



VOIP ROUTER USER GUIDE FWR7302E2

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Risk Warning Statement

This risk warning statement contains a summary of external network servers that FWR7302E2 will access under its factory settings in order to obtain necessary service support. If you want to prohibit these accesses based on security considerations, you can disable them through the WEB management page.

Number	Server Domain Name	Description	Factory Setting
1	https://prv3.flyingvoice.net:442	Flyingvoice Provision web management configuration server	Disable
2	http://acs3.flyingvoice.net:8080	Flyingvoice TR069 web management server	Disable
3	clock.fmt.he.net	NTP server	Enable
4	cn.pool.ntp.org	NTP Secondary server	Enable

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About This Guide

Thank you for choosing Flyingvoice FWR7302E2, which will allow you to make ATA call using your broadband connection, and provides Wi-Fi router function with stable network. FWR7302E2 also support 4G LTE.

This guide provides everything you need to quickly use your new router. Firstly, verify with your system administrator that the IP network is ready for router configuration. Also be sure to read the Quick Start Guide which can be found in your router package before you set up and use the IP router. As you read this guide, keep in mind that some features are configurable by your system administrator or determined by your router environment. As a result, some features may not be enabled or may operate differently on your router. Additionally, the examples and graphics in this guide may not directly reflect what is displayed or is available on your router screen.

Related Documents

The following types of related documents are available on each page:

- Datasheet
- Quick start guide

Getting Started with Your Router

This chapter provides the overview of router hardware, and how to navigate your router for the best performance.

Hardware Overview

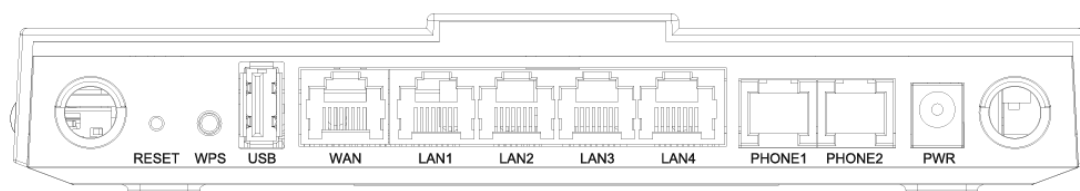
Topics

[FWR7302E2 Hardware](#)

[LED Indicator](#)

[Hardware Installation](#)

FWR7302E2 Hardware



NO.	Item	Description
1	PWR (12V, 2A)	Power adapter interface
2	PHONE	FXS port, connect RJ11 cable
3	LAN1-LAN4	Local Area Network interface, connect RJ45 cable
4	WAN	Wide Area Network interface, connect RJ45 cable
5	USB	Universal Serial Bus 3.0 interface, connect USB flash disk
6	WPS	Wi-Fi Protected Setup key, Wi-Fi quick connect
7	RESET	Factory Reset key
8	SIM1	SIM card interface, support standard SIM card (25mm x 15mm)

9	SIM2	SIM card interface, support Micro SIM card (15mm x 12mm)
---	------	--

LED Indicator

The LED indicator indicates the call, message and router's system status.

LED	LED Status	Description
Power	ON(GREEN)	Powered on
	OFF	Powered off
SIM	ON(GREEN)	SIM Accepted
	OFF	No Service/No SIM card
LTE	On Blinking (GREEN)	Connected (Data), running as active wan
	ON(GREEN)	Connected (Registered)
	ON(RED)	Has SIM card but connect fail
	OFF	Disconnected/Power off
WAN	ON(GREEN)	Connected (Data), running as active wan
	On Blinking (GREEN)	Connected (Registered)
	OFF	Disconnected/Power off
LAN	ON(GREEN)	Connected (Data)
	On Blinking (GREEN)	Connected (Registered)
	OFF	Disconnected
2.4G	ON(GREEN)	2.4G ready, no connection
	On Blinking (GREEN)	2.4G traffic (Data), has connection
	OFF	2.4G disable
5G	ON(GREEN)	5G ready, no connection
	On Blinking (GREEN)	5G traffic (Data), has connection
	OFF	5G disable
RJ-11	ON(GREEN)	Connected (Registered)
	On Blinking (GREEN)	Connected (Data)
	OFF	Disconnected/Register fail

Hardware Installation

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

Procedure 1 Configuring the Router

1. Connect analog phone to FXS port with a RJ11 cable.
2. Connect the WAN port to your ISP's router/switch with a RJ45 cable
3. Insert the SIM card into the card slot
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 device 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 the device 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.
- Consult the dealer or an experienced radio/TV technician for help.

Basic Features

You can use the router to make and answer calls, ignore incoming calls, transfer a call to someone else, conduct a conference call and perform other basic call features.

Topics

[Web Management Interface](#)

[Basic Network Setting](#)

[Configuring Session Initiation Protocol \(SIP\)](#)

[Basic Calls](#)

[Directly IP Calls](#)

[Call Hold](#)

[Blind Transfer](#)

[Attended Transfer](#)

[Conference](#)

Web Management Interface

The devices feature a web browser-based interface that may be used to configure and manage the device. See below for information.

Topics

[Two-Level Management](#)

[Logging in from the LAN Port](#)

[Logging in from the WAN Port](#)

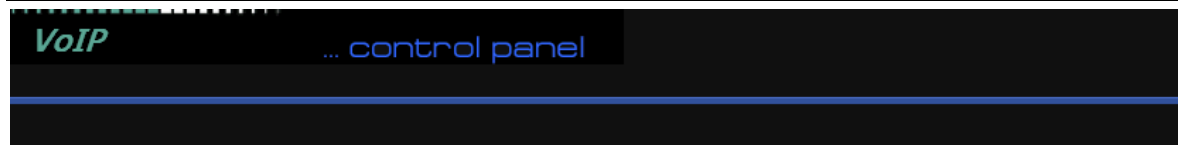
Two-Level Management

FWR7302E2 supports two-level management:

1. Administrator mode operation, please type "admin/admin" on Username/Password and click **Login** button to begin configuration.
2. User mode operation, please type "user/user" on Username/Password and click **Login** button to begin configuration.

Logging in from the LAN Port

1. Make sure your PC is connected to the router's LAN port correctly.
2. Open a browser on your PC and type "http://192.168.11.1". The following window appears that prompts for Username and Password.
3. Please refer to information of Two-Level Management part to login.
4. Please note: the web management will automatically log out after 5 minutes of inactivity.



Username
Password



Note

You may either set up your PC to get an IP dynamically from the router or set up the IP address of the PC to be the same subnet as the default IP address of router is 192.168.1.1. For detailed information, see Chapter 5: Troubleshooting Guide.

Logging in from the WAN Port

1. Make sure your PC is connected to the same network with to the router's WAN port.
2. Obtain the IP addresses of WAN port using IVR or by logging into the device web management interface via a LAN port and navigating to **Network > WAN**.
3. Ping router's WAN IP from your PC, make sure ping success.
4. Open a browser on your PC and type `http://<IP address of WAN port>`. The following login page will be opened to enter username and password.
5. Please refer to information of Two-Level Management part to login.
6. Please note: the web management will automatically log out after 5 minutes of inactivity.



Username
Password

Basic Network Setting

[Wired Connection](#)

[Wireless Connection](#)

Wired Connection

Navigate to the **Network** > **WAN** page, you can add or delete WAN connections. For more information on Internet Connection setting, please refer to the following table.

The screenshot shows the WAN configuration page with the following settings:

- Connect Name: 1_MANAGEMENT_VOICE_INTERNET_R_VID
- Service: MANAGEMENT_VOICE_INTERNET
- IP Protocol Version: IPv4
- WAN IP Mode: DHCP
- DHCP Server: (empty)
- MAC Address Clone: Disable
- NAT Enable: Enable
- VLAN Mode: Disable
- VLAN ID: 1 (1-4094)
- DNS Mode: Auto
- Primary DNS: (empty)
- Secondary DNS: (empty)
- DHCP Renew: Renew
- DHCP Vendor (Option 60): FLYINGVOICE-FWR7302
- Port Bind:
 - Port_1
 - Port_2
 - Port_3
 - Port_4
 - Wireless (SSID)
 - Wireless (SSID1)
 - Wireless (SSID2)
 - Wireless (SSID3)

Note: LAN (local) ports can only be bound to one WAN (Internet) connection at a time!

Field Name	Description
Connect Name	Use keywords to indicate WAN port service model (the parameters are defined in Network-> multi-WAN page)
Service	Choose the service mode for the created connection
IP Protocol Version	IPv4 and IPv6 are supported
WAN IP Mode	Choose Internet connection mode, DHCP, PPPoE, or Bridge
NAT Enable	Enable or disable NAT

VLAN ID	VLAN ID
DNS Mode	Select DNS mode, options are Auto and Manual: When DNS mode is Auto, the device under LAN port will automatically obtains the primary DNS and secondary DNS.
Primary DNS	Enter the preferred DNS address
Secondary DNS	Enter the secondary DNS address
DHCP Renew	Refresh the DHCP IP
DHCP Vendor (Option60)	Specify the DHCP Vendor field Display the vendor and product name

Wireless Connection

To set up the wireless connection, please perform the following steps.

Enable Wireless and Setting SSID

Open **Wireless > Basic** webpage as shown below.

The screenshot shows the 'Basic Wireless Settings' page for the Wireless 2.4GHz interface. The 'Radio On/Off' is set to 'Radio On'. The 'Wireless Connection Mode' is set to 'AP'. The 'Network Mode' is set to '11b/g/n mixed mode'. There are four 'Multiple SSID' entries, each with an 'Enable' checkbox, 'Hidden', 'Isolated', and 'Max Client' (set to 16) options. The 'broadcast (SSID)' option is selected as 'Enable'. The 'AP Isolation' and 'MBSSID AP Isolation' options are selected as 'Disable'. The 'BSSID' is set to '00:21:F2:0E:67:88'. The 'Frequency (Channel)' is set to 'Auto'. The 'Operating Mode' is selected as 'Mixed Mode'. The 'Channel BandWidth' is selected as '20/40'.

Field Name	Description
Radio On/Off	Select "Radio Off" to disable wireless operation Select "Radio On" to enable wireless operation Please note: "Save" is required for this parameter change
Network Mode	Choose one network mode from the drop-down list
SSID	The logical name of the wireless connection (text, numbers or various special characters)
Multiple SSID 1-4	Multiple SSID 1 - 4, configure up to 4 unique SSIDs
Broadcast (SSID)	Enabled: The device SSID is broadcast at regular intervals Disabled: The device SSID is not broadcast at regular intervals, disallowing Wi-Fi clients from automatically connecting to the FWR7302E2

AP Isolation	Enabled: Devices connected to the router are isolated from one another on virtual networks. Disabled: Devices connected to the router are visible on the network to each other.
MBSSID AP Isolation	Enabled: Devices connected to the router via one of the Multiple SSIDs are isolated from one another on virtual networks. Disabled: Devices connected to the router via one of the Multiple SSIDs are visible on the network to each other.
BSSID	Basic Service Set Identifier – AP MAC Address Listing.
Frequency (Channel)	Select the channel of operation for the device from the drop-down list.
HT Physical Mode	
Operating Mode	Mixed Mode: Packet preamble (only) is transmitted in a format compatible with legacy 802.11a/g (for 802.11a/g receivers). Green Field: High throughput packet preambles do not contain legacy formatting (802.11n only network).
Channel Bandwidth	20: the device operates with a 20 MHz channel size 20/40: the device operates with a 40 MHz channel size.

Encryption

Open Wireless Security webpage to configure custom security parameters.

