

# G100S VoIP Gateway User Manual





Document VER	Firmware VER	Explanation	Time
V1.0	rc2.1.1136	Initial issue	20160808
		Alter the router mode to LAN Port	
V1.1	1.4.1505	Fixed the functional parameters	20170908
		Add the shortcut keys note	



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## **1** Safety Instruction

Please use the external power supply that is included in the package. Other power supply may cause damage to the device, affect the behavior.

- Before using the external power supply in the package, please check the home power voltage. Inaccurate power voltage may cause fire and damage.
- Please do not damage the power cord. If power cord or plug is impaired, do not use it, it may cause fire or electric shock.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- This device is design for indoor use. Do not install the device in places where there is direct sunlight. Also do not put the device on carpets or cushions. It may cause fire or breakdown.
- Avoid exposure the device to high temperature or below 0°C or high humidity.
- Avoid wetting the unit with any liquid.
- Do not attempt to open it. Non-expert handling of the device could damage it. Consult your authorized dealer for help, or else it may cause fire, electric shock and breakdown.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth that has been slightly dampened in a mild soap and water solution.
- When lightning, do not touch power plug, it may cause an electric shock.
- Do not install this device in an ill-ventilated place. You are in a situation that could cause bodily injury.
   Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.



## 2 About Device

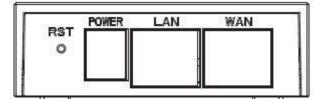
### 2.1 **Product description**

G100S is a new VoIP gateway, its core part is a proven solution for VOIP, and so the performance is stable and reliable. Compact appearance, intelligent software and simple interface, making IP gateway no longer limited to enterprise applications, but also for ordinary home users.

### 2.2 **Device Appearance**



### 2.2.1 Interface and Buttons Description

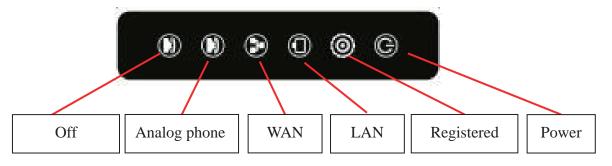


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Description	Function
RST	Restore Default button. When the device is working properly, if you press this button with a sharp object (such as a pencil) until the CPU fast twinkling (about 5 seconds).Restore function will take effect after you release it.
POWER PORT	Connecting to a power source.
LAN PORT	Connecting to a computer or a PBX and so on.
WAN PORT	Connecting to the network.
FXS 1	Connecting to the analog phone.
FXS 2	N/A



### 2. 2. 2 Indicator Lights Description



After you insert the 12V DC power adapter to this device, power light starts to work, analog phone light comes on, then off! Registered light twinkles for a moment, WAN light and LAN light will be twinkling and then enter standby mode, when you pick up the analog phone, the analog phone light will keep on, when you hang up, the light off!

Indicator lights	Description	Function			
	Power Light	off	Power is invalid.		
	Fower Light	on	Power supply is normal.		
	CID Deviatored	off	SIP is not registered.		
$\bigcirc$	SIP Registered	twinkle	SIP registration is failed.		
$\sim$	Light	on	SIP registration is successful.		
	LAN Light	off	LAN port is not connected.		
		twinkle	LAN port is transmitting data.		
		on	LAN port connection is normal.		
		off	WAN port is not connected.		
$(\mathbf{A})$	WAN Light	Twinkle	WAN port is transmitting data.		
		on	WAN port connection is normal.		
	Analog Phone Light	o#	Phone is in standby or not		
		off	connected.		
		on	Phone is being off hook.		



## **3 Getting Started**

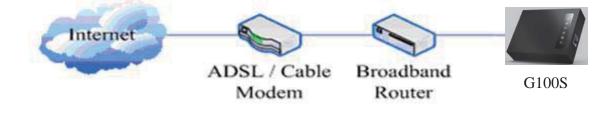
Before you start using the device, please make the following installation:

### 3.1 **Connecting the Power and the Network**

### 3.1.1 Connecting the Network

Before this step, please make sure your environment can satisfy the requirement of broadband network access.

Please connect one end of the network cable to the device's WAN port and the other end connect to your broadband router's LAN port. Now you have completed the network hardware connection. In most of the cases, you need to set your device's network as the DHCP mode. (The default mode of the device is DHCP)



### 3.1.2 Connecting the Power

Before proceeding with this step, please make sure your power connector and electrical outlet for the agreement, at the same time, the voltage and current are also conform to what the device need.

- a) Put the DC port connect to the power port that on the back of the device.
- b) Put the AC adapter plug connect to an electrical outlet, the device starts to boot.
- c) At this point, all of your indicator lights (except the power light) will twinkle together. After the boot is completed, the indicator lights will be on according to your current configuration. (If your lights is unnormal, we need to further configure your network online mode)
- d) If the device has landed on the server, you can start a call right now.



## **4 Basic Phone Operation**

### 4.1 Call Transfer

#### a. Blind Transfer:

During a conversation, you press FLASH (Flash) button, enter \* and the number you want to transfer, then press [#] key to confirm, you can transfer the current call to the third party. (In order to use the feature, you must enable the gateway Call Waiting function and Call Transfer function)

#### b. Attended Transfer:

During a conversation, you press FLASH (Flash) button, enter the number you want to transfer ,wait until telephone connected, hang up directly, you can transfer success. (In order to use the feature, you must enable the gateway Call Waiting function and Call Transfer function)

#### Notes:

- Call Transfer function is implemented under certain condition: there is one way of the two calls is in idle state.
- The call between Gateway (transfer side) and phone A is established, then the gateway and the phone C start another call, now you hang up the phone A, the gateway still can initiate a transfer.
- Only your network phone traffic service providers support the (RFC3515), can this function work properly

### 4.2 Call Hold

#### a. Call Hold and Set Aside

During a conversation, you can press FLASH button, then enter the number to dial and the [#] key to confirm. You can keep your current call and build the third party at the same time. If you press the FLASH (flash) button again, you can switch back. You can only talk with one side while other parties cannot hear your conversation or talk with you. During a conversation, if you press the [\*] button, the device will enter the three-party call mode. (To use this feature, you must enable the Call Waiting function of the gateway. To achieve the three-way calling mode, you must enable the Gateway Three Way Call function)

#### b. Call Hold and Accept Call Waiting

During a normal conversation, if there is third-party dial-in, the handset will be heard beep ~ beep ~ tips, you can use FLASH (flash) button to accept the call waiting. If you press this button



again, you can switch back. You can only talk with one side while other parties cannot hear your conversation or talk with you. (To use this feature, you must enable the Call Waiting function of the gateway)

### 4.3 Shortcut key

The device can call the corresponding shortcut key through the RJ11 connected analog telephone to realize the related operation.

