



User Guide

For WI-GP1430

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Product Specifications

Hardware Features

Chipset	RTL9607DQ+RTL8832CR-CG+RTL8192XBR-CG+Le9642PQCT
CPU frequency	Quad core ARM Cortex-A55 1.0GHz
Memory	512MB 16-bit DDR4
Flash	256MB NAND
Interface	1 x SC/APC GPON Port 4x RJ45 10M/100M/1000M LAN Ethernet 1 x WPS button 1 x reset button 1 x Power jack 2 x RJ11 Phone jack
Power Supply	12V/2A

Wireless Features

Standards	802.11a/b/g/n/ac/ax
Frequency	2.4G: 2.4~2.4835GHz 5G: 5.150~5.825GHZ *Please follow national regulations to select the appropriate frequency
Data Rates	2.4GHz: up to 574Mbps 5GHz: up to 2402Mbps
MIMO	2.4GHz: 2x2 MIMO 5GHz: 2x2MIMO
Antenna	2.4GHz: 2 x 5dBi External antennas 5GHz: 2 x 5dBi External antennas
Modulation schemes	OFDM - BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM DSSS - DBPSK, DQPSK, CCK
Transfer Rate	2.4GHz: HE20: up to 286.8Mbps HE40: up to 576.5Mbps 5GHz: HE20: up to 286.8Mbps HE40: up to 576.5Mbps HE80: up to 1201Mbps HE160: up to 2402Mbps

Software Features

General Protocols	<p>Wireless main Protocols:</p> <ul style="list-style-type: none"> ● IEEE 802.11a ● IEEE 802.11b ● IEEE 802.11g ● IEEE 802.11n ● IEEE 802.11ac ● IEEE 802.11ax ● IEEE 802.11h(dfs) ● IEEE 802.11e(wmm) ● IEEE 802.11k/v/r <p>Network main Protocols:</p> <ul style="list-style-type: none"> ● RFC0768 UDP ● RFC0791 IP ● RFC0792 ICMP ● RFC0793 TCP ● RFC0826 Ethernet ARP ● RFC0894 IP over Ethernet ● RFC0922 Broadcasting Internet Datagrams ● RFC0950 Internet Standard Subnetting ● IEEE802.3 Ethertype ● IEEE802.1p ● RFC2516 PPP Over Ethernet (PPPoE) ● RFC1662 PPP in HDLC-like Framing ● RFC1332 PPP Internet Protocol Control Protocol ● RFC1042 Transmission of IP Datagrams over IEEE 802 Networks ● IPoE (a.k.a IP over Ethernet over AAL5)
Network Features	<ul style="list-style-type: none"> ● IPv4/IPv6 dual stack ● 6RD

	<ul style="list-style-type: none"> ● IPoE Bridge Mode ● IPoE DHCP/Static ● PPPoE Dynamic/Static ● IPv6 Stateless/Stateful ● PPTP、L2TP GRE IPSEC VPN ● IGMP proxy and MLD for IPTV ● DNS Proxy ● DHCP server ● NAT, NATP and ALG
Wireless Features	<ul style="list-style-type: none"> ● Embedded AP with 4 SSIDs on each Radio ● Separate authentication for each SSID ● Wmf ● Auto Channel ● BSD ● EasyMesh ● WPA3/SAE Security
Other Features	<ul style="list-style-type: none"> ● QOS Flow Control ● Samba/DLNA/FTP ● NAT,NAPT and ALG ● DMZ and Port forwarding(Virtual server) ● SPI Firewall, Denial of Service (DoS) protection ● Port filtering, IP filtering and MAC filtering ● URL filter ● DDNS ● Static route ● SNTP Date/time update from Internet Time Server ● Diagnostics(Ping/TraceRoute) ● Logs and statistics
Management	<ul style="list-style-type: none"> ● WEB GUI ● TR-069 remote management
Environment Requirement	

Operating Temperature	0°C~40°C
Storage Temperature	-20°C ~ 90°C
Operating Humidity	5%~95% (typical)
EMC/Safety	
Regulation Compliance	CE
Safety Regulations	UL
Green Standard	RoHS

Chapter 1. Hardware Overview

The following section provides a detailed hardware description of the WI-GP1430 device, including information about the LED indicators and the casing panel.

1.1 Hardware Description

Diagram :



Figure A



Figure B

1.1.1 Front LED

The front LED provides a simple interface for monitoring the WI-GP1430. Figure 1-1-1 illustrates the front LED of the WI-GP1430.

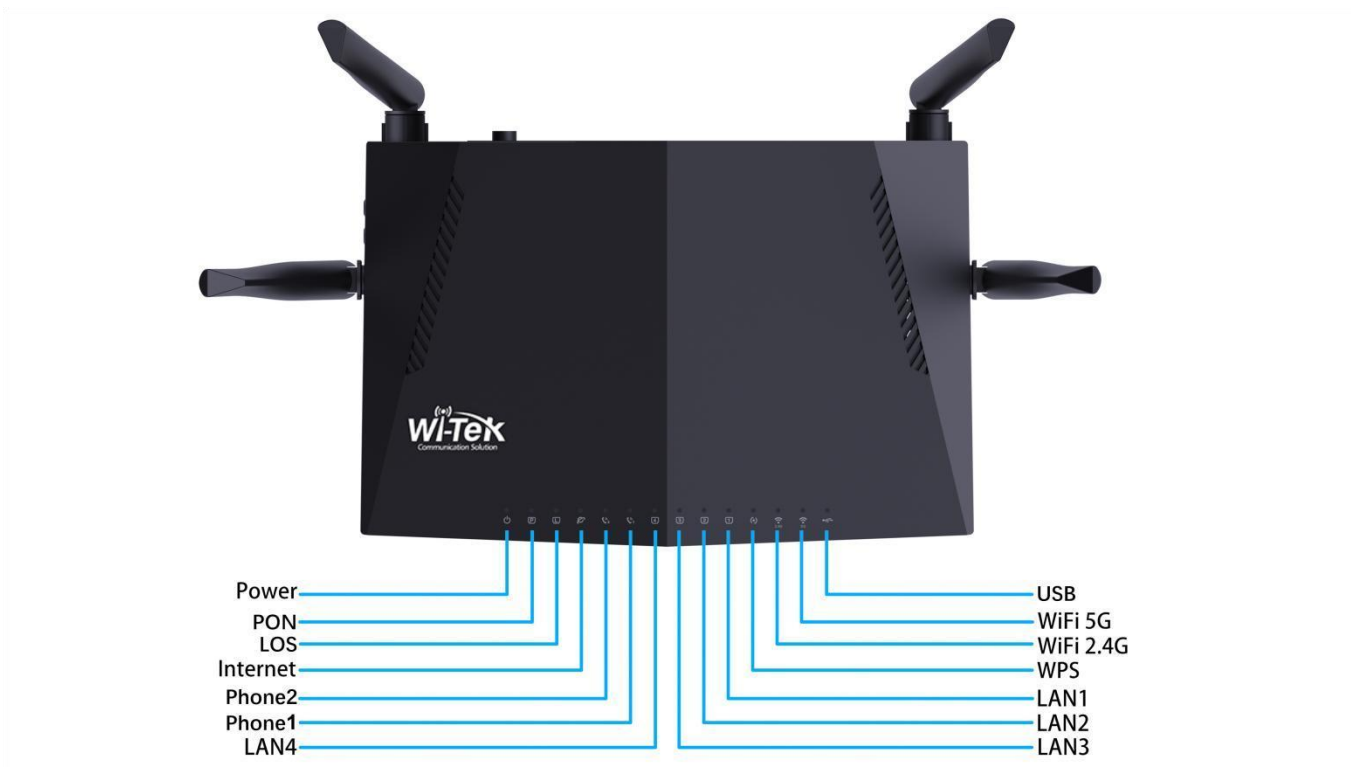


Figure 1-1-1 WI-GP1430

Top View

1.1.2 LED Indications

The LEDs on the front panel indicate the real-time status of port links, wireless data activity, system power, phone status, WPS, and PON, and they help with monitoring and troubleshooting when necessary. Figure 1-1-1 and Table 1-1-2 illustrate the LED indications for the WI-GP1430 device.

LED	STATE	FUNCTION
POWER	On	Device power on
	Off	Device power off
PON	On	PON registration is complete
	Flash	PON registration is ongoing
	Off	No PON registration initiated
LOS	Flash	Optical signal loss
	Off	Optical signal is without fault
Internet	On	Internet wan is connected
	Off	Internet wan is not connected
Phone1	On	VOIP is running
	Off	VOIP is not yet ready
Phone2	On	VOIP is running
	Off	VOIP is not yet ready
LAN1-4	On	Link is established.
	Flash	Packets are transmitting or receiving
	Off	LAN port is not connected
WPS	Flash	WPS is triggered
	Off	WPS is connected or disable
2.4G	On	The 2.4GHz Wi-Fi is activated
	Flash	Device is transmitting data wirelessly over 2.4GHz
	Off	The 2.4GHz Wi-Fi is disabled
5G	On	The 5GHz Wi-Fi is activated
	Flash	Device is transmitting data wirelessly over 5GHz

	Off	The 5GHz Wi-Fi is disabled
USB	On	USB is connected
	Off	USB is not connected

Table 1-1-2 LED Indications

1.1.3 Rear Panel

The rear panel provides the physical connectors for connecting to the power adapter and any other network devices. Figure 1-1-3 illustrates the rear panel of the WI-GP1430 device.