Field Name	Description
SSID Choice	Choose the SSID from the drop-down list for which security will be configured
Security Mode	Select an appropriate encryption mode to improve the security and privacy of your wireless data packets. Each encryption mode will launch an additional web page and ask you to offer additional configuration. For high security, the device can be configured for Security Mode as WPA2-PSK and WPA Algorithms as AES.
WPA Algorithms	This parameter is used to select the encryption of wireless home gateway algorithms; options are TKIP, AES and TKIPAES.
Pass Phrase	Configure the WPA-PSK security password.
Key Renewal Interval	Set the key scheduled update cycle, default is 3600s.
Access Policy	
Policy	Disable: Access policy rules are not enforced Allow: Only allow the clients in the station MAC list to access Rejected: Block the clients in the station MAC list from registering
Add a Station MAC	Enter the MAC address of the clients which you want to allow or reject.

Configuring Session Initiation Protocol (SIP)

SIP Accounts

The device supports 2 FXS ports to make SIP (Session Initiation Protocol) calls. Before registering, the device user should have a SIP account configured by the system administrator or provider. See the section below for more information.

Configuring SIP via the Web Management Interface

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
SIP Account		Preferences						
Basic								
Basic Setup								
Line Enable	Enable ▼			Outgoing Call without Registration	Disable ▼			
Proxy and Registration								
Proxy Server	<input type="text"/>			Proxy Port	<input type="text" value="5060"/>			
Outbound Server	<input type="text"/>			Outbound Port	<input type="text" value="5060"/>			
Backup Outbound Server	<input type="text"/>			Backup Outbound Port	<input type="text" value="5060"/>			
Allow DHCP Option 120 to Override SIP Server	Disable ▼							
Subscriber Information								
Display Name	<input type="text"/>			Phone Number	<input type="text"/>			
Account	<input type="text"/>			Password	<input type="text"/>			

Procedure

1. Navigate to the FXS1/SIP Account web page.
2. Input the SIP Server address and SIP Server port number (from server provider) into parameters: Proxy Server and Proxy Port.
3. Input account details received from your administrator into Display Name, Phone Number and Account details.
4. Type the password received from your administrator into the Password parameter.
5. Press **Save** button in the bottom of the web page to save changes.
6. Press **Reboot** button in the bottom of the web page to make setting effective.
7. Navigate to Status page check register status.

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
Basic	LAN Host	Syslog						

Product Information**Product Information**

Product Name	FWR7302
Internet (WAN) MAC Address	00:21:F2:0E:67:89
PC (LAN) MAC Address	00:21:F2:0E:67:88
Hardware Version	V3.2
Loader Version	V3.36(May 11 2017 15:15:06)
Firmware Version	V3.20(201710271628)
Serial Number	FLY79169000194

LTE Status**LTE Status**

SIM Status	No SIM
IMEI Code	
Hardware Model	
Software Version	
Signal Strength	
Service Provider	

Basic Calls

To make basic calls:

- Caller and callee register to same SIP server.
- To make a call, caller pick up the analog phone or turn on the speaker on the analog phone, caller will hear dial tone.
- Then input callee's phone number with # at the end.
- Callee will start ringing, pick up to answer the call.
- For example: caller number is 601, callee is 601, caller press 601#, callee will start ringing.

Directly IP calls

Direct IP calling allows two analog phones to talk to each other without SIP server.

- Please make sure both router which analog phone connected could ping each other from WAN port.
- Enable Outgoing Call without Registration in FXS--SIP Account page.
- Disable Only Recv Request From Server in FXS--SIP Account---SIP Advanced Setup part.
- Caller pick up the analog phone or turn on the speakerphone on the analog phone, input the callee's IP address directly, with the end "#".
- Callee will start ringing, pick up to answer the call.

The screenshot shows the configuration interface for the FXS1 SIP account. The 'Basic Setup' section includes:

- Line Enable: Enable
- Outgoing Call without Registration: Enable

The 'Advanced Setup' section includes:

- Dial Prefix: [Empty text box]
- Hold Method: ReINVITE
- Only Recv Request From Server: **Disable** (highlighted with a red box)
- SIP Received Detection: Disable
- User Type: IP
- Request-URI User Check: Disable
- Server Address: [Empty text box]
- VPN: Disable

Call Hold

- During a call connection, party A pressing the "*77" to put the call on hold, then part A will hear the dial tone and the party B will hear hold tone at the same time.

- Party A pressing the “*77” again to release the previously hold status and resume the bi-directional media.

Blind Transfer

- Assume that call party A and B are in a conversation, party A wants to transfer this call to C.
- Party A dials “*98” to get a dial tone, then dial party C’s number.
- Party A can hang up. Party C will start ringing, pick up will talk to part B.

Attended Transfer

- Assume that call party A and B are in a conversation. A wants to transfer this call to C.
- Party A press “*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 press “*98” to transfer to C, then B and C will be in a 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, and C will be in a conference.

Advanced Web Configuration

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

Topics:

[Login](#)

[Status](#)

[Network and Security](#)

[Wireless](#)

[SIP](#)

[FXS1](#)

[FXS2](#)

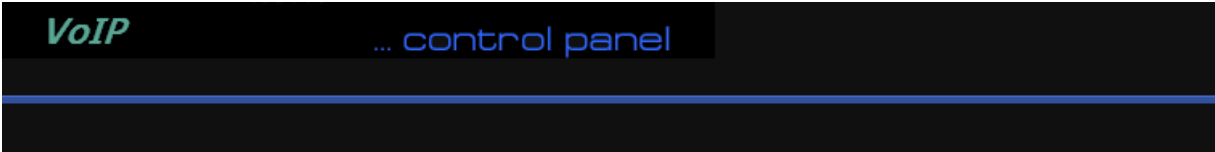
[Security](#)

[Application](#)

[Storage](#)

[Administration](#)

Login



Username	<input type="text" value="admin"/>
Password	<input type="password" value="....."/>
	<input type="button" value="Login"/>

Procedure

1. Connect the LAN port of the router to your PC via 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

Basic

LAN Host

Syslog

Product Information

Product Information

Product Name	FWR7302E2
Internet (WAN) MAC Address	18:53:E0:28:53:13
PC (LAN) MAC Address	18:53:E0:28:53:12
Hardware Version	V4.6
Loader Version	V3.47(May 8 2021 10:20:43)
Firmware Version	V3.20 (202106251842)
Serial Number	HG8A1708000127

LTE Status

LTE Status

SIM Status	No SIM
IMEI Code	865237040024897
Hardware Model	SIMCOM_SIM7906SA-M2
Software Version	LE30B03SIM7906
Signal Strength	
Service Provider	
Connection Status	Disconnected
Frequency	
Earfcn	
Data Rate	Up 0 kbit/s Down 0 kbit/s
Sent/Received	26.325 MB / 411.295 MB
Reset LTE Data	<input type="button" value="Reset LTE Data"/>

SIP Account Status**SIP Account Status**

FXS 1 SIP Account Status	Registered 1100
Primary Server	192.168.10.88
Backup Server	192.168.10.88
FXS 2 SIP Account Status	Registered 1111
Primary Server	192.168.10.88
Backup Server	192.168.10.88

FXS Port Status**FXS Port Status**

FXS 1 Hook State	On
FXS 1 Port Status	Idle
FXS 2 Hook State	On
FXS 2 Port Status	Idle

Network Status**Active WAN Interface**

Connection Type	DHCP
IP Address	192.168.10.124 <input type="button" value="Renew"/>
Link-local IPv6 Address	
Subnet Mask	255.255.255.0
Default Gateway	192.168.10.1
Primary DNS	192.168.10.1
Secondary DNS	192.168.18.1
IPv6 PD Prefix	
IPv6 Domain Name	
IPv6 Primary DNS	
IPv6 Secondary DNS	
WAN Port Status	100Mbps Full
WAN Down Speed	212B/s
WAN Up Speed	628B/s

1 TR069_VOICE_INTERNET Vlan Status

Connection Type	DHCP
MAC Address	00:21:F2:0E:67:89
IP Address	192.168.10.124
Subnet Mask	255.255.255.0
Default Gateway	192.168.10.1
Primary DNS	192.168.10.1
Secondary DNS	192.168.18.1

VPN Status

VPN Type	Disable
Initial Service IP	
Virtual IP Address	

LAN Port Status

IP Address	192.168.1.1
Subnet Mask	255.255.255.0
LAN1	Link Down
LAN2	1000Mbps Full
LAN3	Link Down
LAN4	Link Down

Wireless Info**Wireless 2.4GHz**

Radio On/Off	On
Network Mode	11b/g/n mixed mode
Current Channel	4
Channel Bandwidth	40MHz

Wireless 5GHz

Radio On/Off	On
Network Mode	11vht AC/AN/A
Current Channel	36
Channel Bandwidth	40MHz

Wireless_AP0E6788 (2.4GHz)

BSSID	00:21:F2:0E:67:88
Number of Device	0

Wireless_5G0E6788 (5GHz)

BSSID	00:21:F2:0E:67:8C
Number of Device	0

System Status

System Status

Current Time	2017-11-02 14:06:38
Elapsed Time	4 Hours, 14 Mins

Description

This webpage shows the status information about the Product, Network, and System including Product Information, SIP Account Status, FXS Port Status, Network Status. Wireless Info and System Status.

Network and Security

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

Topics

[WAN](#)

[LAN](#)

[LTE](#)

[VPN](#)

[Port Forward](#)

[DMZ](#)

[DDNS](#)

[QoS](#)

[Port Setting](#)

[Routing](#)

[Advanced](#)

[Connection Manager](#)

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.

Topics

[Static IP](#)

[DHCP](#)

[PPPoE](#)

[Bridge Mode](#)

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.

Static	
IP Address	<input type="text" value="192.168.10.173"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Default Gateway	<input type="text" value="192.168.10.1"/>
DNS Mode	<input type="text" value="Manual ▼"/>
Primary DNS	<input type="text" value="192.168.10.1"/>
Secondary DNS	<input type="text" value="192.168.18.1"/>

Field Name	Descriptio
IP Address	The IP address of Internet port
Subnet Mask	The subnet mask of Internet port
Default Gateway	The default gateway of Internet port
DNS Mode	Select DNS mode, options are Auto and Manual: <ol style="list-style-type: none"> 1. When DNS mode is Auto, the device under LAN port will automatically obtain the preferred DNS and alternate DNS. 2. When DNS mode is Manual, the user manually configures the preferred DNS and alternate DNS information.
Primary DNS Address	The primary DNS of Internet port
Secondary DNS Address	The secondary DNS of Internet port

DHCP

The Router has a built-in DHCP server that assigns private IP address to each local client. The DHCP feature allows the router 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.

INTERNET	
WAN	
Connect Name	1_MANAGEMENT_VOICE_INTERNET_R_VID ▼ Delete Connect
Service	MANAGEMENT_VOICE_INTERNET ▼
IP Protocol Version	IPv4 ▼
WAN IP Mode	DHCP ▼
DHCP Server	<input type="text"/>
MAC Address Clone	Disable ▼
NAT Enable	Enable ▼
VLAN Mode	Disable ▼
VLAN ID	1 (1-4094)
DNS Mode	Auto ▼
Primary DNS	<input type="text"/>
Secondary DNS	<input type="text"/>
DHCP	
DHCP Renew	<input type="button" value="Renew"/>
DHCP Vendor (Option 60)	FLYINGVOICE-FWR7302

Field Name	Description
DNS Mode	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 should manually configure the preferred DNS and alternate DNS.
Primary DNS Address	Primary DNS of Internet port.
Secondary DNS Address	Secondary DNS of Internet port.
DHCP Renew	Refresh the DHCP IP address.
DHCP Vendor (Option60)	Specify the DHCP Vendor field. Display the vendor and product name.

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.

