the following data:

	SMS Content	Operation
<input type="checkbox"/>	please call me!	[Delete] [Edit]
<input type="checkbox"/>	call me right now!	[Delete] [Edit]
<input type="checkbox"/>	plz call me when u're free.	[Delete] [Edit]

Figure 3.3.11-3 SMS List

The callee will select a SMS content first, then send to caller before inter calling, you can click “Add New” button to add new SMS content and delete or edit the SMS content.

3.4.12 Internet Settings

SIM cards use data, this settings can protect sim card from blocking.

The screenshot below shows time from 20:00 to 23:00, consume 100MB data.

The screenshot shows the 'Data Flow Schedule' interface. At the top right, there is a 'Collapse' button. Below the title, there is an 'Add' button. The main area contains a table with the following data:

Begin	End	Consumption Flow(MB)	Oper
20:00	23:00	100	[Edit] [Del]

At the bottom right, there are 'Submit' and 'Cancel' buttons.

Figure 3.3.12-1 data flow schedule

The screenshot below shows which URL the device will surf for consuming data.

The screenshot shows the 'URL Settings' interface. At the top right, there is a 'Collapse' button. Below the title, there is a text area for 'URLs' containing the following text:

```
www.sina.com.cn
www.facebook.com
www.yahoo.com
```

To the right of the text area, there is a note: "Seperated by comma or CRLF. (Max to 1023 characters)". At the bottom right, there are 'Submit' and 'Reset' buttons.

Figure 3.3.12-2 URL Settings

The apn settings for sim card. Note: if APN settings leave blank, can't consume data.

APN Settings Collapse			
Operator ID	APN	User Name	Password
46001	<input type="text"/>	<input type="text"/>	<input type="text"/>
46000	<input type="text"/>	<input type="text"/>	<input type="text"/>

Figure 3.3.12-3 APN Settings

3.4 SMS Settings

3.4.1 Port Settings

SMS port settings Collapse				
<input type="button" value="Enabled"/> <input type="button" value="Disabled"/> <input type="button" value="Submit"/>				
<input type="checkbox"/>	Port	Port Status	SMS Enabled	SMS Center Number
<input type="checkbox"/>	1A		✓	<input type="text"/>
<input type="checkbox"/>	2A		✓	<input type="text"/>
<input type="checkbox"/>	3A		✓	<input type="text"/>
<input type="checkbox"/>	4A		✓	<input type="text"/>
<input type="checkbox"/>	5A		✓	<input type="text"/>
<input type="checkbox"/>	6A		✓	<input type="text"/>

Figure 3.4.1-1 Port Settings

Items	Description
Port	Device channel
Port status	Display the sim status.
SMS Enabled	Enable or disable the sms feature.
SMS center	SMS center number, it is strongly recommended don't change the SMSC number

Table 3.4.1-1 Port Settings

3.4.2 SMS Send

Basic Settings

Basic Settings Collapse

Sending Interval: 0 - 0 * Seconds

Sms Send Timeout: 60 * 10-300(Seconds) for one short SMS

SMS Format: AUTO

Status Report: Enabled

Sms Send Max Length: 0 * Default 0 is not limited, the unit: byte

Sms Send Max Count: 0 * Default 0 is not limited

Sms Send Over Flow Proc: Refuse * Default rejection

Count rule: 0-0-140-6

Submit Reset

Figure 3.4.2-1 Basic Settings

Items	DesrIPtion
Sending Interval	The sms sending interval for every two sms, if don't set any value, after send a sms, the sim card will send the second sms immediately, if set a value, the sim card will send the second sms after interval time.
Sms Send Timeout	The timeout for sending a sms
SMS Format	PDU and TXT.
Status Report	SMS status report. If it is enabled, after sending SMS successfully, it will get a status report from operator such as sending successfully.
Sms Send Max Lenth	Maximum lenth of long sms
Sms Send Max Count	Maximum counts of sms
Sms Send Over Flow Proc	Refuse: refuse to send the sms. Truncated: truncate the long sms if it is over flow
Count rule	Frist place: count type, 0 is Byte, 1 is character. Second place: encoding algorithm, 0 means support 7bit, 1means doesn't support 7 bit. Third place: single limit,maximum number of bytes or maximum number. Fourth place: multiple header lenth,udhi Charging rules: 0-0-140-6 representation: support 7bit, the maximum single 140 bytes, when sending long sms, the udhi header is 6 bytes.

Table 3.4.2-1 Basic Settings

Send SMS

You can select one or more ports to send SMS to different receiver. Successful and failed SMS records will be show below.

Figure 3.4.2-2 Send SMS

3.4.3 SMS Receive

You can check the latest SMS content and clean up all the SMS content on this page.

Port	Sender	Receiver	Time	Content	Operations
1D					(Details0)
2A					(Details0)
3A					(Details0)
4A					(Details0)
5A					(Details0)

Figure 3.4.3-1 SMS Content

If you want to check more SIM content of this SIM, please click “Details” button.

Then you will see the page below. You can know the SMS details in different port and SIM, reply and delete SMS here.

Figure 3.4.3-2 SMS Details

3.4.4 SMS Forward

Email to message

Figure 3.4.4-1 Email to message

Items	Description
Email to messages	Enabled, use email send to the email address which configured, the content will send by device sim card to destination mobile
Sender	Email address which device receive email
Password	Email password
Mail sending Interval	The device read email period.

Table 3.4.4-1 Email to message

Forward protocol: GSM

When sim card receive sms, will forward the sms to the destination mobile which is set in

“forward number”

Basic Settings Collapse

Forward Protocol:

Port Application Feature Collapse

Port No.	Forward Number	SMS Center
1	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>

Figure 3.4.4-2 forward by GSM

Forward protocol: SIP

Basic Settings Collapse

Forward Protocol:

Server IP: * If set to empty, the SMS will be sent to SIP server.

Content-Type: * the full content type of SIP MESSAGE body.

Content Charset:

Figure 3.4.4-3 forward by SIP

Items	Description
Server ip	Sip server ip, If leave blank, sms will sent to sip server which set in sip settings.
Content-type	sip header, default is text/plain
Content Charset	utf-8 or Base64

Table 3.4.4-2 forward by SIP

Forward protocol: HTTP POST and GET

Basic Settings Collapse

Forward Protocol: HTTP-POST

URL:

User Name: username =

Password: password =

Sender: sender

Receiver: receiver =

Device Port: port

Charset: charset = UTF-8

* The http:// protocol prefix can be omitted.
 * Parameter name = value
 * Parameter name
 Enable

Figure 3.4.4-4 forward by HTTP

Items	Description
Forward protocol	GET: the sms content will be in request line POST: the sms content will be in request body
URL	The URL which the sms forward to.
User name	If destination url need username, can set here.
Password	If destination url need password, can set here.
Sender	The mobile number which send sms to sim card in gateway.
Receiver	If set value, the receiver will be this value, if leave blank and number settings has number, receiver will be sim card number, if leave blank and number settings no number, will don't have parameter receiver
Device Port	The device port
Charset	UTF-8 or BASE64

Table 3.4.4-3 forward by HTTP

Forward protocol: email

Basic Settings Collapse

Forward Protocol:

Multiple Port:

Sender: * Email Account

Password: * Email Password

Sms Forward Multi Ports Collapse

Port No.	Recipient	Remarks
1	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>

Figure 3.4.4-5 forward by Email

Items	Description
Forward protocol	Email: when sim card receive sms, device will use sender email address send email to recipient.
Multiple Port	Disable: all sms send to one email address. Enabled: different port send to different email address.
Sender	Device use this email address to forward sms message to your email addresses.
Password	Email password
Recipient	The destination email addresses

Table 3.4.4-4 forward by Email

3.4.5 SMS Inter-Sending

Scheduled Sending Collapse

Content:

Recipients:

* Semi-colon can be used to separate multiple receivers.