After the network related operation has been modified, it will need to be restarted before it becomes effective.

- #\*\*\*\*: Reboot
- #\*100: Switch to static IP mode
- #\*101: Switch to DHCP mode
- #\*102: Switch to PPPOE mode
- #\*103: Switch to bridge mode
- #\*104: Off to bridge mode
- #\*111: Query IP of WAN port
- #\*222: Read phone number
- #\*50: Set IP of WAN port
- #\*51: Set Gateway of WAN port
- #\*52: Set DNS of WAN port
- #\*53: Set Subnet Mask of WAN port
- #\*90: Cancel the to call transfer
- #\*91: Call transfer of busy
- #\*92: Call transfer of unconditional
- #\*93: Call transfer of no answer



## 5 Web Configuration

### 5.1 Ways to Configure

Device offers two different configure ways to different users:

- Use web browser: the computer users who are familiar with the operation of computers. (Recommended use)
- Use the telnet tool: command line users.

### 5. 2 **Password Configuration**

The setting of the device's browser and command-line can be divided into two login modes: user mode and supervisor mode, under the manager mode, you can view and edit all of the options; while the **Auto Provision**> option cannot be viewed under the user mode.

When a tip: 'Please enter your password' appeared on the device, you enter different information will into different modes:

- User mode:
  - Username: admin
  - Password: admin
- Manager mode:
  - Username: root
  - Password: admin

### 5.3 **Browser Configuration**

When the device and computer are connected to the network successfully, you enter the device WAN port IP address in the browser (gateway IP address can be get by dialing \* 111 #) http://xxx.xxx.xxx / to see the web management interface login page (as shown below). Enter username and password , click <**Login**> button ,you will enter the setting pages .

Username:

Password:

Login



If you have not save your settings, the settings will be restored to the previous state unchanged when you boot phone next time .In order to save your settings, please click the **Save**> button that belongs to configuration settings in the **System**, after this process ,your device configuration will take effect immediately without reboot again.

Note: LAN port IP address (192.168.10.1).

## 5.4 WEB Pages Function Explanation

### 5.4.1 Status

### 5. 4. 1. 1 **Overview**

Status	✓ Status		
» Overview	System		
» Routes	Model	G100S	
	Hardware Version	v1.0	
» System Log	Firmware Version	1.4.1505	
" by stern Log	Mac Address	00:a8:59:dc:a6:a6	
A System	> Serial Number	20160712DCA6A6	
System	Local Time	Sat Sep 9 15:04:11 2017	
	Uptime	0h 38m 30s	
Network	> Load Average	0.22, 0.12, 0.14	
VolP	> MEM Info	18060 kB / 61744 kB (29%)	
Phone	> Network	l Status	
ogout	> Connection Type	dhcp	
	IP Address	172.18.2.250	
	Subnet Mask	255.255.0.0	
	Default Gateway	172.18.1.1	
	Primary DNS	202.96.134.133	
	LAN	Status	
	IP Address	192.168.10.1	
	Subnet Mask	255.255.255.0	



		7/	ere are no active leases.	
Hostname	IPv4-Address		MAC-Address	Leasetime remaining
OHCP Leases				
DND	c	)FF		
	Port 1			
Server		I/A		
Account	Ν	I/A		
	Line 2			
Server	Ν	I/A		
Account	N	I/A		
	Line 1			
Line Status				

Name	Explanation				
System					
Model	Displays device model.				
Hardware Version	Displays device hardware version.				
Firmware Version	Displays device software firmware version number.				
MAC Address	Displays the current MAC address.				
Serial Name	Displays device serial number.				
Local Time	Displays the current system time				
Uptime	Displays device runtime				
Load Average Displays the current average load value					
MEM Info	Displays the current memory status				
Network (WAN Sta	atus)				
Connection Type Displays the current networking way.					
IP Address Displays the current IP address.					
Subnet Mask Displays the current subnet mask.					
Default Gateway	Displays the default gateway.				
Primary DNS	Displays the primary DNS.				
Line status	Line status				
Displays the curren	t SIP line 1-2 registries number, server and status.				
DND	Open this option, any dial-in call will be blocked, the caller will be prompted				
	that the device cannot be used, but you can establish a call with the device.				
DHCP Leases	Displays host information that has been assigned IP parameters by DHCP				



#### 5.4.1.2 Routes

With this function, you can see the ARP table in the routes. The hosts IP MAC information that had connected with the device recently will be stored in the ARP list.

		Routes				
» Overview		The following rules are currently	active on this system.			
» Routes		ARP				
» System Log		IPv4-Addro	ss	MAC-Address	Inter	face
	124	172.18.13.1	02	08:d4:0c:b8:0a:6a	eth	0.2
System	>	192.168.10	5	54:ee:75:90:c1:72	br-	an
Network	>	172.18.2.2	6	b4:ef.fa:21:a6:2b	eth	0.2
VolP	>	172.18.1.1		48:7a:da:ea:70:21	eth0.2	
Phone	>					
ogout	>	Active IPv4-Routes				
		Nctwork	Target	IPv4-Gateway	Metric	Table
		wan	0.0.0.0/0	172.18.1.1	0	main
		wan	172.18.0.0/16		0	main
		lan	192.168.10.0/24		0	main

### 5. 4. 1. 3 System Log

It displays activity information of the system.