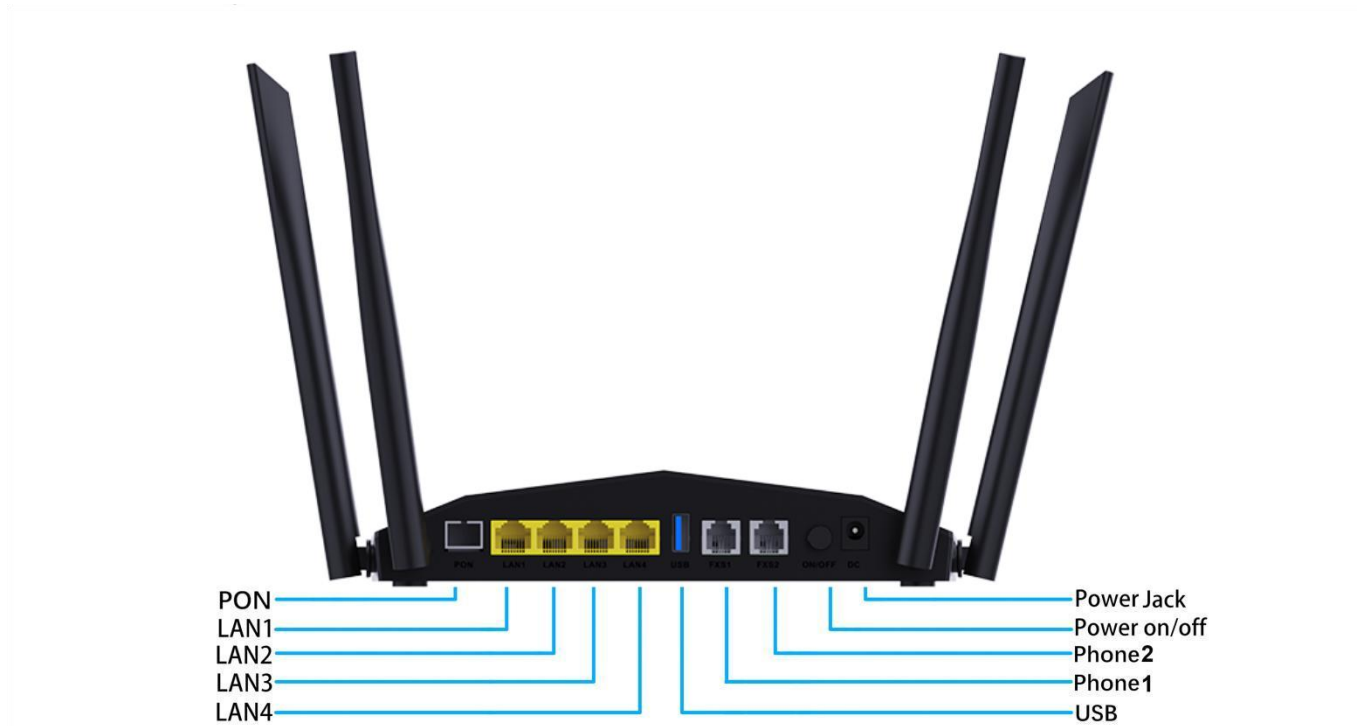


Figure 1-1-3-1 Rear Panel of the WI-GP1430 Device

Interface	Description
PON	Facilitates internet access by connecting to a fiber-optic network for optical communication
LAN1-4	Connect to the user's PC or network devices
USB	For connecting to external USB storage devices

Phone1-2	To use VOIP services, insert the telephone handset into this port.
Power Button	Power on and off equipment
Power Jack	Connect to the power adapter provided in the package

Table 1-1-3-2 Interface Indications

1.1.4 Side Panel

The side panel provides the RESET and WPS buttons. Figure 1-1-4 shows the side panel of the WI-GP1430 device.

**Figure 1-1-4** side panel of the WI-GP1430

Interface	Description
WPS	A short press of over 1 second activates WPS, while a long press of more than 3 seconds turns the wireless on or off
	Press the Reset button gently for 3 seconds and then release it. The system restores to

Reset

the factory default settings

Chapter 2. Connecting to the Router

2.1 System Requirements

- ◆ Fiber Broadband Internet Access Service
- ◆ PCs with a working Ethernet Adapter and an Ethernet cable with RJ45 connectors
- ◆ PC subscribers use Windows XP, Windows Vista, Windows 7/8/10, MAC OS 9 or later, or Linux, UNIX or other platforms compatible with TCP/IP protocols
- ◆ The above PC is installed with a Web browser

2.2 Installing the Router

Before you begin the installation of the optical network unit (ONU), also known as the optical network terminal (ONT) or simply the "optical modem," make sure that the fiber-optic service from your ISP is properly connected and operational. If you face any issues with the service or are uncertain about its status, please contact your ISP for assistance. Once you have confirmed that the fiber-optic line is active, you can proceed with the installation of the optical modem as per the following steps. Please ensure that the power is unplugged and that your hands are dry during the installation process.

Step 1. Power off your PC, optical network unit (ONU), and any other network equipment.

Step 2. Find an optimal location for your optical network unit (ONU). The best location is usually at the center of

your wireless network coverage area.

Step 3. Use an Ethernet cable to connect your PC or network switch/hub in the LAN to the LAN ports of the optical network unit (ONU).

Step 4. Connect the power adapter to the power socket on the optical network unit (ONU) and plug the other end into an electrical outlet. Then, power on the optical network unit (ONU).

Step 5. Power on your PC and any other network equipment.

Chapter 3. Quick Installation Guide

This chapter will show you how to configure the basic functions of your WI-GP1430.



A computer with wired Ethernet connection to the WI-GP1430 is required for the first-time configuration.

3.1 Manual Network Setup - TCP/IP Configuration

The default IP address of the WI-GP1430 is [192.168.1.1](#) and the default Subnet Mask is [255.255.255.0](#). These values can be altered according to your preferences within the web UI of the WI-GP1430. In this section, we utilize all the default settings for illustration purposes.

Regardless of whether the WI-GP1430 is set up through a wired or wireless connection, the PC must first be assigned an IP address. Prior to connecting your local PC to the WI-GP1430 via a wired or wireless connection, please initially configure the IP address for your PC using one of the following two methods.

- [Obtaining an IP address automatically](#)
- [Configuring the IP address manually](#)

In the following sections, we'll introduce how to install and configure the TCP/IP correctly in **Windows 11**. And the procedures in other operating systems are similar. First, make sure your Ethernet Adapter is working, and refer to the Ethernet adapter's manual if needed.

3.1.1 Obtaining an IP Address Automatically

Summary:

- Set up the TCP/IP Protocol in **"Obtain an IP address automatically"** mode on your PC
- Then the WI-GP1430 built-in DHCP server will assign an IP address to the PC automatically.

If you are certain that the DHCP server of the WI-GP1430 is enabled, you can configure the TCP/IP protocol on your PC to **"Obtain an IP address automatically."** Subsequently, the built-in DHCP server of the WI-GP1430 will automatically assign an IP address to the PC.

PC configuration automatically obtains IP address

- 1) Use the search bar on your PC to search for and open the Control Panel.
- 2) Select "Network and Sharing Center," then choose "Change Adapter Settings."



Figure 3-1-1-1 Open Network and Sharing Center



Figure 3-1-1-2 Open the "Change Adapter Settings" option

3) Right-click on the network adapter that is directly connected to the WI-GP1430, and then click on the "Properties" option

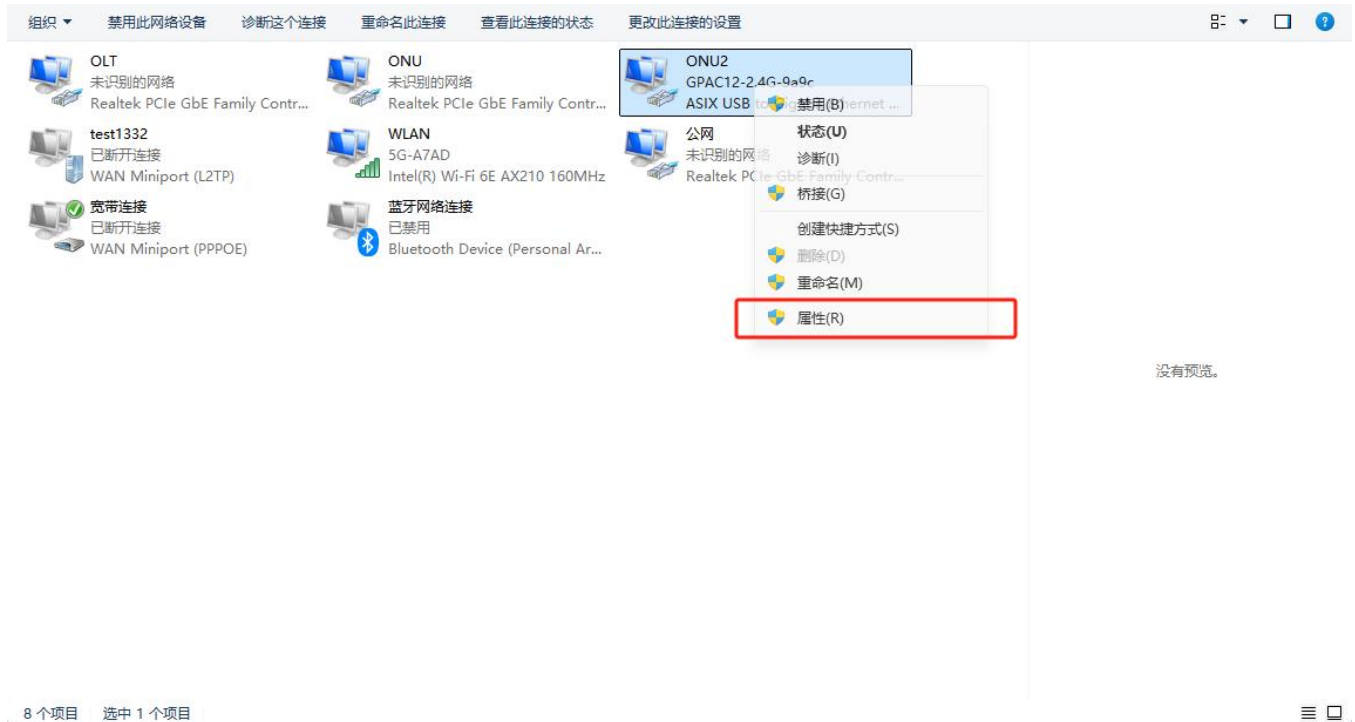


Figure 3-1-1-3 Right-click and select "Properties."

