



User Manual G504/G508

Contents

About This User Guide1
Contacting Flyingvoice
Purpose
Cross references
Feedback
Declaration of Conformity4
Part 15 FCC Rules
Warnings and Notes5
Warnings5
Notes5
Chapter 1 Product description6
G504/G5087
LED Indicators and Interfaces
G504
G5089
Hardware Installation10
Chapter 2 IVR Voice Prompt12
Interactive Voice Response (IVR)
Start IVR
IVR Description
Chapter 3 Basic Settings19
WEB Page20
About Password
URL Format
WEB Interface Introduction22
SIP Account Register
Register one by one23

Batch Registration	
Basic Function	
Calling phone or extension numbers	25
Direct IP calls	25
Call Hold	25
Call transfer	
Conference	26
Chapter 4 Web Interface	27
Login	
Status	
Network	
WAN	
LAN	
LAN Port	
VPN	
DMZ	
MAC Clone	
Port Setting	
Routing	
SIP Account	
Account	
FXS Settings	
SIP Settings	
VoIP QoS	
Phone	
Preferences	
Dial Rule	
Call Log	
Administration	
Management	
Firmware Upgrade	
Scheduled Tasks	
Provision	

SNMP		7
TR-069		8
Diagnosis		9
Operating Mode		0
System Log		0
Logout		1
Reboot		1
Chapter 5 IPv6 address	configuration73	3
Introduction		4
IPv6 Advance		5
LAN DHCPv6		6
Configuring IPv6		7
Viewing WAN/LAN port status		0
Chapter 6 Troubleshoo	ting Guide81	1
Configuring PC to get IP Address au	itomatically	2
Cannot connect to the Web		3
Forgotten Password		3

Table

Table 1 Features at-a-glance 7
Table 2 G504 Front panel
Table 3 G504 Rear panel
Table 4 G508 Front panel9
Table 5 G508 Front panel9
Table 6 IVR Menu Setting Options
Table 9 WEB Interface Introduction
Table 10 Config SIP the Web Management Interface
Table 11 Login details 28
Table 12 Static IP
Table 13 DHCP
Table 14 PPPoE
Table 15 Bridge Mode 34
Table 16 LAN port
Table 17 PPTP 38
Table 18 L2TP
Table 19 OpenVPN
Table 20 DMZ
Table 21 MAC Clone
Table 22 Port setting
Table 23 Routing
Table 24 Line

Table 25 Audio configuration 45
Table 26 Supplementary service 46
Table 27 Advanced
Table 28 SIP Settings
Table 29 VoIP QoS
Table 30 Preferences 52
Table 31 Regional 53
Table 32 Features and call forward
Table 33 Miscellaneous 55
Table 35 Dial Plan Syntactic 56
Table 36 Call log58
Table 37 Save Config File 59
Table 38 Administrator settings 60
Table 39 NTP settings 61
Table 40 Daylight Saving Time 62
Table 41 System log Setting
Table 42 Factory Defaults Setting
Table 43 Factory Defaults 63
Table 44 Firmware upgrade64
Table 45 Scheduled Tasks 64
Table 46 Provision 65
Table 47 Firmware Upgrade
Table 48 SNMP67
Table 49 TR069
Table 50 Diagnosis

Table 51 Operating mode	
Table 52 System log	71
Table 53 Logout	71
Table 54 IPv6 Modes	74
Table 55 Enabling IPv6	75
Table 56 Configuring Statefull IPv6	77

About This User Guide

Thanks for choosing G504/G508 ATA. This product will allow you to make ATA call using your broadband connection. This manual provides basic information on how to install and connect G504/G508 ATA to the Internet. It also includes features and functions of network switch with VoIP components, and how to use it correctly.

Before you can connect G504/G508 to the Internet and use it, you must have a high-speed broadband connection installed. A high-speed connection includes environments such as DSL, cable modem, and a leased line.

G504/G508 ATA is a stand-alone device, which requires no PC to make Internet calls. This product guarantees clear and reliable voice quality on Internet, which is fully compatible with SIP industry standard and able to interoperate with many other SIP devices and software on the market.







This guide contains the following chapters:

- Chapter 1 Product description
- Chapter 2 IVR Voice Prompt
- Chapter 3 Basic Settings
- Chapter 4 Web Interface
- Chapter 5 Troubleshooting Guide

About This User Manual

Contacting Flyingvoice

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	China.	

Purpose

The documents are intended to instruct and assist personnel in the operation, installation and maintenance of the Flyingvoice equipment and ancillary devices. It is recommended that all personnel engaged in such activities be properly trained. Flyingvoice disclaims all liability whatsoever, implied or express, for any risk of damage, loss or reduction in system performance arising directly or indirectly out of the failure of the customer, or anyone acting on the customer's behalf, to abide by the instructions, system parameters, or recommendations made in this document.

Cross references

References to external publications are shown in italics. Other cross references, emphasized in blue text in electronic versions, are active links to the references.

This document is divided into numbered chapters that are divided into sections. Sections are not numbered, but are individually named at the top of each page, and are listed in the table of contents.

Feedback

We appreciate feedback from the users of our documents. This includes feedback on the structure, content, accuracy, or completeness of our documents. Send feedback to support@flyingvoice.com.

Declaration of Conformity

Part 15 FCC Rules

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

Class B Digital Device or Peripheral

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment can generate, use and radiate radio frequency energy. If not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference does not occur in a particular installation.

Note



Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interferences by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warnings and Notes

The following describes how warnings and notes are used in this document and in all documents of the Flyingvoice document set.

Warnings

Warnings precede instructions that contain potentially hazardous situations. Warnings are used to alert the reader to possible hazards that could cause loss of life or physical injury. A warning has the following format:



Warning Warning text and consequence for not following the instructions in the warning.

Notes

A note means that there is a possibility of an undesirable situation or provides additional information to help the reader understand a topic or concept. A note has the following format:



Notes

Notes text and consequence for not following the instructions in the Notes.

Chapter 1 Product description

This chapter covers:

- G504/G508
- LED Indicators and Interfaces
- Hardware Installation

G504/G508

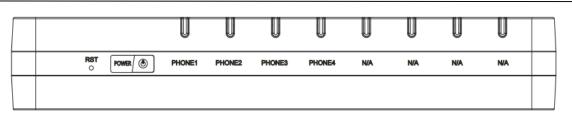
Table 1 Features at-a-glance

Port/Model	G504	G508		
Picture	annun annun			
WAN	1	1		
LAN	1	1		
FXS	4	8		
Ethernet interface	2* RJ45 10/100M 2* RJ45 10/100M			
Fax	Т.30, Т.	.38 Fax		
Wire-speed NAT	Support			
Voice Code	G.711 (A-law, U-law), G.729A/B, G.723, G.722 (Wide band)			
Management	Voice menu, Web Management, Provision: TFTP/HTTP/HTTPS, TR069, SNMP			
VLAN	Support			

LED Indicators and Interfaces

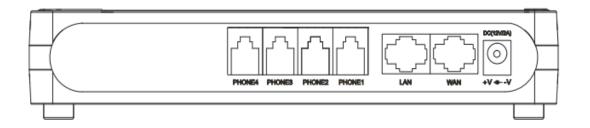
G504

Table 2 G504 Front panel



LED/IO	status	Contents	
RST	Press it to restore fa	Press it to restore factory settings above 5S.	
POWER	On(Red)	The ATA is powered on and running normally.	
	Off	The ATA is powered off.	
PHONE1-4	Blinking(Green)	Not registered.	
	On (Green)	Registered.	
N/A	Not available		

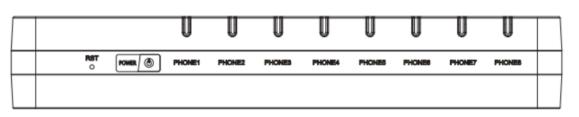
Table 3 G504 Rear panel



IO interface	Contents
PHONE1-4	Connect to the phone.
LAN	Connectors for local networked devices.
WAN	Connector for accessing the Internet.
AC 100~220V	Connector for a power adapter.

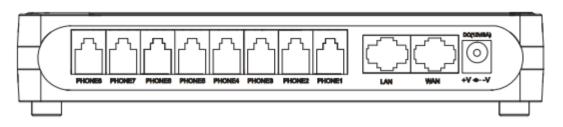
G508

Table 4 G508 Front panel



LED/IO	Status	Contents
RST	Press it to restore factory settings above 5S.	
POWER	On(Red)	The ATA is powered on and running normally.
	Off	The ATA is powered off.
PHONE1-8	Blinking(Green)	Not registered.
	On (Green)	Registered.

Table 5 G508 Front panel



IO interface	Contents	
PHONE1-4	Connect to the phone.	
LAN	Connectors for local networked devices.	
WAN	Connector for accessing the Internet.	
AC 100~220V	Connector for a power adapter.	

Hardware Installation

Before configuring your ATA, please see the procedure below for instructions on connecting the device in your network.

Procedure 1 Configuring the ATA

- 1. Connect analog phone to ATA Port with an RJ11 cable.
- 2. Connect the WAN port to the Interne your network's modem/switch/router/ADSL
- 3. equipment using an Ethernet cable.
- 4. Connect one end of the power cord to the power port of the device. Connect the other end to the wall outlet.
- 5. Check the Power, WAN, and LAN LED to confirm network connectivity.



Warning

Please do not attempt to use unsupported power adapters and do not remove power during configuring or updating the device. Using other power adapters may damage

G504/G508 and will void the manufacturer warranty.

Warning



Changes or modifications not expressly approved by the party responsible for compliance can void the user' s authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency cause harmful interference to radio communications. However, there is no energy and, if not installed and used in accordance with the instructions, may guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Chapter 2 IVR Voice Prompt

This chapter contains:

- Interactive Voice Response (IVR)
- IVR description

Interactive Voice Response (IVR)

The device can be configured in two ways, as follows:

(1) Use IVR (Interactive Voice Response)

(2) the use of web pages

This chapter mainly introduces how to configure the ATA through IVR.

Start IVR

Users follow these steps to achieve IVR:

(1) Go off-hook and press the "****" key to start the IVR. Then the user will hear the voice prompt "1 WAN port configuration...".

(2) According to different options, press any digit between 0 and 9, the device will broadcast the

corresponding content, the numbers 0 to 9 represent the details as shown in the chart below.

(3) After each setting is successful, the device will play "Please input option, 1 WAN port configuration...".

Note

Before using IVR, please confirm analog phone is connected with ATA correctly.

IVR Description

The following chart lists the IVR requirements and a detailed description:

		1.WAN port configuaration
		2.Phone port
		3.Factory reset
	· · · · · · · · · · · · · · · · · · ·	
G504/G508	-**** Start IVR	4.Reboot
		5.WAN port login
		6.WEB access port
		7.Software version

Table 6 IVR Menu Setting Options

Operation	
code	Menu
	1. Pick up phone and press "****" to start IVR
	2. Select "1", then the device will continue to broadcast to remind users to
	choose 1.WAN port connection type; 2.WAN port IP address; 3. WAN subnet mask; 4. Gateway; 5. DNS
	3. Choose "1", and The ATA reports the current WAN port connection type2)
	4. Prompt "Please enter password ", user needs to input password and press
	"#" key, if user wants to configuration WAN port connection type.
1	The password in IVR is same as web management interface login, the user may
(1)	use phone keypad to enter password directly
WAN Port Configuration	For example: WEB login password is "admin", so the password in IVR is
configuration	"admin". The user may "23646" to access and then configure the WAN
	connection port. The unit reports "Operation Successful" if the password is correct.
	5. Prompt "Please enter password ", user needs to input password and press
	"#" key if user wants to configuration WAN port connection type.
	6. Choose the new WAN port connection type (1) DHCP or (2) Static
	The unit reports "Operation Successful" if the changes are successful. The
	ATA returns to the prompt "please enter your option …"
	7. To quit, enter "*"

	1. Pick up phone and press "****" to start IVR
	2. Choose "2", and The ATA reports current WAN Port IP Address
	3. Input the new WAN port IP address and press "#" key:
	4. Use "*" to replace ".", for example user can input 192*168*20*168 to set
(2)	the new IP address 192.168.20.168
WAN Port IP Address	5. Press # key to indicate that you have finished
	6. Report "operation successful" if user operation is ok.
	7. To quit, enter "**".
	1. Pick up phone and press "****" to start IVR
	2. Choose "3", and ATA reports current WAN port subnet mask
	3. Input a new WAN port subnet mask and press # key:
(2)	4. Use "*" to replace ".", user can input 255*255*255*0 to set the new WAN
(3) WAN Port	port subnet mask 255.255.255.0
Subnet Mask	5. Press "#" key to indicate that you have finished
	6. Report "operation successful" if user operation is ok.
	7. To quit, enter "**".
	1. Pick up phone and press "****" to start IVR
	2. Choose "4", and the ATA reports current gateway
(4)	3. Input the new gateway and press "#" key:
Gateway	4. Use "*" to replace ".", user can input 192*168*20*1 to set the new
	gateway 192.168.20.1.
	5. Press "#" key to indicate that you have finished.
	6. Report "operation successful" if user operation is ok.
	7. To quit, press "**".