INTERNET	
WAN	
Connect Name	1_MANAGEMENT_VOICE_INTERNET_R_VID ▼ Delete Connect
Service	MANAGEMENT_VOICE_INTERNET ▼
IP Protocol Version	IPv4 ▼
WAN IP Mode	PPPoE ▼
MAC Address Clone	Disable ▼
NAT Enable	Enable ▼
VLAN Mode	Disable ▼
VLAN ID	1 (1-4094)
DNS Mode	Auto ▼
Primary DNS	<input type="text"/>
Secondary DNS	<input type="text"/>
PPPoE	
PPPoE Account	<input type="text"/>
PPPoE Password	••••••••
Confirm Password	••••••••
Service Name	<input type="text"/>
	Leave empty to autodetect
Operation Mode	Keep Alive ▼
Keep Alive Redial Period(0-3600s)	5

Field Name	Descriptio
PPPoE Account	Enter a valid user name provided by the ISP
PPPoE Password	Enter a valid password provided by the ISP. The password can contain special characters and allowed special characters are \$, +, *, #, @, !. For example, the password can be entered as #net123@IT!\$+*.

Confirm Password	Enter your PPPoE password again.
------------------	----------------------------------

Service Name	Enter a service name for PPPoE authentication. 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 <input type="text" value="On Demand"/> On Demand Idle Time(0-60m) <input type="text" value="5"/> When the mode is Manual, there are no additional settings to configure.
----------------	--

Keep Alive Redial	Set the interval to send Keep Alive messaging.
-------------------	--

PPPoE Account	Assign a valid user name provided by the ISP.
---------------	---

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.

INTERNET

WAN

Connect Name	1_MANAGEMENT_VOICE_INTERNET_R_VID ▼	Delete Connect
Service	MANAGEMENT_VOICE_INTERNET ▼	
IP Protocol Version	IPv4 ▼	
WAN IP Mode	Bridge ▼	
Bridge Type	IP Bridge ▼	
DHCP Service Type	Pass Through ▼	
VLAN Mode	Disable ▼	
VLAN ID	1 (1-4094)	

Port Bind

<input checked="" type="checkbox"/> Port_1	<input checked="" type="checkbox"/> Port_2	<input checked="" type="checkbox"/> Port_3
<input checked="" type="checkbox"/> Wireless(SSID)	<input checked="" type="checkbox"/> Wireless(SSID1)	<input checked="" type="checkbox"/> Wireless(SSID2) <input checked="" type="checkbox"/> Wireless(SSID3)

Note : WAN connection can not be shared between the binding port , and finally bound port WAN connections bind operation will wash away before the other WAN connection to the port binding operation !

Field Name	Descriptio
Bridge Type	
IP Bridge	Allow all Ethernet packets to pass. PC can connect to upper network directly.
PPPoE Bridge	Only Allow PPPoE packets pass. PC needs PPPoE dial-up software.
Hardware IP Bridge	Packets pass through hardware switch with wired speed. Does not support wireless port binding
DHCP Service Type	
Pass Through	DHCP packets can be forwarded between WAN and LAN, DHCP server in gateway will not allocate IP to clients of LAN port.
DHCP Snooping	When gateway forwards DHCP packets form LAN to WAN it will add option82 to DHCP packet, and it will remove option82 when forwarding

DHCP packet from the WAN interface to the LAN interface. Local DHCP service will not allocate IP 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.

**Note**

Multiple WAN connections may be created with the same VLAN ID.

802.1p Set the priority of VLAN, Options are 0~7.

LAN

Topics

[LAN Port](#)

[DHCP Server](#)

LAN Port

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

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application		
WAN	LAN	IPv6 Advanced	IPv6 WAN	IPv6 LAN	VPN	Port Forward	DMZ	VLAN	QoS	Rate
Advance										

PC Port(LAN)

PC Port(LAN)

Local IP Address	<input type="text" value="192.168.1.1"/>
Local Subnet Mask	<input type="text" value="255.255.255.0"/>
Local DHCP Server	<input type="text" value="Enable"/>
DHCP Start Address	<input type="text" value="192.168.1.2"/>
DHCP End Address	<input type="text" value="192.168.1.254"/>
DNS Mode	<input type="text" value="Auto"/>
Primary DNS	<input type="text" value="192.168.1.1"/>
Secondary DNS	<input type="text" value="192.168.10.1"/>
Client Lease Time (0-86400s)	<input type="text" value="86400"/>

DHCP Static Allotment		
NO.	MAC	IP Address
<input type="button" value="Delete Selected"/> <input type="button" value="Add"/> <input type="button" value="Edit"/>		

DNS Proxy

Field Name	Description
IP Address	Enter the IP address of the router on the local area network. All the IP addresses of the computers which are in the router's LAN must be in the same network segment with this address, and the default gateway of the computers must be 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 255.255.255.0/24).
Local DHCP Server	Enable/Disable Local DHCP Server.

DHCP Start Address	Enter a valid IP address as a starting IP address of the DHCP server, and if the router'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.

DHCP Server

The router has a built-in DHCP server that assigns private IP address to each local client. DHCP stands for Dynamic Host Configuration Protocol. The router, by factory default acts a DHCP server for your network so it automatically dispatches related IP settings to any local user configured as a DHCP client. It is highly recommended that you leave the router enabled as a DHCP server if you do not have a DHCP server for your network.

PC Port(LAN)

PC Port(LAN)

Local IP Address	<input type="text" value="192.168.11.1"/>
Local Subnet Mask	<input type="text" value="255.255.255.0"/>
Local DHCP Server	<input type="text" value="Enable"/>
DHCP Start Address	<input type="text" value="192.168.11.2"/>
DHCP End Address	<input type="text" value="192.168.11.254"/>
DNS Mode	<input type="text" value="Auto"/>

Field Name	Description
Local DHCP Server	Enable/Disable DHCP server.
DHCP Start Address	Enter a value of the IP address pool for the DHCP server to start with when issuing IP addresses.
DHCP End Address	Enter a value of the IP address pool for the DHCP server to end with when issuing IP addresses.
DNS Mode	If DNS information is received from a network server, set this parameter to Auto. If DNS information is configured manually, set this parameter to Manual.

Table DHCP server, DNS and Client Lease Time

Primary DNS	<input type="text" value="192.168.11.1"/>
Secondary DNS	<input type="text" value="8.8.8.8"/>
Client Lease Time(0-86400s)	<input type="text" value="86400"/>
	<input type="button" value="DHCP Client List"/>

Field Name	Description
Primary DNS	Specify the Primary DNS address provided by your ISP. If your ISP does not provide it, the router will automatically apply default DNS Server IP address: 202.96.134.33 to this field.

Secondary DNS	Specify the Secondary DNS address provided by your ISP. If your ISP does not provide this address, the router will automatically apply default Secondary DNS Server IP of 202.96.128.86 to this field. If both the Primary IP and Secondary IP Address fields are left empty, the router will assign its own IP address to local users as a DNS proxy server and maintain a DNS cache.
Client Lease Time	It allows you to set the lease time for the specified PC.

LTE

The screenshot shows the LTE Setting configuration page. The navigation menu includes Status, Network (selected), Wireless, SIP, FXS1, FXS2, Security, Application, and Administration. The sub-menu includes WAN, LTE (selected), LAN, VPN, Port Forward, DMZ, DDNS, QoS, MAC Clone, Port Setting, Routing, and Advance. Below the menu, there is an 'Eoip Tunnel' button and a 'Help' button.

LTE Setting

Basic Setting

- LTE Modem Enable: Enable
- GSM Call Enable: Disable
- 4G Connection Type: Auto
- APN: CMNET
- Dial Number: *99*1#
- Username: admin
- Password: ****

Internet Setting

- Internet connection: Auto
- Lock status: Cell Unlock
- Targeted Scell ID: (empty)
- Lock Cell: Disable

Binding Set

- Current Status: PIN Disable
- SIM Bind: (empty) [Binding]
- The remaining number of unlock: (empty)

Lock Cell:

Binding machine card:

Auto Lock PIN:

Field Name	Description
Basic Setting	
LTE Modem Enable	Enable the LTE Modem
GSM Call Enable	Enable the GSM Cal
4G Connection Type	Choose the 4G connection method, Auto or Manual
APN	The APN default to CMNET

Dial Number	Enter the dial number
-------------	-----------------------

Username	Enter the username
----------	--------------------

Password	Enter the password
----------	--------------------

Internet Setting

Internet connection	Choose the internet connection in Auto/4G only/3G only/
---------------------	---

Lock status	Check the lock status of the cell
-------------	-----------------------------------

Targeted Sell ID	Here is Targeted Sell ID
------------------	--------------------------

Lock Cell	Enable or Disable lock cell
-----------	-----------------------------

Binding Set

Current Status	Check the status of the current PIN here
----------------	--

SIM Bind	Fill in the phone number and Bind the SIM Card
----------	--

VPN

The router supports VPN connections with PPTP-based VPN servers.

The screenshot shows the 'VPN Settings' page in a router's web interface. The 'Administration' section has 'VPN Enable' set to 'Disable'. A dropdown menu is open, showing the following options: 'Disable' (selected), 'PPTP', 'L2TP', and 'OpenVPN'. At the bottom of the settings area, there are four buttons: 'Save & Apply', 'Save', 'Cancel', and 'Reboot'.

Field Name	Description
VPN Enable	Enable/Disable VPN. If the VPN is enabled, user can select PPTP, L2TP and OpenVPN.
Initial Service IP	Enter VPN server IP address.
User Name	Enter authentication username.
Password	Enter authentication password.

Port Forward

WAN LTE LAN IPv6 Advanced IPv6 WAN IPv6 LAN VPN Port Forward DMZ VLAN DDNS QoS Port Setting
Routing Advance

Port Forwarding				
No.	Comment	IP Address	Port Range	Protocol

Port Forwarding

Comment
 IP Address
 Port Range -
 Protocol

(The maximum rule count is 32)

Virtual Servers					
No.	Comment	IP Address	Public Port	Private Port	Protocol

Virtual Servers

Comment
 IP Address
 Public Port
 Private Port
 Protocol

(The maximum rule count is 32)

Field Name	Description
Comment	Sets the name of a port mapping rule or comment
IP Address	The IP address of devices under the LAN port
Port Range	Set the port range for the devices under the LAN port. (1-65535)
Protocol	You can select TCP, UDP, TCP & UDP three cases
Apply/Cancel	After finishing configurations, click apply, the number will be generated under NO. List; click Cancel if you do not want to make the changes
Comment	To set up a virtual server notes
IP Address	Virtual server IP address
Public Port	Public port of virtual server
Private Port	Private port of virtual server's ports
Protocol	You can select from TCP, UDP, and TCP&UDP
Apply/Cancel	After finishing configurations, click apply, the number will be generated under NO. List; click Cancel if you do not want to make the changes

DMZ

Field Name	Description
DMZ Enable	Enable/Disable DMZ.
DMZ Host IP Address	Enter the private IP address of the DMZ host.

DDNS

Field Name	Description
Dynamic DNS	Enable DDNS and select the DDNS service provider
Account	Fill in the DDNS service account
Password	Fill in the DDNS service account password
DDNS URL	Fill in the DDNS domain name or IP address

Status Check if DDNS is successfully upgraded

QoS

WAN
LTE
LAN
IPv6 Advanced
IPv6 WAN
IPv6 LAN
VPN
Port Forward
DMZ
VLAN
DDNS
QoS
Port Setting

Routing
Advance

QoS setting

QoS setting

Enable QoS Disable ▾

Upstream (0-102400)kbit/s

Downstream (0-102400)kbit/s

Algorithm WFQ ▾

Save
Cancel

	Name	Condition									Action				
		Src.IP Address	Dst.IP Address	Protocol	Src.Port Range	Dst.Port Range	Physical Port	DSCP	802.1p	VLAN ID	Remark DSCP	Remark 802.1p	Remark VLAN_ID	Priority	Drop

Field Name	Description
QoS Enable	Enable/Disable QoS function
Upstream	Set the upstream bandwidth
Downstream	Set the downstream bandwidth
Delete Selected	In NO., Check the items you want to delete, click the Delete option
Add	Click Add to add a new parameter



Note

From system release 4.2 or later, the QoS bandwidth can be configured for Upstream and Downstream

Port Setting

Field Name	Description
WAN Port speed Nego	Auto-negotiation, options are Auto, 100M full, 100M half-duplex, 10M half and full.
LAN1~LAN3 Port Speed Nego	Auto-negotiation, options are Auto, 100M full, 100M half, 10M half and 10M full.