Send To Local SIM
 By Duration: Minimum Minutes: Maximum Minutes:
 By Consecutive Failed Calls Failure Count:
 By Consecutive Calls Call Count:
 By Call Duration Call Duration: Minutes

Figure 3.4.5-1 Scheduled Sending

Items	Description
Content	SMS content. The length is limited to 300 ASCII characters.
Recipients	The phone number of receiver. Semi-colon can be used to separate multiple receivers.
Send To Local SIM	Enable this button. Gateway will do inter-port SMS sending (need set SIM number in every channel first), it's random and by the condition below. For example: channel 1 sends SMS to port 3.
By Duration	SMS sending by device online time, and the time between minimum minutes and maximum minutes.
By Consecutive Failed Calls	SMS sending by consecutive failed calls.
By Consecutive Calls	SMS sending by consecutive calls.
By Call Duration	SMS sending by SIM call duration.

Table 3.4.5-1 Scheduled Sending

3.4.6 SMS Control

SMS control is for users to control the SIM card SMS counts. And the data will not flush even you restart the device or pull off the SIM.

Basic Settings ⬆ Collapse

SMS Ctrl Mode:	FLASH	▼	
Switch SIM:	Enabled	▼	* When the sent SMS reached the maximum.
Only Successful SMS:	Enabled	▼	
Set by Each Port:	Disabled	▼	* Using variable limitation for each port.
Max SMS:	0 means disabled		* to use this feature, please set the NTP server .
Max SMS / Day:	0 means disabled		* to use this feature, please set the NTP server .
Max SMS / Month:	0 means disabled		* to use this feature, please set the NTP server .

SMS Statistics ⬆ Collapse

Data List

	Port	Status	Total SMS	Remain	Daily SMS	Remain	Monthly SMS	Remain	Operations
<input type="checkbox"/>	1A								
<input type="checkbox"/>	2A								
<input type="checkbox"/>	3A								
<input type="checkbox"/>	4A								

Figure 3.4.6-1 Basic Settings

Items	Description
SMS ctrl Mode	Enable by flash
Switch SIM	Switch sim card or not when one sim card reaches the value which set
Only Successfully SMS	Enabled: the failed sms will not count Disabled: count failed sms
Set by Each Port	Enable: different port use different sms limit value. Disable: all ports use same sms limit value.
Max SMS	The maximum sms which sim card can send.
Max SMS/Day	The maximum sms which sim card can send every day.
Max SMS/Month	The maximum sms which simcard can send every month.
Show current	Show active sim cards, default
Show ALL SIM	Show all sim cards(including unactive sim cards)
Batch Reset	Reset the sms count manually.

Table 3.4.6-1 Basic Settings

3.4.7 SMPP Settings

The Short Message Peer-to-Peer (SMPP) is a protocol used by the telecommunications industry for exchanging SMS messages between Short Message Service Centers (SMSC) and/or External Short Messaging Entities (ESME). The protocol is a level-7 TCP/IP protocol, which allows fast delivery of SMS messages.

EJOIN device support SMPP V3.4, it can works as SMPP client and server, but we usually used it as a SMPP server

BASIC settings

Basic Settings
[Collapse](#)

SMPP ⓘ: Port: * Add ':port' to specify a special port.

Data List

<input type="checkbox"/>	Account	Password	Yield Code	Report Code	Dest Addr	TON	Status									
<input type="checkbox"/>	teslenkoserge2	123456	AUTO	AUTO		<input type="checkbox"/>	Transceiver									
	<input checked="" type="checkbox"/> 01	<input checked="" type="checkbox"/> 02	<input checked="" type="checkbox"/> 03	<input checked="" type="checkbox"/> 04	<input checked="" type="checkbox"/> 05	<input checked="" type="checkbox"/> 06	<input checked="" type="checkbox"/> 07	<input checked="" type="checkbox"/> 08	<input checked="" type="checkbox"/> 09	<input checked="" type="checkbox"/> 10	<input checked="" type="checkbox"/> 11	<input checked="" type="checkbox"/> 12	<input checked="" type="checkbox"/> 13	<input checked="" type="checkbox"/> 14	<input checked="" type="checkbox"/> 15	<input checked="" type="checkbox"/> 16
	<input checked="" type="checkbox"/> 17	<input checked="" type="checkbox"/> 18	<input checked="" type="checkbox"/> 19	<input checked="" type="checkbox"/> 20	<input checked="" type="checkbox"/> 21	<input checked="" type="checkbox"/> 22	<input checked="" type="checkbox"/> 23	<input checked="" type="checkbox"/> 24	<input checked="" type="checkbox"/> 25	<input checked="" type="checkbox"/> 26	<input checked="" type="checkbox"/> 27	<input checked="" type="checkbox"/> 28	<input checked="" type="checkbox"/> 29	<input checked="" type="checkbox"/> 30	<input checked="" type="checkbox"/> 31	<input checked="" type="checkbox"/> 32

Figure 3.4.7-1 Basic Settings

Items	Description
SMPP	client: device work as smpp client server: device work as smpp server, if device is in NAT, need to forward the device smpp port first.
Port	Device smpp port
Account	Smpp account for smpp client register.
Password	Smpp account password
Yield Code	Device receive sms, will encoding by the code.
Report code	The code of delivery report.
Dest Addr	Destination address, when device receive sms, will send the sms to smpp client and the recipient address will be the dest addr.
TON	NPI and TON set to 0X01 if enabled.
Status	Smpp client registered in device, will show transceiver
Select ports	Select all ports means all ports with one smpp account.