4) In the prompt window shown below, double-click on the Internet Protocol Version 4(TCP/IPv4)



Figure 3-1-1-4 Select Protocol

5) Choose Obtain an IP address automatically, and Obtain DNS server address automatically as shown in the figure below. Then click OK to save your settings



Figure 3-1-1-5 Configure automatic retrieval

3.1.2 Configuring the IP Address Manually

Summary:

- Set up the TCP/IP Protocol for your PC
- Configure the network parameters. The IP address is **192.168.1.xxx** ("xxx" is any number from 2 to 254), Subnet Mask is **255.255.255.0**, and Gateway is **192.168.1.1**(The Router's default IP address)

If you are certain that the DHCP server of the WI-GP1430 is disabled, you can manually configure the IP address. The IP address for your PC should be 192.168.1.xxx (within the same subnet as the IP address of the WI-GP1430, where "xxx" is any number from 2 to 254), the Subnet Mask should be 255.255.255.0, and the Gateway should be 192.168.1.1 (the default IP address of the WI-GP1430).

- 1) Continue the settings from the last figure. Select **Use the following IP address** radiobutton
- 2) If the LAN IP address of the WI-GP1430 is 192.168.1.1, enter an IP address of 192.168.1.x (where x is a number from 2 to 254), and a Subnet mask of 255.255.255.0.
- 3) Enter the LAN IP address of the WI-GP1430 (the default IP is 192.168.1.1) into the default gateway field.
- 4) Select **Use the following DNS server addresses** radio button. In the preferred DNS Server field, you can enter the DNS server IP address provided by your local ISP. Then click OK to save your settings.



Figure 3-1-2-1 IP and DNS Server Addresses

Now, you can run the Ping command in the **command prompt** to verify the network connection between your PC and the WI-GP1430. The following example is in **Windows 11** OS. Please follow the steps below:

1. Press the Win+R keys on your keyboard, type "cmd" in the Run dialog box, and then click "OK."

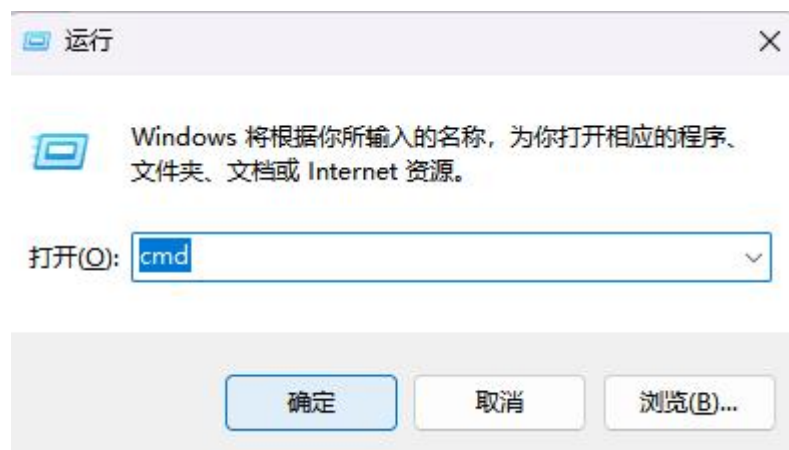


Figure 3-1-2-2 Enter cmd

2. Open a command prompt, and type ping **192.168.1.1**, and then press **Enter**

- If the result displayed is similar to Figure 3-1-2-3, it means the connection between your PC and the WI-GP1430 has been established well.

```

C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.17763.1397]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\DIY1>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time=4ms TTL=64

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 4ms, Average = 1ms

C:\Users\DIY1>

```

Figure 3-1-2-3 Successful Ping Command

- If the result displayed is similar to Figure 3-1-2-4, it means the connection between your PC and the Router has failed

```

C:\Users\DIY1>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:
Request timed out.
Reply from 192.168.0.1: Destination net unreachable.
Reply from 192.168.0.1: Destination net unreachable.
Request timed out.

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),

```

Figure 3-1-2-4 Failed Ping Command

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.



If the Router's IP address is 192.168.1.1, your PC's IP address must be within the range of 192.168.1.2 ~ 192.168.1.254.

3.2 Starting Setup in the Web UI

It is easy to configure and manage the WI-GP1430 device with the web browser.

Step 1. To access the configuration utility, open a web-browser and enter the default IP address <http://192.168.1.1> in the web address field of the browser

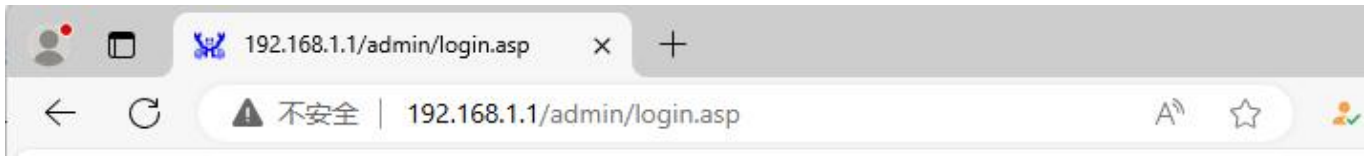


Figure 3-2-1 Login the Router

Enter "admin" and "admin" as your User Name and Password in the login window, or use the account and password provided by your service provider. Click **Log In** or press **Enter**.

Figure 3-2-2 Login Window



If the above screen does not pop up, it may mean that your web-browser has been set to a proxy. Go to Tools menu>Internet Options>Connections>LAN Settings in the screen that appears, cancel the Using Proxy checkbox, and click OK to finish it.

After entering the user name and password, click the "login" button, enter the home page screen appears as [Figure 3-2-3](#)

The screenshot displays the web interface for the WI-GP1430 device. At the top right, there are links for 'UserGUI' and 'Logout'. Below this is a navigation menu with tabs for 'Status', 'WAN', 'LAN', 'WLAN', 'Applications', 'VoIP', 'Firewall', 'Diagnostics', 'System', and 'Statistics'. The 'Status' tab is currently selected and highlighted in red.

On the left side, there is a sidebar menu with the following items: 'Status' (selected), 'Device', 'WAN', 'PON', 'LAN', 'Wi-Fi (5GHz)', 'Wi-Fi (2.4GHz)', 'LAN Device Statistics', 'VoIP', 'TR069', and 'USB Status'.

The main content area is divided into two sections:

System

Device model	IGD
Firmware Version	V1.0.3_beta
Hardware Version	RTL970x
MAC Address	001e2354aa66
PON Mode	GPON
Device Serial Num	000000000088
CPU Usage	7%
Memory Usage	45%
Uptime	2 days, 23 min
Date/Time	2024-9-29 6:42:30

LAN Configuration

IP Address	192.168.1.1
Subnet Mask	255.255.255.0
DHCP Server	Enabled
IPv6 Address	
IPv6 Link-Local Address	fe80::21e:23ff:fe54:aa66/64
Prefix	

Figure 3-2-3 WI-GP1430 Web Home Page

Step 2. Select "WAN," and you can create or modify the WAN connection yourself.

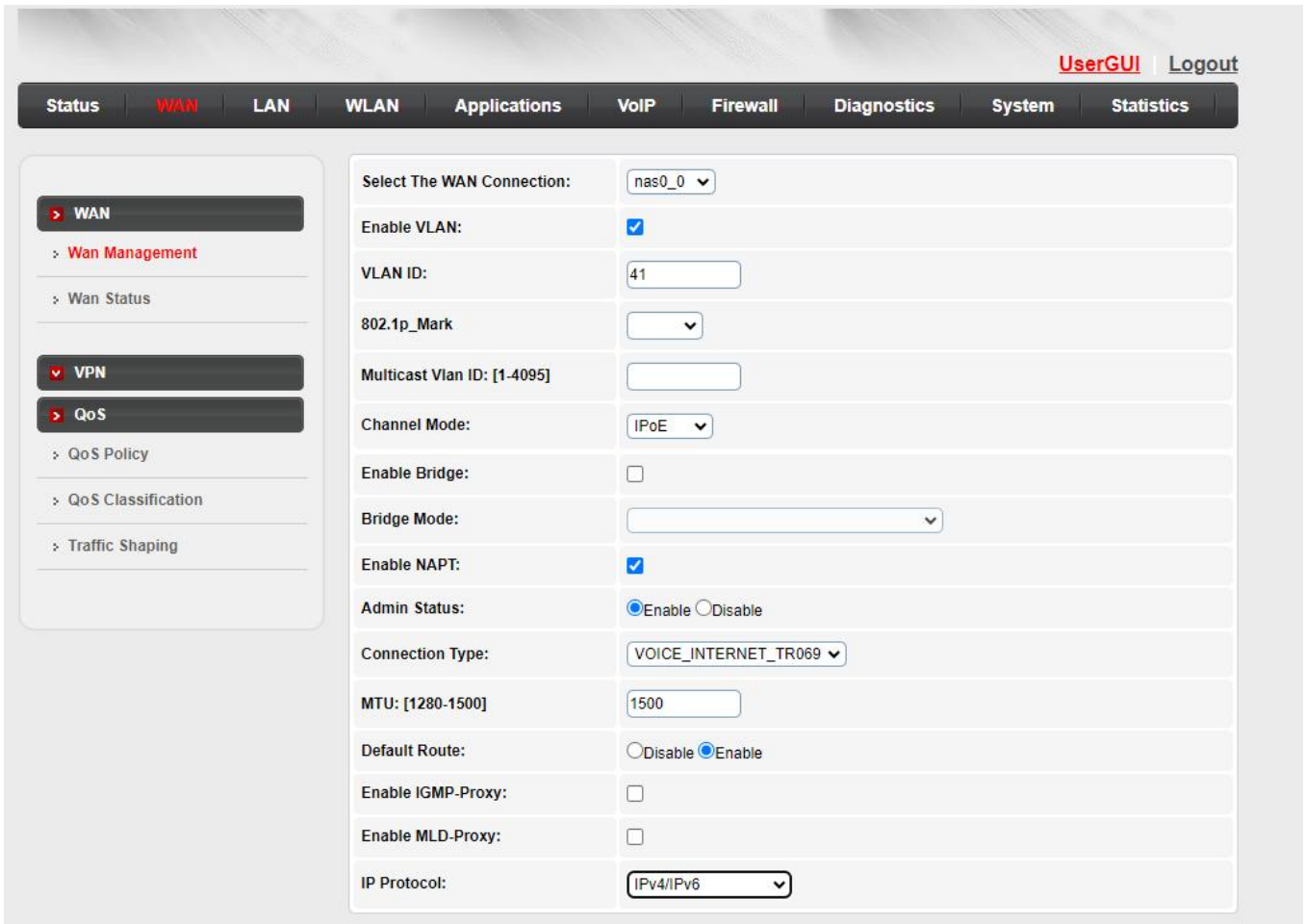


Figure 3-2-4 Configure the WAN Priority Mode.