	1. Pick up phone and press "****" to start IVR
	2. Choose "5", and the ATA reports current DNS
(5)	3. Input the new DNS and press # key:
DNS	4. Use "*" to replace ".", user can input 192*168*20*1 to set the new
	gateway 192.168.20.1.
	5. Press "#" key to indicate that you have finished.
	1. Pick up phone and press "****" to start IVR
2	2. Select "2", then the device will continue to broadcast prompts the user to select
phone port	current phone number; 2. registration server address; 3. registration port; 4. call
configuration	forwarding configuration, 5. DNS configuration;
	3. Continue pressing "1" and the unit will continue to broadcast the phone number
	of the current phone port. The device will then broadcast "1. Phone number" again.
	1. Pick up phone and press "****" to start IVR
	2. Choose "6", and the ATA reports "Factory Reset"
3	3. Prompt "Please enter password", the method of inputting password is the same
Factory Reset	as operation 1.
	4. If you want to quit, press "*".
	5. Prompt "operation successful" if password is right and then the ATA will be in
	factory default configuration.
	1. Pick up phone and press "****" to start IVR
	2. Choose "7", and the ATA reports "Reboot"
4	3. Prompt "Please enter password", the method of inputting password is same as
Reboot	operation 1.
	4. the ATA reboots if password is right and operation

	1. Pick up phone and press "****" to start IVR
5	2. Choose "8", and the ATA reports "WAN Port Login"
WAN Port Login	3. Prompt "Please enter password", the method of inputting password is same as
	operation 1.
	4. If user wants to quit, press "*".
	1. Pick up phone and press "****" to start IVR
6	2. Choose "9", and the ATA reports "WEB Access Port"
WEB Access Port	3. Prompt "Please enter password", the method of inputting password is same as
POIL	operation 1.
	4. Report "operation successful" if user operation is ok.
7 Firmware	1. Pick up phone and press "****" to start IVR
Version	2. Choose "0" and the ATA reports the current Firmware version



Note

- 1. While using Voice menu, press * (star) to return to main menu.
- 2. If any changes made in the IP assignment mode, the ATA must be rebooted in order for the settings to take effect.
- 3. While entering an IP address or subnet mask, use "*" (star) to enter "." (Dot) and use "#" (hash) key to finish entering IP address or subnet mask:
- 4. For example, to enter the IP address 192.168.20.159 by keypad, press these keys: 192*168*20*159, use the #(hash) key to indicate that you have finished entering the IP address.
- 5. Use the # (hash) key to indicate that you have finish entering the IP address or subnet mask
- 6. While assigning an IP address in Static IP mode, setting the IP address, subnet mask and default gateway is required to complete the configuration. If in DHCP mode, please make sure that a DHCP server is available in your existing broadband connection to which WAN port of G504/G508 is connected.
- The default LAN port IP address of G504/G508 is 192.168.11.1 and this address should not be assigned to the WAN port IP address of G504/G508 in the same network segment of LAN port.
- 8. The password can be entered using phone keypad, the mapping table between number and letters as follows:

To input: D, E, F, d, e, f -- press '3' To input: G, H, I, g, h, i -- press '4' To input: J, K, L, j, k, I -- press '5' To input: M, N, O, m, n, o -- press '6' To input: P, Q, R, S, p, q, r, s -- press '7' To input: T, U, V, t, u, v -- press '8' To input: W, X, Y, Z, w, x, y, z -- press '9'

To input all other characters in the administrator password----press '0'.

Chapter 3 Basic Settings

This chapter covers:

- WEB Page
- SIP Account Register
- Basic Function

WEB Page

About Password

Our device supports two levels of management: administrators and users.

- (1) Administrator mode can browse and set all configuration parameters.
- (2) User mode can set all configuration parameters except SIP1/2 that some parameters can not be

changed, such as server address and port.

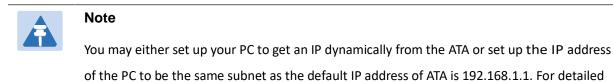
- Default user with administrator mode: Username: admin, Password: admin
- Default user with user mode: Username: admin, Password: user

URL Format

G504/G508 has a built-in web server in response to HTTP get / post requests. Users can use a web browser, such as Microsoft's IE, to log in to the G504/G508 page and configure the G504/G508.

LAN port Login

1. Ensure your PC is connected to the ATA's LAN port correctly.



information, see Chapter 5: Troubleshooting Guide.

- 2. Open a web browser on your PC and input "http://192.168.1.1".
- 3. The following window appears and prompts for username, password.

VoIP		ntrol panel	
	Username Password		gin

- 4. For administrator mode operation, please type admin/admin on Username/Password and click Login to begin configuration.
- 5. For user mode operation, please type user/user on Username/Password and click Login to begin configuration.

6. The web management interface automatically logs out the user after 5 minutes of inactivity.



Note

If you are unable to access the web configuration, please see Chapter 5: Troubleshooting Guide for more information.

WAN port Login

- 1. Ensure your PC is connected to the ATA's WAN port correctly.
- 2. Obtain the IP addresses of WAN port using Voice prompt or by logging into the device web

management interface via a LAN port and navigating to Network > WAN.

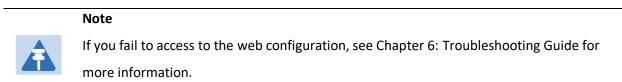
3. Open a web browser on your PC and input http://<IP address of WAN port>. The following login page

will be opened to enter username and password.

VoIP	control panel	
Usernam Passwor		gin

4. For administrator mode operation, type admin/admin on Username/Password and click Login to begin configuration.

5. For user mode operation, type user/user on Username/Password and click Login to begin configuration.



6. The web management interface automatically logs out the user after 5 minutes of inactivity.

WEB Interface Introduction

Table 9 WEB Interface Introduction

<i>VoIP</i> tatus Network SIP A	control panel	Firmware Version V3 Current Time 2017-11-10 16:38 Admin Mode [Loqout] [Reboor 1 5
asic LAN Host Syslog		
asic Dair Hose Systog	2	
Product Information 3		6 Help
duct Information		Product Information: It shows the basic information of the
Product Name	G508	product.
nternet(WAN) MAC Address	00:21:F2:12:34:59	Line Status:
PC(LAN) MAC Address	00:21:F2:12:34:58	It shows the registration state of each
Hardware Version	V1.1	line.
oader Version	V3.11(Jan 27 2015 13:22:24)	Network Status:
Firmware Version	V3.10(201609120213)	It shows the information of Internet Port,WIFI and PC port.
Serial Number	123346457567	
		System Status: It shows the current time and the
Serial number	Name	Description
		Click navigation bar, many sub-navigation bar w
Postition 1	navigation bar	Click navigation bar, many sub-navigation bar w appear in the place 2
Postition 1 Postition 2	navigation bar sub-navigation bar	
		appear in the place 2
Postition 2	sub-navigation bar	appear in the place 2 Click sub-navigation bar to enter to configuration pa
Postition 2 Postition 3	sub-navigation bar configuration title	appear in the place 2 Click sub-navigation bar to enter to configuration particle The configuration title
Postition 2 Postition 3 Postition 4	sub-navigation bar configuration title configuration bars	appear in the place 2 Click sub-navigation bar to enter to configuration pay The configuration title The configuration bars Display the firmware version, DSP version, Curre Time, and user can change login level (mode) to retu
Postition 2 Postition 3 Postition 4 Postition 5	sub-navigation bar configuration title configuration bars main information	appear in the place 2 Click sub-navigation bar to enter to configuration par The configuration title The configuration bars Display the firmware version, DSP version, Curre Time, and user can change login level (mode) to retu to login page by press blue Switch button. Display the main information for configuration; us
Postition 2 Postition 3 Postition 4 Postition 5	sub-navigation bar configuration title configuration bars main information	appear in the place 2 Click sub-navigation bar to enter to configuration par The configuration title The configuration bars Display the firmware version, DSP version, Curre Time, and user can change login level (mode) to retu to login page by press blue Switch button. Display the main information for configuration; us can get help from it directly.
Postition 2 Postition 3 Postition 4 Postition 5	sub-navigation bar configuration title configuration bars main information Help	appear in the place 2 Click sub-navigation bar to enter to configuration par The configuration title The configuration bars Display the firmware version, DSP version, Curre Time, and user can change login level (mode) to return to login page by press blue Switch button. Display the main information for configuration; us can get help from it directly. After changing the parameters, you need to click this
Postition 2 Postition 3 Postition 4 Postition 5	sub-navigation bar configuration title configuration bars main information Help	appear in the place 2 Click sub-navigation bar to enter to configuration par The configuration title The configuration bars Display the firmware version, DSP version, Curre Time, and user can change login level (mode) to retu to login page by press blue Switch button. Display the main information for configuration; us can get help from it directly. After changing the parameters, you need to click this button to save. After you click Save, there is a need
Postition 2 Postition 3 Postition 4 Postition 5	sub-navigation bar configuration title configuration bars main information Help Save	appear in the place 2 Click sub-navigation bar to enter to configuration par The configuration title The configuration bars Display the firmware version, DSP version, Curre Time, and user can change login level (mode) to retu to login page by press blue Switch button. Display the main information for configuration; us can get help from it directly. After changing the parameters, you need to click this button to save. After you click Save, there is a need restart the device.

SIP Account Register

G504/G508 have 4/8 Lines to make SIP (Session Initiation Protocol) calls. Before registering, the device user should have SIP accounts configured by the system administrator or provider. See the section below for more information.

Register one by one

Table 10 Config SIP the Web Management Interface

Status Network	SIP Account	Phone Ad	Iministration	
Account FXS Settings	SIP Settings	VoIP QoS		
Port	FXS 1 V		Batch Settings	
Basic				
Basic Setup				
Port Enable	Enable 🔻		Outgoing Call without Registration	Disable V
Proxy and Registration				
Proxy Server	192.168.10.88		Proxy Port	5060
Outbound Server			Outbound Port	5060
Backup Outbound Server			Backup Outbound Port	5060
Subscriber Information				
Display Name	601		Phone Number	601
Account	601		Password	•••••

Steps:

- Step 1. The account enable is set to "On" and the line can be used after opening.
- Step 2. The registration server fills in the IP address of the SIP server.
- Step 3. Display Name Fill in the content is the name of the number displayed on the LCD.
- Step 4. The registration account is filled with the account provided by the SIP server.
- Step 5. The name of the authentication is the SIP account provided by the SIP server.
- Step 6. The password is filled with the password provided by the SIP server registration account.
- Step 7. When you are finished, click the Save button at the bottom of the page to make the configuration take effect.
- Step 8. Check the registration of the corresponding line on the display / web status page.



Notes

Step 3-9 is to fill in the required content, other parameters fill in the required

Procedure

To view the SIP account status of device, open the **Status** web page and view the value of registration status.

Batch Registration

There are many FXS ports on the G504/G508. One by one, configuration is very

troublesome. Therefore, we support batch configuration of SIP accounts.

Taking G504as an example, batch configuration of SIP account steps:

- 1. Log in to the web page, switch to the SIP Account FXS Settings page, check the "Batch Settings", and select the need to set the batch FXS port.
- 2. Fill in the "Proxy Server", other parameters on request.

Status Network SIP Account Phone Administration					
Account FXS Settings	SIP Settings	VoIP QoS			
Start Port	FXS 1 V		Batch Settings		
End Port FXS 8 •					
Basic					
sic Setup					
Port Enable	Enable V		Outgoing Call without Disable		
oxy and Registration					
Proxy Server	192.168.10.87		Proxy Port	5060	
Outbound Server			Outbound Port	5060	
Backup Outbound Server			Backup Outbound Port	5060	

3.Switch to SIP Account - Account page, fill in the batch configuration of FXS port account as required.

Status	Network	SIP Account	Phone	Administration
Account	FXS Settings	SIP Settings	VoIP Qo	S

Account

Port	Display Name	Phone Number	Account	Password	Enable	
FXS 1	601	601	601	•••••		Other settings
FXS 2	602	602	602	•••••	~	Other settings
FXS 3	603	603	603	••••	√	Other settings
FXS 4						Other settings
FXS 5						Other settings
FXS 6						Other settings

- 4. Click "Save" button
- 5. Status page can view the registration status information.

Basic Function

Calling phone or extension numbers

To make a phone or extension number call:

- Both ATA and the other VoIP device (i.e., another ATA or other SIP products) must have public IP addresses, or
- Both ATA and the other VoIP device (i.e., another ATA or other SIP products) are on the same LAN using private or public IP addresses, or
- Both ATA and the other VoIP device (i.e., another ATA or other SIP products) can be connected through a router using a public or private IP addresses.