### 5.4.2 System

### 5. 4. 2. 1 System

### 5. 4. 2. 1. 1 General Settings

Status >	System	
System 🗸	Here you can configure the basic aspects of you	r device like its hostname or the timezone.
» System	System Properties General settings Logging Language	
» Administration	Local Time	Sat Sep 9 15:07:06 2017 Sync with browser
» Time Synchronization	Hostname Timezone	VoIP Asia/Shanghai ▼
» Backup / Flash Firmware		
» Auto Provision		Reset Save & Apply
» Reboot		
» Auto-Reboot		
Network >		

Name	Explanation
General Setting	IS
Local Time	Displays the current system time
Hostname	Name of the device, similar to the computer' name. The default is VoIP, you
	can modify it by yourself.
Timezone	Set the time zone of the area where you are.

### 5. 4. 2. 1. 2 Logging

Status >	System		
System 🗸	Here you can configure the basic aspects of your device lik	e its hostname or the timezone.	
» System	System Properties General settings Logging Language		
» Administration	System log buffer size	16 @ kiB	
» Time Synchronization	External system log server External system log server port	0.0.0.0 514	
» Backup / Flash Firmware	Log output level	Debug v	
» Auto Provision	Cron Log Level	Normal	
» Reboot		Reset Save	& Apply



Name	Explanation
Logging	
System log buffer size	Set the log buffer size.
External log system server	Set the address of the external log server.
External Log server port	Set the port of the external log server.
Log output level	Set the level of log output.
Cron log level	Set the level of Cron log.

#### 5. 4. 2. 1. 3 Language

In this page, you can configure the language that the device currently uses.

Status >	System
System 🗸	Here you can configure the basic aspects of your device like its hostname or the timezone.
» System	System Properties General settings Logging Language
» Administration	Language English <b>v</b>
» Time Synchronization	
» Backup / Flash Firmware	Reset Save & Apply

### 5.4.2.2 Administration

In this page, you can modify the current user's password.

Status >	Router Password		
System 🗸	Changes the password for accessing the device		
» System	Password	🤌 🔘 max length is 30	2
» Administration	Confirmation		21 12
» Time Synchronization			
» Backup / Flash Firmware			Reset Save & Apply



### 5. 4. 2. 3 Time Synchronization

Status >	Time S	Synchronization		
System 🗸		Enable NTP client	2	
» System		NTP server candidates	209.81.9.7	
» Administration	8			
				Reset Save & Apply
Name		Explanation		
Enable NTP cli	ent	Set the enable or disa	able NTP client	
NTP server		Set the NTD converse	andidataa	
candidates		Set the NTP server ca	andidates	

### 5. 4. 2. 4 Backup/Flash Firmware

Status >	Flash operations	
System 🗸	Actions Configuration	
» System	Backup / Restore	
» Administration	Click "Generate archive" to download a tar archive y possible with squashfs images).	of the current configuration files. To reset the firmware to its initial state, click "Perform reset" (onl
» Time Synchronization	Reset to defaults:	Perform reset
» Backup / Flash Firmware	To restore configuration files, you can upload a pr	eviously generated backup archive here.
» Auto Provision	Restore backup:	选择文件 未选择任何文件 Upload archive
» Reboot	Flash new firmware image	
» Auto-Reboot	Upload a sysupgrade-compatible image here to re OpenWrt compatible firmware image).	place the running firmware. Check "Keep settings" to retain the current configuration (requires an
Network >	Keep settings:	8
VoIP >	Image:	选择文件 未选择任何文件 Flash image

Name	Explanation	
Backup/Restor	re	
Backup / Resto	re the current system configuration file or reset PandoraBox. (Squashfs only valid	
firmware)		
Flash new firmware image		
Keep settings	Preserving configuration that currently set. If the option is not selected, the	



	device will automatically restore to factory configuration after upgrade.
Image	Selects the firmware you need to update, then click <flash image="">.It is set</flash>
	up.

Status >	Backup Configuration
System 🗸	Actions Configuration
» System	export config Save VoIP settings
» Administration	Export config txt
» Time Synchronization	import config
» Backup / Flash Firmware	选择文件 未选择任何文件 import config.txt
» Auto Provision	

Name	Explanation
Export config	
Export current c	levice configuration file.
Import config	
Select the profil	e you need, then click < <b>import config.txt</b> >.It is set up.

### 5. 4. 2. 5 **Auto Provision**

Status >	nmon Settings			
🗛 System 🗸	Configuration File Version	2.0002		
82 1.7 H W	Server Address	0.0.0.0		
» System	Username	user		
	Password	<i>"</i>	28 28	
» Administration	Configuration File Name			
	Encryption Key			
» Time Synchronization	Protocol Type	FTP	•	
Backup / Flash Firmware	Update Interval	1 Ø Hour		
	Update Type	Disable	•	
Auto Provision	Check Digest			
» Reboot	Enable DHCP Option 66			

Common Setting		
Name Explanation		
Configuration File Version	Displays the version number of current system configuration file, if the Terminal founds the CFG configuration file that has downloaded same with configuration file that are running, the device will not run it. Or if the terminal matches	



configuration file via Digest verification way, as long as the configuration on the	
server has been modified, or the terminal configure do not match with the	
configuration on the server, the terminal will to download and update.	
Configures the FTP server address. The server address can be a IP form, such	
as 192.168.1.1, it may in the form of domain names also, such as	
ftp.domain.com. And the system also supports server setting subdirectory	
function, such as the system can configure server address as	
192.168.1.1/ftp/Config/form or ftp.domain.com/ftp/config form .It means, the	
server address to access is 192.168.1.1 or ftp.domain.com, the file storage	
path is / ftp / Config /. Subdirectory can end without "/".	
Configures username of FTP server; TFTP protocol need not configuration; if	
you are using ftp protocol download mode, here is no need to fill, the default is	
the default user anonymous FTP.	
Configures FTP server user's password.	
Configures the name of these configuration file need to upgrade; if you use the	
automatic upgrade feature , this project configuration is empty generally, so our	
equipment will use its own MAC address as the file name to get the file on the	
server.	
If the configuration file need to update has been encrypted, you need to enter	
the encryption password in this configuration.	
Selects the server type. There are three types: FTP, TFTP and HTTP	
Configures the interval upgrade time in hours	
Configures the interval upgrade time in hours.	
Automatic Update Types:	
1. Update after rebooting.	
2. Deactivated.	
3. Updated regularly.(How often interval updated)	
Configure whether to use Digest mode.	
Enable/Disable DHCP option 66	