Step 3. Choose “WLAN” and you can configure the WIFI information.

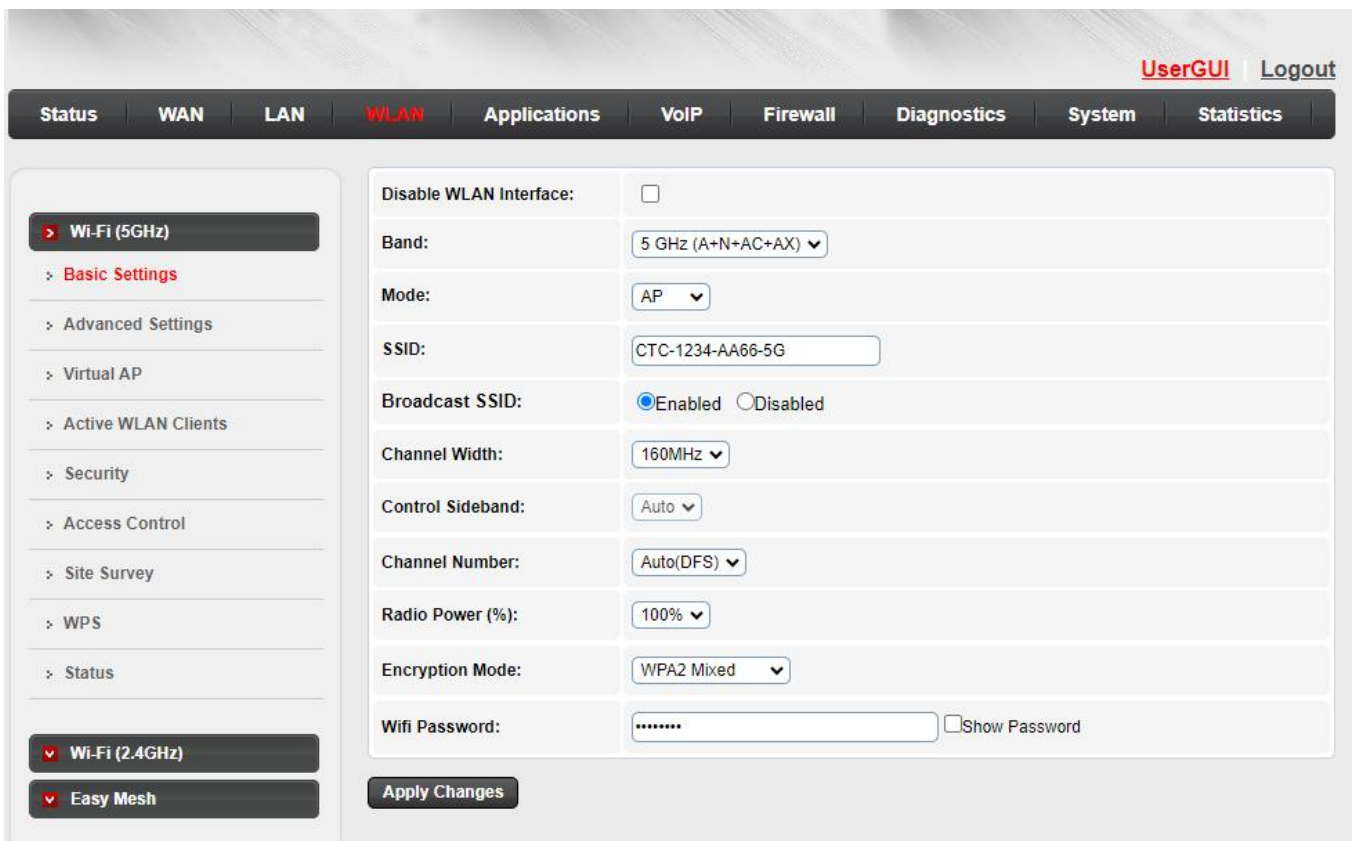


Figure 3-2-5 Configure the WIFI Information

Step 4. Choose "LAN" and you can configure the LAN Interface Setup.

The screenshot displays the LAN Interface Settings configuration page. The navigation menu at the top includes Status, WAN, LAN (selected), WLAN, Applications, VoIP, Firewall, Diagnostics, System, and Statistics. The left sidebar shows the LAN menu expanded with options for LAN Interface Settings, LAN DHCPv4 Settings, LAN DHCPv6 Settings, IPv6 RADVD Settings, and LAN Device Statistics. The main content area is titled "LAN Interface Settings" and contains the following fields:

- IP Address: 192.168.1.1
- Subnet Mask: 255.255.255.0
- IPv6 Link-Local Address Mode: Auto
- IPv6 DNS Mode: HGWProxy
- Prefix Mode: WANDelegated
- WAN Interface: nas0_0
- IGMP & MLD Snooping: Disabled Enabled
- Ethernet to Wireless Blocking: Disabled Enabled
- LAN1: Disabled Enabled
- LAN2: Disabled Enabled
- LAN3: Disabled Enabled
- LAN4: Disabled Enabled

An "Apply Changes" button is located at the bottom of the configuration area.

Figure 3-2-6 Configure LAN Interface Setup

Step 5. In the "System" configuration, you can set the authentication data reported to the OLT, such as the Serial Number (SN), Logical Operator Identifier (LOID), LOID password, and PASSWORD.

The screenshot displays the GPON Settings configuration page. The navigation menu at the top includes Status, WAN, LAN, WLAN, Applications, VoIP, Firewall, Diagnostics, System (selected), and Statistics. The left sidebar shows the System Config menu expanded with options for GPON Settings, OMCI Information, Commit/Reboot, Backup/Restore, System Log, Password, Firmware Upgrade, Time Zone, and Logout. The main content area is titled "GPON Settings" and contains the following fields:

- LOID: 12345678
- LOID Password: [Empty field]
- PLOAM Password: [Empty field]
- Serial Number: GPAC11111135 Take effect after reboot

An "Apply Changes" button is located at the bottom of the configuration area.

Figure 3-2-7 GPON Configuration Page

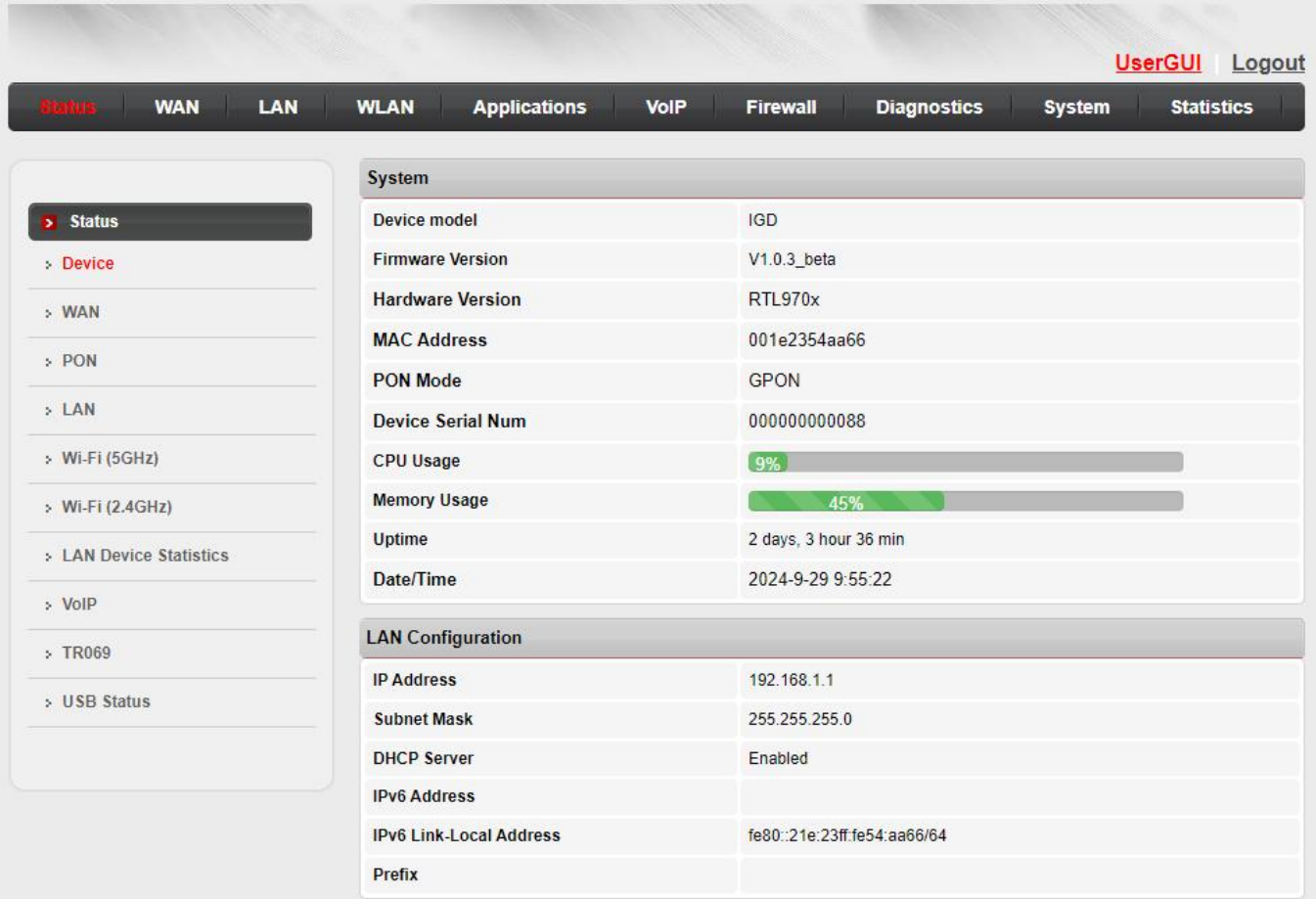
Chapter 4. Configuring the ONU

This chapter provides a comprehensive overview of the main functions and features of the WI-GP1430, enabling you to manage it with ease.