To make a call, first pick up the analog phone or turn on the speakerphone on the analog phone, input the IP address directly, end with #.

Direct IP calls

Direct IP calling allows two phones, that is, an ATA with an analog phone and another VoIP Device, to talk to each other without a SIP proxy. VoIP calls can be made between two phones if:

- Both ATA and the other VoIP device (i.e., another ATA or other SIP products) have public IP addresses, or
- Both ATA and the other VoIP device (i.e., another ATA or other SIP products) are on the same LAN using private or public IP addresses, or
- Both ATA and the other VoIP device (i.e., another ATA or other SIP products) can be connected through a router using public or private IP addresses.

To make a direct IP call, first pick up the analog phone or turn on the speakerphone on the analog phone, Input the IP address directly, with the end "#".

Call Hold

While in conversation, pressing the "*77" to put the remote end on hold, then you will hear the dial tone and the remote party will hear hold tone at the same time.

Pressing the "*77" again to release the previously hold state and resume the bi-directional media.

Call transfer

1. Blind Transfer

Assume that call party A and party B are in conversation. Party A wants to Blind Transfer B to C:

Party A dials "*78" to get a dial tone, then dials party C's number, and then press immediately key # (or wait for 4 seconds) to dial out. A can hang up.

2. Attended Transfer

Assume that call party A and B are in a conversation. A wants to Attend Transfer B to C:

Party A dials "*77" to hold the party B, when hear the dial tone, A dials C's number, then party A and party C are in conversation.

Party A dials "*78" to transfer to C, then B and C now in conversation.

If the transfer is not completed successfully, then A and B are in conversation again.

Conference

Assume that call party A and B are in a conversation. A wants to add C to the conference:

Party A dials "*77" to hold the party B, when hear the dial tone, A dial C's number, then party A and party C are in conversation.

Party A dials "*88" to add C, then A and B, for conference.

Chapter 4 Web Interface

This chapter guides users to execute advanced (full) configuration through admin mode operation. This

chapter covers:

- Login
- Status
- Network
- SIP Account
- Phone
- Administration

Login

Table 11 Login details

VoIP	control panel			
	Username	admin		
	Password	Login		
Procedure				
1. Connect the LAN port of the ATA to your PC an Ethernet cable				
2. Open a web browser on your PC and type http://192.168.1.1.				
3. Enter Username admin and Password admin.				
4. Click Login				

Status

This webpage shows the status information about the Product, Network, SIP Account Status, FXS Port Status,

Network Status, Wireless Info and System Status.

Status Network SIP Ac	count Phone Administration	
Basic LAN Host Syslog		
Product Information		Неір
	Product Information:	
roduct Information	It shows the basic information of the	
Product Name	G508	product.
Internet(WAN) MAC Address	00:21:F2:12:34:59	Line Status:
PC(LAN) MAC Address	00:21:F2:12:34:58	It shows the registration state of each line.
Hardware Version	V1.1	
Loader Version	V3.11(Jan 27 2015 13:22:24)	Network Status:
Firmware Version	V3.10(201609120213)	It shows the information of Internet Port,WIFI and PC port.
Serial Number	123346457567	System Status:
		It shows the current time and the

Network

You can configure the WAN port, LAN port, DDNS, Multi WAN, DMZ, MAC Clone, Port Forward and other parameters in this section of the web management interface.

WAN

This page allows you to set WAN configuration with different modes. Use the Connection Type drop down list to choose one WAN mode and then the corresponding page will be displayed.

1.Static IP

This configuration may be utilized when a user receives a fixed public IP address or a public subnet, namely multiple public IP addresses from the Internet providers. In most cases, a Cable service provider will offer a fixed public IP, while a DSL service provider will offer a public subnet. If you have a public subnet, you can assign an IP address to the WAN interface.

Table 12 Static IP

WAN LAN IPv6 Adv	anced IPv6 WAN IPv6 LAN VPN DMZ MAC Clone Port Setting						
INTERNET							
/AN							
Connect Name	1_MANAGEMENT_VOICE_INTERNET_R_VID ▼ Delete Connect						
Service	MANAGEMENT_VOICE_INTERNET ▼						
IP Protocol Version	IPv4 🔻						
WAN IP Mode	Static 🔻						
NAT Enable	Enable 🔻						
VLAN Mode	Disable 🔻						
VLAN ID	1 (1-4094)						
Static							
IP Address	192.168.10.162						
Subnet Mask	255.255.255.0						
Default Gateway	192.168.10.1						
DNS Mode	Manual 💌						
Primary DNS	192.168.10.1						
Secondary DNS	192.168.18.1						
Port Bind Port_1							
⊡ Port_1							
Field Name	Descriptio						
P Address	The IP address of Internet port						
Subnet Mask	e subnet mask of Internet port						
	The subject mask of internet port						
Default Gateway	The default gateway of Internet port						
Default Gateway							
Default Gateway	The default gateway of Internet port						
Default Gateway DNS Mode	The default gateway of Internet port Select DNS mode, options are Auto and Manual:						
	The default gateway of Internet port Select DNS mode, options are Auto and Manual: 1. When DNS mode is Auto, the device under LAN port will automatically obtain the preferred DNS and alternate DNS.						
	 The default gateway of Internet port Select DNS mode, options are Auto and Manual: When DNS mode is Auto, the device under LAN port will automatically obtain the preferred DNS and alternate DNS. When DNS mode is Manual, the user manually configures the 						
DNS Mode	 The default gateway of Internet port Select DNS mode, options are Auto and Manual: When DNS mode is Auto, the device under LAN port will automatically obtain the preferred DNS and alternate DNS. When DNS mode is Manual, the user manually configures the preferred DNS and alternate DNS information 						
	 The default gateway of Internet port Select DNS mode, options are Auto and Manual: When DNS mode is Auto, the device under LAN port will automatically obtain the preferred DNS and alternate DNS. When DNS mode is Manual, the user manually configures the 						

The ATA has a built-in DHCP server that assigns private IP address to each local client.

The DHCP feature allows to the ATA to obtain an IP address automatically from a DHCP server. In this case, it is not necessary to assign an IP address to the client manually.

Table 13	DHCP									
Status	Ne	twork	SIP Acc	ount	Phon	e Admir	nistration			
WAN	LAN	IPv6	Advanced	IPv6	WAN	IPv6 LAN	VPN	DMZ	MAC Clone	Port Setting
INTER	RNET									
WAN -										
Conne	ct Name			1	MANAG	EMENT_VOIC	E_INTERN	ET_R_VID	Del	ete Connect
Service	е			Μ	IANAGEM	IENT_VOICE_	INTERNET	•		
IP Prot	tocol Ver	rsion		IF	Pv4 ▼					
WAN I	P Mode			D	HCP 🔻		_			
DHCP	Server									
NAT E	nable			E	nable 🔻					
VLAN I				D	isable 🔻		_ .			
VLAN 1				1			(1-4094	ł)		
DNS M				м	lanual 🔻					
Primar	dary DNS	-								
Jecon		5								
DHCP										
	Renew		-)		lenew					
DHCP	Vendor(Option 6	0)	FL	YINGVO	ICE-G508				
Port Bi	ind									
Po Po	rt_1									
Field N	lame			Desc	ription					
			Se	lect DN	IS mode	e, options are	Auto and	d Manual	:	
			W	hen DN	NS mode	e is Auto. the	device u	nder LAN	port will auto	matically obtain
DNS Mo	de					S and alterna				,
								hould ma	inually configui	re the preferred
Primary						nternet port.				
Seconda	ry DNS /	Address	Se	condar	ry DNS o	of Internet po	ort.			
DHCP Re	new		Re	fresh t	he DHCF	P IP address				
DHCP Ve	ndor (O	ption60) Sp	ecify tł	ne DHCP	Vendor field	l. Display	the vend	or and product	name.

3.PPPoE

PPPoE stands for Point-to-Point Protocol over Ethernet. It relies on two widely accepted standards: PPP and Ethernet. It connects users through an Ethernet to the Internet with a common broadband medium, such as a single DSL line, wireless device or cable modem. All the users over the Ethernet can share a common connection.

PPPoE is used for most of DSL modem users. All local users can share one PPPoE connection for accessing the Internet. Your service provider will provide you information about user name, password, and authentication mode.

<u>Table 14</u>	PPPoE								
Status	Net	work	SIP Acco	ount Phon	e Admin	istration			
WAN	LAN	IPv6	Advanced	IPv6 WAN	IPv6 LAN	VPN	DMZ	MAC Clone	Port Setting
INTE	RNET								
WAN									
Conne	ct Name			1_MANAG	EMENT_VOIC	E_INTERN	ET_R_VID	Del	ete Connect
Service	е			MANAGEM	ENT_VOICE_	INTERNET	•		
IP Pro	tocol Vers	sion		IPv4 ▼					
WAN I	P Mode			PPPoE ▼					
NAT E	nable			Enable 🔻					
VLAN	Mode			Disable 🔻]				
VLAN	ID			1		(1-4094)		
DNS M	lode			Auto 🔻]				
Primar	y DNS								
Secon	dary DNS								
PPPoE									
PPPoE	Account								
PPPoE	Passwor	d		•••••					
Confin	m Passwo	ord		•••••					
Servic	e Name								
				Leave empt	ty to autodete	ct			
Opera	tion Mode	e		Keep Alive	T				
-			d(0-3600s)	5					
Port B	ind								
✓ Po									
Field	Name					Descr	iption		

PPPoE Account Enter a valid user name provided by the ISP

	Enter a valid password provided b	y the ISP. The password can contain special					
PPPoE Password	characters and allowed special cha	aracters are \$, +, *, #, @ and ! For example, the					
	password can be entered as #net1	.23@IT!\$+*.					
Confirm Password	Enter your PPPoE password again						
Service Name	Enter a service name for PPPoE au	ithentication.					
	If it is left empty, the service name is auto detected.						
Operation Mode	Select the mode of operation, options are Keep Alive, On Demand and Manual: When the mode is Keep Alive, the user sets the 'keep alive redial period' values range from 0 to 3600s, the default setting is 5 minutes; When the mode is On Demand, the user sets the 'on demand idle time' value in the range of 0-60 minutes, the default setting is 5 minutes; Operation Mode						
	On Demand Idle Time(0-60m)	5					
	When the mode is Manual, there	are no additional settings to configure					
Keep Alive Redial	Set the interval to send Keep Alive	e messaging					
Period							
PPPoE Account	Assign a valid user name provided	by the ISP					

4.Bridge Mode

Bridge Mode under Multi WAN is different with traditional bridge setting. Bridge mode employs no IP addressing and the device operates as a bridge between the WAN port and the LAN port. Route Connection has to be built to give IP address to local service on device.

Table 15	Bridge	Mode							
Status	Net	work	SIP Acco	ount Phon	e Admin	istration			
WAN	LAN	IPv6	Advanced	IPv6 WAN	IPv6 LAN	VPN	DMZ	MAC Clone	Port Setting
INTER	INET								
AN -									
Connec	t Name			1_MANAG	EMENT_VOICE	_INTERN	ET_R_VID	Dele	ete Connect
Service				MANAGEM	IENT_VOICE_I	NTERNET	T		
IP Prot	ocol Vers	sion		IPv4 ▼					
WAN IF	P Mode			Bridge ▼					
Bridge	Туре			IP Bridge	•				
DHCP S	Service T	уре		Pass Thro	ugh 🔻				
VLAN M				Disable 🔻		٦.			
VLAN I	D			1		(1-4094)		
	peration v			shared between e the other WA			t binding (nd port WAN co operation !	nnections
Bridge	Туре								
IP Brid	ge		Allow all	Ethernet pack	ets to pass. P	C can cor	nnect to	upper network	directly.
PPPoE	Bridge		Only Allo	w PPPoE packe	ets pass. PC r	needs PPF	PoE dial-u	up software.	
Hardwa	are IP Br	idge	Packets p	ass through ha	ardware swit	ch with w	vired spe	ed. Does not su	upport
			wireless p	oort binding					
DHCP S	Service 1	Гуре							
Pass Th	nrough		DHCP pac	kets can be fo	orwarded bet	ween WA	AN and LA	AN, DHCP serve	er in gateway
			will not a	llocate IP to cl	ients of LAN	port.			
DHCP S	Snoopin	g	When gat	teway forward	s DHCP pack	ets form	LAN to W	/AN it will add	
	1- 10	6	option82	to DHCP pack	et, and it will	remove	option82	when forward	ing DHCP
			packet fro	om the WAN in	nterface to th	ne LAN in	terface. L	ocal DHCP serv	vice will not
			allocate II	P to clients of	LAN port.				

Local Service	Gateway will not forward DHCP packets between LAN and WAN, it also blocks
	DHCP packets from the WAN port. Clients connected to the LAN port can get IP
	from DHCP server run in gateway.
VLAN Mode	
Disable	The WAN interface is untagged. LAN is untagged.
Enable	The WAN interface is tagged. LAN is untagged.
Trunk	Only valid in bridge mode. All ports, including WAN and LAN, belong to this VLAN
	Id and all ports are tagged with this VLAN id. Tagged packets can pass through
	WAN and LAN.
VLAN ID	Set the VLAN ID.
802.1p	Set the priority of VLAN, Options are 0~7.