Routing

Field Name	Description
Destination	Destination address
Host/Net	Both Host and Net selection
Gateway	Gateway IP address
Interface	LAN/WAN/Custom three options, and add the corresponding address
Comment	Comment

Advanced

WAN	LAN	IPv6 Advanced	IPv6 WAN	IPv6 LAN	VPN	Port Forward	DMZ	VLAN	QoS	Rate
Advance										

Most Nat connections (512-8192)	4096
MSS Mode	<input checked="" type="radio"/> Manual <input type="radio"/> Auto
MSS Value (1260-1460)	1440
Anti-DoS-P	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
IP Conflict Detection	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
IP Conflict Detecting Interval(0-3600s)	600

Field Name	Description
Most Nat connections	The largest value which the FWR7302E2 can provide
MSS Mode	Choose MSS Mode from Manual and Auto
MSS Value	Set the value of TCP
Anti-DoS-p	You can choose to enable or prohibit
IP conflict detection	Select enable if enabled, phone IP conflict will have tips or prohibit
IP conflict Detecting Interval	Detect IP address conflicts of the time interval

Connection Manager

Status **Network** Wireless 2.4GHz Wireless 5GHz SIP FXS1 FXS2 Security Application Storage
Administration
WAN LTE LAN Port Forward DMZ VLAN DDNS QoS Rate Limit Port Setting Routing Advance
Connection Manager

[Help](#)

Default Route Selection

Default Route Selection

Priority Number 1
 Priority Number 2
 Priority Number 3
 Priority Number 4

WAN Detection Probe

Enable
 Detect Interval (1-1000)sec
 Ping This IP
 Max Ping retries (1-100)
 Restart LTE module
 Restart LTE module Interval (1-1000)sec

Field Name	Description
Priority Number	Set network priority, default is WAN LTE OFF OFF
WAN Detection Probe	
Enable	Enable or Disable WAN Detection Probe
Detect Interval	Set detect interval, default is 10
Ping This IP	Set detect IP
Max Ping retries	Ping times, if ping fail times > Max Ping retries, device will do network failover

Wireless 2.4G

Topics

[Basic](#)

[Wireless Security](#)

[WMM](#)

[WDS](#)

[WPS](#)

[Station Info](#)

[Advanced](#)

Basic

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application	Storage	Admin
Basic	Wireless Security	WMM	WDS	WPS	Station Info	Advanced				

Basic Wireless Settings

Wireless Network

Radio On/Off: ▾

Wireless Connection Mode: ▾

Network Mode: ▾

Multiple SSID: Enable Hidden Isolated Max Client

Multiple SSID1: Enable Hidden Isolated Max Client

Multiple SSID2: Enable Hidden Isolated Max Client

Multiple SSID3: Enable Hidden Isolated Max Client

broadcast (SSID): Enable Disable

AP Isolation: Enable Disable

MBSID AP Isolation: Enable Disable

BSSID: 00:21:F2:0E:67:88

Frequency (Channel): ▾

HT Physical Mode: Mixed Mode Green Field

Operating Mode: 20 20/40 Auto

Channel BandWidth: Long Short

Guard Interval: Disable Enable

Reverse Direction Grant (RDG): Disable Enable

STBC: Disable Enable

Aggregation MSDU (A-MSDU): Disable Enable

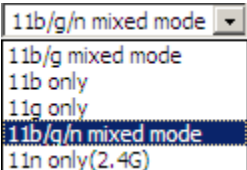
Auto Block ACK: Disable Enable

Decline BA Request: Disable Enable

HT Disallow TKIP: Disable Enable

20/40 Coexistence: Disable Enable

HT LDPC: Disable Enable

Field name	Description
Radio on/off	Select "Radio off" to disable wireless. Select "Radio on" to enable wireless.
Wireless connection mode	According to the wireless client type, select one of these modes. Default is AP.
Network Mode	Choose one network mode from the drop-down list. Default is 11b/g/n mixed mode.
	
SSID	It is the basic identity of wireless LAN. SSID can be any alphanumeric or a combination of special characters. It will appear in the wireless network access list.
Multiple SSID1~SSID3	The device supports 4 SSIDs.

Hidden	After the item is checked, the SSID is no longer displayed in the search for the Wi-Fi wireless network connection list.
Broadcast (SSID)	After initial State opening, the device broadcasts the SSID of the router to wireless network.
AP Isolation	If AP isolation is enabled, the clients of the AP cannot access each other.
MBSSID AP Isolation	AP isolation among the devices which do not belong to this AP, when the option is enabled, the devices which do not belong to this AP cannot access the devices which are within the AP.
BSSID	A group of wireless stations and a WLAN access point (AP) consists of a basic access device (BSS), each computer in the BSS must be configured with the same BSSID, that is, the wireless AP logo.
Frequency (Channel)	You can select Auto Select and channel 1/2/3/4/5/6/7/8/9/10/11.
HT Physical Mode Operating Mode	Mixed Mode: In this mode, the previous wireless card can recognize and connect to the Pre-N AP, but the throughput will be affected. Green Field: high throughput can be achieved, but it will affect backward compatibility, and security of the system.
Channel Bandwidth	Select channel bandwidth, default is 20 MHz and 20/40 MHz.
Guard Interval	The default is automatic, in order to achieve good BER performance, you must set the appropriate guard interval.
Reverse Direction Grant (RDG)	Enabled: Devices on the WLAN are able to transmit to each other without requiring an additional contention-based request to transfer (i.e. devices are able to transmit to another device on the network during TXOP). Disabled: Devices on the WLAN must make a request for transmit when communicating with another device on the network.
STBC	Space-time Block Code

	Enabled: Multiple copies of signals are transmitted to increase the chance of successful delivery.
Aggregation MSDU (A-MSDU)	Enabled: Allows the device to aggregate multiple Ethernet frames into a single 802.11n, thereby improving the ratio of frame data to frame overhead. Disabled: No frame aggregation is employed at the router.
Auto Block Ack	Enabled: Multiple frames are acknowledged together using a single Block Acknowledgement frame. Disabled: Auto block acknowledgement is not used by the device – use this configuration when low throughput/connectivity issues are experienced by mobile devices.
Decline BA Request	Enabled: Disallow block acknowledgement requests from devices Disabled: Allow block acknowledgement requests from devices.
HT Disallow TKIP	Enabled: Disallow the use of Temporal Key Integrity Protocol for connected devices. Disabled: Allow the use of Temporal Key Integrity Protocol for connected devices.
HT LDPC	Enabled: Enable Low-Density Parity Check mechanism for increasing chance of successful delivery in challenging wireless environments. Disabled: Disable Low-Density Parity Check mechanism.

Wireless Security

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
Basic	Wireless Security	WMM	WDS	WPS	Station Info	Advanced		

Wi-Fi Security Settings

Select SSID

SSID choice Wireless_AP0E6788 ▼

"Wireless_AP0E6788"

Security Mode WPA-PSK ▼

WPA

WPA Algorithms TKIP AES TKIPAES

Pass Phrase *****

Key Renewal Interval 3600 sec (0 ~ 86400)

Access Policy

Policy Disable ▼

Add a station MAC (The maximum rule count is 64)

Field Name	Description
SSID Choice	Choose one SSID from SSID, Multiple SSID1, Multiple SSID2 and Multiple SSID3.
Security Mode	Select an appropriate encryption mode to improve the security and privacy of your wireless data packets. Each encryption mode will bring out different web page and ask you to offer additional configuration.

User can configure the corresponding parameters. Here are some common encryption methods:

OPENWEP: A handshake way of WEP encryption, encryption via the WEP key:

The screenshot shows the 'Wi-Fi Security Settings' page with the following configuration:

- Select SSID:** SSID choice is 'Wireless_AP0E6788'.
- Security Mode:** Set to 'OPENWEP'.
- Wire Equivalence Protection (WEP):**
 - Default Key: 'WEP Key 1'.
 - WEP Keys: Four keys (WEP Key 1 to WEP Key 4) are listed. Each key has a text input field containing '*****', a 'Hex' dropdown menu, and a '64bit' dropdown menu.
- Access Policy:** Policy is set to 'Disable'.
- Add a station MAC:** An empty text input field with a note '(The maximum rule count is 64)'.

Field Name	Description
Security Mode	This is used to select one of the 4 WEP keys, key settings on the clients should be the same with this when connecting.
WEP Keys	Set the WEP key. A-64 key need 10 Hex characters or 5 ASCII characters; choose A-128 key need 26 Hex characters or 13 ASCII characters.

WEP represents Wired Equivalent Privacy, which is a basic encryption method.

WPA-PSK, the router will use WPA way which is shared key-based.

Wi-Fi Security Settings

Select SSID

SSID choice Wireless_AP0E6788 ▼
 "Wireless_AP0E6788"

Security Mode WPA-PSK ▼

WPA

WPA Algorithms TKIP AES TKIPAES

Pass Phrase *****

Key Renewal Interval 3600 sec (0 ~ 86400)

Access Policy

Policy Disable ▼

Field Name	Description
WPA Algorithms	This item is used to select the encryption of wireless home gateway algorithms, options are TKIP, AES and TKIPAES.
Pass Phrase	Setting up WPA-PSK security password.

WPAPSKWPA2PSK manner is consistent with WPA2PSK settings:

Wi-Fi Security Settings

Select SSID

SSID choice Wireless_AP0E6788 ▼
 "Wireless_AP0E6788"

Security Mode WPAPSKWPA2PSK ▼

WPA

WPA Algorithms TKIP AES TKIPAES

Pass Phrase *****

Key Renewal Interval 3600 sec (0 ~ 86400)

Field Name	Description
WPA Algorithms	The home gateway is used to select the wireless security encryption algorithm options are TKIP, AES, TKIP / AES. 11N mode does not support
Pass Phrase	Set WPA-PSK/WPA2-PSK security code
Key Renewal Interval	Set the key scheduled update cycle, default is 3600s

WPA-PSK/WPA2-PSK WPA/WPA2 security type is actually a simplified version, which is based on the WPA shared key mode, higher security setting is also relatively simple, suitable for ordinary home users and small businesses.

Wireless Access Policy:

Access Policy

Policy: Disable ▾
Disable
Allow
Reject

Add a station MAC: (The maximum rule count is 64)

Field Name	Description
Access policy	Wireless access control is used to allow or prohibit the specified client to access to your wireless network based on the MAC address.
Policy	Disable: Prohibition: wireless access control policy. Allow: only allow the clients in the list to access. Rejected: block the clients in the list to access.
Add a station MAC	Enter the MAC address of the clients which you want to allow or prohibit

Example: Prohibit the device whose wireless network card MAC address is 00:1F: D0: 62: BA:FF's to access the wireless network, and allow other computers to access the network. Implementation: As shown, the Policy is Reject, add 00:1F: D0: 62: BA: FF to the MAC, click Save and reboot the device settings to take effect.