Figure 3.4.7-1 Basic Settings

Advanced settings

Advanced Settings Collapse

Forward Sms:	Enabled ▼	Sms Report Msg Type:	Deliver_SM ▼
Submit Response:	Submitted ▼	Submit Timeout:	60 * Minutes
Report Response:	Sent ▼	Report Timeout:	60 * Minutes
Auto Clip Routing:	Disabled ▼		

Submit Reset

Figure 3.4.7-2 Advanced Settings

Items	Description
Forward sms	Enabled: forward sms to smpp client. Disabled: don't forward sms to smpp client.
Sms Report Msg Type	Sms report message type, default is Deliver_SM.
Submit response	Submitted: when device receive request, send back submit ok. Sent: when device send sms to smsc successfully, send back submit

	ok. Delivered: when destination mobile receive sms, send back submit ok
Submit timeout	Submit ok timeout value, after 60mins, will timeout.
Report response	Sent: when device send sms to smsc successfully, send back delivery report. Delivered: when destination mobile receive sms, send back delivery report. No respond: don't send delivery report
Report Timeout	Report timeout value, default is 60mins.
Auto Clip routing	Send: the sms send from one port, next time, the same recipient number will also use that port Receive: smpp send a sms from device port, next time, this port receive the sms will forward to the destination address use the original address at the first time
Cache time	The auto clip routing cache time

Table 3.4.7-2 Advanced Settings

Translation list

This settings is used for remove country code, some country, sending sms with country will be failed



Figure 3.4.7-3 Translation List

3.4.8 EIMS Settings

EIMS is a SMS server which connect with Ejoin device by private protocol. It also support HTTP, SMPP to connect the third-party SMS system to send and receive SMS.

Basic Settings

Figure 3.4.8-1 Basic Settings

Items	Description
Server Type	EIMS: connect with EIMS server EMDA: this is for virtual COM port to send sms.
Server address	EIMS server ip, default port 20002
UDP/TCP	Connect protocol, we suggest TCP
User Name	The device account in EIMS
Password	Account's password
Registration status	OK means register successfully

Table 3.4.8-1 Basic Settings

3.4.9 Prefix route

The SMS will be routed to the ports which match the prefix specified here. It's used for saving communication expense. There are two modes for prefix settings. One is operator prefix, the other one is port prefix.

The screenshot below shows operator prefix, one device insert different operator sim cards, just configure the operator prefix, when sms traffic send to this device, device will use same operator to send the sms.

Basic Settings Collapse

Prefix Route:

Data List Add New Delete

<input type="checkbox"/>	Country Code i	Operator ID i	Receive Number Prefix i
No Data			

Submit Reset

Figure 3.4.9-1 operator prefix

The screenshot below shows port prefix, when sms traffic send to this device, device will route the sms by port prefix.

Basic Settings Collapse

Prefix Route:

Submit Reset

Port Prefix Settings Collapse

<input type="checkbox"/>	Port	Port Status	Prefix
<input type="checkbox"/>	1B		<input type="text"/>
<input type="checkbox"/>	2B		<input type="text"/>
<input type="checkbox"/>	3B		<input type="text"/>

Figure 3.4.9-2 port prefix

3.4.10 SMS Filter

SMS filter is used for filtering the spam message, configure the sender number or sensitive word. When the receive sms match with sender or sensitive word, the receive sms will not show in page “SMS receive”, it will shows in SMS Trash Box, and also these sms will not forward to third-party system.(It is case sensitive).

SMS spam filter Collapse

SMS spam filter:

Number prefix blacklist: * Multiple numbers separated by semicolons

Sensitive Word: * Multiple sensitive Word separated by semicolons

Submit Reset

Figure 3.4.10-1 SMS spam filter

SMS Trash Box Collapse

SMS List Refresh Clear

Port	Sender	Time	Content	Operations
1B				(Details0)
2B				(Details0)
3B				(Details0)

Figure 3.4.10-2 SMS trash box

3.4.11 MMS Settings

The settings for sending MMS, need to setup MMSC, MMS proxy and port first.

Settings Collapse

Operator ID	MMSC	MMS Proxy	MMS Port
46001			0
46000			0

Figure 3.4.11-1 proxy settings

You can select one or more ports to send MMS to different receiver. Successful and failed SMS records will be show below.

Send MMS Collapse

Please Select Port: All

01 02 03 04 05 06 07 08
 09 10 11 12 13 14 15 16
 17 18 19 20 21 22 23 24
 25 26 27 28 29 30 31 32

Receiver List:

Subject:

Send MMS Content:
maximum 2400 ASCII charactors or maximum 800 local character!

Send Successful MMS:

Send Failed MMS:

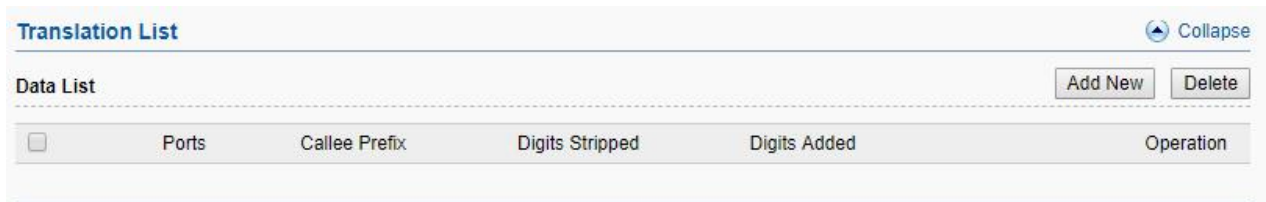
* Semi-colon can be used to separate multiple receivers.

Figure 3.4.11-2 Send MMS

3.5 Application Settings

3.5.1 Translate Settings

This settings is used for remove country code, some country, sending sms with country will be failed



The screenshot shows a web interface for 'Translate List'. At the top right, there is a 'Collapse' button with a blue arrow icon. Below the title, there is a 'Data List' section with 'Add New' and 'Delete' buttons. A table with a dashed border contains the following columns: a checkbox, 'Ports', 'Callee Prefix', 'Digits Stripped', 'Digits Added', and 'Operation'.

Figure 3.5.1-1 Translate Settings

Caller ID Hidden

If you want to hide caller ID, just enabled caller id hidden. Some operators sim card also can hide caller id by add dial prefix.(Note: Need operators support with this function.)



The screenshot shows a web interface for 'CallerId Hidden'. At the top right, there is a 'Collapse' button with a blue arrow icon. Below the title, there are two input fields: 'CallerId Hidden:' with a dropdown menu showing 'Disabled' and a downward arrow, and 'Dial Prefix:' with an empty text box. At the bottom right, there are 'Submit' and 'Reset' buttons.

Figure 3.5.1-2 CallerId Hidden

3.5.2 SIM Pool Settings

When you want to manage SIM cards remotely or intensively, you can use this function.

Basic Settings
⌵ Collapse

SIM Pool ⓘ:

Registration ⓘ:

Server Address:

User Name:

Password:

Status:

* If connect directly to a SIM pool device, disable the registration.

* Add ":",port" to specify a special port.

Other Settings
⌵ Collapse

SIM Allocation Mode:

Use Local Policy ⓘ:

Time To Live:

* Active means request to server and Passive means wait server's request.

* If enabled, the policy of page *Lock/Switch Card* will be used.