Note

Multiple WAN connections may be created with the same VLAN ID

LAN

LAN Port

NAT translates the packets from public IP address to local IP address to forward packets to the proper destination.

Table 16 LAN port

WAN LAN IPv6 Advanced IPv6 WAN IPv6 LAN VPN DMZ MAC Clone Portection PC Port(LAN) Local IP Address 192.168.1.1	t Setting
C Port(LAN) Local IP Address Local Subnet Mask Local Subnet Mask Local Subnet Mask Local DHCP Server DHCP Start Address DHCP End Address DHCP End Address DNS Mode Primary DNS 192.168.1.1 Secondary DNS 192.168.10.1 Client Lease Time(0-86400s) DHCP Client List	
C Port(LAN) Local IP Address Local Subnet Mask Local Subnet Mask Local Subnet Mask Local DHCP Server DHCP Start Address DHCP End Address DHCP End Address DNS Mode Primary DNS 192.168.1.1 Secondary DNS 192.168.10.1 Client Lease Time(0-86400s) DHCP Client List	
Local IP Address192.168.1.1Local Subnet Mask255.255.0Local DHCP ServerEnable ▼DHCP Start Address192.168.1.2DHCP End Address192.168.1.254DNS ModeAuto ▼Primary DNS192.168.1.1Secondary DNS192.168.1.01Client Lease Time(0-86400s)86400DHCP Client List	
Local Subnet Mask255.255.0Local DHCP ServerEnable ▼DHCP Start Address192.168.1.2DHCP End Address192.168.1.254DNS ModeAuto ▼Primary DNS192.168.1.1Secondary DNS192.168.1.0.1Client Lease Time(0-86400s)86400DHCP Client List	
Local DHCP ServerEnable ▼DHCP Start Address192.168.1.2DHCP End Address192.168.1.254DNS ModeAuto ▼Primary DNS192.168.1.1Secondary DNS192.168.1.1Client Lease Time(0-86400s)86400DHCP Client List	
DHCP Start Address192.168.1.2DHCP End Address192.168.1.254DNS ModeAuto ▼Primary DNS192.168.1.1Secondary DNS192.168.10.1Client Lease Time(0-86400s)86400DHCP Client List	
DHCP End Address192.168.1.254DNS ModeAutoPrimary DNS192.168.1.1Secondary DNS192.168.10.1Client Lease Time(0-86400s)86400DHCP Client List	
DNS Mode Auto Primary DNS 192.168.1.1 Secondary DNS 192.168.10.1 Client Lease Time(0-86400s) 86400 DHCP Client List	
Primary DNS 192.168.1.1 Secondary DNS 192.168.10.1 Client Lease Time(0-86400s) 86400 DHCP Client List	
Secondary DNS 192.168.10.1 Client Lease Time(0-86400s) 86400 DHCP Client List	
Client Lease Time(0-86400s) B6400 DHCP Client List	
DHCP Client List	
DHCP Static Allotment	
	_
NO. MAC IP Address	
3	
DNS Proxy Enable	
Field Name Description	
IP Address Enter the IP address of the ATA on the local area network. All the IP addr	resses
of the computers which are in the ATA's LAN must be in the same netwo	rk
segment with this address, and the default gateway of the computers mu	
this IP address. (The default is 192.168.11.1).	
Local Subnet Mask Enter the subnet mask to determine the size of the network (default is	
255.255.0/24).	

DHCP Start Address	Enter a valid IP address as a starting IP address of the DHCP server, and if the
	ATA's LAN IP address is 192.168.11.1, starting IP address can be 192.168.11.2 or
	greater, but should be less than the ending IP address.
DHCP End Address	Enter a valid IP address as an end IP address of the DHCP server.
DNS Mode	Select DNS mode, options are Auto and Manual:
	When DNS mode is Auto, the device under LAN port will automatically obtains
	the preferred DNS and alternate DNS.
	When DNS mode is Manual, the user should manually configure the preferred
	DNS and alternate DNS.
Primary DNS	Enter the preferred DNS address.
Secondary DNS	Enter the secondary DNS address.
Client Lease Time	This option defines how long the address will be assigned to the computer
	within the network. In that period, the server does not assign the IP address to
	the other computer.
DNS Proxy	Enable or disable; If enabled, the device will forward the DNS request of LAN-
	side network to the WAN side network.

VPN

VPN is a technology that builds a private network on a public network. The connection between any two nodes of the VPN network does not have the end-to-end physical link required by the traditional private network, but rather the network platform provided by the public network service provider, and the user data is transmitted in the logical link. With VPN technology, you can establish private connections and transfer data between any two devices on the public network.

Table 17	РРТР										
Status Network SIP Account Phone Administration											
WAN	LAN	IPv6	Advanced	IPv6 WAN	IPv6 LAN	VPN	DMZ	MAC Clone	Port Setting		
VPN S	ettings	5									
Administ	ration										
VPN En	VPN Enable PPTP										
Initial S	ervice IP										
User Na	User Name										
Passwo	rd			•••••	•••••						
VPN As	Default F	Route		Disable 🔹	Disable 🔻						
MPPE S	tateful			Disable 🔹	7						
Require	MPPE			Disable 🔹	,						

Parameters name	Description
VPN Enable	Whether to enable VPN.
	Select PPTP mode.
Initial Service IP	The IP address of the VPN server.
User Name	The user name required for authentication.
Password	The password required for authentication.
VPN As Default Route	Prohibited or open, the default is prohibited.
MPPE Stateful	Disable or enable MPPE Stateful.
Require MPPE	Disable or enable Require MPPE.

able 18 L2TP									
Status N	etwork	SIP Acc	ount Phon	e Admin	istration				
WAN LAN	IPv6	Advanced	IPv6 WAN	IPv6 Lan	VPN	DMZ	MAC Clone	Port Setting	
VPN Settin	ngs								
dministration	· · · · · · · · · · · · · · · · · · ·								
VPN Enable			L2TP	•					
Initial Service	IP								
User Name									
Password			•••••						
L2TP Tunnel	Name								
L2TP Tunnel	Password		•••••						
VPN As Defau	It Route		Disable 🔻						
Parame	ters name	2			Descrip	otion			
VPN Enabl	e	-	ther to enable t PPTP mode.	VPN.					
Initial Serv	ice IP	The I	P address of th	ne VPN serve	r.				
User Name	9	The u	iser name requ	uired for auth	nenticatio	on.			
Password		The p	bassword requi	ired for authe	enticatior	າ.			
L2TP Tunn	el Name	L2TP	Tunnel Name						
L2TP Tunn	el Passwo	rd L2TP	Tunnel Passwo	ord					
VPN As De	fault Rout	e Proh	ibited or open,	the default i	s prohibi	ted.			

Table 19 OpenVPN

Status Network S	IP Account Phone Adr	ninistration						
WAN LAN IPv6 Adv	anced IPv6 WAN IPv6 LA	VPN	DMZ	MAC Clone	Port Setting			
VPN Settings								
Administration								
VPN Enable	VPN Enable OpenVPN V							
OpenVPN TLS Auth Disable								
VPN As Default Route	Disable 🔻							
Parameters name	Parameters name Description							
VPN Enable	Whether to enable VPN. Select OpenVPN mode.							
OpenVPN TLS Auth	Whether OpenVPN TLS authe	ntication is e	enabled					
VPN As Default Route	Prohibited or open, the defau	t is prohibit	ed.					

DMZ

Table 20 DMZ

Status Network	SIP Account Phor	ne Admin	istration			
WAN LAN IPv6 Ad	vanced IPv6 WAN	IPv6 LAN	VPN	DMZ	MAC Clone	Port Setting
Demilitarized Zone (DMZ)					
DMZ Setting						
DMZ Enable		Enable	T			
DMZ Host IP Address						
Field Name	Description					
DMZ Enable	Enable/Disable DN	IZ.				
DMZ Host IP Address	Enter the private IF	address of the	ne DMZ h	ost.		

MAC Clone

Some ISPs will require you to register your MAC address. If you do not wish to re-register your MAC address, you can have the ATA clone the MAC address that is registered with your ISP. To use the Clone Address button, the computer viewing the Web-based utility screen will have the MAC address automatically entered in the Clone WAN MAC field.

Table 21 MAC Clone

Status	Net	work	SIP Acco	ount	Phon	e	Admini	stration			
WAN	LAN	IPv6	Advanced	IPv6	WAN	IF	v6 Lan	VPN	DMZ	MAC Clone	Port Setting

Enable T
Get Current PC MAC

Config steps:

- 1. Enabling MAC address cloning
- 2. Press the button Get Current PC MAC gets PC's MAC address
- 3. Press the button Save to save your changes if users don't want to use MAC clone, press the button to cancel the changes
- 4. Press the button Reboot to make the changes effective.

Port Setting

Table 22 Port setting

Status	Net	work	SIP Acc	ount Ph	one	Admin	istration			
WAN	LAN	IPv6	Advanced	IPv6 WAN	I	pv6 lan	VPN	DMZ	MAC Clone	Port Setting
Port S	Setting									
Port Sett	ing —									
WANP	ort Speed	Nego				Auto	•			
LAN1P	ort Speed	d Nego				Auto	•			
Field N	lame		D	escription						

WAN Port speed Nego	Auto-negotiation, options are Auto, 100M full, 100M half-duplex, 10M half
	and full.
LAN Port Speed Nego	Auto-negotiation, options are Auto, 100M full, 100M half, 10M half and
	10M full.

Routing

Table 23 Routing

Status Netw	ork SIP Acco	unt Phon	e Admini	istration				
WAN LAN	IPv6 Advanced	IPv6 WAN	IPv6 LAN	VPN	DMZ	MAC Clone	Port Setting	Routing
Static Routin	a Settinas							Help
Add a routing rule								You may ad routing rule
Destination								Touchig Tule
Host/Net			Host 🔻]				
Gateway				_				
Interface			LAN	T				
Comment								
		Ap	ply Reset]				
No. De	able in the system estination Mask	Gateway		Me	tric	Interface	Comment	
Field Name	Descript	ion						
Destination	Destination a	ddress						
Host/Net	Both Host an	d Net select	ion					
Gateway	Gateway IP a	ddress						
Interface	LAN/WAN/Cu	ustom three	options, and	d add th	e corres	ponding add	ress	
Comment	Comment							

SIP Account

Account

You can set each FXS' s display name, phone number, account and password in this page, the corresponding FXS will be enable after checked enable, then save your settings. Click "Other settings" go to the "FXS Settings" web page.

SIP Settings.

Status	Network	SIP Account	Phone	Administration
Account	FXS Settings	SIP Settings	VoIP Qo	s

Account

Port	Display Name	Phone Number	Account	Password	Enable	
FXS 1						Other settings
FXS 2					1	Other settings
FXS 3						Other settings
FXS 4					1	Other settings
FXS 5					1	Other settings
FXS 6					1	Other settings
FXS 7					\$	Other settings
FXS 8					A	Other settings

FXS Settings

Basic

Set the basic information provided by your VOIP Service Provider, such as Phone Number, Account, password, SIP Proxy and others.