WMM

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
Basic	Wireless Security	WMM	WDS	WPS	Station Info	Advanced		

WMM Parameters of Access Point						
	AIFSN	CWMin	CWMax	TXOP	ACM	AckPolicy
AC_BE	3	15 ▼	63 ▼	0	<input type="checkbox"/>	<input type="checkbox"/>
AC_BK	7	15 ▼	1023 ▼	0	<input type="checkbox"/>	<input type="checkbox"/>
AC_VI	1	7 ▼	15 ▼	94	<input type="checkbox"/>	<input type="checkbox"/>
AC_VO	1	3 ▼	7 ▼	47	<input type="checkbox"/>	<input type="checkbox"/>

Save & Apply Apply Cancel

Description

WMM (Wi-Fi Multi-Media) is the QoS certificate of Wi-Fi Alliance (WFA). This provides you to configure the parameters of wireless multimedia; WMM allows wireless communication to define a priority according to the home gateway type. To make WMM effective, the wireless clients must also support WMM.

WDS

The screenshot shows a web configuration interface for WDS. At the top, there is a navigation bar with tabs: Status, Network, **Wireless 2.4GHz**, Wireless 5GHz, SIP, FXS1, FXS2, Security, and Application. Below this is a sub-navigation bar with tabs: Basic, Wireless Security, WMM, **WDS**, WPS, Station Info, and Advanced. The main content area is titled "WDS Setting" and contains a "WDS Config" section. In this section, the "WDS Mode" dropdown menu is open, showing options: Disable (selected), Lazy Mode, Bridge Mode, and Repeater Mode. Below the dropdown are buttons for "Save & Apply" and "Save".

Description

WDS stands for Wireless Distribution System, enabling WDS access points to be interconnected to expand a wireless network.

WPS

WPS (Wi-Fi Protected Setup) provides easy procedure to make network connection between wireless station and wireless access point with the encryption of WPA and WPA2.

It is the simplest way to build connection between wireless network clients and wireless access point. Users do not need to select any encryption mode and type any long encryption passphrase to setup a wireless client every time. The only requirement is for the user to press the WPS button on the wireless client, and WPS will connect for client and router automatically.

Field Name	Description
------------	-------------

WPS Config

WPS	Enable/Disable WPS function
-----	-----------------------------

WPS Summary

WPS Current Status	Display the current status of WPS
WPS Configured	Display the configure the status information of WPS
WPS SSID	Display WPS SSID

WPS Progress

WPS Mode	<p>PIN: Enter the PIN code of the wireless device which accesses to this LAN in the following option, and press apply. Then router begins to send signals, turn on the PIN accessing method on the clients, and then it can access the wireless AP automatically.</p> <p>PBC: There are two ways to start PBC mode, user can press the PBC button directly on the device, or select PBC mode on the software and apply. Users can activate WPS connection in WPS mode through these two methods, only when the clients choose PBC access, the clients can connect the AP automatically.</p>
----------	---

WPS Status WPS shows status in three ways:
 WSC: Idle
 WSC: Start WSC process (begin to send messages)
 WSC: Success; this means clients have accessed the AP successfully

Station Info

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
Basic	Wireless Security	WMM	WDS	WPS	Station Info	Advanced		

Wireless Status

Wireless Status

Current Channel	Channel 1
FWR9502-0000C8	00:21:F2:00:00:10

Wireless Network

Wireless Network

MAC Address	Aid	PSM	MIMO PS	TX Rate	TxBF	RSSI	Stream SNR	Snd Rsp SNR	Last RX Rate	Connect Time
-------------	-----	-----	---------	---------	------	------	------------	-------------	--------------	--------------

Description

This page displays information about the current registered clients' connections including operating MAC address and operating statistics.

Advanced

- Basic
- Wireless Security
- WMM
- WDS
- WPS
- Station Info
- Advanced

Advanced Wireless

Advanced Wireless

BG Protection Mode	Auto ▼
Beacon Interval	100 ms (range 20 - 999, default 100)
Data Beacon Rate (DTIM)	3 (range 1 - 255, default 3)
Fragment Threshold	2346 (range 256 - 2346, default 2346)
RTS Threshold	2347 (range 1 - 2347, default 2347)
TX Power	100 % (range 1 - 100, default 100)
Short Preamble	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Short Slot	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
TX Burst	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Pkt_Aggregate	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Country Code	NONE ▼
Support Channel	Ch1~14 ▼
Tx Beamforming	Disable ▼
Wi-Fi Multimedia	
WMM Capable	
Multiple SSID	<input checked="" type="checkbox"/>
Multiple SSID1	<input type="checkbox"/>
Multiple SSID2	<input type="checkbox"/>
Multiple SSID3	<input type="checkbox"/>
APSD Capable	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Multicast-to-Unicast Converter	
Multicast-to-Unicast	<input type="radio"/> Enable <input checked="" type="radio"/> Disable

Field Name	Description
BG Protection	Select G protection mode, options are on, off and automatic.
Beacon Interval	The interval of sending a wireless beacon frame, within this range, it will send a beacon frame for the information of the surrounding radio network.
Data Beacon Rate (DTIM)	Specify the interval of transmitting the indication message, it is a kind of cut down operation, and it is used for informing the next client which is going to receive broadcast multi-cast.
Fragment Threshold	Specify the fragment threshold for the packet, when the length of the packet exceeds this value, the packet is divided.

RTS Threshold	Specify the packet RTS threshold, when the packet exceeds this value, the router will send RTS to the destination site consultation
TX Power	Define the transmission power of the current AP, the greater it is, the stronger the signal is.
Short Preamble	Choose enable or disable
Short Slot	Enable/Disable short slot. By default, it is enabled, it is helpful in improving the transmission rate of wireless communication
Tx Burst	One of the features of MAC layer, it is used to improve the fairness for transmitting TCP
Pkt_Aggregate	It is a mechanism that is used to enhance the LAN, in order to ensure that the home gateway packets are sent to the destination correctly
Support Channel	Choose appropriate channel
Wi-Fi Multimedia (WMM)	
WMM Capable	Enable/Disable WMM.
APSD Capable	Enable/Disable APSD. Once it is enabled, it may affect wireless performance, but can play a role in energy-saving power
WMM Parameters	Press WMM Configuration , the webpage will jump to the configuration page of Wi-Fi multimedia
Multicast-to-Unicast Converter	Enable/Disable Multicast-to-Unicast. By default, it is Disabled

Wireless 5G

Please refer to the [wireless 2.4G](#).

SIP

Topics

[SIP Settings](#)

[VoIP QoS](#)

[Dial Plan](#)

[Blacklist](#)

[Call Log](#)

SIP Settings

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
SIP Settings		VoIP QoS	Dial Rule	Blacklist	Call Log			

SIP Parameters

SIP Parameters

SIP T1	<input type="text" value="500"/> ms	Max Forward	<input type="text" value="70"/>
SIP User Agent Name	<input type="text"/>	Max Auth	<input type="text" value="2"/>
Reg Retry Intvl	<input type="text" value="30"/> sec	Reg Retry Long Intvl	<input type="text" value="60"/> sec
Mark All AVT Packets	<input type="button" value="Enable"/> ▾	RFC 2543 Call Hold	<input type="button" value="Enable"/> ▾
SRTP	<input type="button" value="Disable"/> ▾	SRTP Prefer Encryption	<input type="button" value="AES_CM"/> ▾
Service Type	<input type="button" value="Common"/> ▾	DNS Refresh Timer	<input type="text" value="0"/> sec

Response Status Code Handling

Retry Reg RSC	<input type="text"/>
---------------	----------------------

NAT Traversal

NAT Traversal

NAT Traversal	<input type="button" value="Disable"/> ▾	STUN Server Address	<input type="text"/>
NAT Refresh Interval (sec)	<input type="text" value="60"/>	STUN Server Port	<input type="text"/>

Field Name	Description
SIP T1	The minimum scale of retransmission time
Max Forward	SIP contains Max Forward message header fields used to limit the requests for forwards
SIP Reg User Agent Name	The agent's name of SIP registered user
Max Auth	The maximum number of retransmissions

Mark All AVT Packets	Voice packet marking to enable this item will see the mark on the voice message when the call environment changed (such as press a key during the call)
RFC 2543 Call Hold	Enable the Connection Information field displays the address is 0.0.0.0 in the invite message of Hold. Disable the Connection Information field displays the device IP address in the invite message of Hold
SRTP	Whether to enable the call packet encryption function
SRTP Prefer Encryption	The preferred encryption type of calling packet (the Message body of INVITE Message)
Service Type	Choose the server type
NAT Traversal	Enable/Disable NAT Traversal FWR7302E2 supports STUN Traversal; if user wants to traverse NAT/Firewall, select the STUN
STUN Server Address	Add the correct STUN service provider IP address
NAT Refresh Interval	Set NAT Refresh Interval, default is 60s
STUN Server Port	Set STUN Server Port, default is 5060

VoIP QoS

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
SIP Settings		VoIP QoS	Dial Rule	Blacklist	Call Log			
QoS Settings								
Layer 3 QoS								
SIP QoS(0-63)		<input type="text" value="46"/>						
RTP QoS(0-63)		<input type="text" value="46"/>						
<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Reboot"/>								

Field Name	Description
SIP /RTP QoS	The default value is 0, you can set a range of values is 0~63

Dial Plan

Parameters and Settings

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
SIP Settings		VoIP QoS	Dial Rule	Blacklist	Call Log			

Dial Rule

General

Dial Rule:
 Unmatched Policy:

No.	FXS	Digit Map	Action	Move Up	Move Down	
1	FXS 1	vb	Deny	▲	▼	<input type="checkbox"/>
2	FXS 1	rgg	Deny	▲	▼	<input type="checkbox"/>

FXS:
 Digit Map:
 Action:

Field Name	Description
Dial Plan	Enable/Disable dial plan
Line	Set the line
Digit Map	Enter the sequence used to match input number The syntactic, please refer to the following Dial Plan Syntactic
Action	Choose the dial plan mode from Deny and Dial Out. Deny means router will reject the matched number, while Dial Out means router will dial out the matched number
Move Up	Move the dial plan up the list
Move Down	Move the dial plan down the list

Adding one Dial Plan

Dial Plan

General

Dial Plan ▾
Unmatched Policy ▾

No.	FXS	Digit Map	Action	Move Up	Move Down	
-----	-----	-----------	--------	---------	-----------	--

FXS ▾
Digit Map
Action ▾

Description

Step 1. Enable Dial Plan

Step 2. Click Add button, and the configuration table

Step 3. Fill in the value of parameters

Step 4. Press OK button to end configuration

Dial Plan Syntactic

No.	String	Description
1	0 1 2 3 4 5 6 7 8 9 * #	Allowed characters
2	x	Lowercase letter "x" stands for one legal character
	[sequence]	To match one character form sequence. For example: [0-9]: match one digit from 0 to 9 [2-5*]: match one character from 2 or 3 or 4 or 5 or *
3		
4	x.	Match to x, xx, xxx, xxxx and so on. For example: "01" can be match to "0","01","011"... "011111..." and so on
5	<dialed:substituted>	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,y	"9,1xxxxxxxx": the device reports dial tone after inputting "9", stops tone until inputting "1" "9,8,010x": make outside dial tone after inputting "9", stop tone until inputting "0" Set the delayed time. For example:
7	T	"<9:111>T2": The device will dial out the matched number "111" after 2 seconds.

Blacklist

In this page, user can upload or download blacklist file, and can add or delete or edit blacklist one by one.

Blacklist Upload & Download

Blacklist Upload & Download

Local File No file chosen

Blacklist			
Index	Name	Number	<input type="checkbox"/>
1	Rob	12345	<input type="checkbox"/>
2	Henry	123456	<input type="checkbox"/>

Description

Click to select the blacklist file and to upload it to device; Click to save the blacklist file to your local computer.

Select one contact and click edit to change the information, click **Delete** to delete the contact, click **Move** to move the contact to phonebook.