4.1 Home

4.1.1 Device status

On this page, you can view information about the WI-GP1430 device's CPU usage status, memory usage status, operating time, and local area network (LAN) configuration.



The screenshot shows the UserGUI interface for the WI-GP1430 device. The top navigation bar includes 'Status', 'WAN', 'LAN', 'WLAN', 'Applications', 'VoIP', 'Firewall', 'Diagnostics', 'System', and 'Statistics'. The 'Status' page is active, showing a sidebar with expandable options: Status, Device, WAN, PON, LAN, Wi-Fi (5GHz), Wi-Fi (2.4GHz), LAN Device Statistics, VoIP, TR069, and USB Status. The main content area is divided into two sections: 'System' and 'LAN Configuration'.

System	
Device model	IGD
Firmware Version	V1.0.3_beta
Hardware Version	RTL970x
MAC Address	001e2354aa66
PON Mode	GPON
Device Serial Num	000000000088
CPU Usage	9%
Memory Usage	45%
Uptime	2 days, 3 hour 36 min
Date/Time	2024-9-29 9:55:22

LAN Configuration	
IP Address	192.168.1.1
Subnet Mask	255.255.255.0
DHCP Server	Enabled
IPv6 Address	
IPv6 Link-Local Address	fe80::21e:23ff:fe54:aa66/64
Prefix	

Figure 4-1-1 Device status

4.1.2 WAN Port Status

On this page, you can view the current WAN connection network information for the WI-GP1430 device.

UserGUI | Logout

Status | WAN | LAN | WLAN | Applications | VoIP | Firewall | Diagnostics | System | Statistics

➤ Status

➤ Device

➤ WAN

➤ PON

➤ LAN

➤ Wi-Fi (5GHz)

➤ Wi-Fi (2.4GHz)

➤ LAN Device Statistics

➤ VoIP

➤ TR069

➤ USB Status

IPV4 WAN

Interface	VLAN ID	Connection Type	Protocol	IP Address	Gateway	Status
nas0_0	41	VOICE_INTERNET_TR069	IPoE	192.168.10.5	192.168.10.1	up

IPV6 WAN

Interface	VLAN ID	Connection Type	Protocol	IP Address	Status
nas0_0	41	VOICE_INTERNET_TR069	IPoE		down

IPV6 Route Configuration

Destination IP	Source	Gateway	Metric	Interface
fe80::/64	::/0	::	1024	nas0_0
fe80::/64	::/0	::	1024	br0
fe80::/64	::/0	::	256	br0
fe80::/64	::/0	::	256	nas0_0

DS-Lite Configuration

Interface	AFTR name	AFTR address	DS-Lite DHCPv6 option

PPTP Configuration

Interface	Protocol	IP Address	Gateway	Status

L2TP Configuration

Interface	Protocol	Local IP Address	Remote IP Address	Status

Figure 4-1-2 WAN Port status

4.1.3 PON Port Status

On this page, you can view the current PON status information for the WI-GP1430 device.

PON Status

Temperature	36.402344 C
Voltage	3.286700 V
Tx Power	2.544762 dBm
Rx Power	-17.011467 dBm
Bias Current	11.628000 mA

GPON Status

ONU State	O5
ONU ID	93
LOID Status	Successful Authentication

Refresh

Figure 4-1-3 PON Port status

4.1.4 LAN Port Status

On this page, you can view the current LAN connection information for the WI-GP1430 device.

LAN Port Status

Interface	Link Status	Link Mode	Link Speed
LAN_1	Down	Auto	10M
LAN_2	Down	Auto	10M
LAN_3	Up	Full	1000M
LAN_4	Up	Full	1000M

Interface Statistics

Interface	Rx pkt	Rx err	Rx drop	Tx pkt	Tx err	Tx drop
LAN1	0	0	0	0	0	0
LAN2	0	0	0	0	0	0
LAN3	752778	0	0	1414865	0	0
LAN4	21526	0	0	23850	0	0
wlan0	0	0	0	0	0	137
wlan1	0	0	0	0	0	0
nas0_0	1438920	0	533	894463	0	0

Figure 4-1-4 LAN Port status

4.1.5 Wi-Fi Status

On this page, you can view the current wireless mode, channel, and other related information.

The screenshot shows the UserGUI interface with the 'WLAN' tab selected. The left sidebar contains a navigation menu with 'Status' highlighted. The main content area displays the 'WLAN Configuration' table for the 5GHz Wi-Fi interface.

WLAN Configuration	
Mode	AP
Band	5 GHz (A+N+AC+AX)
SSID	CTC-1234-AA66-5G
Channel Number	36
Encryption Mode	WPA2 Mixed
BSSID	00:1e:23:54:aa:67
Associated Clients	0

Figure 4-1-5-1 Wi-Fi(5GHz) Status

The screenshot shows the UserGUI interface with the 'WLAN' tab selected. The left sidebar contains a navigation menu with 'Status' highlighted. The main content area displays the 'WLAN Configuration' table for the 2.4GHz Wi-Fi interface.

WLAN Configuration	
Mode	AP
Band	2.4 GHz (B+G+N+AX)
SSID	CTC-1234-AA66
Channel Number	6
Encryption Mode	WPA2 Mixed
BSSID	00:1e:23:54:aa:6c
Associated Clients	0

Figure 4-1-5-2 Wi-Fi(2.4GHz) Status

4.1.6 LAN Device Status

On this page, you can view information about the terminal devices connected to the LAN side.

The screenshot shows the 'Device Statistics' section of the UserGUI. The left sidebar has 'LAN Device Statistics' selected. The main content area shows a table with the following data:

Device Name	Port	MAC Address	IP Address	Connect Type	Status	Uptime	Lease Type	Expire Time	Action
DESKT OP-PE EE7VJ	LAN3	68:da:73:a4:8a:06	192.168.1.2	Ethernet	Active	2day 04h 04min 02s	dynamic	4294862085	
d8:43:a e:9c:0 e:02	LAN4	d8:43:ae:9c:0e:02	192.168.1.197	Ethernet	Active	0day 00h 11min 25s	static		
00:e0:4 c:33:3 3:44	LAN4	00:e0:4c:33:33:44	192.168.1.100	Ethernet	Active	0day 00h 11min 20s	static		

Figure 4-1-6 Wi-Fi(2.4GHz) Status

4.1.7 VOIP Status

On this page, you can view the current VOIP registration status of the WI-GP1430 device.

The screenshot shows the 'Register Status' section of the UserGUI. The left sidebar has 'VoIP' selected. The main content area shows a table with the following data:

Port	Number	Status
1	100	Registered
2	101	Registered

Below the table is a 'Refresh' button.

Figure 4-1-7 VOIP Status

4.1.8 TR069

On this page, you can view the current TR069 status information for the WI-GP1430 device.

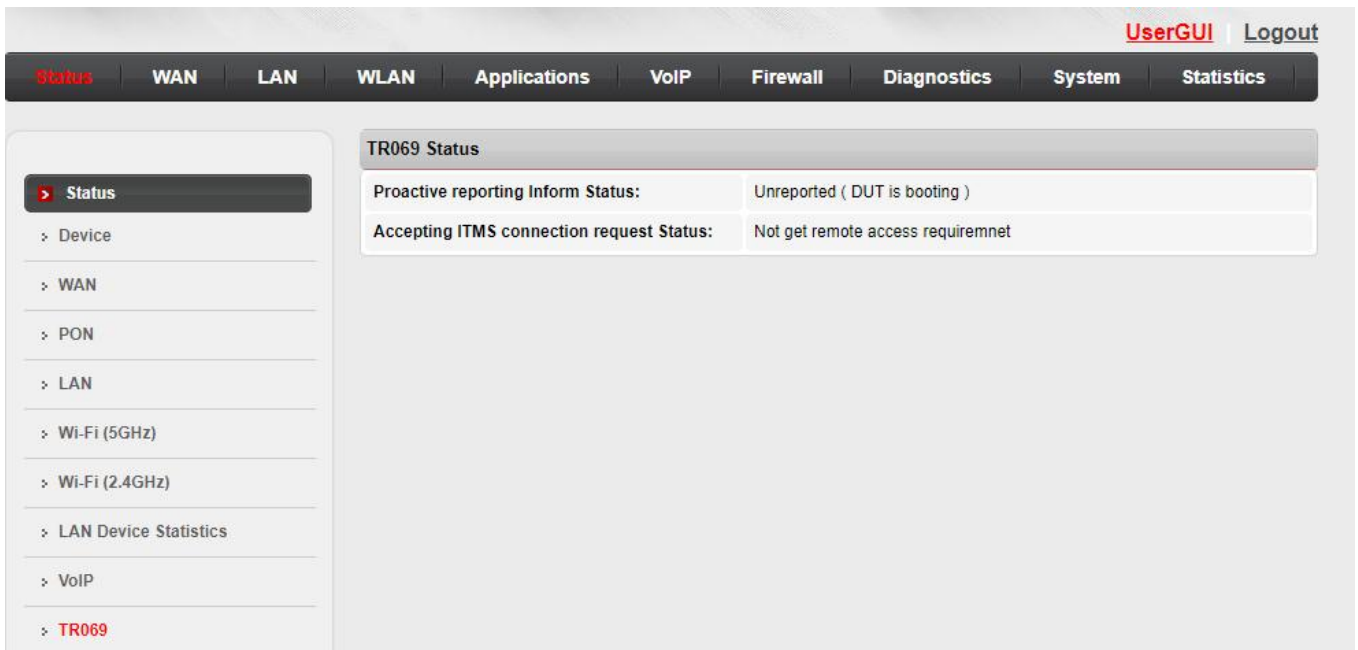


Figure 4-1-8 TR069 Status

4.1.9 USB Status

On this page, you can view information about the devices connected to the USB ports of the WI-GP1430 device.