_	Table 24 Li	ne					
	Status	Network	SIP Account	Phone	Administration		
	Account	FXS Settings	SIP Settings	VoIP QoS			
	Port		FXS 1 V		Batch Settings		
	Basic						
B	asic Setup						
	Port Enab		Enable 🔻		Outgoing Call without Registration	Disable 🔻	
P	roxy and F	Registration					_
	Proxy Ser	ver			Proxy Port	5060	
	Outbound	l Server			Outbound Port	5060	
	Backup O	utbound Server			Backup Outbound Port	t 5060	
		CP Option 120 t SIP Server	o Enable ▼				
S	ubscriber	Information					_
	Display N Account	ame			Phone Number Password		

Field Name	Description
Line Enable	Enable/Disable the line.
	Enable/Disable Outgoing Call without Registration
Outgoing Call without	If enabled, SIP-1 will not send register request to SIP server; but in Status/ SIP
Registration	Account Status webpage, Status is Registered; lines 1 can dial out, but the
	external line number cannot dialed line1
Proxy Server	The IP address or the domain of SIP Server
Outbound Server	The IP address or the domain of Outbound Server
Backup Outbound Server	The IP address or the domain of Backup Outbound Server

Proxy port	SIP Service port, default is 5060	
Outbound Port	Outbound Proxy's Service port, default is 5060	
Backup Outbound Port	Backup Outbound Proxy's Service port, default is 5060	
Display Name	The number will be displayed on LCD	
Phone Number	Enter telephone number provided by SIP Proxy	
Account	Enter SIP account provided by SIP Proxy	
Password	Enter SIP password provided by SIP Proxy	

Audio Configuration

Table 25 Audio configuration

Audio Configuration

Codec Setup

Audio Codec Type 1	G.711U •	Audio Codec Type 2 G.711A 🔻
Audio Codec Type 3	G.729 🔻	Audio Codec Type 4 G.722 🔻
Audio Codec Type 5	G.723 🔻	Audio Codec Type 6 G726-32 🔻
Audio Codec Type 7	iLBC 🔻	
G.723 Coding Speed	5.3k bps 🔻	Packet Cycle (ms) 20 🔻
Silence Supp	Disable 🔻	Echo Cancel Enable 🔻
Auto Gain Control	Disable 🔻	Use First Matching Vocoder in Disable ▼ 2000K SDP
Codec Priority	Remote 🔻	Packet Cycle Follows Remote Disable ▼ SDP

FAX Configuration

FAX Mode	T.30 T	Bypass Attribute Value	fax/modem 🔻
Enable T.38 CNG Detect	Disable 🔻	Enable T.38 CED Detect	Enable 🔻
Enable gpmd attribute	Disable 🔻	T.38 Redundancy	Disable 🔻
Max Fax Rate	14400 🔻		

Field Name	Description
Audio Codec Type1	Choose the audio codec type from G.711U, G.711A, G.722, G.729, G.723
Audio Codec Type2	Choose the audio codec type from G.711U, G.711A, G.722, G.729, G.723
Audio Codec Type3	Choose the audio codec type from G.711U, G.711A, G.722, G.729, G.723
Audio Codec Type4	Choose the audio codec type from G.711U, G.711A, G.722, G.729, G.723
Audio Codec Type5	Choose the audio codec type from G.711U, G.711A, G.722, G.729, G.723
G.723 Coding Speed	Choose the speed of G.723 from 5.3kbps and 6.3kbps
Packet Cycle	The RTP packet cycle time, default is 20ms
Silence Supp	Enable/Disable silence support

Echo Cancel	Enable/Disable echo cancel. By default, it is enabled	
Auto Gain Control	Enable/Disable auto gain	
T.38 Enable	Enable/Disable T.38	
T.38 Redundancy	Enable/Disable T.38 Redundancy	
T.38 CNG Detect Enable	Enable/Disable T.38 CNG Detect	
gpmd attribute Enable	Enable/Disable gpmd attribute	

Supplementary Service Subscription

Table 26 Supplementary service

Supplementary Service Subscription

Supplementary Services

Call Waiting	Enable 🔻	Hot Line	
MWI Enable	Enable 🔻	Voice Mailbox Numbers	
MWI Subscribe Enable	Disable 🔻	VMWI Serv	Enable 🔻
DND	Disable 🔻		

Speed Dial

Speed Dial 2	Speed Dial 3	
Speed Dial 4	Speed Dial 5	
Speed Dial 6	Speed Dial 7	
Speed Dial 8	Speed Dial 9	

Field Name	Description
Call Waiting	Enable/Disable Call Waiting
Hot Line	Fill in the hotline number, Pickup handset or press hands-free or headset button,
	the device will dial out the hotline number automatically
MWI Enable	Enable/Disable MWI (message waiting indicate). If the user needs to user voice
	mail, please enable this feature
MWI Subscribe Enable	Enable/Disable MWI Subscribe
Voice Mailbox Numbers	Fill in the voice mailbox phone number, Asterisk platform, for example, its default
	voice mail is *97
DND	Enable/Disable DND (do not disturb)

	Enter the speed dial phone numbers. Dial *74 to active speed dial function
Speed Dial	Then press the speed dial numbers, for example, press 2, phone dials
	075526099365 directly

Advanced

Table27 Advanced

Advanced				
SIP Advanced Setup				
Domain Name Type	Enable 🔻		Carry Port Information	Disable 🔻
Signal Port	53378		DTMF Type	Inband 🔻
RFC2833 Payload(>=96)	101		Register Refresh Interval(sec)	3600
Caller ID Header	FROM	•	Remove Last Reg	Enable 🔻
Session Refresh Time(sec)	0		Refresher	UAC V
SIP 100REL Enable	Disable 1	•	SIP OPTIONS Enable	Disable 🔻
Initial Reg With Authorization	Disable	T	Reply 182 On Call Waiting	Disable •
Primary Server Detect Interval	0		Max Detect Fail Count	3
NAT Keep-alive Interval(10- 60s)	15		Anonymous Call	Disable T
Anonymous Call Block	Disable 1	•	Proxy DNS Type	A Type 🔻
Use OB Proxy In Dialog	Disable	•	Complete Register	Disable 🔻
Reg Subscribe Enable	Disable 1	•	Reg Subscribe Interval(sec)	0
Dial Prefix			User Type	Phone 🔻
Hold Method	ReINVIT	E▼	Request-URI User Check	Enable 🔻
Only Recv Request From Server	Disable	T	Server Address	
SIP Received Detection	Disable 1	T	VPN	Disable 🔻
SIP Encrypt Type	Disable 1	T	RTP Encrypt Type	Disable 🔻
Country Code			Remove Country Code	Disable 🔻
Tel URL	Disable	•	Use Random SIP Port	Enable 🔻
Min Random SIP Port	50000		Max Random SIP Port	60000
Prefer Primary SIP Server	Disable 1	•		
RTP Advanced Setup				
RTP Port Min	0 (0 means	auto select)	RTP Port Max	50000
Parameter name		Description		
Domain Name Type		Whether to enable domain name recognition in SIP URIs		
Carry Port Information		Whether to carry the SIP URI port information		
Signal Port		The local port number of the SIP protocol		
DTMF Type		Select the second way of dialing, optional items are In-band, RFC2833 and SIP Info.		
RFC2833 Payload(>=96)		The user can use the default settings		
Register Refresh Interval(sec)		The time interval between two normal registration messages. The user can use the default settings.		

Caller ID Header	When enabled, an unregistered message will be sent before the registration is disabled, and no unregistered messages will be sent before registration; should be set according to the different server requirements
Remove Last Reg	Whether to remove the last registration message
Session Refresh Time(sec)	The interval between two sessions, the user can use the default settings
Refresher	Select Refresh from UAC and UAS
SIP 100REL Enable	If this option is enabled, the IP phone will send SIP-OPTION to the server instead of sending Hello messages on a regular basis. The interval for sending is the parameter set for the "NAT Hold Interval" parameter.
SIP OPTIONS Enable	Whether to open the SIP OPTION function
Initial Reg With Authorization	Whether to carry the certification information when registering
Reply 182 On Call Waiting	Whether or not to send 182 when the call is waiting
NAT Keep-alive Interval(10-60s)	The time interval for sending empty packets
Anonymous Call	Whether anonymous calls are enabled
Anonymous Call Block	Whether to enable anonymous call blocking
Proxy DNS Type	Set the DNS server type, the optional items are Type A, DNS SRV, and Auto
Use OB Proxy In Dialog	Whether the OB agent is used in the conversation
Complete Register	Whether to enable full registration
Reg Subscribe Enable	When enabled, the subscription message is sent after the registration message; the subscription message is not sent when disabled
Reg Subscribe Interval(sec)	Disable or enable Reg Subscribe Interval
Dial Prefix	Dial before prefix
User Type	Whether the end user is IP or Phone
Hold Method	Call hold is REINVITE or INFO
Request-URI User Check	Whether to allow the user to check
Only Recv Request From Server	If enabled, will only accept requests from the server, do not accept other requests
Server Address	SIP server address
SIP Received Detection	Whether to allow SIP receive detection
VPN	Whether to enable VPN
SIP Encrypt Type	Whether to allow SIP message encryption
RTP Encrypt Type	Whether to allow RTP message encryption
Country Code	Country code

Remove Country Code	Whether to allow the removal of national codes
Tel URL	Whether to open the Tel URL
Use Random SIP Port	Whether to use the minimum random port
Min Random SIP Port	SIP minimum random port
Max Random SIP Port	SIP maximum random port
Prefer Primary SIP Server	Whether to enable the preferred primary server
Hold SDP Attribute Inactive	Whether to enable the call to keep the inactive attribute
RTP Port Min	RTP minimum port
RTP Port Max	RTP's maximum port

SIP Settings

Table 28 SIP Settings

Status	Network	SIP Account	Phone	Administration			
Account	FXS Settings	SIP Settings	VoIP QoS				
CID Dow	ameters						
SIP Par							
	ster 5						
SIP T1		500	ms	Max Forward	· _	70	
SIP User	Agent Name			Max Auth	2	2	
Reg Retry	/ Intvl	30	sec	Reg Retry Lo	ng Intvl 🛛 1	1200	sec
Mark All A	AVT Packets	Enable 🔻		RFC 2543 Ca	ll Hold	Enable 🔻	
SRTP		Disable ▼		SRTP Prefer	Encryption	AES_CM V	
Service T	ype	Common	T	DNS Refresh	Timer 0)	sec
Response S	tatus Code Ha	ndling					
Retry Reg	RSC						
NAT Tra	iversal						
NAT Traver	sal —						
NAT Trav	ersal	Disable •		STUN Server	Address		
NAT Refn	esh Interval(sec) 60		STUN Server	Port 3	3478	
		,					

Parameters name	Description	

SIP Parameters	
SIP T1	The default value is 500
SIP User Agent Name	Enter the SIP User Agent header field
Max Forward	Modify the maximum hop value, the default is 70
Max Auth	Change the number of authentication failures, the default value is 2
Reg Retry Intvl	Registration failed again registration interval, default is 30
Reg Retry Long Intvl	Registration failed Register again for the long interval Default 1200
Mark All AVT Packets	The default enable is on
RFC 2543 Call Hold	The default enable is on
SRTP	The default is disabled
SRTP Prefer Encryption	Support for AES_CM and ARIA_CM
Service Type	Default general
DNS Refresh Timer	Modify the DNS refresh time, the default value of 0
Transport	The transmission type defaults to UDP
Response Status Code Handli	ng
Retry Reg RSC	Disable or enable Reg Subscribe Interval
NAT Traversal	
NAT Traversal	Whether to enable NAT mode, or select STUN to penetrate
STUN Server Address	STUN server IP address
NAT Refresh Interval(sec)	Refresh interval
STUN Server Port	STUN port, the default is 3478

VoIP QoS

Table 29 VoIP QoS

Status Network	SIP Account	Phone Administration
Account FXS Settings	SIP Settings	VoIP QoS
QoS Settings		
Layer 3 QoS		
SIP QoS(0-63)	46	
RTP QoS(0-63)	46	
Parameters na	me	Description
SIP QoS(0-63)	Defaul	ults to 46,you can set a range of values is 0~63
RTP QoS(0-63)	Defaul	ults to 46,you can set a range of values is 0~63

Configuration can be based on the scene environment to modify the parameters

Phone

Preferences

Preferences

Table 30 Preferences

	Status	Network	SIP Account	Phone	Administration			
Γ	Preference	es Dial Pla	n Call Log					
	Port		FXS 1 V		Batch Settings	;		
	Prefere	nces						
v	olume Se	ttings						
	Handset	Input Gain	5 🔻		Handset Volur	me	5 🔻	
F	ield Nam	ne	Description					
ŀ	landset In	put Gain	Adjust the hand	set input g	ain from 0 to 7.			
ŀ	Handset Volume Adjust the output gain from 0 to 7.							