* Seconds

Figure 3.5.2-1 SIM Pool Settings

Items	Description
SIM Pool	When you enable it, cards on gateway will be disabled, it can just use these cards on SIM Pool.
Registration	Registered in sim center.
Server Address	SIM center address.
Username	The gateway account in SIM center
Password	The password of gateway account in SIM center.
Status	Show the gateway registration status.
SIM allocation mode	Active means request to server, passive means wait server reply.
Use Local Policy	If it is enabled, the policy of page lock/switch card can be used in SIM Pool.
Time To Live	Keep alive time

Table 3.5.2-1 SIM Pool Settings

3.5.3 Auto Recharge

Auto recharge is based on billing system, if you want to do auto recharge, please configure

billing system first. Recharge template #0 is connect with Ejoin auto recharge system, #1-#4 are third-party recharge system of Bangladesh.

Basic Settings
⌵ Collapse

Auto Recharge:

Recharge Platform:

Server Address: * Add "":port" to specify a special port.

User Name:

Password:

Status:

Other Settings
⌵ Collapse

Min Balance:

If balance reached to this value, the auto-recharge will be trigger.

Figure 3.5.3-1 template #0

Items	Description
Server Address	The auto recharge server address. (the server with EJOIN ear system)
Username	It is created in EJOIN ear system.
password	It is created in EJOIN ear system.
status	Show the registration status.
Min balance	If the balance is lower than the value, the ear system will do auto recharge.

Table 3.5.3-1 template #0

Basic Settings
⌵ Collapse

Auto Recharge:

Recharge Platform:

Server Address:

User Name:

Password:

Operator:

Number Type:

Amount:

Access key:

Repeat Time: Can't be less than 600 seconds

Confirmed Timeout: Seconds

Time recharge control ⓘ: -

Other Settings
⌵ Collapse

Min Balance:

If balance reached to this value, the auto-recharge will be trigger.

Recharge Record
⌵ Collapse

Port	Phone Number	Amount	Time	Status	Description
No Data					

Total: undefined undefined/NaNPages

Figure 3.5.3-2 template #1-4

Items	Description
Server Address	The third-party recharge system address
Username	It is created in recharge system
password	It is created in recharge system.
Operator	The operator ID
Number Type	Prepaid or Postpaid sim card
Amount	Amount to be refilled
Access key	It is created in recharge system
Repeat time	If the sim card is recharged, can't recharge again in repeat time
Confirmed timeout	Query balance time
Time recharge control	Recharge is enabled during the time.

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Recharge record	It shows the recharge record in this page
-----------------	---

Table 3.5.3-2 template #1-4

3.5.4 State Notification

Device send report to the URL which configured, the report include CDR, SMS, call duration data, SMS counts, traffic counts. It's based on HTTP, please check the API document for reference.

Figure 3.6.8-1 Basic Settings

Items	Description
URL	The http report send to this url
Interval time	The period of sending report
CDR	The call detail records
Receive SMS	The receive sms of device
Sent SMS	The sms which send from device by http, smpp and web
Call control	Call duration data, sim cards' call duration time and remain time
SMS control	SMS counts, sim cards' sms count and remain sms count
Traffic control	The sim card data usage

Table 3.6.8-1 Basic Settings

3.6 Advanced Setting

3.6.1 Network settings

VPN settings

A virtual private network (VPN) extends a private network across a public network, such as the Internet. It enables a computer or network-enabled device to send and receive data across shared or public networks as if it were directly connected to the private network, while benefiting from the functionality, security and management policies of the private network. This device works as VPN(PPTP and openvpn) client mode only, if you want to use VPN function, please input the VPN parameter on the VPN settings page.

The screenshot shows the 'VPN Settings' configuration interface. It includes a 'Collapse' button in the top right corner. The settings are as follows:

- VPN Support: PPTP
- Server Address: [Empty text box]
- User Name: [Empty text box]
- Password: [Empty text box]
- CHAP: AUTO
- MPPE: Require-MPPE
- Local IP: 0.0.0.0
- Remote IP: 0.0.0.0

At the bottom right, there are 'Submit' and 'Reset' buttons.

Figure 3.6.1-1 VPN Settings

Network Settings

There are three ways to access the device: web, telnet and serial. web default port is 80, telnet is 23 and serial is the com port you insert. Web configuration is widely used in this device.

The screenshot shows the 'Network Management Settings' configuration interface. It includes a 'Collapse' button in the top right corner. The settings are as follows:

- Web Port: 80
- Telnet Port: 0
- System Telnet Port: 0
- HTTP API Port: 80

A red warning message is displayed: '* Open (> 0) Risk of attack, please use caution'. At the bottom right, there are 'Submit' and 'Reset' buttons.

Figure 3.6.1-2 Network Management Settings

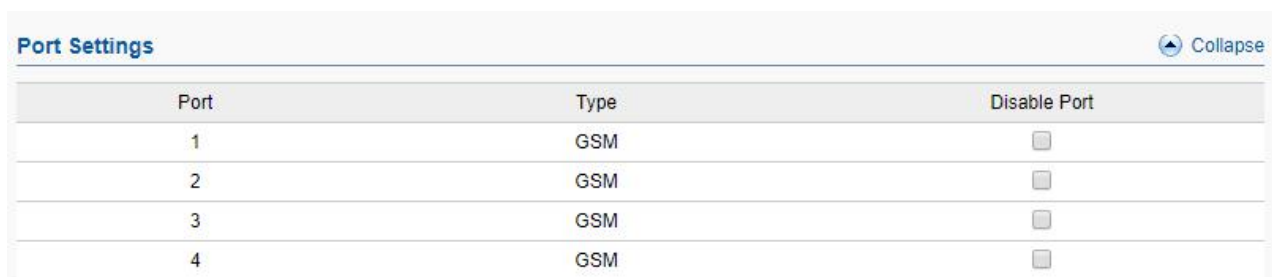
Items	Description
Web Port	Device web management port
Telnet Port	Device telnet port, 0 means disabled
System telnet port	Device system shell by telnet, 0 means disabled

HTTP API port	http api port, default same with web port
---------------	---

Table 3.6.1-1 Network Management Settings

3.6.2 Port Settings

You can disable or enable channel in this page.



Port	Type	Disable Port
1	GSM	<input type="checkbox"/>
2	GSM	<input type="checkbox"/>
3	GSM	<input type="checkbox"/>
4	GSM	<input type="checkbox"/>

Figure 3.6.2-1 Port Settings

3.6.3 LED Settings

Every sim slot has a led to show the sim card status, if the sim card has issue, led will flash.