Click **Add** to add one blacklist, enter the name and phone number, click **OK** to confirm and click cancel to cancel.

Call Log

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

Redial List				
Index	NUMBER	Start Time	Duration	<input type="checkbox"/>
1	123	10/28 10:30	00:00:07	<input type="checkbox"/>
2	010123	10/28 12:02	00:00:01	<input type="checkbox"/>
3	010123	10/28 16:16	00:00:00	<input type="checkbox"/>
4	010123	10/28 16:16	00:00:00	<input type="checkbox"/>
5	123	10/28 16:20	00:00:13	<input type="checkbox"/>
6	123	10/28 16:21	00:00:34	<input type="checkbox"/>
7	123	10/29 10:50	00:00:10	<input type="checkbox"/>
8	123	10/29 14:36	00:00:01	<input type="checkbox"/>
9	123	10/29 15:05	00:00:23	<input type="checkbox"/>
10	123	10/29 15:06	00:00:05	<input type="checkbox"/>
..	<input type="checkbox"/>

Redial List

Answered Calls				
Index	NUMBER	Start Time	Duration	<input type="checkbox"/>
1	22222	10/21 09:56	00:00:40	<input type="checkbox"/>
2	110	10/21 18:14	00:00:03	<input type="checkbox"/>
3	110	10/21 18:15	00:00:07	<input type="checkbox"/>
4	sipp	10/23 13:40	00:00:06	<input type="checkbox"/>
5	sipp	10/24 18:05	00:00:05	<input type="checkbox"/>
6	sipp	10/24 18:05	00:00:05	<input type="checkbox"/>
7	sipp	10/25 15:38	00:00:03	<input type="checkbox"/>
8	sipp	10/25 15:42	00:00:06	<input type="checkbox"/>
9	sipp	10/25 15:55	00:00:10	<input type="checkbox"/>
10	sipp	10/25 16:03	00:00:02	<input type="checkbox"/>
..	<input type="checkbox"/>

Answered Calls

Missed Calls				
Index	NUMBER	Start Time	Duration	<input type="checkbox"/>
1	110	10/21 09:50	00:00:03	<input type="checkbox"/>
2	555	10/22 12:04	00:00:03	<input type="checkbox"/>

Missed Calls

FXS1

Topics

[SIP Account](#)

[Preferences](#)

SIP Account

Basic

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

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
SIP Account		Preferences						
Basic								
Basic Setup								
Line Enable	<input type="button" value="Enable"/>			Outgoing Call without Registration	<input type="button" value="Disable"/>			
Proxy and Registration								
Proxy Server	<input type="text"/>			Proxy Port	<input type="text" value="5060"/>			
Outbound Server	<input type="text"/>			Outbound Port	<input type="text" value="5060"/>			
Backup Outbound Server	<input type="text"/>			Backup Outbound Port	<input type="text" value="5060"/>			
Allow DHCP Option 120 to Override SIP Server	<input type="button" value="Disable"/>							
Subscriber Information								
Display Name	<input type="text"/>			Phone Number	<input type="text"/>			
Account	<input type="text"/>			Password	<input type="text"/>			

Field Name	Description
Line Enable	Enable/Disable the line.
Peer To Peer	Enable/Disable PEER to PEER. If enabled, SIP-1 will not send register request to SIP server; but in Status/SIP Account Status webpage, Status is Registered; lines 1 can dial out, but the external line number cannot dial 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	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

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 ▼	G.723 Coding Speed	5.3k bps ▼
Packet Cycle(ms)	20ms ▼	Silence Supp	Disable ▼
Echo Cancel	Enable ▼	Auto Gain Control	Disable ▼

FAX Configuration

FAX Mode	T.38 ▼	ByPass Attribute Value	fax ▼
T.38 CNG Detect Enable	Disable ▼	T.38 CED Detect Enable	Enable ▼
gpmid attribute Enable	Disable ▼	T.38 Redundancy	Disable ▼

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/Disable T.38 CNG Detect
gpmid attribute Enable	Enable/Disable gpmid attribute.

Supplementary Service Subscription

Supplementary Service Subscription

Supplementary Services

Call Waiting	<input type="button" value="Enable"/> ▾	Hot Line	<input type="text"/>
MWI Enable	<input type="button" value="Enable"/> ▾	Voice Mailbox Numbers	<input type="text"/>
MWI Subscribe Enable	<input type="button" value="Disable"/> ▾	VMWI Serv	<input type="button" value="Enable"/> ▾
DND	<input type="button" value="Disable"/> ▾		

Speed Dial

Speed Dial 2	<input type="text"/>	Speed Dial 3	<input type="text"/>
Speed Dial 4	<input type="text"/>	Speed Dial 5	<input type="text"/>
Speed Dial 6	<input type="text"/>	Speed Dial 7	<input type="text"/>
Speed Dial 8	<input type="text"/>	Speed Dial 9	<input type="text"/>

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
VMWI Serv	Enable/Disable VMWI service
DND	Enable/Disable DND (do not disturb)
Speed Dial	Enter the speed dial phone numbers. Dial *74 to active speed dial function. Then press the speed dial numbers, for example, press 2, phone dials 075526099365 directly

Advanced

Advanced

Advanced Setup

Domain Name Type	<input type="text" value="Enable"/>	Carry Port Information	<input type="text" value="Disable"/>
Signal Port	<input type="text" value="5060"/>	DTMF Type	<input type="text" value="RFC2833"/>
RFC2833 Payload(>=96)	<input type="text" value="101"/>	Register Refresh Interval(sec)	<input type="text" value="3600"/>
RTP Port	<input type="text" value="0"/> (=0 auto select)	Cancel Message Enable	<input type="text" value="Disable"/>
Session Refresh Time(sec)	<input type="text" value="0"/>	Refresher	<input type="text" value="UAC"/>
Prack Enable	<input type="text" value="Disable"/>	SIP OPTIONS Enable	<input type="text" value="Disable"/>
Primary SER Detect Interval	<input type="text" value="0"/>	Max Detect Fail Count	<input type="text" value="3"/>
Keep-alive Interval(10-60s)	<input type="text" value="15"/>	Anonymous Call	<input type="text" value="Disable"/>
Anonymous Call Block	<input type="text" value="Disable"/>	Proxy DNS Type	<input type="text" value="A Type"/>
Use OB Proxy In Dialog	<input type="text" value="Disable"/>	Reg Subscribe Enable	<input type="text" value="Disable"/>
Dial Prefix	<input type="text"/>	User Type	<input type="text" value="IP"/>
Hold Method	<input type="text" value="ReINVITE"/>	Request-URI User Check	<input type="text" value="Disable"/>
Only Recv Request From Server	<input type="text" value="Enable"/>	Server Address	<input type="text"/>
SIP Received Detection	<input type="text" value="Disable"/>	VPN	<input type="text" value="Disable"/>
Country Code	<input type="text"/>	Remove Country Code	<input type="text" value="Disable"/>
Caller ID Header	<input type="text" value="FROM"/>		

Field Name	Description
Domain Name Type	If or not use domain name in the SIP URI.
Carry Port Information	If or not carry port information in the SIP URI.
Signal Port	The local port of SIP protocol, default is 5060.
DTMF Type	Choose the DTMF type from Inbound, RFC2833 and SIP INFO.
RFC2833Payload (>=96)	User can use the default setting.
Register Refresh Interval	The interval between two normal Register messages. You can use the default setting.
RTP Port	Set the port to send RTP. The device will select one idle port for RTP if you set "0"; otherwise use the value which user sets.
Cancel Message Enable	When you set enable, an unregistered message will be sent before registration, while you set disable, unregistered message will not be sent before registration. You should set the option for different Proxy.
Session Refresh	Time interval between two sessions, you can use the default settings.
Refresher	Choose refresher from UAC and UAS.
Prack Enable	Enable/Disable prack.

SIP OPTIONS Enable	When you set enable, the device will send SIP-OPTION to the server, instead of sending periodic Hello message. The sending interval is Keep-alive interval.
Primary SER Detect Interval	Test interval of the primary server, the default value is 0, it represents disable.
Max Detect Fail Count	Interval of detection of the primary server fail; the default value is 3, it means that if detect 3 times fail; the device will no longer detect the primary server.
Keep-alive Interval(10-	The interval that the device will send an empty packet to proxy.
Anonymous Call	Enable/Disable anonymous call.
Anonymous Call Block	Enable/Disable anonymous call block.
Proxy DNS Type	Set the DNS server type, choose from A type and DNS SRV.
Use OB Proxy In Dialog	If or not use OB Proxy In Dialog.
Reg Subscribe Enable	If enable, subscribing will be sent after registration message, if not enable, do not send subscription.
Dial Prefix	The number will be added before your telephone number when making calls.
User Type	Choose the User Type from IP and Phone.
Hold Method	Choose the Hold Method from ReINVITE and INFO.
Request-URI User Check	Enable/Disable the user request URI check.
Only Recv request from server	Enable/Disable the only receive request from server.
Server Address	The IP address of SIP server.
SIP Received Detection	Enable/Disable SIP Received Detection, if enable, use it to confirm the public network address of the device.

Preferences

Volume Settings

Preferences

Volume Settings

Handset Input Gain

5 ▼

Handset Volume

5 ▼

Field Name	Description
Handset Input	Adjust the handset input gain from 0 to 7
Handset Volume	Adjust the output gain from 0 to 7

Regional

Regional

Tone Type

China ▼

Dial Tone

Busy Tone

Off Hook Warning Tone

Ring Back Tone

Call Waiting Tone

Min Jitter Delay(0-600ms)

20

Max Jitter Delay(20-1000ms)

160

Ringing Time(10-300sec)

60

Ring Waveform

Sinusoid ▼

Ring Voltage(40-63 Vrms)

45

Ring Frequency(15-30Hz)

25

VMWI Ring Splash Len(0.1-10sec)

0.5

Flash Time Max(0.2-1sec)

0.9

Flash Time Min(0.1-0.5sec)

0.1

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	Off Hook warning tone
Ring Back Tone	Ring back tone
Call Waiting Tone	Call waiting tone
Min Jitter Delay	The Min value of home gateway's jitter delay, home gateway is an adaptive jitter mechanism.
Max Jitter Delay	The Max value of home gateway's jitter delay, home gateway is an adaptive jitter mechanism.

Ring Time	How long the device will ring when there is an incoming call.
Ring Waveform	Select regional ring waveform, options are Sinusoid and Trapezoid, the default is 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 device's flash time, the default value is 0.9
Flash Time Min(sec)	Set the Min value of the device's flash time, the default value is 0.1

Features and Call Forward

Features

All Forward

Disable ▾

Busy Forward

Disable ▾

No Answer Forward

Disable ▾

Call Forward

All Forward

Busy Forward

No Answer Forward

No Answer Timeout

20

Feature Code

Hold Key Code

*77

Conference Key Code

*88

Transfer Key Code

*98

IVR Key Code

R Key Enable

Disable ▾

R Key Cancel Code

R1 ▾

R Key Hold Code

R2 ▾

R Key Transfer Code

R4 ▾

R Key Conference Code

R3 ▾

Speed Dial Code

*74

Field Name	Description	
Features	All Forward	Enable/Disable forward all calls
	Busy Forward	Enable/Disable busy forward.
	No Answer Forward	Enable/Disable no answer forward.
Call Forward	All Forward	Set the target phone number for all forward. The device will forward all calls to the phone number immediately when there is an incoming call.
	Busy Forward	The phone number which the calls will be forwarded to when line is busy.
	No Answer Forward	The phone number which the call will be forwarded to when there's no answer.
	No Answer 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.
	Conference key	Signature of the tripartite session, default is *88.