Network >	TR069 Settings			
VoIP >	Enable TR069			
	ACS Server Type	Common	•	
Phone >	ACS Server URL	0.0.0		
Phone >	ACS User			
	ACS Password	2	25	
Logout >	TR069 Auto Login			
	INFORM Sending Period	3600 Seconds		

Reset Save & Apply

Name	Explanation		
Enable TR069	Enable/Disable TR069		
ACS Server	Used for choosing ACS server type, the terminal supports telecommunications		
type	and the general two kinds ACS server currently.		
ACS Server	Enter the ACS server address.		
URL	Enter the ACS server address.		
ACS User	Enter the ACS server verification username.		
ACS	Enter the ACS convert verification upor personword		
Password	Enter the ACS server verification user password.		
TR069 Auto	If you selected the automatic login, after rebooting the phone, you will not be		
	prompted to enter username and password, but the correct username and		
login	password you entered before link to the ACS server.		
INFORM			
Sending	Check the system every 6 minutes by default.		
Period			

#### 5.4.2.6 **Reboot**

Clicking the < Execute Restart> button, the device will reboot.

Rebooting will not lost the saved configuration ,in the process of rebooting, the network connection will be interrupted temporarily .

Note:During the rebooting, please ensure stable power supply, avoid forced interruption.

#### 5. 4. 2. 7 **Auto-Reboot**

Config AutoReboot to restart gateway at specific time every day.



### 5.4.3 **Network**

### 5.4.3.1 WAN

>	Global Network	Options		
>				
~	Bridge Mode Save & Apply			
	-			
	Network Configu	uration		
	Basic Settings	VPN Settings		
	Connection Type		DHCP	T
	Use Custom DNS Save & Apply			
	>	Bridge Mode  Save & Apply  Network Configu  Basic Settings  Connection Type Use Custom DNS	>     Bridge Mode       Save & Apply         Network Configuration         Basic Settings         Connection Type       Use Custom DNS	Bridge Mode       Save & Apply       Network Configuration       Basic Settings       VPN Settings       Connection Type       Use Custom DNS

Name	Explanation		
Global Networl	Global Network Configuration		
	Use the bridge mode (transparent mode): Bridge mode will make the device no		
Bridge Mode	longer set the IP address for achieving the LAN port, LAN port and WAN port		
	will be connected to the same network.		
Network Config	guration (Basic Settings)		
The mode of de	vice connects to the network .According to the network environment, you need to		
select the appro	priate network mode. The device offers three modes:		
	If your ISP server provides a fixed IP address, you can select this mode. After		
Static IP	selecting, you must fill in a static table: Static IP address / Subnet Mask /		
	Gateway / DNS and other related information. If you do not know this		
	information, contact your ISP provider or network administrator for assistance.		
	When you select this mode, the network-related information will be		
DHCP	automatically obtained from the DHCP server, you do not need to manually		
	enter these fields.		
PPPoE	When you select this mode, you must input your ADSL account and password		
Use Custom	When you select this mode, you must enter the DNS server address. If you		
DNS	have not, the device will get the DNS server address automatically.		



Status > Glo	bal Network Options		
System >			
	ridge Mode		
» WAN			
» LAN	twork Configuration		
» Static Routes	Basic Settings VPN Settings		
» Diagnostics	rotocol PPTP T		
» Check-WAN P	erver Address Address		
» QoS A	AP/CHAP password		
Name	Explanation		
Network configuratio	n (VPN Settings)		
Protocol	Choose the PPTP type, the L2T represents the VPN L2TP, and the PPTP represents		
PTOLOCOI	VPN PPTP, you must only choose one of them as the current state.		
Server Address	Configures the VPN server address.		
PAP/CHAP			
Username	Configures the VPN server username.		
PAP/CHAP Password	Configures the VPN server password.		
Bring Up on Boot	Configures VPN settings auto start after rebooting.		

### 5.4.3.2 LAN

Name	Explanation			
Common Configu	Common Configuration			
IPv4 address	Set the IP address to LAN por. Default is 192.168.10.1			
IPv4 netmask	Set the netmask to LAN port. Default is 255.255.255.0			
DHCP Server				
Ignore interface	Disable DHCP for this interface.			
Start	Set the IP address Start of <b>DHCP Server</b> . Default is 100 (192.168.10.100).			
Limit	Set the IP address max of DHCP Server. Default is 150			
Leasetime	Set the DHCP Leasetime			
Static Leases				
Static leases are used to assign fixed IP addresses and symbolic hostnames to DHCP clients.				
They are also required for non-dynamic interface configurations where only hosts with a				
corresponding lease are served.				



### 5.4.3.3 Static Routes

Status	>	Routes					
System	>		i interface and gateway a certain ho	st or network can be reached.			
Network	~	- Static IPv4 Routes -					
» WAN		Interface 🖷	Target	IPv4-Netmask	IPv4-Gateway	Metric	МТU
» LAN			Host-IP or Network	if target is a network			
» Static Routes		Add	1	This section contains no values yet			
» Diagnostics							
121						Reset	Save & Apph

Name	Explanation	
Interface	Configures the interfaces sent out by packets.	
Target	Configures the destination IP address that packets needs to reach	
IPv4-Netmask	Configures the subnet mask of target IP address	
IDv4 Cotowov	When you Specify an IP address, the device will next transmit the data	
IPv4-Gateway	packets meet the requirements to this address.	
Metric	The maximum steps number send by packets.	
MTU	The maximum bytes number send by packets.	

### 5.4.3.4 Diagnostics

#### 5. 4. 3. 4. 1 **Diagnostics**

#### 5. 4. 3. 4. 1. 1 Ping Communication Test

Enter the destination address, which can be a legitimate IP address or a legitimate domain. Click the **<Ping>** button, the device will send a ping packet to detect whether the destination can be reached, and the results will appear in the box below.