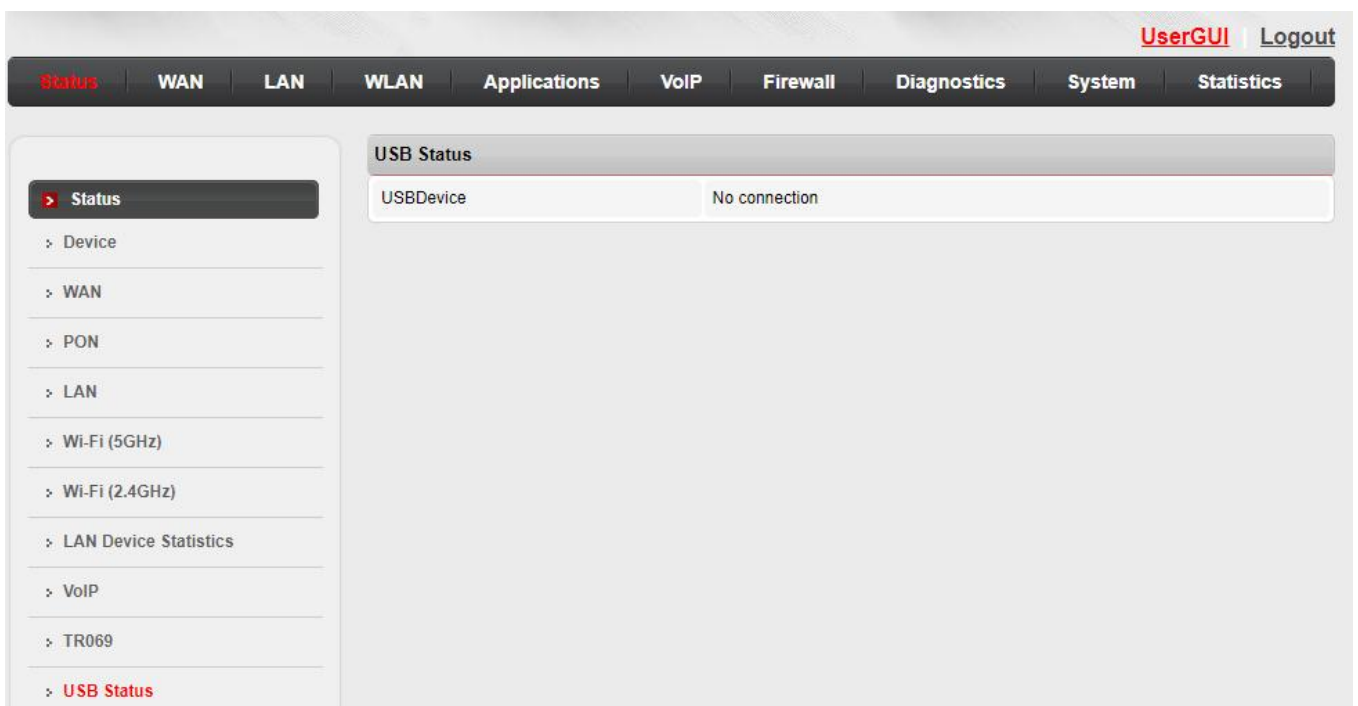


Figure 4-1-9 USB Status

4.2 Settings

4.2.1 WAN

On this page, you can configure the parameters of the WAN interface.

The screenshot displays the WAN configuration interface. At the top right, there are links for 'UserGUI' and 'Logout'. Below this is a navigation bar with tabs for 'Status', 'WAN', 'LAN', 'WLAN', 'Applications', 'VoIP', 'Firewall', 'Diagnostics', 'System', and 'Statistics'. The 'WAN' tab is selected. On the left side, there is a sidebar menu with options for 'WAN', 'VPN', and 'QoS'. The main content area contains the following configuration fields:

Select The WAN Connection:	nas0_0
Enable VLAN:	<input checked="" type="checkbox"/>
VLAN ID:	41
802.1p_Mark	
Multicast Vlan ID: [1-4095]	
Channel Mode:	IPoE
Enable Bridge:	<input type="checkbox"/>
Bridge Mode:	
Enable NAPT:	<input checked="" type="checkbox"/>
Admin Status:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Connection Type:	VOICE_INTERNET_TR069
MTU: [1280-1500]	1500
Default Route:	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Enable IGMP-Proxy:	<input type="checkbox"/>
Enable MLD-Proxy:	<input type="checkbox"/>
IP Protocol:	IPv4/IPv6

Figure 4-2-1 WAN

4.2.1.1 WAN Management

On this page, you can establish or modify WAN connection configurations. Each WAN connection can be set up in different modes, such as DHCP Router mode, PPPoE Router mode, and Static Router mode. Additionally, VLAN tagging can be configured for each WAN connection, which can be more helpful for users to adapt to different environmental needs.

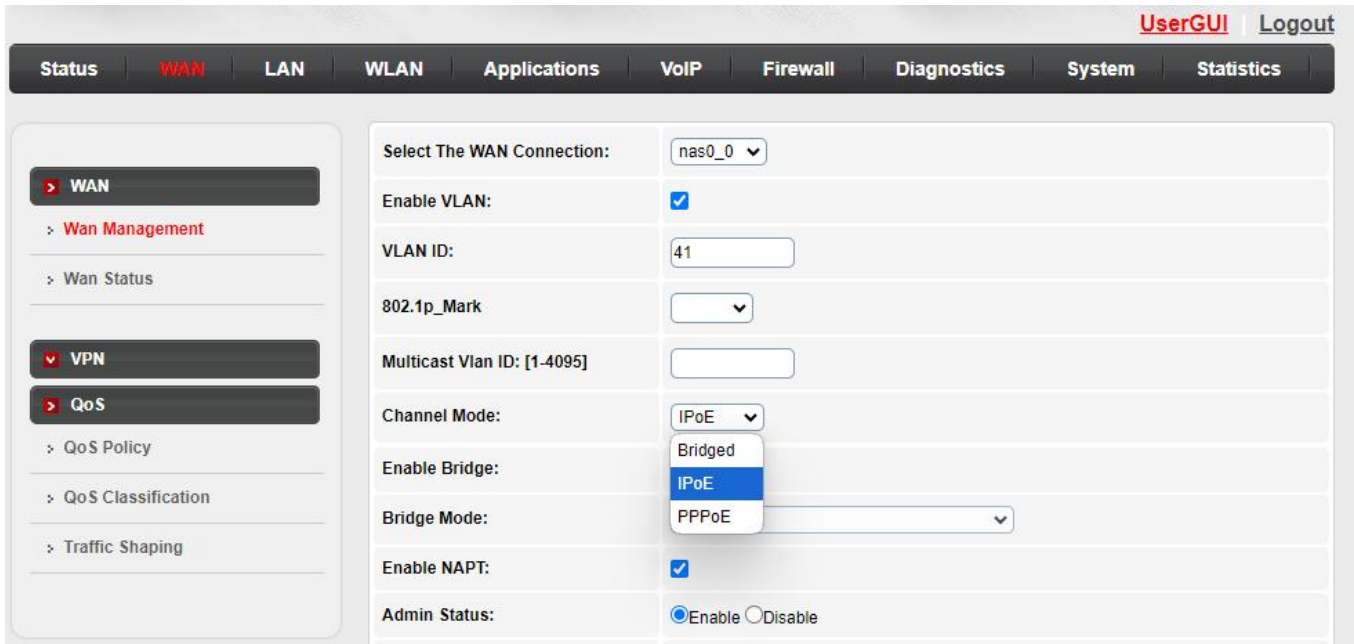


Figure 4-2-1-1-1 WAN Management

DHCP

Choose “**DHCP**” and the router will automatically obtain IP addresses, subnet masks and gateway addresses from your ISP.

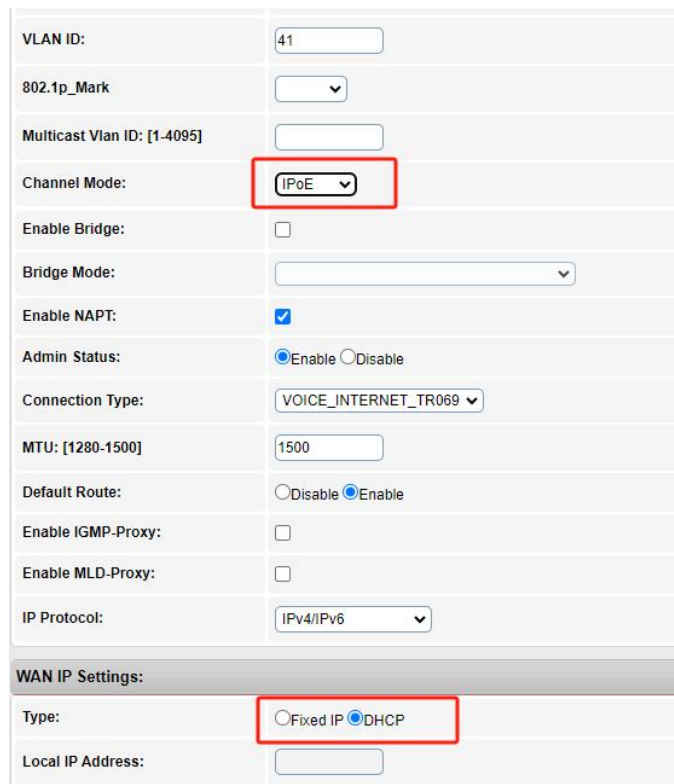


Figure 4-2-1-1-2 WAN DHCP

Object	Description
MTU	You can keep the maximum transmission unit (MTU) as default.