Regional

Table 31 Regional

Regional

Tone Type	Custom •				
Dial Tone	425@-19;30(*/0/1)				
Busy Tone	425@-19,425@-19;30(.35/.3	5/1+2)			
Off Hook Warning Tone	480@-19,620@-19;*(.25/.25	480@-19,620@-19;*(.25/.25/1+2)			
Ring Back Tone	425@-19;*(1/4/1)				
Call Waiting Tone	425@-19;*(.2/5/1)				
Min Jitter Delay(0-600ms)	20	Max Jitter Delay(20- 1000ms)	160		
Ringing Time(10-300sec)	200				
Ring Waveform	Sinusoid 🔻	Ring Voltage(40-63 Vrms)	56		
Ring Frequency(15-30Hz)	25	VMWI Ring Splash Len(0.1- 10sec)	0.5		
Flash Time Max(0.2-1sec)	1.2	Flash Time Min(0.1-0.5sec)	0.04		

Field Name	Description
Tone Type	Choose tone type form China, US, Hong Kong and so on
Dial Tone	Dial Tone
Busy Tone	Busy Tone
Off Hook Warning Tone	Off Hook warning tone
Ring Back Tone	Ring back tone
Call Waiting Tone	Call waiting tone
Min Jitter Delay	The Min value of ATA's jitter delay, ATA is an adaptive jitter mechanism.
Max Jitter Delay	The Max value of ATA's jitter delay, ATA is an adaptive jitter mechanism.
Ringing Time	How long ATA will ring when there is an incoming call
Ring Waveform	Select regional ring waveform, options are Sinusoid and Trapezoid, the
	default Sinusoid
Ring Voltage	Set ringing voltage, the default value is 70
Ring Frequency	Set ring frequency, the default value is 25
VMWI Ring Splash Len(sec)	Set the VMWI ring splash length, default is 0.5s
Flash Time Max(sec)	Set the Max value of the ATA's flash time, the default value is 0.9
Flash Time Min(sec)	Set the Min value of the ATA's flash time, the default value is 0.1

Features and Call Forward

Table 32 Features and call forward

Features							
All Forward Disable ▼ No Answer Forward Disable ▼			Busy Forward	Disable 🔻			
			Transfer On Hook	Enable 🔻			
Call Forward							
All Forward				Busy Forward			
No Answer For	ward			No Answer Timeout	20		
Feature Code							
Hold Key Code		*77		Conference Key Code	*88		
Transfer Key C	ode	*98		IVR Key Code	****		
R Key Enable		Disable 🔻		R Key Cancel Code	R1 🔻		
R Key Hold Coo	de	R2 🔻		R Key Transfer Code	R4 🔻		
R Key Conferer	nce Code	R3 🔻		Speed Dial Code	*74		
Field Name			Descr	iption			
Features	All Forwa	All Forward		Enable/Disable forward all calls			
	Busy For	sy Forward		Enable/Disable busy forward.			
	No Answer Forward		Enable/Disable no answer forward.				
Call Forward	All Forward		Set the	e target phone number for all fo	rward.		
			The de	evice will forward all calls to the	phone number immediately		
			when t	there is an incoming call.			
	Busy For	Busy Forward		The phone number which the calls will be forwarded to when line			
			is busy	<i>.</i>			
	No Answer Forward		The phone number which the call will be forwarded to when				
			there's	s no answer.			
	No Answ	er Timeout	The seconds to delay forwarding calls, if there is no answer at your				
		phone.					
Feature Code	Hold key code		Call hold signatures, default is *77.				
	Conferen	ice key code	Signature of the tripartite session, default is *88.				
	Transfer	key code	Call for	rwarding signatures, default is *	98.		
	IVR key c	ode	Signatures of the voice menu, default is ****.				
	R key ena	able	Enable	/Disable R key way call features			

R key cancel code	Set the R key cancel code, option are ranged from R1 to R9, default value is R1.
R key hold code	Set the R key hold code, options are ranged from R1 to R9, default value is R2.
R key transfer code	Set the R key transfer code, options are ranged from R1 to R9, default value is R4.
R key conference code	Set the R key conference code, options are ranged from R1 to R9, default value is R3.
R Key Reject 2nd Call Code	Set the R key Reject 2nd Call code, options are ranged from R1 to R9, default value is R0.
Speed Dial Code	Speed dial code, default is *74.

Miscellaneous

Table 33 Miscellaneous

Miscellaneous					
Loop Current	26	Impedance Maching	US PBX,Korea,Taiwan(600)		
CID Service	Enable 🔻	CWCID Service	Disable 🔻		
Caller ID Method	Bellcore 🔻	Polarity Reversal	Disable 🔻		
Dial Time Out(IDT)	5	Call Immediately Key	# ▼		
ICMP Ping	Disable 🔻	Escaped char enable	Disable 🔻		
Bellcore Style 3- Way Conference	Disable 🔻	On-Hook Voltage	48		
Field Name	Description				
Codec Loop Current Set off-hook loop current, default is 26					
Impedance Maching Set impedance matching, default is US PBX, Korea, Taiwan(600).					
CID service	Enable/Disable displaying c	aller ID; If enable,	caller ID is displayed when there is an		
	incoming call or it won't b	pe displayed. Defau	ult is enable.		
CWCID Service	Enable/Disable CWCID. If e	Enable/Disable CWCID. If enable, the device will display the waiting call's caller ID,			
	or it won't display. Defaul	t is disable.			
Dial Time Out How long device will sound dial out tone when device dials a number.			n device dials a number.		
Call Immediately Key Choose call immediately key f		y form * or #.			
ICMP Ping	Enable/Disable ICMP Ping.				
	If enable this option, ATA w	f enable this option, ATA will ping the SIP Server every interval			
	time, otherwise, It will send	d "hello" empty	packet to the SIP Server.		

Escaped char enable Open special character translation function; if enable, when you press the # key, it will be translated to 23%, when disable, it is just #

Dial Rule

Table 34 Dial Plan

Status Network	k SIP Account Phone Administration
Preferences Dial	Plan Call Log
Dial Plan	
General	
Dial Plan Enable Unmatched Policy	Disable ▼ Accept ▼
Dial Plan config	
Field Name	Description
Dial Plan Enable	Enable/Disable dial plan.
Unmatched Policy	

Dial Plan Syntactic

Table 35 Dial Plan Syntactic

No.	String	Description
1	0123456789*#	Allowed characters
2	x	Lowercase letter x stands for one legal character

		To match one character form sequence. For example:
		[0-9]: match one digit form 0 to 9
3	[sequence]	[23-5*]: match one character from 2 or 3 or 4 or 5 or
		*
		x ⁰ x ¹ x ² x3 x ⁿ
4	х.	Match to , , , ,
		For example:
		"01." :can match "0", "01", "011", " 0111",, "01111…"
5	<dialed: substituted=""></dialed:>	Replace dialed with substituted. For example:
		<8:1650>123456: input is "85551212", output is "16505551212"
		Make outside dial tone after dialing "x", stop until dialing character "y"
		For example:
6	x, γ	"9,1xxxxxxxxxx" :the device reports dial tone after inputting "9" , stops tone until inputting "1"
		Set the delayed time. For example:
7	Т	"<9:111>T2": The device will dial out the matched number "111" after 2 seconds.

Call Log

To view the call log information such as redial list , answered call and missed call

Table	36	Call	log
-------	----	------	-----

Redia	Calls

Redia	List			
Index	NUMBER	Start Time	Duration	_
1	123	10/28 10:30	00:00:07	
2	010123	10/28 12:02	00:00:01	
3	010123	10/28 16:16	00:00:00	
4	010123	10/28 16:16	00:00:00	
5	123	10/28 16:20	00:00:13	
6	123	10/28 16:21	00:00:34	
7	123	10/29 10:50	00:00:10	
8	123	10/29 14:36	00:00:01	
9	123	10/29 15:05	00:00:23	
10	123	10/29 15:06	00:00:05	
	***	100015-07	~~~~	- L

Answered Calls

Answe	red Calls			
Index	NUMBER	Start Time	Duration	-
1	22222	10/21 09:56	00:00:40	
2	110	10/21 18:14	00:00:03	
3	110	10/21 18:15	00:00:07	
4	sipp	10/23 13:40	00:00:06	
5	sipp	10/24 18:05	00:00:05	
6	sipp	10/24 18:05	00:00:05	
7	sipp	10/25 15:38	00:00:03	
8	sipp	10/25 15:42	00:00:06	
9	sipp	10/25 15:55	00:00:10	
10	sipp	10/25 16:03	00:00:02	
••		10/05/17/17	~~~~	•

Missed Calls

Missed Calls

Index	NUMBER	Start Time	Duration	
1	110	10/21 09:50	00:00:03	
2	555	10/22 12:04	00:00:03	Γ

Administration

The user can manage the device in these webpages; you can configure the Time/Date, password, web access, system log and associated configuration TR069.

Management

Save Config file

Table 37 Save Config File	
Save Config File	
Config File Upload & Dow	nload
Local File 送 Upload Download	择文件 未选择任何文件
Field Name	Description
	Upload: click on browse, select file in the local, press the upload button to begin
Config file upload and	uploading files
download	Download: click to download, and then select contains the path to download

Administrator settings

Table 38 Administrator settings

Administrator Settings	
Password Reset	
User Type	Admin User 🔻
New User Name	admin
New Password	(The maximum length is 25)
Confirm Password	
anguage	
Language	English T
/PN Access	
Management Using VPN	Disable •
Neb Access	
Remote Web Login	Enable 🔻
Local Web Port	80
Web Port	80
Web SSL Port	443
Web Idle Timeout(0 - 60min)	5
Allowed Remote IP(IP1;IP2;)	0.0.0.0
elnet Access	
Remote Telnet	Enable 🔻
Telnet Port	23
Allowed Remote IP(IP1;IP2;)	0.0.0.0
HostName	FWR8102

Field Name	Description
User type	Choose the user type from admin user and normal user and basic user
New User Name	You can modify the user name, set up a new user name
New Password	Input the new password
Confirm Password	Input the new password again
Language	Select the language for the web, the device support Chinese, English, and Spanish
	and so on
Remote Web Login	Enable/Disable remote Web login
Web Port	Set the port value which is used to login from Internet port and PC port, default is
	80
Web Idle timeout	Set the Web Idle timeout time. The webpage can be logged out after Web Idle
	Timeout without any operation

Allowed Remote	Set the IP from which a user can login the device remotely
IP(IP1,IP2,)	
Telnet Port	Set the port value which is used to telnet to the device

NTP settings

Time/Date Setting	
P Settings	
NTP Enable	Enable 🔻
Option 42	Disable 💌
Current Time	2016 - 01 - 19 . 05 : 55 : 06
Sync with host	Sync with host
NTP Settings	(GMT-06:00) Central Time
Primary NTP Server	pool.ntp.org
Secondary NTP Server	
NTP synchronization(1 - 1440min)	60

Daylight Saving Time

Disable 🔻

Field Name	Description
NTP Enable	Enable/Disable NTP
Option 42	Enable/Disable DHCP option 42. This option specifies a list of the NTP servers
	available to the client by IP address
Current Time	Display current time
NTP Settings	Setting the Time Zone
Primary NTP Server	Primary NTP server's IP address or domain name
Secondary NTP Server	Options for NTP server's IP address or domain name
NTP synchronization	NTP synchronization cycle, cycle time can be 1 to 1440 minutes in any one, the
	default setting is 60 minutes

Daylight Saving Time

Table 40 Daylight Saving Time

Daylight Saving Time	
Daylight Saving Time	Enable 🔻
Offset	60 Min.
Start Month	April 🔻
Start Day of Week	Sunday 🔻
Start Day of Week Last in Month	First in Month
Start Hour of Day	2
Stop Month	October 🔻
Stop Day of Week	Sunday 🔻
Stop Day of Week Last in Month	Last in Month
Stop Hour of Day	2

Procedure

Step 1. Enable Daylight Savings Time.

Step 2. Set value of offset for Daylight Savings Time

Step 3. Set starting Month/Week/Day/Hour in Start Month/Start Day of Week Last in Month/Start Day of Week/Start Hour of Day, analogously set stopping Month/Week/Day/Hour in Stop Month/Stop Day of Week Last in Month/Stop Day of Week/Stop Hour of Day.

Step 4.Press Saving button to save and press Reboot button to active changes.

System Log Setting

Table 41 System log Setting

og Sotting		
log Setting		
Syslog Enable	Enable 🔻	
Syslog Level	INFO T	
Login Syslog Enable	Enable 🔻	
Call Syslog Enable	Enable 🔻	
Net Syslog Enable	Enable 🔻	
Device Management Syslog Enable	Enable 🔻	
Device Alarm Syslog Enable	Enable 🔻	
Kernel Syslog Enable	Enable 🔻	
Remote Syslog Enable	Disable 🔻	
Remote Syslog Server		

Field Name	Description
Syslog Enable	Enable/Disable syslog function
Syslog Level	Select the system log, there is INFO and Debug two grades, the Debug INFO can
	provide more information
Remote Syslog Enable	Enable/Disable remote syslog function
Remote Syslog server	Add a remote server IP address
Syslog Enable	Enable/Disable syslog function
Syslog Level	Select the system log, there is INEO and Debug two grades, the Debug INEO can

Syslog Level Select the system log, there is INFO and Debug two grades, the Debug INFO can **Factory Defaults Setting** provide more information.

Table 42 Factory Defaults Setting

Factory Defaults Setting

Factory Defaults Setting

Factory Defaults Lock

Disable 🔻

Description

When enabled, the device may not be reset to factory defaults until this parameter is reset to Disable

Factory Defaults

Т	able 43 Factory Defaults	
	Factory Defaults	
	Reset to Factory Defaults	Factory Default

Description

Click Factory Default to restore the residential ATA to factory settings

Firmware Upgrade

 Table 44 Firmware upgrade

Status Ne	twork S	GIP Account	Phone	Administration				
Management	Firmware (Upgrade	Scheduled Task	s Certificates	Provision	SNMP	TR069	
Firmware M	lanagemer	nt						
Firmware Upgra	ade —							
Local Upgrade	选择	Q14 未选择	驿任何文件					
Description								
1. Choose upgrade file type from Image File and Dial Rule								
2. Press "Brow	wse" butt	on to brows	er file					
3. Press Upgr	rade to sta	irt upgrading	3					

Scheduled Tasks

Table 45 Scheduled Tasks

Status Net	twork	SIP Accour	nt Phone	Administration			
Management	Firmwa	re Upgrade	Scheduled Tasks	Certificates	Provision	SNMP	TR069
Scheduled 1	acke						
Scheduled	asks						
Scheduled Rebo	ot —						
Scheduled Reb	oot	Disable	•				
Scheduled Mod	le	EveryDa	y 🔻				
Time		00 ▼ :	00 🔻				
Scheduled PPPO	E						
Scheduled PPP	OE	Disable	T				
Scheduled Mod	le	EveryDay	y 🔻				
Time		00 ▼ :	00 🔻				
Field Name		Description					
Scheduled Rebo	ot						

Scheduled Reboot	Enable/Disable scheduled Reboot
Scheduled Mode	Select scheduled Mode
Time	Set the time to restart
Scheduled PPPoE	
Scheduled PPPoE	Enable/Disable scheduled PPPoE
Scheduled Mode	Select scheduled Mode
Time	Set the time to start PPPoE

Provision

Provisioning allows the ATA to auto-upgrade and auto-configure devices which support TFTP, HTTP and HTTPs .