Network Utilities		
bing.com	bing.com Traceroute	bing.com Nslookup
PING bing.com (13.107.21.200): 56		
4 bytes from 13.107.21.200: seq= 4 bytes from 13.107.21.200: seq=1	) ttl=117 time=10.030 ms L ttl=117 time=12.254 ms	
4 bytes from 13.107.21.200: seq=3 4 bytes from 13.107.21.200: seq=3 4 bytes from 13.107.21.200: seq=4	3 ttl=117 time=9.341 ms	

#### 5. 4. 3. 4. 1. 2 **Traceroute Detection**

Enter the destination address, which can be a legitimate IP address or a legitimate domain. Click **<Traceroute>** button, the device will send tracert packets to detect through which routes to arrive at the destination address, and the test results will be displayed in the box below.

Network Utilities bing.com Ping	bing.com Traceroute	bing.com Nslookup
traceroute to bing.com (204.79.197 1 172.18.1.1 1.012 ms 2 113.110.224.1 4.926 ms 3 121.34.244.209 2.223 ms 4 183.56.64.129 2.295 ms 5 183.56.65.10 7.090 ms 6 202.97.35.246 6.800 ms 7 202.97.60.46 11.267 ms 8 202.97.186 10.726 ms 9 202.97.121.126 12.051 ms 10 104.44.212.12 10.623 ms 11 * 12 * 13 *	.200), 30 hops max, 38 byte packets	

#### 5. 4. 3. 4. 1. 3 Network Detection

Enter the destination address, which can be a legitimate IP address or a legitimate domain . Click <**Traceroute**> button, the test results will be displayed in the box below.



Network Utilities bing.com Ping	bing.com Traceroute	bing.com Nslookup
Server: 127.0.0.1 Address 1: 127.0.0.1 localhost Name: bing.com Address 1: 13.107.21.200 Address 2: 204.79.197.200 a-0001.	a-msedge.net	

#### 5. 4. 3. 4. 2 Network Packets Capture

When you need to catch the packets that through the device wan port, click **<Start>** button, and then choose to save or open according to the dialog box .

Network Packets Capture		
start		

### 5.4.3.5 Check-WAN

Name			Explanation			
» Check-WAN						
» Diagnostics						Reset Save & Apply
» Static Routes		Attemp	ts Before WAN Recovery	3	▼.	
		and the second se	ts Before WAN Failover	3	• •	
		Large automatic	Monitor ICMP Host(s) Monitor ICMP Timeout	Gateway 3 sec.	*	
» WAN			Monitor Interval	5 sec.	¥	
Network	~		Level1 🖻	wan	T	
System	>	Enable				
		Check-WAN allows settin	g Priority level for multiple uplinks	and check contecting to auto s	witch	
Status	>	Check-WAN				

Name	Explanation
Enable	Select on or off online detection
Priority Level1	Select detection interface
Health Monitor Interval	Set the detection interval
Health Monitor ICMP Host(s)	Set the ICMP host type (PING detection or DNS detection)
Health Monitor ICMP Timeout	Set the ICMP host timeout
Attempts Before WAN Failover	Number of attempts before configuring failover



Attempts Before WAN Recovery

Number of attempts before configuration failure recovery

### 5.4.3.6 **QoS**

Status	>	Qualit	ty of Servi	ce						
System	>	F	1	ze netwo <mark>rk t</mark> ra	ffic selected	by addresses,	ports or services.			
Network	~	Interfa	ices							Delete
» WAN		WAN								
» LAN			Enable Calculate Half-dup	e overhead						
» Static Routes			Downloa	id speed (kbit,	/s)		1024			
» Diagnostics			Upload s	peed (kbit/s)			128	22		
» Check-WAN							Add			
» QoS		- Classif	ication Rules							
VolP	>	Target	Source host	Destination ho st	Service	Protocol	Ports	Number of bytes	Comment	Sort
Phone Phone	>									
Logout	>	Ĺ ▲	all 🔻	all 🔻	all 🔻	all 🔻	22,53 •		ssh, dns	Delete
	E.,	r ▼	all 🔻	all 🔻	all 🔻	TC 🔻	20,21,25,8 •		ftp, smtp, htt	Delete
		€▼	all 🔻	all 🔻	all 🔻	all 🔻	5190 •		AOL, iChat,	Delete
		Add								
		-								

Reset Save & Apply

Name	Explanation				
Interfaces (WAN)					
Enable	Set if the current interface to enable QoS service				
Classification Group	Selects the interface classification group				
	Set whether to enable the calculation of overhead functions for				
Calculate Overhead	calculating packets, reduce upload and download rates to avoid link				
	saturation				
Half-duplex	Set whether to enable half duplex mode.				
Download Speed	Set download speed of the interface, units (kbit / s)				
<b>Classification Rules</b>					
Target	Selects the target priority				
Source Host	Selects a specific IP as the source host				
Destination Host	Selects a specific IP as the destination host				



Service	Selects the application service of what the category groups need .
Protocol	The protocol can be selected as :all optional , TCP, UDP, IGMP, etc.
Ports	The port number can be selected as all or a custom specified port.
Number of Bytes	Fills the data need to be limited.
Comment	Fills comment information.
Sort	Set the taxonomic groups sorting , when the targets have same level, the
3011	device will prefer to use the preceding rules

### 5.4.4 **VoIP**

### 5. 4. 4. 1 Line1 & Line2

Here, you can configure the SIP server of SIP 1 and SIP 2.

Status >	Line Settings				
System >	Status				
Network >	Registered				
VoIP V	Settings           Basic Settings         Advanced Settings				
» Line1	Server Address	172.18.1.88			
» Line2	Server Port Authentication User Authentication Password	5060 8207 2007			
» Common	Phone Number	@ max length is 60 8207			
» Dial Peer	Display Name Realm	8207			
» Debug	Enable Registration	2			
Phone >	4	Reset Save & Appl			
Name Explanation					
Status					
SIP registration status display: if the registration is successful, it will display 'Registered', while					
SIP registration	status display. Il the registratio	in is succession, it will display registered, write			
-	will display 'FAILED'.	The succession, it will display <b>Registered</b> , while			
-	will display 'FAILED'.	The succession, it will display <b>(registered</b> , while			
not successful v	will display 'FAILED'.	on server address, supports these address in the			
not successful v Settings(Basic	will display 'FAILED'.				
not successful v Settings(Basic Server	will display ' <b>FAILED</b> '. Settings) Configures Your SIP registrati	on server address, supports these address in the			
not successful v Settings(Basic Server Address	will display 'FAILED'. Settings) Configures Your SIP registrati form of domain name. Configures SIP registration se	on server address, supports these address in the erver signaling ports.			
not successful v Settings(Basic Server Address Server Port	will display 'FAILED'. Settings) Configures Your SIP registrati form of domain name.	on server address, supports these address in the erver signaling ports.			
not successful v Settings(Basic Server Address Server Port Authentication	will display 'FAILED'. Settings) Configures Your SIP registrati form of domain name. Configures SIP registration se	on server address, supports these address in the erver signaling ports.			