LED Setting Collapse

Lock Card Flash Frequency ⓘ

Carrier Lock Card: Slow Fast 100

Profile Lock Card: Slow Fast 100




No Balance: Slow Fast 500

Registered Failed: Slow Fast 1000

Other Settings

Port Light Indication: Disable

Figure 3.6.3-1 LED Settings

Items	Description
Carrier lock Card	The sim card blocked by carrier, 
Profile lock Card	The sim card locked by device, 
No Balance	Balance lower than invalid balance, 


Registered failed	Sim card registered failed, 
Port Light Indication	If disabled, the led will not flash even sim card locked or calling

Table 3.6.3-1 LED Settings

3.6.4 Other Settings

Application Feature Collapse

Forbid PLMN Call: Enable * excluding white list numbers
 White Number List: * Separated by comma
 GSM Auto Answer: Enable Auto Answer Time Range: * Secs
 Network Compatible Count: Network Compatible Dur.: * Secs
 Check Balance TimeOut: * Secs Module Reg Timeout: * Secs
 TE Char Set:
 Wireless Mod Heartbeat Det:
 SIM Card Init Judge: Enable
 SMS Failed Retries:

Figure 3.6.4-1 Application Feature

Items	Description
Forbid PLMN call	Calls will be rejected when calling the SIM in gateway.
White Number List	The numbers in white list will not be rejected if forbid GSM call is enabled.
GSM Auto Answer	Applying to calls from GSM network. The gateway will answer the incoming calls automatically when reaches the value.
Network Compatible Count	Sim card registered two times, after failed, shows registered failed
Network Compatible Dur	Sim card registered time period, every time 180s
Check Balance Timeout	The time of query balance
TE Char Set	Set character for USSD response.
Wireless mod Heartbeat Det	The module heartbeat detect time
SIM Card Init Judge	If enabled, the sim card need to read phone before registered

SMS failed Retries	Sms send failed, will retry 5 times
--------------------	-------------------------------------

Table 3.6.4-1 Application Feature

3.7 System Settings

3.7.1 User Mgmt

The default username/password of gateway are root/root. You are allowed to change the password and add new users on this page. Every account has a role, different roles have different right of permissions. Role “admin” has the highest right of permission, role can be added in page “role mgmt”.

User List Collapse

Data Detail

Data Status:

Account:

Password: The password must be composed of 6~15 English letters, numbers or special symbols.

Confirmed Pwd:

Role:

Data List

<input type="checkbox"/>	Account	Role	Operation
<input type="checkbox"/>	root	Admin	[Edit]

Figure 3.7.1-1 User List

Follow the screenshot below, you can set the “allowed IP” or “not allowed IP” for web and telnet access.

Web and Telnet Access Collapse

Allowed IP Addresses Seperated by comma or CRLF. (Max to 1023 characters)

Not Allowed IP Addresses Seperated by comma or CRLF. (Max to 1023 characters)

Figure 3.7.1-2 Allowed IP settings

3.7.2 Role Mgmt

Add new role here, and choose the page the role need to control.

Role Name	Home	Permit	Operation
Admin	System Stati ▼	All Permit	
User	System Stati ▼	<input checked="" type="checkbox"/> SMS Settings <input checked="" type="checkbox"/> EIMS Settings <input checked="" type="checkbox"/> Prefix Route <input checked="" type="checkbox"/> SMS Filter <input checked="" type="checkbox"/> App Settings <input checked="" type="checkbox"/> State Notification <input checked="" type="checkbox"/> LED Settings <input checked="" type="checkbox"/> System Warn <input checked="" type="checkbox"/> Port Status <input checked="" type="checkbox"/> System Status <input checked="" type="checkbox"/> Inter-Call Stats	

Figure 3.7.2-1 Role List

3.7.3 Device Mgmt

Basic Settings

You are allowed to set an alias for device. You can also manage your gateway to reboot automatically as you like. There are two types for you to choose, one is after gateway running specified time, and the other one is scheduled reboot.

Device Alias:
 Auto Reboot: * After running specified times(hours)
 Scheduled Reboot: ▼

Figure 3.7.3-1 Basic Settings

Date and Time

You can choose your time zone or change the NTP server address here. There are three method to get time, manual means set the time manually, NTP means get the time from time

server, base station means get the time by wireless module.

Date And Time Collapse

Time Zone:

Get time mode: ▼

Time Server: * NTP Server's host or IP address.

Figure 3.7.3-2 Date And Time

Temperature Settings

When the temperature lower than the value, Fan stop working. This function need the device has temperature sensor.

Temperature Settings Collapse

FAN Working Temp: °C Stops when fall below this value minus 2 degrees.

Warning Temp: °C

Temp. Notify Period: **Seconds**

Send Warning SMS: ▼ * Send a SMS when reached to warning value.

Send Notify SMS: ▼ * Send a notification SMS every period.

SMS Recipients:

Figure 3.7.3-3 Temperature Settings

Network Management System

We can't access in device web interface with other network if the device is behind NAT, ERM and ETMS are the remote system which can help us access in the device with other network.

Network Management System Collapse

Server Type: ▼

Server IP:

Server Port:

Account: [No account? Register now!](#)

Password:

Status: **OK**

Status Dur. time: 07:15:54

Figure 3.7.3-4 network management system

Items	Description
-------	-------------

Server type	ERMS and ETMS, default ERM web http://www.ejoinerm.com:8080/erm
ERM Server IP	ERM or ETMS server ip
ERM Server Port	The port of ERM or ETMS service. Default is 50000
Account	ERM account. You can also click “Register” to create a new account.
Password	Password of ERM account.
status	The Registration status of gateway with ERM or ETMS server.
Status dur. time	The time elapsed since registered.

Table 3.7.3-4 network management system

SNMP

Simple Network Management Protocol (SNMP) is an application-layer protocol defined by the Internet Architecture Board (IAB) in RFC1157 for exchanging management information between network devices. It is a part of Transmission Control Protocol/Internet Protocol (TCP/IP) protocol suite.

Ejoin SNMP management include SIM card ICCID, IMSI, IMEI, Register status, CDR and SMS.

SNMP Collapse

SNMP: * SNMP listening port

Listener Port: * Read community name for SNMP access

Ro Community: * Community name for SNMP access

RwCommunity: * Community name for SNMP access

Enterprise:

SNMP Trap Server List Collapse

Data List

	IP	Port	Community	Operation
No Data				

Figure 3.7.3-5 SNMP Settings

3.7.4 File Management

File management is used for debugging the device. It has gdb, dying message and call statistics files. You can export or delete the logs from this page.

File List							Collapse	
Index	Dirname	Filename	Modification Time	Type	Size	Operations		
1	/opt/ejoin/var/log	sysmsg.log	2019-10-12 10:52:22	log	12558	Del	Export	
2	/opt/ejoin/var/log	messages.log	2019-10-12 10:52:29	log	313650	Del	Export	
3	/opt/ejoin/var/log	tcpdump.cap1	2019-10-12 10:52:29	cap1	4825263	Del	Export	
4	/tffs/var	1004-1028.gdb.tgz	2019-10-04 18:28:53	tgz	5933	Del	Export	
5	/tffs/var	dyingmsg.tgz	2019-10-09 09:14:50	tgz	57108	Del	Export	

Figure 3.7.4-1 File List

3.7.5 System Update

Import File

On this page, you can update the firmware for device, you can also update other files like kernel, ramfs etc.