Transfer key code	Call forwarding signatures, default is *98.
IVR key code	Signatures of the voice menu, default is ****.
R key enable	Enable/Disable R key way call features.
R key cancel code	Set the R key cancel code, option is 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.
Speed Dial Code	Speed dial code, default is *74.

Miscellaneous

Miscellaneous

Codec Loop Current	<input type="text" value="26"/>	Impedance Maching	<input type="text" value="US PBX,Korea,Taiwan(600)"/>
CID Service	<input type="text" value="Enable"/>	CWCID Service	<input type="text" value="Disable"/>
Caller ID Method	<input type="text" value="Bellcore"/>	Polarity Reversal	<input type="text" value="Disable"/>
Dial Time Out(IDT)	<input type="text" value="5"/>	Call Immediately Key	<input type="text" value="#"/>
ICMP Ping	<input type="text" value="Disable"/>	Escaped char enable	<input type="text" value="Disable"/>
Bellcore Style 3-Way Conference	<input type="text" value="Disable"/>		

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 caller ID; If enable, caller ID is displayed when there is an incoming call or it won't be displayed. Default is enable.
CWCID Service	Enable/Disable CWCID. If enable, the device will display the waiting call's caller ID, or it won't display. Default is disable.
Dial Time Out	How long device will sound dial out tone when device dials a number.
Call Immediately Key	Choose call immediately key form * or #.
ICMP Ping	Enable/Disable ICMP Ping. If enable this option, home gateway will ping the SIP Server every interval time, otherwise, it will send "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 #.

FXS2

The settings of FXS2 are the same as FXS1. See FXS1 on page 67.

Security

Topics

[Filtering Setting](#)

[Content Filtering](#)

Filtering Setting

Basic Settings	
Basic Settings	
Filtering	Disable ▾
Default Policy	Drop ▾
The packet that don't match with any rules would be Drop	
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	
IP/Port Filter Settings	
Interface	LAN ▾
Mac address	<input type="text"/>
Dest IP Address	<input type="text"/>
Source IP Address	<input type="text"/>
Protocol	NONE ▾
Dest. Port Range	<input type="text"/> - <input type="text"/>
Src Port Range	<input type="text"/> - <input type="text"/>
Action	Accept ▾
Comment	<input type="text"/>
(The maximum rule count is 32)	
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

Field Name	Description
Filtering	Enable/Disable filter function
Default Policy	Choose to drop or accept filtered MAC addresses
Mac address	Add the Mac address filtering
Dest IP address	Destination IP address
Source IP address	Source IP address
Protocol	Select a protocol name, support for TCP, UDP and TCP/UDP
Dest. Port Range	Destination port ranges
Src Port Range	Source port range

Action	You can choose to receive or give up; this should be consistent with the default policy
Comment	Add callout
Delete	Delete selected item

Content Filtering

Filtering Setting Content Filtering

Basic Settings

Basic Settings

Filtering Disable ▾
Default Policy Accept ▾

Filter List Upload & Download

Local File 未选择任何文件

Web URL Filter Settings

Current Web URL Filters

No.	URL

Add a URL Filter

URL

(The maximum rule count is 16)

Web Host Filter Settings

Current Website Host Filters

No.	Keyword

Add a Host (keyword) Filter

Keyword

(The maximum rule count is 16)

Field Name	Description
Filtering	Enable/Disable content Filtering
Default Policy	The default policy is to accept or prohibit filtering rules
Current Webs URL	List the URL filtering rules that already existed (blacklist)
Delete/Cancel	You can choose to delete or cancel the existing filter rules
Add a URL Filter	Add URL filtering rules
Add/Cancel	Click adds to add one rule or click cancel
Current Website Host Filters	List the keywords that already exist (blacklist)
Delete/Cancel	You can choose to delete or cancel the existing filter rules
Add a Host Filter	Add keywords
Add/Cancel	Click the Add or cancel

Application

Topics

[Advance NAT](#)

[UPnP](#)

[IGMP](#)

Advance NAT

Advance Nat		UPnP	IGMP
ALG			
ALG Setting			
FTP	Enable	▼	
SIP	Disable	▼	
H323	Disable	▼	
PPTP	Disable	▼	
L2TP	Disable	▼	
IPSec	Disable	▼	
<input type="button" value="Save & Apply"/> <input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Reboot"/>			
Description			
Enable/Disable these functions (FTP/SIP/H323/PPTP/L2TP/IPSec).			

UPnP

UPnP (Universal Plug and Play) supports zero-configuration networking, and can automatically discover a variety of networked devices. When UPnP is enabled, the connected device is allowed to access the network, obtain an IP address, and convey performance information. If the network has a DHCP and DNS server, the connected device can automatically obtain DHCP and DNS services.

UPnP devices can be automatically added to the network without affecting previously-connected devices.

UPnP	
UPnP Setting	
Enable UPnP	<input type="button" value="Enable"/> <input type="button" value="Disable"/> <input type="button" value="Enable"/>
<input type="button" value="Save & Apply"/> <input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Reboot"/>	

Field Name	Description
UPnP enable	Enable/Disable UPnP function.

IGMP

Multicast has the ability to send the same data to multiple devices. IP hosts use IGMP (Internet Group Management Protocol) report multicast group memberships to the neighboring routers to transmit data, at the same time, the multicast router use IGMP to discover which hosts belong to the same multicast group.

Status	Network	Wireless	SIP	FXS1	FXS2	Security	Application	Administration
<div style="display: flex; justify-content: space-between;"> Advance Nat UPnP IGMP </div>								
IGMP								
IGMP Setting <div style="border: 1px solid #ccc; padding: 10px; margin-top: 5px;"> <p>IGMP Proxy enable Enable ▾</p> <p>IGMP Snooping enable Enable ▾</p> </div> <div style="text-align: right; margin-top: 10px;"> Save & Apply Save Cancel Reboot </div>								

Field Name	Description
IGMP Proxy enable	Enable/Disable IGMP Proxy function.
IGMP Snooping enable	Enable/Disable IGMP Snooping function.

Storage

Topics

[Disk Management](#)

[FTP Setting](#)

Disk Management

This page is used to manage the USB storage device.

The screenshot shows the Disk Management interface. At the top, there is a navigation bar with tabs for various settings: Status, Network, Wireless 2.4GHz, Wireless 5GHz, SIP, FXS1, FXS2, Security, Application, and Storage. The Storage tab is selected, and within it, the Disk Management sub-tab is active. Below the navigation bar, there is a header for 'Disk Management' and a 'Help' button. The main content area is divided into two sections: 'Folder List' and 'Partition Status'. The 'Folder List' section contains a table with columns for 'Directory Path' and 'Partition', and buttons for 'Add', 'Delete', and 'Remove Disk'. The 'Partition Status' section contains a table with columns for 'Partition' and 'Path', and buttons for 'Format' and 'Reallocate'.

Field Name	Description
Add	Add files to the USB storage device
Delete	Remove the USB storage device file
Remove Disk	Transfer files within a USB storage device
Format	Format the USB storage device
Re-allocate	Reset the USB storage device

FTP Setting

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application	Storage
Disk Management		FTP Setting		SMB Setting					
FTP Setting									Help
FTP Server Setup									
FTP Server			<input type="radio"/> Enable <input checked="" type="radio"/> Disable						
FTP Server Name	<input type="text" value="FTP"/>								
Anonymous Login			<input type="radio"/> Enable <input checked="" type="radio"/> Disable						
FTP Port	<input type="text" value="21"/>								
Max. Sessions	<input type="text" value="10"/>								
Create Directory			<input checked="" type="radio"/> Enable <input type="radio"/> Disable						
Rename File/Directory			<input checked="" type="radio"/> Enable <input type="radio"/> Disable						
Remove File/Directory			<input checked="" type="radio"/> Enable <input type="radio"/> Disable						
Read File			<input checked="" type="radio"/> Enable <input type="radio"/> Disable						
Write File			<input checked="" type="radio"/> Enable <input type="radio"/> Disable						
Download Capability			<input checked="" type="radio"/> Enable <input type="radio"/> Disable						
Upload Capability			<input checked="" type="radio"/> Enable <input type="radio"/> Disable						

Field Name	Description
FTP Server	Enable/Disable FTP server
FTP Server Name	Set the FTP server name
Anonymous Login	If or not support anonymous login
FTP Port	Set FTP server port number
Max. Sessions	Maximum number of connections
Create Directory	Enable/Disable create directory
Rename File/Directory	Enable/Disable rename file/directory
Remove File/Directory	Enable/Disable transfer of files/directories
Read File	Enable/Disable read files
Write File	Enable/Disable write files
Download Capability	Enable/Disable download capability function.
Upload Capability	Enable/Disable upload capability function

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.

Topics

[Management](#)

[Firmware Upgrade](#)

[Schedule Tasks](#)

[Provision](#)

[SNMP](#)

[TR-069](#)

[Diagnosis](#)

[Operating Mode](#)

[System Log](#)

[Logout](#)

[Reboot](#)

Management

Save config file

Save Config File	
<div style="border: 1px solid gray; padding: 5px;"> <p>Config File Upload && Download</p> <p>Local File <input type="button" value="选择文件"/> 未选择任何文件</p> <p><input type="button" value="Upload"/> <input type="button" value="Download"/></p> </div>	
Field Name	Description
Config file upload and download	<p>Upload: click on browse, select file in the local, press the upload button to begin uploading files</p> <hr/> <p>Download: click to download, and then select contains the path to download the configuration file</p>

Administrator settings

Administrator Settings

Password Reset

User Type	<input type="text" value="Admin User"/>
New User Name	<input type="text" value="admin"/>
New Password	<input type="text"/> (The maximum length is 25)
Confirm Password	<input type="text"/>

Language

Language	<input type="text" value="English"/>
----------	--------------------------------------

VPN Access

Management Using VPN	<input type="text" value="Disable"/>
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Web Access

Remote Web Login	<input type="text" value="Enable"/>
Local Web Port	<input type="text" value="80"/>
Web Port	<input type="text" value="80"/>
Web Idle Timeout (0 - 60min)	<input type="text" value="5"/>
Allowed Remote IP (IP1;IP2;...)	<input type="text" value="0.0.0.0"/>

Telnet Access

Remote Telnet	<input type="text" value="Disable"/>
Telnet Port	<input type="text" value="23"/>
Allowed Remote IP (IP1;IP2;...)	<input type="text" value="0.0.0.0"/>
HostName	<input type="text" value="FWR7302"/>

Field Name	Description
User type	Choose the user type from admin user, normal user and basic user
New User Name	You can modify the user's 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 IP (IP1,	Set the IP from which a user can login the device remotely.
Telnet Port	Set the port value which is used to telnet to the device.

NTP settings

Time/Date Setting

NTP Settings

NTP Enable Enable ▾

Option 42 Disable ▾

Current Time 2016 - 01 - 19 . 05 : 55 : 06

Sync with host

NTP Settings (GMT-06:00) Central Time ▾

Primary NTP Server

Secondary NTP Server

NTP synchronization(1 - 1440min)

Daylight Saving Time

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

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

System Log Setting

Syslog Setting

Syslog Enable	Enable ▼
Syslog Level	INFO ▼
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	<input type="text"/>

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/Disable remote syslog function
Remote Syslog	Add a remote server IP address.
Syslog Enable	Enable/Disable syslog function

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

Factory Defaults

Reset to Factory Defaults	Factory Default
---------------------------	-----------------

Description

Click **Factory Default** to restore the residential gateway to factory settings.