Password	
Phone	Configures the number registered to the SIP server, if it is empty, will not initiate
Number	registration.
	Configures the display name, when you make a call, the called party (did not
Display Name	give you a name) can display the configuration parameters that be allowed to
	input the English alphabet.
	Configures SIP local domain name. If the server does not require local domain
	SIP terminal is the specified domain, local domain can be configured with the
Realm	address or domain name that same with server. To simplify user input, users
	can do not enter the domain name, the system will automatically get the server
	address to fill it as 'domain realm'.
Enable	Configures enable/disable registration.
registration	

Status	>	Line Settings	
System	>	Status	
Network	>	Registered	
VolP	~	Settings Basic Settings Advanced Settings	
» Line1		Outbound Proxy	
» Line2		User Agent DTMF Type	Voip Phone 1.0
» Common		Server Type Server Name	COMMON
» Dial Peer		Forward Type Forward Number MWI Number	
» Debug		Outgoing Call Without Registration Blocking Anonymous Call	
Phone	>	Transfer Timeout	0 @ (0-65535) Seconds
Logout	>	Response Single Codec Use STUN	
		Registration Expiration	3600 (0-65535) Seconds
		Keep Alive Interval	30 (0-65535) Seconds
		Keep NAT Alive	<ul> <li>✓</li> </ul>



Keep Authentication	
Enable Strict Proxy	
Enable DNS SRV	
Enable Rport	
Enable PRACK	
Long Contact	
Convert URI	
Enable Session Timer	
Subscribe Expiration	300
Enable Subscribe	
Transportation Protocol	UDP T
Auto TCP	
SIP Version	RFC3261
Local Port	5060
RFC Privacy Edition	NONE
Use Quote in Display Name	
Enable GRUU	
RTP Encryption Key	
RTP Encryption	

Name	Explanation				
Settings (Advanced Settings)					
Outbound Proxy	Enter the IP or FQDN address of outbound proxy server provided by the				
	service provider.				
User Agent	User Agent Terminal				
	Set DTMF transmit mode, there three types totally : The default is In-band				
	In-band				
DTMF Type	• RFC2833				
	SIP_INFO				
	Different service providers may offer different modes.				
Server Type	Selects signaling encryption type or special server type				
Server Name	Names the server.				
	Selects call forward mode. Call Forward (off by default)				
	Off: close call forward				
	Unconditional: inbound calls will be forwarded to the specified number				
Forward Type	Busy: inbound calls will be forwarded to the specified number when the				
i olwala i ypo	device is buys.				
	<ul> <li>No answer: Inbound calls have not been answered after specified</li> </ul>				
	time, will be forwarded to the assigned number, during the this				
	proceed, the device will prompt a call.				
Forward Number	Configures the forward number.				
MWI Number	Configures the MWI number, achieve Listen to achieve sip voicemail				
	notification and listening .				



Outgoing Call Without Registration	If you configure this item, you can also call through a proxy server without registration.		
Blocking Anonymous Call	Configures blocking anonymous call.		
Transfer Timeout	In order to adapt a platform, when you make the attended transfer and hang up, the session will end after the expire time, the device will send 'bye' initiatively; the default is 0(when you hang up, the device will send a BYE to end the session immediately).		
Response Single Codec	As the called, only in response to the supported Codec.		
Use STUN	Configures enable/disable the SIP STUN.		
Registration Expiration	Configures the SIP server registration expiration time, defaults 3600 seconds. If the server requires registration expiration time is more than or less than the device configuration time, the device can be automatically changed as the server recommendation expiration time and re-register.		
Keep Alive Interval	Configures the server detection time interval, if the gateway opens SIP detection server function, the gateway will detect whether the server responds every configured time.		
Keep NAT Alive	Configures automatic detection server. Some servers prohibit the registration time is too short, but there have not packet (maintain the device terminal NAT actively) to send, you can open this function and set the interval to send this package is less than NAT duration of time.		
Keep Authentication	Enable/Disable Keep Authentication System will take the last authentication field which is passed the authentication by server to the request packet. It will decrease the server's repeat authorization work, if it is enable.		
Enable Strict Proxy	Matches with a special server (when the return message ,the device will use the other party source address ,no longer use the address in via field)		
Enable DNS SRV	When you open it ,the device will support RFC2782		
Enable Rport	Configures if the device support RFC3581,rport mechanism is used in the Intranet, need be supported by SIP server for maintaining the NAT connection of Intranet devices and Extranet devices		
Enable PRACK	Configures whether let the device support the SIP PRACK function (mostly used for ring tones), we recommend you to use the default configuration		
Long Contact	Configures Contact field carries more parameters; the item is used with SEM server.		



Convert # to %23 when URI is sending massage.		
Configures whether the device support rfc4028 function and refresh the		
SIP sessions function.		
Configurate the offective time of subscription		
Configures the effective time of subscription		
After successful registration, subscription information can subscribe to		
others state or voice mail, etc.		
Configures the using transport protocol, TCD or LIDD the default is LIDD		
Configures the using transport protocol, TCP or UDP, the default is UDP		
When the message body exceeds 1300 bytes ,the device will automatically		
use the TCP transport protocol to guarantee the availability of transport		
Configures the protocol version. When the device needs to communicate		
with the gateway like CISCO5300 which uses SIP1.0, you need to		
configure this item into RFC2543, so it can communicate normally. The		
default is RFC3261.		
Configures individual port of each line.		
Configures whether you use anonymous security call out, it supports		
RFC3323 and RFC3325 .		
When the device sending signaling, whether add the quotes before the		
display name.		
Configures supporting GRUU		
Configures using an exciting land		
Configures voice encryption key		
Configures whether to support voice encryption		