Import File		Collapse	
File Type:	Firmware		
File Name:	浏览... 未选择文件。	Submit	Cancel

Figure 3.7.5-1 Import File

Export Configuration

Click “Export” button to export the configuration files.

Export Configuration		Collapse	
Click 'Export' button to export the configuration.		Configuration Type:	Configuration
		Export Configuration	

Figure 3.7.5-2 Export Configuration

Service Data

Click “Export data” button to export the call duration and sms counts data

Service Data		Collapse	
Click 'Export' button to export the service data		Service Data Type:	Call Duration
		Export Data	

Figure 3.7.5-3 Service Data

Restore To Factory

Sometimes there is something wrong with your gateway that you don't know how to solve it, mostly you will reset it. Just click “restore” button, your gateway will be reset to the factory settings.(IP will not change) .



Figure 3.7.5-4 Restore To Factory

3.7.6 Test Network

Manual Ping

It's used to test the reachability of the destination server

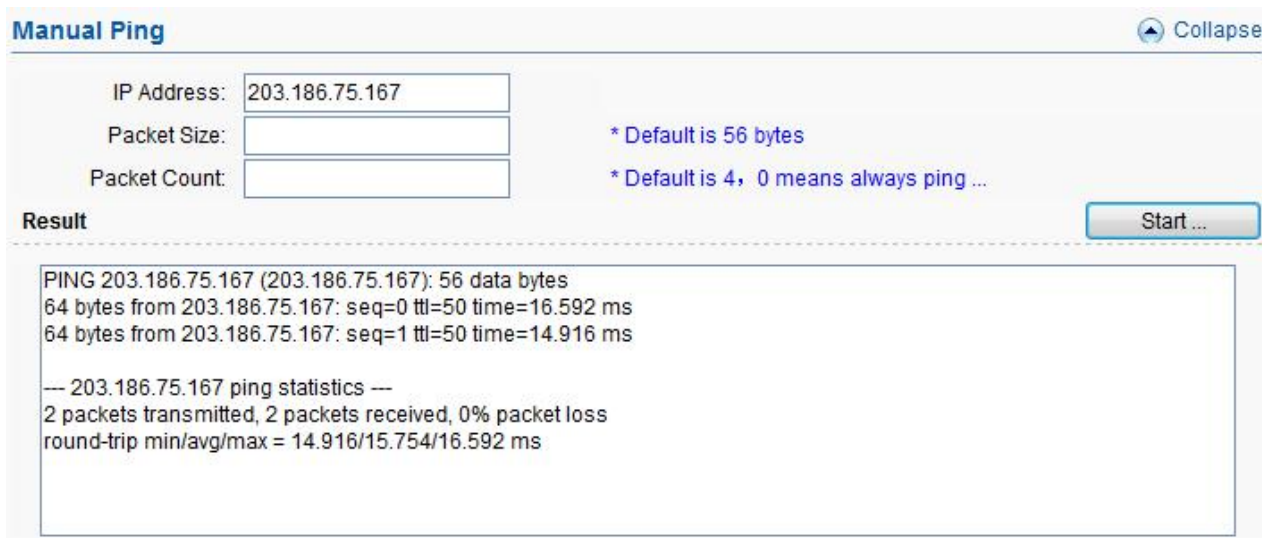


Figure 3.7.6-1 Manual Ping

Capture

Capture the tcpdump log of device, the log will show in “file management”

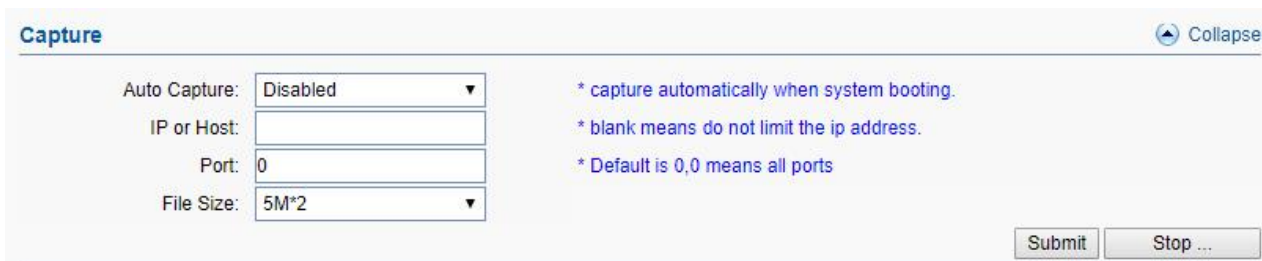


Figure 3.7.6-2 Manual Ping

3.7.7 Monitor System

Log Settings

You can enable the specific progress module running logs to monitor the device working status, and set the log file counts. Device will save 5 logs as default

You can back to File management page to download these log files.

General Settings
⌵ Collapse

Log File Count: * The size of single logfile is 1MB.

UTL Log Level:

SIP Log Level:

Log Server:

Send Log To Server:

Log Modules
⌵ Collapse

POTS

CCM

SIP

SIP Msg

SIP Route

WIRELESS

DSP

ESP

SPC

EBM

ETM

RC

LED

EAR

Figure 3.7.7-1 Log System

CPU&Memory

This page is used to show all the running processes of the device, CPU&Memory usage.

CPU & Memory
⌵ Collapse

CPU & Memory Mon:

Memory Threshold(MB): * When the memory below this value,Sends monitoring information to log server.

CPU Usage:100%		Memory Used:93320KB		Memory Free: 25316KB	
PID	%Mem	%CPU	Process Name		
1067	32%	50%	tLoadFile0		
1029	17%	25%	/sbin/gdb		
4524	1%	19%	top		
1074	32%	0%	tHttpWeb3		
2041	32%	0%	tHttpWeb8		
2042	32%	0%	tHttpWeb9		
1071	32%	0%	tHttpWeb1		
1042	32%	0%	tUtilLog		
1084	32%	0%	tHttpWeb4		
1070	32%	0%	tHttpWeb0		

Figure 3.7.7-2 CPU&Memory

3.7.8 System Warn

It's used to show the system security tips.

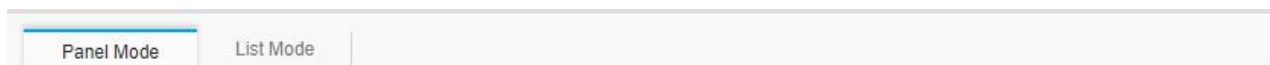


Figure 3.7.8-1 System Warn

3.8 Running Status

3.8.1 Port Status

There are two panels to show port status, panel mode and list mode, click the menu to select the mode.