VLAN ID	Enter the VLAN ID value provided by your ISP.
Connection Type	From this feature, user can distinguish different services.

Static IP

If your ISP offers you static IP Internet connection type, select "Static IP " and then enter IP address, subnet mask, primary DNS and secondary DNS information provided by your ISP in the corresponding fields.

The screenshot shows the 'WAN IP Settings' configuration page. At the top, there is a header 'WAN IP Settings:'. Below it, the 'Type:' field has two radio buttons: 'Fixed IP' (which is selected) and 'DHCP'. The 'Local IP Address:' field is an empty text box. The 'Gateway:' field is an empty text box. The 'Subnet Mask:' field is an empty text box. The 'IP Unnumbered:' field has an unchecked checkbox. The 'Request DNS:' field has two radio buttons: 'Enable' and 'Disable' (which is selected). The 'Primary DNS Server:' field is an empty text box. The 'Secondary DNS Server :' field is an empty text box.

Figure 4-2-1-1-3 WAN Static IP

Object	Description
Local IP Address	Enter the WAN IP address provided by your ISP. Inquire your ISP if you are not clear.
Subnet Mask	Enter WAN Subnet Mask provided by your ISP.
Gateway	Enter the WAN Gateway address provided by your ISP.
Primary DNS Server	Enter the necessary DNS address provided by your ISP.
Secondary DNS Server	Enter the other DNS address if your ISP provides you with 2 such addresses, and it is optional.
MTU	You can keep the maximum transmission unit (MTU) as default.
VLAN ID	Enter the VLAN ID value provided by your ISP.
Connection Type	From this feature, user can distinguish different services.

PPPoE

Select PPPoE, if your ISP is using a PPPoE connection and provide you with PPPoE user name and password information.

The screenshot shows a configuration page for WAN PPPoE. The 'Channel Mode' is set to 'PPPoE'. Below it, there are several options: 'Enable Bridge' (unchecked), 'Bridge Mode' (empty dropdown), 'Enable NAPT' (checked), 'Admin Status' (radio buttons for 'Enable' and 'Disable', with 'Enable' selected), 'Connection Type' (dropdown set to 'VOICE_INTERNET_TR069'), 'MTU: [1280-1492]' (input field with '1492'), 'Default Route' (radio buttons for 'Disable' and 'Enable', with 'Enable' selected), 'Enable IGMP-Proxy' (unchecked), 'Enable MLD-Proxy' (unchecked), and 'IP Protocol' (dropdown set to 'IPv4/IPv6').

The 'PPP Settings' section is highlighted with a red box and contains the following fields: 'UserName' (input field), 'Password' (input field with a 'Show Password' checkbox), 'Type' (dropdown set to 'Continuous'), 'Idle Time (sec)' (input field), 'Authentication Method' (dropdown set to 'AUTO'), 'AC-Name' (input field), 'Service-Name' (input field), 'Enable Pppoe Proxy' (unchecked), and 'Max Proxy User' (input field).

Figure 4-2-1-1-4 WAN PPPoE

Object	Description
Username	Enter the User Name provided by your ISP.
Password	Enter the password provided by your ISP.
VLAN ID	Enter the VLAN ID value provided by your ISP.
Connection Type	From this feature, user can distinguish different services.
Service Name	Type the name of this router.
MTU	You can keep the maximum transmission unit (MTU) as default.
Type	Select "Continuous", "Connect on Demand" or "Manual".

4.2.1.2 IPv6

You can configure IPv6 in this page. It's support 4 kinds of IPv6 Address Mode.

Enable IGMP-Proxy:

Enable MLD-Proxy:

IP Protocol: IPv6 ▼

IPv6 WAN Setting:

Address Mode: Stateless DHCPv6(SLAAC) ▼

Request Options: Stateless DHCPv6(SLAAC)

Request DNS :

Primary IPv6 DNS:

Secondary IPv6 DNS:

4over6 Type: None ▼

Figure 4-2-1-2-1 IPv6 Address Mode

IPv6 Stateless DHCPv6(SLAAC)

Object	Description
Address Mode	Current Address Mode Stateless DHCPv6(SLAAC).
Request Options	WAN IPv6 Prefix address request.
Request DNS	WAN IPv6 DNS automatic or manual write.

IPv6 WAN Setting:

Address Mode: Stateless DHCPv6(SLAAC) ▼

Request Options: Request Prefix

Request DNS : on off

Primary IPv6 DNS:

Secondary IPv6 DNS:

4over6 Type: None ▼

Figure 4-2-1-2-2 IPv6 Stateless DHCPv6(SLAAC)

IPv6 Stateful DHCPv6

Object	Description
Address Mode	Current Address Mode Stateful DHCPv6.
Request Options	WAN IPv6 Prefix address request.
Request DNS	WAN IPv6 DNS automatic or manual write.

IPv6 WAN Setting:

Address Mode:	<input type="text" value="Stateful DHCPv6"/>
Request Options:	<input checked="" type="checkbox"/> Request Prefix
Request DNS :	<input checked="" type="radio"/> on <input type="radio"/> off
Primary IPv6 DNS:	<input type="text"/>
Secondary IPv6 DNS:	<input type="text"/>

Figure 4-2-1-2-3 IPv6 DHCPv6

IPv6 Static

Object	Description
Address Mode	Current Address Mode Static.
IPv6 Address	WAN IPv6 address.
IPv6 Gateway	WAN IPv6 default gateway.
Request DNS	WAN IPv6 DNS automatic or manual write.

IPv6 WAN Setting:

Address Mode:	<input type="text" value="Static"/>
IPv6 Address:	<input type="text"/> / <input type="text"/>
IPv6 Gateway:	<input type="text"/>
Request DNS :	<input checked="" type="radio"/> on <input type="radio"/> off
Primary IPv6 DNS:	<input type="text"/>
Secondary IPv6 DNS:	<input type="text"/>

Figure 4-2-1-2-4 IPv6 Static

4.2.2 VPN

On this page, you can configure VPN client settings for your WI-GP1430 device, including PPTP and L2TP connections for secure remote access to your LAN. Additionally, you can set up IPsec VPN to enable secure, encrypted communication between your device and other IPsec-compatible VPN gateways. This page provides options to manage VPN client configurations, ensuring the security and privacy of your network traffic.

4.2.2.1 PPTP

This page is used to configure the parameters for PPTP mode VPN.

PPTP VPN Configuration

This page is used to configure the parameters for PPTP mode VPN.

PPTP VPN: Disable Enable

IP Protocol: IPv4

Server:

UserName:

Password: Show Password

Authentication: Auto

Encryption Mode: NONE

Default Gateway:

Apply Changes

PPTP Table

Select	Interface	Server	Action

Delete Selected

Figure 4-2-2-1 PPTP Settings

4.2.2.2 L2TP

This page is used to configure the parameters for L2TP mode VPN.

L2TP VPN Configuration

This page is used to configure the parameters for L2TP mode VPN.

L2TP VPN:	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Name:	<input type="text"/>
IP Protocol:	IPv4 <input type="button" value="v"/>
Server:	<input type="text"/>
Tunnel Authentication:	<input type="checkbox"/>
Tunnel Authentication Secret:	<input type="text"/>
PPP Authentication:	Auto <input type="button" value="v"/>
PPP Encryption Mode:	NONE <input type="button" value="v"/>
UserName:	<input type="text"/>
Password:	<input type="text"/> <input type="checkbox"/> Show Password
PPP Connection Type:	Persistent <input type="button" value="v"/>
Idle Time (min):	<input type="text"/>
MTU:	1458 <input type="text"/>
Default Gateway:	<input type="checkbox"/>

Figure 4-2-2-2 L2TP Settings

4.2.2.3 IPsec

This page is used to configure the parameters for IPsec mode VPN.

IPsec VPN Configuration
This page is used to configure the parameters for IPsec mode VPN.

VPN Config	Add IPsec VPN ▾
Enable:	<input checked="" type="checkbox"/>
L2TP Encap:	<input checked="" type="checkbox"/>
IPSecType:	Site-to-Site ▾
RemoteSubnet:	Multiple network segments
LocalSubnet:	192.168.1.0/24
RemoteIP:	<input type="text"/>
IPSecOutInterface:	Any ▾
IPSecEncapsulationMode:	Tunnel ▾
IKEVersion:	2 ▾
ExchangeMode:	main ▾
IKEAuthenticationAlgorithm:	MD5 ▾
IKEAuthenticationMethod:	PreShareKey ▾
IKEPreshareKey:	<input type="text"/> <input type="checkbox"/> Show Password
IKEEncryptionAlgorithm:	DES ▾
IKEDHGroup:	Group1 ▾
IKEIDType:	IP ▾
IKERemoteName:	<input type="text"/>
IKESAPeriod:	10800
IPSecTransform:	ESP ▾
ESPAuthenticationAlgorithm:	MD5 ▾

Figure 4-2-2-2 IPsec Settings

4.2.3 LAN

On this page, you are able to configure various LAN-related network settings for your WI-GP1430 device. This includes customizing the device's LAN IP address, managing the DHCP address pool, enabling or disabling LAN ports, and setting up IPv6 configurations on the LAN side. It offers a centralized control panel for optimizing your local network according to your specific needs.