### 5.4.4.2 **Common**

Status >	STUN Status
System >	False
Network >	
VolP V	STUN Settings
» Line1	Server Address
» Line2	Server Port 3478
» Common	Binding Period 50 Seconds
» Dial Peer	
» Debug	SIP Settings
Phone >	
Logout >	Sip intercenter

Reset Save & Apply

Name	Explanation				
STUN Status	STUN Status				
Displays STUN p	enetrate judgment, true means STUN is penetrable, false means impenetrable.				
<b>STUN Settings</b>					
Server Address	Configures SIP STUN Server Address.				
Server Port	Configures SIP STUN server Port.				
	The interval that STUN detects NAT type ; When NAT finds a connection have				
Binding Period	no activity over a period of time, it will close the map, so you must send a				
	packet out at intervals to ensure keep alive.				
SIP Settings					
Registration	Configures how often the device initiate registration again after registration				
Failure Retry	failure.				
Interval					
	Whether match Invite field strictly. If you selected this item, the SIP message				
SIP Invite	via field that the device received must begin with z9hG4k, or the device will				
Restrict	not respond to the SIP message received.				
	<b>NOTE</b> : This configuration will take effect in all SIP accounts.				
Receive Call	Configures whether match UA strictly.				
Only from UA					



### 5.4.4.3 Dial Peer

Status	>	Dial Peer Table					
System	>	Number	Destination	Port	Alias	Suffix	Deleted Length
Network	>			101110			
VolP	~			5060		no suffix	0 Delete
» Line1		Add					
» Line2							Reset Save & Appl

### 5.4.4.4 **Debug**

Status	>	VoIP Log Set	1
System	>	CM Log Level	Info 🔻
Network	>	SIP Log Level	Info v
VolP	~		Reset Save & Apply

Name	Explanation
CM Log Level	Configures the MGR Log Level.
SIP Log Level	Configures the SIP Log Level.



### 5.4.5 Phone

### 5. 4. 5. 1 Audio

Status	> _A	udio Settings		
System	>	Audio Codec 1 Type	G.711u T	
~		Audio Codec 2 Type	G.711A T	
Network	>	Audio Codec 3 Type	G.729 ¥	
õ		Audio Codec 4 Type	G.726-32	
VolP	>	Mic Gain	0 (-2~+2)	
Phone	~	Output Volume	[	
		Fax Type	T.38 V	
» Audio		Caller ID Type	Bellcore FSK(US)	
» Call Feature				\$
» Dial rules		Tone Standard	China	
Logout	>	Hook Flash Min Time	200 (>=50ms)	
		Hook Flash Max Time	800 Ø (50-1000ms)	
		SLIC Impedance	600Ohm •	
		DTMF Payload Type	[101 @ (96-127)	
		Enable VAD		

Name	Explanation
Audio Settings	
Audio Codec 1	Selects DSP the first priority speech coding algorithm: G.711A/u,G.726-32,
Туре	G.729
Audio Codec 2	Selects DSP the second priority speech coding algorithm:
Туре	G.711A/u,G.726-32, G.729
Audio Codec 3	Selects DSP the third priority speech coding algorithm: G.711A/u,G.726-32,
Туре	G.729
Audio Codec 4	Selects DSP the fourth priority speech coding algorithm:
Туре	G.711A/u,G.726-32, G.729
MIC Gain	Set the microphone volume level.
Handset volume	Set the handset volume level.
Fax Туре	Set the fax type.
	Set the PSTN phones that only support transfering Caller ID under DTMF
Caller ID Type	mode.
Tone Standard	Selects tone standard.



Hook Flash Min	Cat the main income time of incomtant engine a data ation
Time	Set the minimum time of inserted spring detection.
Hook Flash Max	Set the maximum time of incerted enring detection
Time	Set the maximum time of inserted spring detection.
SLIC Impedance	Set subscriber line interface circuit impedance, the default is 600 ohms.
DTMF Payload	Effective load of dual-tone multifrequency.
Туре	Effective load of dual-tone multimequency.
Enable VND	Silence detection; if it is enabled VAD, G.729 payload length cannot be set
	higher than 20ms

### 5. 4. 5. 2 Call Feature

On this page, you can set the hotline, call transfer, call waiting, three way call, black list, Blocking list and so on.

Status	>	Call Feature	
System	>	Hotline number	
		Warm Line Timeout	0 <a>(0~9 seconds)</a>
Network	>	No Answer Time	20 (0~60 seconds)
VolP	>	Do Not Disturb(DND)	
-		Blocking Outgoing Call	0
Phone	~	Enable Three Way Call	
		Enable Call Waiting	<b>v</b>
» Audio		Enable Call Transfer	<b>v</b>
» Call Feature			
» Dial rules		P2P IP Prefix	
Logout	>	Accept Any Call	



	Black List	
	This section contains no values yet	
Add		
	Blocking List	
	i Maranda Anna	
	This section contains no values yet	
Add		

Reset Save & Apply

Name	Explanation			
Call Feature				
Hotline Number	Set the Hotline Number. If you set this number, as long as you goes off-hook, the device will automatically dial the hotline number and you cannot dial any other number.			
Warm Line Timeout	Set automatically dial the hotline number time after off-hook .If you set this item as 0, device will call the hotline number immediately after you off-hook.			
No Answer Time	Set the no answer time.			
Do Not Disturb	If you selected this item, the device will reject any incoming calls, the caller will be prompted that the other side gateway is unavailable; your device can dial out without any effect.			
Blocking	When it is enable, the device will send buys tone and prompt you to hang up			
Outgoing Call	when you off-hook and then dial.			
Enable Three Way Call	Enable three way call.			
Enable Call Waiting	Enable call waiting			
P2P IP Prefix Set point-to-point IP call prefix, such as the other side IP is 192.168.1.19 IP call.				
Accept Any Call	when you selected this option, as long as the other side call you, the device will allow to make a conversation regardless of the number correctness.			
Enable Call Transfer	Set whether to enable call Transfer.			