Panel mode

Port LED display every SIM card status on device. if the sim card is locked, can reset in this page

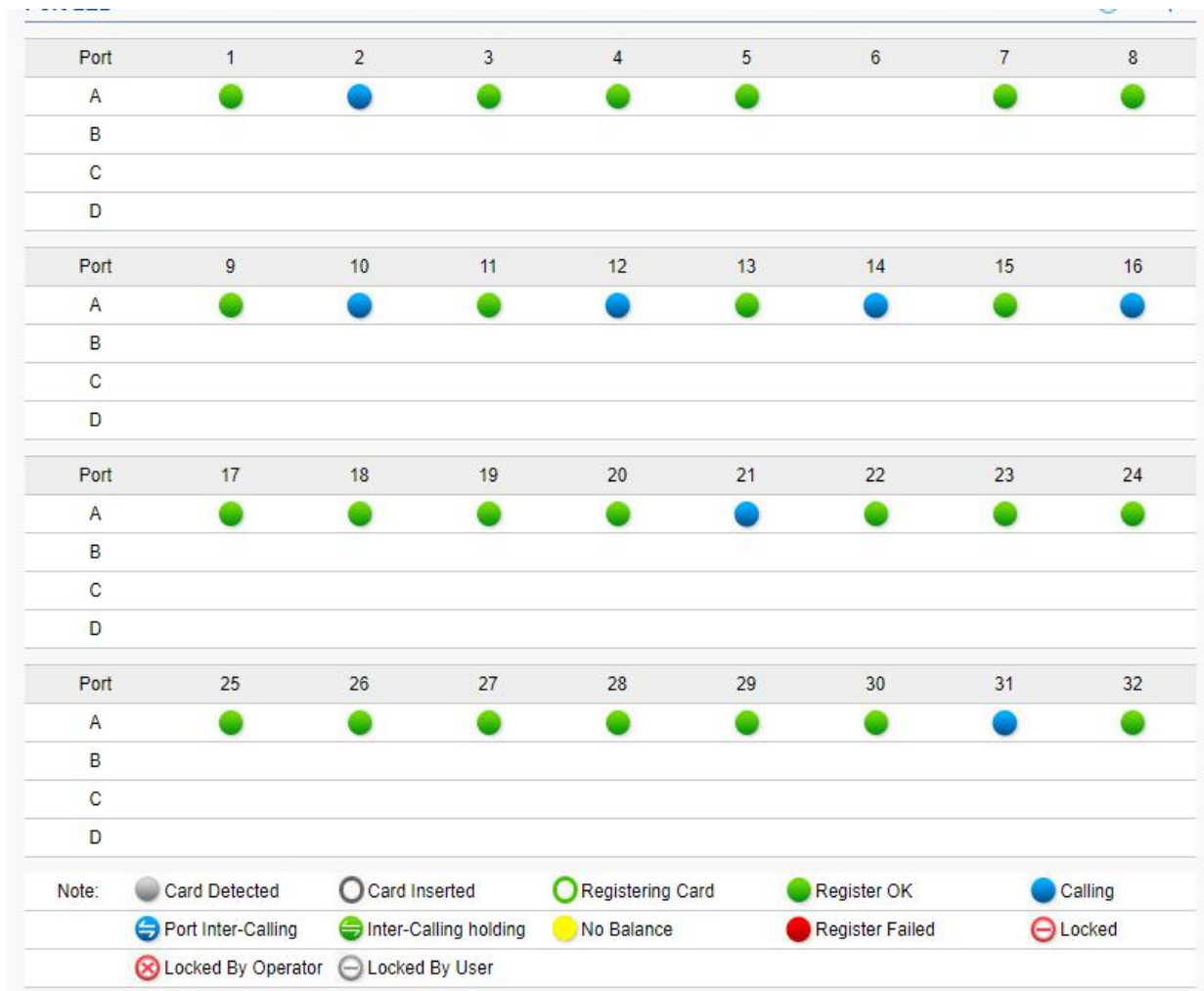


Figure 3.8.1-1 Port LED

Items	Description
	SIM card is detected, but it is not active.
	SIM card inserted, but the module not read the card.
	SIM card inserted, and module already read the card.
	SIM card is registered.
	SIM card is calling.
	SIM card inter-calling
	SIM card is preparing inter-calling
	SIM card is using data
	Low balance(lower than the invalid balance when enable billing system)





	SIM card register failed
	SIM card is lock by device.
	SIM card is locked by operator.
	SIM card is locked by user

Table 3.8.1-1

Port Status

Port status display every wireless module detect status, and register operator information, signal value for channels.























Port	SIM	SIM Number	Balance	Module	Registered	Operator ID	Operator Name	Network	Signal	Description
1	.14		0.00	Yes	Yes	310410	AT&T	4G	 31	
2	.14		0.00	Yes	Yes	310410	AT&T	4G	 31	
3	.14		0.00	Yes	Yes	310410	AT&T	4G	 31	
4	.14		0.00	Yes	Yes	310410	AT&T	4G	 24	
5	.14		0.00	Yes	Yes	310410	AT&T	4G	 31	
6	.13		0.00	Yes	Yes	310410	AT&T	4G	 25	
7	.14		0.00	Yes	Yes	310410	AT&T	4G	 25	
8	.14		0.00	Yes	Yes	310410	AT&T	4G	 27	
9	.14		0.00	Yes	Yes	310410	AT&T	4G	 27	
10	.14		0.00	Yes	Yes	310410	AT&T	4G	 25	
11	.14		0.00	Yes	Yes	310410	AT&T	4G	 31	
12	.14		0.00	Yes	Yes	310410	AT&T	4G	 31	
13	.14		0.00	Yes	Yes	310410	AT&T	4G	 25	
14	.14		0.00	Yes	Yes	310410	AT&T	4G	 31	
15	.14		0.00	Yes	Yes	310410	AT&T	4G	 25	
16	.14		0.00	Yes	Yes	310410	AT&T	4G	 24	
17	.14		0.00	Yes	Yes	310410	AT&T	4G	 24	
18	.14		0.00	Yes	Yes	310410	AT&T	4G	 25	
19	.14		0.00	Yes	Yes	310410	AT&T	4G	 25	
20	.14		0.00	Yes	Yes	310410	AT&T	4G	 22	
21	.14		0.00	Yes	Yes	310410	AT&T	4G	 26	
22	.14		0.00	Yes	Yes	310410	AT&T	4G	 24	

Figure 3.8.1-2 Port Status List Status

Items	Description
Port	Number of GSM/CDMA/WCDMA/LTE ports.
SIM	The SIM Slot number
SIM Status	Indicates whether SIM is registered or not
SIM Number	SIM card number (need to fill in “Number settings”)

Balance	SIM card balance, need to enable billing settings first.
Module	Indicates whether module is detected or not.
Operator	Displays the sim card operator ID
Network	Displays the network 2G/3G/4G
Signal	Displays the signal strength of current SIM card
Description	Display the SIM card status and caller, callee ID.

Table 3.8.1-2

3.8.2 System Status

Device information shows the hardware, software version and wireless module type etc.

WAN status shows the wan port network parameters and MAC address.

License information shows voice, sms and IMEI modify enable or not and so on.