- Before testing or using TFTP, user should have tftp server and upgrading file and configuring file.
- Before testing or using HTTP, user should have http server and upgrading file and configuring file.
- Before testing or using HTTPS, user should have https server and upgrading file and configuring file and CA Certificate file (should same as https server's) and Client Certificate file and Private key file

User can upload a CA Certificate file and Client Certificate file and Private Key file in the Security page

Status	Network	ork SIP Account Phone Adm		Administration					
Manager	anagement Firmware Upgrade Scheduled Tas		ks Certificates	Provision	SNMP	TR069			
Provision									
Configura	tion Profile								
Provisio	n Enable			Enable 🔻					
Resync	On Reset			Enable 🔻					
Resync	Random Delay(s	sec)		40					
Resync	Periodic(sec)			3600					
Resync	Resync Error Retry Delay(sec)			3600					
Forced	Resync Delay(se	ec)		14400					
Resync	Resync After Upgrade			Enable 🔻					
Resync	Resync From SIP			Disable 🔻					
Option	66			Enable 🔻					
Option				Enable 🔻					
Config I	File Name			\$(MA)					
User Ag	jent								
User Na	ame								
Passwo	rd								
Profile F	Rule			http://prv1.flyingvo	oice.net:69/co	nfig/\$(MA)?	mac=\$(MA)&		

Field Name	Description
Provision Enable	Enable provision or not.
Resync on Reset	Enable resync after restart or not
Resync Random	Set the maximum delay for the request of synchronization file. The default is 40
Delay(sec)	
Resync Periodic(sec)	If the last resync was failure, The ATA will retry resync after the "Resync Error
	Retry Delay time", default is 3600s
Resync Error Retry	Set the periodic time for resync, default is 3600s
Delay(rec)	
Forced Resync	If it's time to resync, but the device is busy now, in this case, the ATA will wait for
Delay(sec)	a period time, the longest is "Forced Resync Delay", default is 14400s, when the
	time over, the ATA will forced to resync
Resync After	Enable firmware upgrade after resync or not. The default is Enabled
Upgrade	
Resync From SIP	Enable/Disable resync from SIP
Option 66	It is used for In-house provision mode only. When use TFTP with option 66 to
	realize provisioning, user must input right configuration file name in the
	webpage. When disable Option 66, this parameter has no effect
Config File Name	It is used for In-house provision mode only. When use TFTP with option 66 to
	realize provisioning, user must input right configuration file name in the
	webpage. When disable Option 66, this parameter has no effect
Profile Rule	URL of profile provision file
	Note that the specified file path is relative to the TFTP server's virtual
	root directory

Table 47 Firmware Upgrade

F	Firmware Upgrade								
	Enable Upgrade	Enable 🔻							
	Upgrade Error Retry Delay (sec)	3600							
	Upgrade Rule								

Field Name	Description
Upgrade Enable	Enable firmware upgrade via provision or not

Upgrade Error Retry	If the last upgrade fails, the ATA will try upgrading
Delay(sec)	again after "Upgrade Error Retry Delay" period, default is 3600s
Upgrade Rule	URL of upgrade file

SNMP

Table 48 SNMP

Status Network S	IP Account Phone	Administration							
Management Firmware U	Ipgrade Scheduled Tasks	Certificates	Provision	SNMP	TR069				
SNMP Configuration									
SNMP Configuration	SNMP Configuration								
SNMP Service	[Disable 🔻							
Trap Server Address									
Read Community Name		public							
Write Community Name		private							
Trap Community	t	rap							
Trap period interval(sec)		300							
Field Name	Description								
SNMP Service	Enable or Disable the SNI	/IP service							
Trap Server Address	Enter the trap server add	ress for sending S	NMP traps						
Read Community Name	String value that is used a	s a password to r	equest inforr	nation via	SNMP				
	from the device								
Write Community Name String value that is used as a password to write configuration values to the									

	device SNMP
Trap Community	String value used as a password for retrieving traps from the device

Trap period interval(sec) The interval for which traps are sent from the device

TR-069

TR-069 provides the possibility of auto configuration of internet access devices and reduces the cost of management. TR-069 (short for Technical Report 069) is a DSL Forum technical specification entitled CPE WAN Management Protocol (CWMP). It defines an application layer protocol for remote management of end-user devices. Using TR-069, the terminals establish connection with the Auto Configuration Servers (ACS) and get configured automatically.

Device Configuration using TR-069

The TR-069 configuration page is available under Administration menu.

Table 49 TR069

Status Network	SIP Accoun	t Phone	Administration					
Management Firmw	vare Upgrade	Scheduled Tasks	Certificates	Provision	SNMP	TR069		
TR069 Configurat	ion							
ACS								
TR069 Enable	Enable •	•						
CWMP	Enable •	•						
ACS URL	http://acs	1.flyingvoice.net:80)80/tr069					
User Name								
Password								
Periodic Inform Enable	Enable •	7						
Periodic Inform Interva	al 3600							
Connect Request								
				_				
User Name	FGW4148	-165						
Password	•••••	•						

Field Name	Description	
ACS parameters		
TR069 Enable	Enable or Disable TR069	
CWMP	Enable or Disable CWMP	

ACS URL	ACS URL address					
User Name	ACS username					
Password	ACS password					
Periodic Inform Enable the function of periodic inform or not. By default it is Enabled						
Periodic Inform	Periodic Inform Periodic notification interval with the unit in seconds. The default value is 3600s					
Connect Request	Connect Request parameters					
User Name The username used to connect the TR069 server to the DUT.						
Password	The password used to connect the TR069 server to the DUT.					

Diagnosis

In this page, user can do packet trace, ping test and traceroute test to diagnose the device's connection status.

Table 50 Diagnosis

Description

1. Packet Trace

Users can use the packet trace feature to intercept packets which traverse the device. Click the Start button to start ATA tracking and keep refreshing the page until the message trace shows to stop, click the Save button to save captured packets.

2. Ping Test

Enter the destination IP or host name, and then click Apply, device will perform ping test.

ping Test		
Dest IP/Host Name		
WAN Interface	1_TR069_VOICE_INTERNET_R_VID_	
PING www.baidu	com (115.239.210.26): 56 data bytes	
64 bytes from 11	5.239.210.26: seq=0 ttl=54 time=43.979 ms	
64 bytes from 11	5.239.210.26: seq=1 ttl=54 time=53.875 ms	
64 bytes from 11	5.239.210.26: seq=2 ttl=54 time=45.226 ms	
64 bytes from 11	5.239.210.26: seq=3 ttl=54 time=49.534 ms	
64 bytes from 11	5.239.210.26: seq=4 ttl=54 time=49.045 ms	
www.baidu.co	m ping statistics	
5 packets transmi	tted, 5 packets received, 0% packet loss	-
round trip min/ow	1/max = 43.979/48.331/53.875 ms	

3. Traceroute Test

Enter the destination IP or host name, and then click Apply, device will perform traceroute test.

ceroute Test		
Dest IP/Host Name	www.google.com	
WAN Interface	1_MANAGEMENT_VOICE_INTERNET_R_VID_ ▼	
traceroute to www.google.co	om (216.58.208.68), 30 hops max, 38 byte packets	
1 10.110.134.254 (10.110.1	(34.254) 1.017 ms 9.507 ms 1.419 ms	
2 ***		
3 * * *		Ξ
4 ***		
5 * * *		
6 * * *		
7 * * *		
8 * * *		
9 * * *		-
10 * * *		
		- 4

Operating Mode

Table 51 Operating mode

Status	Network	SIP Account	t Phone	Administration					
Management Firmware Upgrade S		Scheduled Task	s Certificates	Provision	SNMP	TR069	Diagnosis	Operating Mode	
Operating Mode Settings Help Operating Mode Settings Basic Mode									
Description Choose the Operation Mode as Basic Mode or Advanced Mode									

System Log

Table 52 System log

Status Network SIP Account Pho	one Administration	
Basic LAN Host Syslog		
Refresh Clear Save		
Manufacturer:FLYINGVOICE ProductClass:FGW4148-16S SerialNumber: BuildTime:201609181809 IP:192.168.1.1 HWVer:V1.1 SWVer:V3.11		
Thu Nov 9 15:26:56 2017> admin: 5 admin (Thu Nov 9 15:26:56 2017> admin: 6 admin (Thu Nov 9 15:26:56 2017> admin: 7 admin (Thu Nov 9 15:26:56 2017> admin: 8 admin (Thu Nov 9 15:26:56 2017> admin: 9 admin (Thu Nov 9 15:26:56 2017> admin: 10 admin (Thu Nov 9 15:26:56 2017> admin: 11 admin (Thu Nov 9 15:26:56 2017> admin: 11 admin (Thu Nov 9 15:26:56 2017> admin: watchdoq.pid	0 SW [kworker/u:0] 0 SW [migration/0] 0 SW [migration/1] 0 SW [kworker/1:0] 0 SW [ksoftirqd/1] 0 SW [ksoftirqd/1] 0 SW [sync_supers]	

Description

If you enable the system log in Status/syslog webpage, you can view the system log in this webpage.

Logout

Table 53 Logout

Vo	IP		. cont	rol panel			Firmware Version V3.11 Current Time 2017-11-09 12:08:41 Admin Mode [Loqout] [Reboot]
Status	Network	work SIP Account Phone Administration					
Basic	LAN Host	Syslog					
Descr	iption						

Press the logout button to logout, and then the login window will appear.

Reboot

Chapter 5 IPv6 address configuration

Press the Reboot button to reboot the device.

Chapter 5 IPv6 address configuration

The ATA devices support IPv6 addressing. This chapter covers:

- Introduction
- IPv6 Advance
- Configuring IPv6
- Viewing WAN port status
- IPv6 DHCP configuration for LAN/WLAN clients
- LAN DHCPv6

Introduction

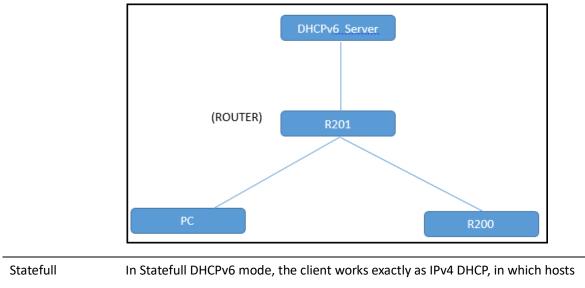
DHCPv6 protocol is used to automatically provision/configure IPv6 capable end points in a local network. In addition to acquiring an IPv6 IP address for the WAN interface and its associated LAN/WLAN clients, the devices are also capable of prefix delegation.

The devices support the following types of modes of IPv6 addresses:

- Stateless DHCPv6
- Statefull DHCPv6

Table 54 IPv6 Modes

Mode	Description
Stateless	In Stateless DHCPv6 mode, the devices listen for ICMPv6 ATA Advertisements
	messages which are periodically sent out by the ATA on the local link or requested
	by the node using a ATA Advertisements solicitation message. The device derives
	a unique IPv6 address using prefix receives from the ATA and its own MAC
	address.



receive both their IPv6 addresses and additional parameters from the DHCP server.

IPv6 Advance

To enable IPv6 functionality:

Navigate to Network > IPv6 Advanced page.

Select Enable from the IPv6 Enable drop-down list.

Click Save.

Table 55 Enabling IPv6

Status	Net	work	SIP Acco	ount	Phon	e	Admini	stration			
WAN	LAN	IPv6	Advanced	IPv6	WAN	IF	Pv6 Lan	VPN	DMZ	MAC Clone	Port Setting

IPv6 Advanced Settings

IPv6 Enable

IPv6 Enable

Disable 🔻

Type commands, here C can get the default gateway: fe80::221:f2ff:fe02:1a4f%15.