#### **Black List**

Add / Delete blacklist. If you do not want to answer a certain number ,can add the number to this list, when the number in black list call your device, the device will reject it;

It supports x format, that is, match to any one digit, such as 4xx represents these three digits number begin with 4 will be forbidden dial in;

Supported .formats, that is match to any length, including the null; Such as 6. represents the number more one digit and begin with 6 will be forbidden dial in;

#### **Blocking List**

Call limit, set the number prefix form : if 010 as configured number prefix, you will hear busy tone and be prompted to hang up when you dial 010,so you cannot continue dial: if 0 as configured number prefix, you will cannot dial all numbers begin with 0;

It supports x form, that is, match any one digit, such as 4xx represents all three digit number begin with 4 will be forbidden to dial out;

It supports . form ,that is match to any length, including the null; such as 6. Represents all number begin with 6 will be forbidden to dial out .

**Note:** Black List and Blocking List can match 10 records maximumly. If more than 10, it will prompt the list is full.

### 5. 4. 5. 3 Dial rules

Status	>	Dial rules	
System	>	Press # to invoke dialing	
Network	>	Use Fixed Length Fixed Length I1 I I 10 I 1-30	
VolP	>	Invoke Calling after Timeout	
Phone	~	Timeout 5 (3-30)Seconds	
» Audio			
» Call Feature		Digital Rule table	
» Dial rules	ial rules Rules		
Logout	>		
		This section contains no values yet	
		Add	

Reset Save & Apply



#### 5. 4. 5. 3. 1 **Dial Rules**

Name	Explanation	
Press # to	Set the gateway to press the # key to finish receiving number.	
invoke dialing		
Use Fixed	Set enable\disable use fixed length to dial.	
Length		
	Set the gateway to receive a fixed length number; for example, if you set it as	
Fixed Length	11, when you finished dialing 11 digits number, the gateway automatically dial	
	the 11 digits number.	
Invoke Calling	Enable/disable calling after timeout.	
After Timeout		
	Set the timeout calling length in seconds. Gateway default is 5 seconds, that	
Timeout	is , when the gateway received a number, it will deem that you have finished	
TimeOut	dialing the number after you have not continue dialing a number in 5	
	seconds ,and it will dial the received number.	

#### 5. 4. 5. 3. 2 **Digital Rule Table**

The following is user-defined number-receiving rule table:

- [] is defining the number range. It can be a range, can be separated by a comma, it can also be a digit of list;
- x means can math to any one digit;
- . means can match to any length, including the null;
- Tn means the device will stop receiving number after n seconds. n is mandatory, the range is 0-9 seconds. Tn must be the last two digits setting. If Tn is not specified, it will be assumed as T0, the receiving number will end immediately.

As shown below:



Digital Rule table	
Rules	
[1-8]xxx	Delete
9xxxxxx	Delete
911	Delete
99T4	Delete
9911x.T4	Delete
Add	

- [1-8]xxx, means all the four digits number(1000-8999) will be sent out immediately after receiving four digits number.
- 9xxxxxx, means all number begin with 9 will be send out immediately after receiving eight digits number.
- 911, means the 911 number will be sent immediately after dialing.
- 99T4, means when you finish dialing 99, the number will be send out after 4 seconds.
- 9911x.T4, means when you finish dialing a number begin with 9911, 5 digits at least, it will be sent out after 4 seconds.
- Other ways is unchanged.

**Note:** Press # to invoke dialing, Use fixed length, Invoke Calling after Timeout, Digital Rules table can be used simultaneously, as long as when you finish dialing a number, the number satisfies any of these judgments ,the device will end receiving number and send the number out.

#### 5. 4. 6 **Logout**

Click **<Logout>** button, you will exit web page. If you want to enter it next time, you need input username and password again.



## 6 Trouble Shooting

When the device does not work properly, users may try the following methods to recover the device or gather relative information and send an issue report to support.

### 6.1 **Reboot Device**

Users may reboot the device from power switch. Or, simply remove the power supply and restore it again.

### 6. 2 Reset Device to Factory Default

Reset Device to Factory Default will erase all user's configuration, preference, database and profiles on the device and restore the device back to the state as factory default.

To perform a factory default reset, Press the RST button for 3~5 seconds and then release. The device will be rebooted into a clean factory default state.

### 6.3 Network Packets Capture

Sometimes it is helpful to dump the network packets of the device for issue identification. To get the packets dump of the device, user needs to log in the device web portal, open page [Network] -> [Diagnostics] and click [Start] in "Network Packets Capture" section. A pop-up message will be prompt to ask user to save the capture file. User then should perform relevant operations such as activate/deactivate line or making phone calls and click [Stop] button in the web page when operation finished. The network packets of the device during the period have been dumped to the saved file. User may examine the packets with a packet analyzer or send it to support.



## 6.4 **Common Problems**

Symptom	Solution			
POWER light is not	1. Check if the power switch is open.			
	2. Check if the power connection is correct.			
on	3. Check if the power adapter is suited.			
	1. Check if the cable connection is valid, check if the PC network card			
	indicator light is on.			
WAN/LAN link light	2. Check if the network card is working properly, the specific approach is			
is not on	to see if there is the device with "?" Or "!" under the Network Adapter" of			
	the PC. If so, please delete the device and reinstall. Otherwise, put the			
	network card in another slot, if not yet, change the network card.			
	Such as the common access modes(your PC have already installed			
	dial-up software):			
	1. Make sure the front problem does not exist.			
Can not access the	2. Make sure the dial-up software is properly installed and set.			
network	3. Make sure you entered correct username and password .			
Helwork	4. If you call successfully dial, but cannot access the network, please			
	make sure if the IE browser's proxy server is set correctly.			
	5. Please try to log more websites to confirm if it is because of a Web			
	server failure.			
	1. Please check if device is well connected to the network. The network			
	Ethernet cable should be connected to the [Network] port NOT the			
	[PC] port.			
	2. Please check if the device has an IP address. If the device does not			
Device could not	have an IP address. Please check if the network configurations is			
register to a service	correct.			
provider	3. If network connection is fine, please check again your line			
	configurations. If all configurations are correct, please kindly contact			
	your service provider to get support, or follow the instructions in "6.3			
	Network Packet Capture" to get the network packet capture of			
	registration process and send it to support to analyze the issue.			