Device Info		Collapse	
Device ID	176a1f94-65009047	Net Management Status	OK
Current Time	2019-10-31 14:18:00 +8:00	Running Time	48 Hr 0 Min 5 Sec
Module Type	GSM	Current Temperature	N/A
Hardware Version	20.0.0.1.13	Firmware Version	0.6.10
Software Version	632-605-926-041-100-000	Released Time	Oct 29 2019 14:13:39 r6539
WAN Status		Collapse	
Connection Mode	Static IP	Connection Status	Connected
IP	192.168.1.41	Default Gateway	192.168.1.1
DNS Server IP	192.168.1.1	MAC Address	00-30-f1-00-90-47
License Info		Collapse	
License File ID	XGPFiNKRjqCdcHMix53dG	Status	OK
Create Time	2019-03-29 10:03	Birth Time	2019-03-29 10:04
Max Rem Time	No limit	Remain time	No limit
Voice	Disable	SMS	Enable
IMEI Modify	Enable	Max call dur.	No limit
Allow ICCID		Deny ICCID	
Allow IMSI		Deny IMSI	
Allow Operator		Deny Operator	

Figure 3.8.2-1 System Status

3.8.3 Media Statistics

Media statistics shows the RTP information when send calls.

Media Statistics Collapse							
Data List Show Cur Show All Clear Data							
<input type="checkbox"/> Port	Codec	Remote IP:Port	Local Port	Txp kts/Bytes	Tx Rate/Bytes	Rx pkts/Bytes	Rx Rate/Bytes
<input checked="" type="checkbox"/> 1B		0.0.0.0:0	0	0 / 0	0 / 0B/s	0 / 0	0 / 0B/s
<input type="checkbox"/> 2B		0.0.0.0:0	0	0 / 0	0 / 0B/s	0 / 0	0 / 0B/s
<input type="checkbox"/> 3B		0.0.0.0:0	0	0 / 0	0 / 0B/s	0 / 0	0 / 0B/s
<input type="checkbox"/> 4B		0.0.0.0:0	0	0 / 0	0 / 0B/s	0 / 0	0 / 0B/s
<input type="checkbox"/> 5B		0.0.0.0:0	0	0 / 0	0 / 0B/s	0 / 0	0 / 0B/s
<input type="checkbox"/> 6B		0.0.0.0:0	0	0 / 0	0 / 0B/s	0 / 0	0 / 0B/s

Figure 3.8.3-1 Media Statistics

Items	Description
Port	Number of GSM/CDMA/WCDMA/LTE ports.
Codec	The voice codec of current call use, g729, g723, g711 etc.
Remote IP:Port	The remote server rtp ip and rtp port
Local Port	Device rtp port
Txp kts/Bytes	Device->>server rtp packets
Tx Rate/Bytes	Device->>server rtp sending rate
Rxp kts/Bytes	Server->>device rtp packets
Rx Rate/Bytes	Server->>device rtp sending rate, 0 means mobile side can't hear voice.

Figure 3.8.3-1 Media Statistics

3.8.4 SMS Statistics

Port	SIM Status	Received	Filtered Out	Sent	Sent OK	Send Failed	Con. Failed	Don't Sent	Sending	Success Rate
Total		0	0	0	0	0	0	0	0	
1B										
2B										
3B										
4B										
5B										
6B										

Figure 3.8.4-1 SMS Statistics

Items	Description
Show Cur	Shows current active sim cards sms statistics.
Show ALL	Shows all sim cards sms statistics.
Clear	Clear all ports sms statistics. The data will be clear after rebooting
Time period	Last hour, last two hours, last day and total call statistics for selecting.
Port No.	Number of GSM/CDMA/WCDMA/LTE ports.
SIM status	Indicates whether SIM is registered or not
Received	The sim card received sms counts.
Sent	The sent sms counts.
Sent OK	The successful sms counts.
Sent failed	The failed sms counts.
Con.failed	The consecutive failed sms counts.
Don't send	The cache sms in queue
Sending	The sending sms
Success rate	Success rate

Table 3.8.4-1 SMS Statistics

3.8.5 Traffic Statistics

Traffic statistics shows the sim card data usage, includes total/day/last day/last hour data usage information.

Traffic Statistics Collapse						
Data List Show Cur Show All Clear Data						
<input type="checkbox"/> Port	Total Flow(MB)	Day Flow(MB)	Last 24 hour traffic(MB)	Last Hour Traffic(MB)	Recent Internet Traffic(MB)	Last Visit URL
<input type="checkbox"/> 1B	0	0	0	0	0	
<input type="checkbox"/> 2B	0	0	0	0	0	
<input type="checkbox"/> 3B	0	0	0	0	0	
<input type="checkbox"/> 4B	0	0	0	0	0	
<input type="checkbox"/> 5B	0	0	0	0	0	
<input type="checkbox"/> 6B	0	0	0	0	0	
<input type="checkbox"/> 7B	0	0	0	0	0	
<input type="checkbox"/> 8B	0	0	0	0	0	

Figure 3.8.5-1 Traffic Statistics

3.8.6 Inter-Call Status

When you enable the inter-calling or inter-SMS, you can monitor the executing details on this page.

Inter-Calling Statistics Collapse									
Data List Show Cur Show All Clear Data									
<input type="checkbox"/> Port	State	Duration	Inc. Calls	Out. Calls	Success	Failed	Sent SMS	Rcvd SMS	Descriptions
<input type="checkbox"/> 1B	IDLE		0	0	0	0	0	0	
<input type="checkbox"/> 2B	IDLE		0	0	0	0	0	0	
<input type="checkbox"/> 3B	IDLE		0	0	0	0	0	0	
<input type="checkbox"/> 4B	IDLE		0	0	0	0	0	0	
<input type="checkbox"/> 5B	IDLE		0	0	0	0	0	0	
<input type="checkbox"/> 6B	IDLE		0	0	0	0	0	0	
<input type="checkbox"/> 7B	IDLE		0	0	0	0	0	0	
<input type="checkbox"/> 8B	IDLE		0	0	0	0	0	0	

Figure 3.8.6-1 Inter-Call Statistics

3.8.7 SMS Query

the device only save 50 receive sms for each port and don't save sent sms record. If you need to save all sms records and query the records, need to connect with eims server first.

Figure 3.8.7-1 SMS Query

3.9 Save and Reboot

Modification will be applied after you saving and rebooting gateway.(All calls will break off when rebooting.)

Figure 3.10-1 Save and Reboot

Chapter IV FAQ

1. What is the default IP, username and password of the device?

Default IP: 192.168.1.67, both username and password are root.

2. How to reset the device to factory settings?

Push the “RST” button near power button 10s then it will reset to factory settings.

3. SIM card registered failed

- 1) Check the SIM card in mobile first
- 2) Check if install the antenna
- 3) Check if the SIM card insert correctly

4. How to update the new firmware?

System settings>>system update>>import file, just upload the firmware file then submit, the

file will upload and save, after that, the device will reboot automatically, 2-3 minutes later, refresh the browser, relogin.

5. Why it doesn't work when I change the settings?

Please save and reboot the device to take effect.

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