Firmware Upgrade

Status	Network	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
Management	Firmware Upgrade	LTE Upgrade	Scheduled Tasks	Certificates	Provision	SNMP	TR-069	

Firmware Management

Firmware Upgrade

Local Upgrade 未选择任何文件

- Description**
1. Choose upgrade file type from Image File and Dial Rule
 2. Press "Browse.." button to browser file
 3. Press to start upgrading

Scheduled Tasks

Management	Firmware Upgrade	LTE Upgrade	Scheduled Tasks	Provision	SNMP	TR-069	Diagnosis
Scheduled Tasks							
Scheduled Wi-Fi							
No.	Enable	SSID	Week Select	Open Time	Close Time		
Delete Selected		Add		Edit			
Enable	Disable ▼						
SSID	FWR7302 ▼						
Scheduled Mode	Every Day ▼						
Wi-Fi Work Time	00 ▼ : 00 ▼ -- 00 ▼ : 00 ▼						
Apply		Cancel					
Scheduled Reboot							
Scheduled Reboot	Disable ▼						
Scheduled Mode	Every Day ▼						
Time	00 ▼ : 00 ▼						
Scheduled PPPoE							
Scheduled PPPoE	Disable ▼						
Scheduled Mode	Every Day ▼						
Time	00 ▼ : 00 ▼						

Field Name	Description
Scheduled Wi-Fi	
Enable	Enable / Disable Timed WIFI
SSID	This is not optional
Scheduled Mode	Choose work mode, weekly / days
Wi-Fi work time	Set the WIFI duty cycle
Apply and Cancel	After modifying the parameters, select Apply, or Cancel
Scheduled Reboot	
Scheduled Reboot	Enable / disable scheduled reboot
Scheduled Mode	Choose work mode every day / week
Time	Set the time for scheduled reboot
Scheduled PPPoE	
Scheduled PPPoE	Enable / disable restart PPPoE
Scheduled Mode	Choose work mode every day / week

Time Set the time for scheduled PPPoE

Provision

Provisioning allows the router 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	Wireless 2.4GHz	Wireless 5GHz	SIP	FXS1	FXS2	Security	Application
Management	Firmware Upgrade	LTE Upgrade	Scheduled Tasks	Certificates	Provision	SNMP	TR-069	

Provision

Configuration Profile

Provision Enable	Disable ▾
Resync on Reset	Enable ▾
Resync Random Delay (sec)	40
Resync Periodic (sec)	3600
Resync Error Retry Delay (sec)	3600
Forced Resync Delay (sec)	14400
Resync after Upgrade	Enable ▾
Resync from SIP	Disable ▾
Option 66	Enable ▾
Option 67	Enable ▾
Config File Name	\$(MA)
User Agent	
Profile Rule	http://prv1.flyingvoice.net:69/config/\$(MA)?mac=\$(MA)&

Field Name	Description
Provision Enable	Enable provision or not.
Resync on Reset	Enable resync after restart or not
Resync Random Delay(sec)	Set the maximum delay for the request of synchronization file. The default is 40.
Resync Periodic(sec)	If the last resync was a failure, the router 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.

Forced Resync Delay(sec)	If it's time to resync, but the device is busy now, in this case, the router will wait for a period time, the longest is "Forced Resync Delay", default is 14400s, when the time over, the router will be forced to resync.
Resync After Upgrade	Enable firmware upgrade after resync or not. The default is Enabled.
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.

Firmware Upgrade

Upgrade Enable	Enable ▾
Upgrade Error Retry Delay(sec)	3600
Upgrade Rule	<input type="text"/>

Field Name	Description
Upgrade Enable	Enable firmware upgrade via provision or not
Upgrade Error Retry Delay(sec)	If the last upgrade fails, the router will try upgrading again after "Upgrade Error Retry Delay" period, default is 3600s
Upgrade Rule	URL of upgrade file

SNMP

Management	Firmware Upgrade	LTE Upgrade	Scheduled Tasks	Certificates	Provision	SNMP	TR-069
SNMP Configuration							
SNMP Configuration							
SNMP Service	Enable ▾						
Trap Server Address	183.234.48.155						
Read Community Name	public						
Write Community Name	private						
Trap Community	trap						
Trap Period Interval (sec)	300						
<input type="button" value="Save & Apply"/> <input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Reboot"/>							

Field Name	Description
SNMP Service	Enable or Disable the SNMP service
Trap Server Address	Enter the trap server address for sending SNMP traps
Read Community Name	String value that is used as a password to request information via SNMP from the device
Write Community Name	String value that is used as a password to write configuration values to the device via SNMP
Trap Community	String value used as a password for retrieving traps from the device
Trap period interval	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.

Management
Firmware Upgrade
LTE Upgrade
Scheduled Tasks
Provision
SNMP
TR-069
Diagnosis

TR-069 Configuration

ACS

TR-069 Enable Enable ▾

CWMP Enable ▾

ACS URL

User Name

Password

Enable Periodic Inform Enable ▾

Periodic Inform Interval

Connect Request

User Name

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	Enable the function of periodic inform or not. By default, it is Enabled
Periodic Inform Interval	Periodic notification interval with the unit in seconds. The default value is 3600s

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.

Management	Firmware Upgrade	LTE Upgrade	Scheduled Tasks	Certificates	Provision	SNMP	TR-069	Diagnosis
------------	------------------	-------------	-----------------	--------------	-----------	------	--------	-----------

Packet Trace	Help
---------------------	-------------

Packet Trace

Tracking Interface:

Packet Trace:

Ping Test

Ping Test

Dest IP/Host Name:

WAN Interface:

Traceroute Test

Traceroute Test

Dest IP/Host Name:

WAN Interface:

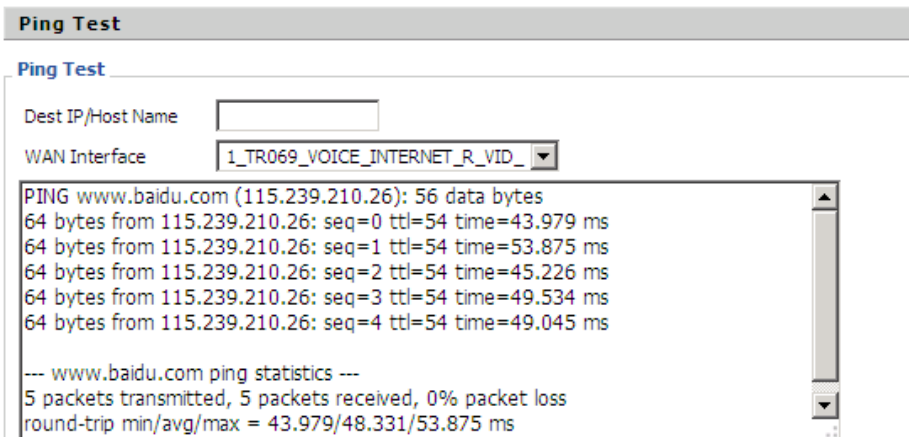
Description

1. Packet Trace

Users can use the packet trace feature to intercept packets which traverse the device. Click the Start button to start home gateway 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

Ping Test

Dest IP/Host Name

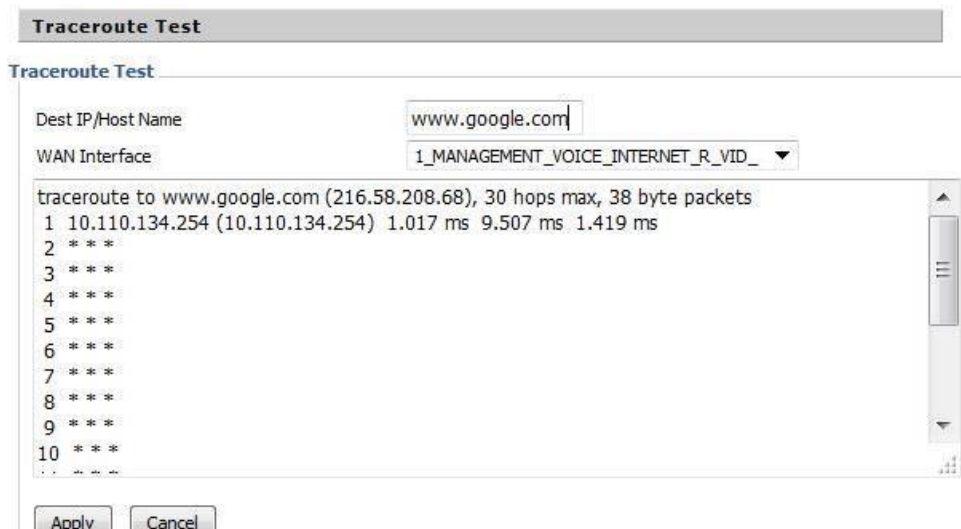
WAN Interface

```
PING www.baidu.com (115.239.210.26): 56 data bytes
64 bytes from 115.239.210.26: seq=0 ttl=54 time=43.979 ms
64 bytes from 115.239.210.26: seq=1 ttl=54 time=53.875 ms
64 bytes from 115.239.210.26: seq=2 ttl=54 time=45.226 ms
64 bytes from 115.239.210.26: seq=3 ttl=54 time=49.534 ms
64 bytes from 115.239.210.26: seq=4 ttl=54 time=49.045 ms

--- www.baidu.com ping statistics ---
5 packets transmitted, 5 packets received, 0% packet loss
round-trip min/avg/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.



Traceroute Test

Traceroute Test

Dest IP/Host Name

WAN Interface

```
traceroute to www.google.com (216.58.208.68), 30 hops max, 38 byte packets
 1 10.110.134.254 (10.110.134.254) 1.017 ms 9.507 ms 1.419 ms
 2 * * *
 3 * * *
 4 * * *
 5 * * *
 6 * * *
 7 * * *
 8 * * *
 9 * * *
10 * * *
.. * * *
```

Operating Mode

Management	Firmware Upgrade	LTE Upgrade	Scheduled Tasks	Provision	SNMP	TR-069	Diagnosis	Operating Mode
------------	------------------	-------------	-----------------	-----------	------	--------	-----------	----------------

Operating Mode Settings [Help](#)

Operating Mode Settings

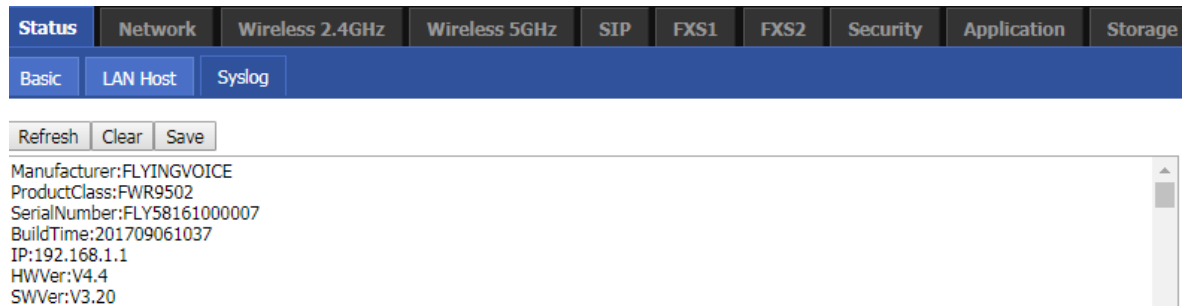
Operating Mode Advanced Mode ▾

- Basic Mode
- Advanced Mode

Description

Choose the Operation Mode as Basic Mode or Advanced Mode.

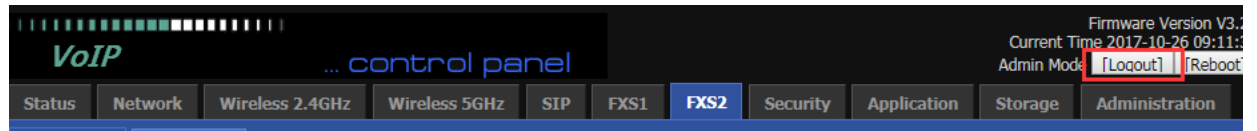
System Log



Description

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

Logout



Description

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

Reboot

Press the  button to reboot the device.