物理地址---					:	FØ-DE-F1-C8-96-66
						fe80::2db3:666d:88d9:d1c2%15(首选)
						192.168.11.90(首选)
					Ξ	255.255.255.0
获得租约的时间					Ξ	2016年2月2日 星期二 上午 10:43:34 2016年2月3日 星期三 上午 10:43:33
租约过期的时间						
默认网关					Ξ	fe80::221:f2ff:fe02:1a4f%15
						192.168.11.1
DHCP 服务器 .					Ξ	192.168.11.1
DHCPv6 IAID .					:	368107249
DHCPv6 客户端	DUID				:	00-01-00-01-1E-0A-7B-28-F0-DE-F1-C8-96-66
DNS 服务器 .					-	192.168.11.1
						192.168.10.1
TCPIP 上的 Net	BIOS					已启用

We can ping through this address.

```
C: \Users \Administrator>ping fe80::221:f2ff:fe02:1a4fx15
正在 Ping fe80::221:f2ff:fe02:1a4fx15 具有 32 字节的数据:
来自 fe80::221:f2ff:fe02:1a4fx15 的回复: 时间=1ms
来自 fe80::221:f2ff:fe02:1a4fx15 的回复: 时间<1ms
来自 fe80::221:f2ff:fe02:1a4fx15 的回复: 时间<1ms
来自 fe80::221:f2ff:fe02:1a4fx15 的回复: 时间<1ms
fe80::221:f2ff:fe02:1a4fx15 的回复: 时间<1ms
fe80::221:f2ff:fe02:1a4fx15 的 Ping 统计信息:
数据包: 已发送 = 4, 已接收 = 4, 丢失 = 0 <0% 丢失>,
往返行程的估计时间<以毫秒为单位>:
最短 = 0ms, 最长 = 1ms, 平均 = 0ms
```

LAN DHCPv6

When IPv6 is enabled, the LAN/WLAN clients of ATA can be configured to receive IPv6 addresses from locally configured IPv6 pool or from an external DHCPv6 server.

To enable LAN DHCPv6 service:

Status	Network	SIP Acco	ount Pho	one A	dministrati	ion		
WAN L	AN IPv6	Advanced	IPv6 WAN	IPv6	LAN VP	N DMZ	MAC Clone	Port Setting
IPv6 LA	N Setting							
IPv6 LAN Se	etting —							
IPv6 Addr	ess		fec	0::1				
IPv6 Prefi	x Length		64			(0-128)		
DHCPv6 S	erver							
DHCPv6 S	tatus		Di	sable 🔻				
DHCPv6 M	1ode		St	ateless 🔻]			
Domain N	ame							
Server Pre	eference		25	5		(0-255)		
Primary D	NS Server							
Secondary	/ DNS Server							
Lease Tim	ie		864	100		(0-86400se	ec)	
IPv6 Addr	ess Pool					-		
Router Ad	vertisement							
Router Ad	vertisement		Di	sable 🔻				
Advertise	Interval		30			(10-1800se	ec)	
RA Manag	ed Flag		Di	sable 🔻				
RA Other	Flag		En	able 🔻				
Prefix						/		
Prefix Life	time		36)0		(0-3600sed	:)	

Configuring IPv6

Configuring Statefull IPv6

1. Navigate to Network > IPv6WAN page. The following window is displayed:

Stateless mode dhcpv6 client send ipv6 address and DNS request, and the server reply the DNS server and

Status Network Wireless Application Storage Security WAN IPv6 Advanced IPv6 WAN IPv6 LAN VPN Port Forward DMZ DDNS Port Setting Routing Advance IPv6 LAN Setting Pv6 LAN Setting IPv6 Address fec0::1 IPv6 Prefix Length (0-128)48 DHCPv6 Server Enable 🔻 DHCPv6 Status Statefull 🔻 DHCPv6 Mode Domain Name flyingvoice.com Server Preference 255 (0-255) Primary DNS Server fec0::2 Secondary DNS Server fec0::3 Lease Time (0-86400sec) 86400 IPv6 Address Pool fec0::100 - fec0::200 / 48 Router Advertisement Router Advertisement Enable 🔻 Advertise Interval 30 (10-1800sec) RA Managed Flag Enable 🔻 RA Other Flag Disable 🔻 Prefix 1 Prefix Lifetime (0-3600sec) 3600

Domain name, and ipv6 address.

DHCPv6 client configure as this

Table 56 Configuring Statefull IPv6

Status	Net	work	SIP Acco	SIP Account		Admin	istration			
WAN	LAN	IPv6	Advanced IPv6		WAN	IPv6 LAN	VPN	DMZ	MAC Clone	Port Setting

IPv6 WAN Setting			
IPv6 WAN Setting			
Connection Type		DHCPv6 V	
DHCPv6 Address Settings		Stateless V	
Prefix Delegation		Disable 🔻	
Field Name	Description		
Connection Type	Select connection typ	pe	
DHCPv6 Address Settings	Set it to statefull mod	de.	

Prefix Delegation Select Enable.

In this way the ATA can get ipv6 address and DNS address, for more information please check the packets

dhcpv6_stateful.pcap.

Also we can check via CLI.

Link encap:Ethernet HWaddr 00:21:F2:08:16:59
inet addr:192.168.11.64 Bcast:192.168.11.255 Mask:255.255.255.0
cinet6 addr: fec0::100/128 Scope:Site
inet6 addr: fe80::221:f2ff:fe08:1659/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:1235 errors:0 dropped:0 overruns:0 frame:0
TX packets:1346 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:103756 (101.3 KiB) TX bytes:1329724 (1.2 MiB)

In this mode, PC can get ipv6 address too.

cat /etc/resolv.conf nameserver 192.168.11.1 nameserver 192.168.10.1 nameserver fec0::2 nameserver fec0::3
以太网适配器 本地连接:
连接特定的 DNS 后缀 : flyingvoice.com 描述 : Intel(R) 82579LM Gigabit Network Conne
on 物理地址
DNS 服务器:fec0::2×1 fec0::3×1 192.168.11.1

Configuring Stateless IPv6

Stateless mode dhcpv6 client only send DNS request, and the server reply the DNS server and Domain name,

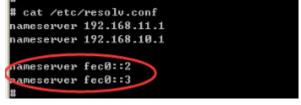
DHCPv6 server configure as the picture shows, DHCPv6 client configure as this .

Status	Network	Wireless	5 2.4 GHz	Wireless 5GH	z Se	curity	Applic	cation	Adminis	tration	
WAN	LAN IPv6	Advanced	IPv6 WAN	IPv6 LAN	VPN	Port F	orward	DMZ	VLAN	DDNS	Q
Routing	Advance										
IPv6 W	AN Setting										
IPv6 WAN	Setting —										
Connecti	ion Type			[HCPv6	¥					
DHCPv6	Address Settin	gs		5	Stateless	•					
Prefix De	elegation			[Disable 🔻						

After the configuration, we can check the packets about the dhcpv6 client. For more information, please check

dhcpv6_stateless.pcap.

In the ATA we can check via CLI. But you can not see ipv6 address



ping DNS address

When in stateful mode, device can get ipv6 address from dhcpv6 server, in this way we can ping a DNS, verify if it can do domain name resolve by ipv6 DNS address. Check this we can use the packets to prove. You can find on this packet dns.pcap

WAN DHCPv6 client

ATA use the WAN DHCPv6 client, you can refer to the part 2 to check the stateful and stateless mode. Another thing I need show you is Prefix distribution.

Prefix distribution

1)WAN port DHCPv6 server enable prefix distribution feature.

2)WAN port DHCPv6 client enable prefix distribution

3)LAN port DHCPv6 server disable dhcp service

brθ Link encap:Ethernet HWaddr 00:21:F2:02:1A:4F inet addr:192.168.11.1 Bcast:192.168.11.255 Mask:255.255.255.0 inet6 addr: 2001:db8:352e:0:221:f2ff:fe02:1a4f/48 Scope:Global inet6 addr: fe80::221:f2ff:fe02:1a4f/64 Scope:Link inet6 addr: fec0::1/48 Scope:Site UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1 RX packets:1255 errors:0 dropped:0 overruns:0 frame:0 TX packets:1550 errors:0 dropped:0 overruns:0 carrier:0 collisions:0 txqueuelen:0 RX bytes:226565 (221.2 KiB) TX bytes:613327 (598.9 KiB)

The behind ATA also get an ipv6 address

սրւ.

eth2.1	Link encap:Ethernet HWaddr 00:21:F2:08:16:59
	inet addr:192.168.11.64 Bcast:192.168.11.255 Mask:255.255.255.0
	inet6 addr: 2001:db8:352e:0:221:f2ff:fe08:1659/64
	inet6
	UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
	RX packets:693 errors:0 dropped:0 overruns:0 frame:0
	TX packets:563 errors:0 dropped:0 overruns:0 carrier:0
	collisions:0 txqueuelen:0
	RX bytes:58337 (56.9 KiB) TX bytes:375603 (366.7 KiB)

Use this ipv6 address we can ping ATA LAN ipv6 address

C:\Users\Administrator>ping 2001:db8:352e:0:221:f2ff:fe02:1a4f

正在	Ping 2001:db8:352e:0:221:f2ff:fe02	:1a4f 具有 32 字节的数据:
来自	2001:db8:352e:0:221:f2ff:fe02:1a4f	的回复: 时间<1ms
来自	2001:db8:352e:0:221:f2ff:fe02:1a4f	的回复: 时间<1ms
来自	2001:db8:352e:0:221:f2ff:fe02:1a4f	的回复: 时间<1ms
来自	2001:db8:352e:0:221:f2ff:fe02:1a4f 2001:db8:352e:0:221:f2ff:fe02:1a4f 2001:db8:352e:0:221:f2ff:fe02:1a4f 2001:db8:352e:0:221:f2ff:fe02:1a4f	的回复:时间<1ms

Viewing WAN/LAN port status

To view the status of WAN port:

Navigate to Status page.

LAN status

Now only LAN ipv6 dhcpv6 mode is statefull, it can display ipv6 client ipv6 address

Status	Network	Wireless 2.40	Hz Wirele	ss 5GHz	SIP	FXS1	FXS2	Security	Application	Storage	Admin	istration
Basic	LAN Host	Syslog										
LAN Hos	t info											
M	IAC Address	IP	Address	Inter	face Typ	e	Address S	ource	Expires	Host name	•	Status
00:2	1:F2:AC:BA:19 27:19:95:22:FF CF:5E:CB:F9:C9	192.1	68.11.207 68.11.203 168.11.66	Í	LAN2 LAN3 /-TEST		DHC DHC DHC	P	23:57:23 23:57:41 23:59:26	cnPilot R20 WIN-20151218 MQGAADTGXWB	BRLZ	Active Active Active
Ipv6 LA	N Host Info											
						IPv6 Add	ress					
						fec0::10 fec0::10						

WAN status

Network Status	
Internet Port Status	
Connection Type	DHCP
IP Address	192.168.11.207 Renew
Ipv6 Address	fe80::221:f2ff:feac:ba19/64 fec0::100/128
Subnet Mask	255.255.255.0
Default Gateway	192.168.11.1
Primary DNS	192.168.11.1
Secondary DNS	192.168.10.1
Ipv6 Primary DNS	fec0::2
Ipv6 Secondary DNS	fec0::3
WAN Port Status	1000Mbps Full

Chapter 6 Troubleshooting Guide

This chapter covers:

- Configuring PC to get IP Address automatically
- Cannot connect to the Web
- Forgotten Password

Configuring PC to get IP Address automatically

Follow the below process to set your PC to get an IP address automatically:

Step 1: Click the "Start" button

Step 2: Select "control panel", then double click "network connections" in the "control panel" Step 3: Right click the "network connection" that your PC uses, select "attribute" and you can see the interface as shown in Figure 3.

Step 4: Select "Internet Protocol (TCP/IP)", click "attribute" button, then click the "Get IP address automatically".

etworking Sharing	General Alternate Configuration					
Connect using: Microsoft Virtual WiFi Miniport Adapter #2		utomatically if your network supports d to ask your network administrator				
Configure) Obtain an IP address automat	ically				
This connection uses the following items:	Use the following IP address:					
Client for Microsoft Networks	IP address:					
✓ ➡ QoS Packet Scheduler ✓ ➡ File and Printer Sharing for Microsoft Networks	Subnet mask:					
Internet Protocol Version 6 (TCP/IPv6)	Default gateway:					
A Internet Protocol Version 4 (TCP/IPv4) A Link-Layer Topology Discovery Mapper I/O Driver A Link-Layer Topology Discovery Responder	 Obtain DNS server address automatically Use the following DNS server addresses: 					
	Preferred DNS server:					
Description	Alternate DNS server:	· · · ·				
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	Validate settings upon exit					
		OK Canc				

Cannot connect to the Web

Solution:

- Check if the Ethernet cable is properly connected
- Check if the URL is correct. The format of URL is: http:// the IP address
- Check on any other browser apart from Internet explorer such Google
- Contact your administrator, supplier or ITSP for more information or assistance.

Forgotten Password

If you have forgotten the management password, you cannot access the configuration web GUI. Solution:

To factory default: press and hold reset button for 10 seconds.