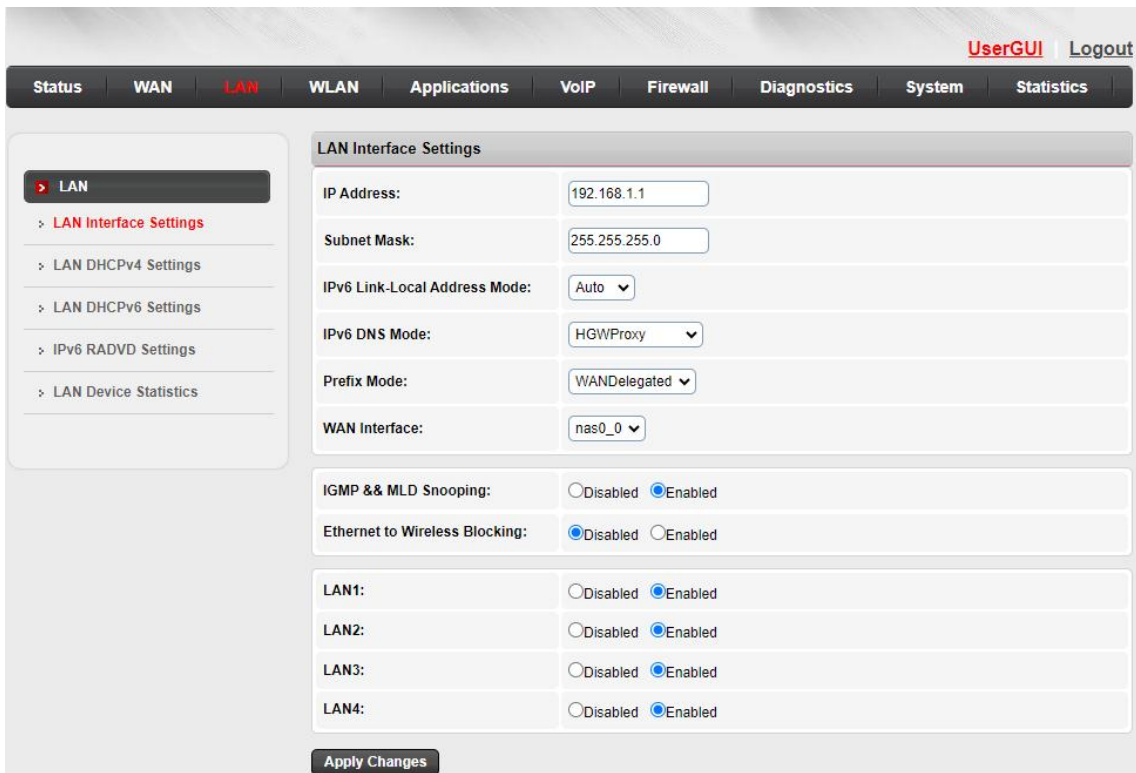


Figure 4-2-3 LAN Setting

4.2.3.1 LAN Interface Settings

This page is used for setting the LAN interface configuration.

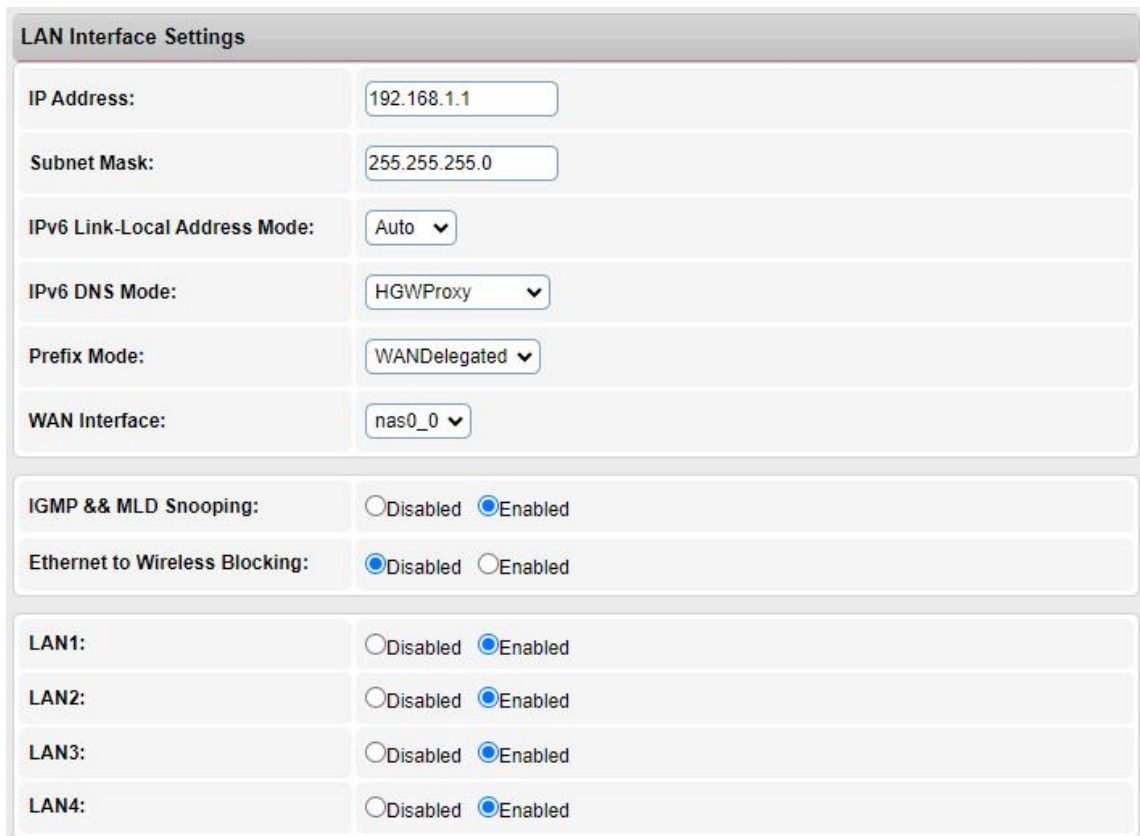


Figure 4-2-3-1 LAN Interface Setting

4.2.3.2 LAN DHCPv4 Settings

This page is used to configure the parameters for local area network which connects to the LAN port of your Access Point. Here you may change the setting for IP address, subnet, DHCP, etc.

DHCP Settings

DHCP Mode: NONE DHCP Relay DHCP Server

Enable the DHCP Server if you are using this device as a DHCP server. This page lists the IP address pools available to hosts on your LAN. The device distributes numbers in the pool to hosts on your network as they request Internet access.

LAN IP Address: 192.168.1.1 Subnet Mask: 255.255.255.0

IP Pool Range: 192.168.1.2 - 192.168.1.254

Subnet Mask: 255.255.255.0

Max Lease Time: 86400 seconds (-1 indicates an infinite lease)

DomainName: bbrouter

Gateway Address: 192.168.1.1

DNS option: Use DNS Proxy Set Manually

Apply Changes Port-Based Filter MAC-Based Assignment

Figure 4-2-3-2-1 LAN IPv4 DHCP Setting

Object	Description
IP Address	Router's LAN IP. The default is 192.168.1.1. You can change it according to your needs.
Subnet Mask	Router's LAN subnet mask.
DHCP Mode	If you select dhcp server mode, the router serves as the DHCP server and automatically assigns IP addresses to all computers in the LAN.
IP Pool Range	Enter the start and end IP address of all the available successive IPs.
Lease Time	Select the time for using one assigned IP from the dropdown list. After the lease time, the AP automatically assigns new IP addresses to all connected computers.
Static DHCP	This page allows you reserve IP addresses, and assign the same IP address to the network device with the specified MAC address any time it requests an IP address. This is almost the same as when a device has a static IP address except that the device must still request an IP address from the DHCP server.
Domain Name	Set the domain name of the server.
Gateway address	Set the LAN Gateway address.
DNS option	Set the LAN DNS distribution mode for LAN clients

If user want to reserve specific IP for some device, you can bind the mac and the IP in this page.

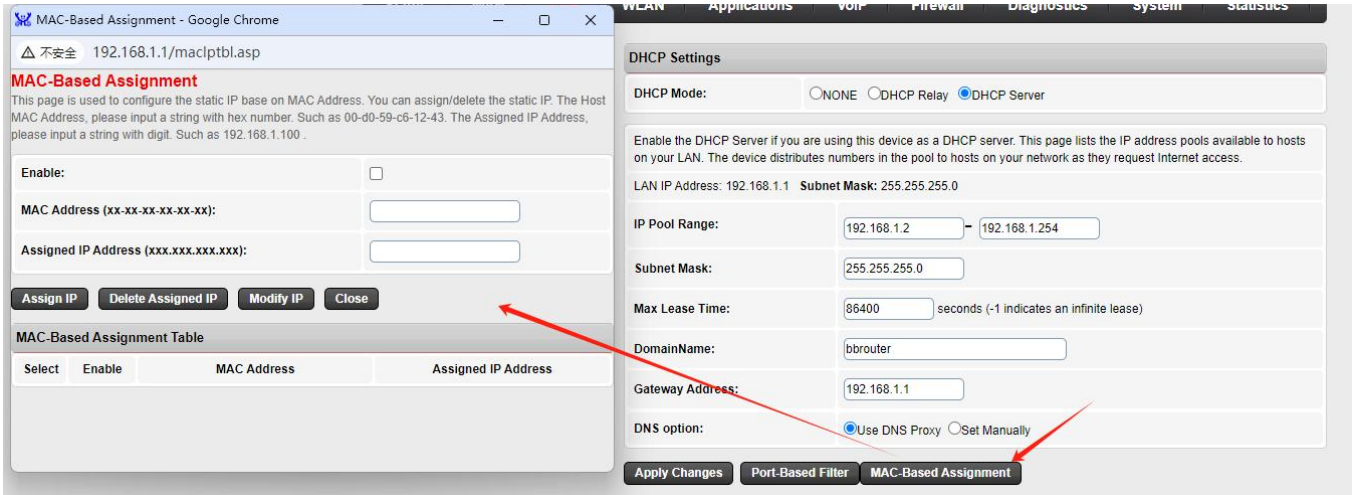


Figure 4-2-3-2 Static IPv4 base on MAC Address

4.2.3.3 LAN IPv6

On this page, you can configure the LAN side IPv6 settings, including enabling or disabling the DHCPv6 server and setting the DHCPv6 address pool allocation mode. This interface allows you to manage IPv6 services and ensure proper addressing and connectivity for devices on your LAN that utilize IPv6 protocol.

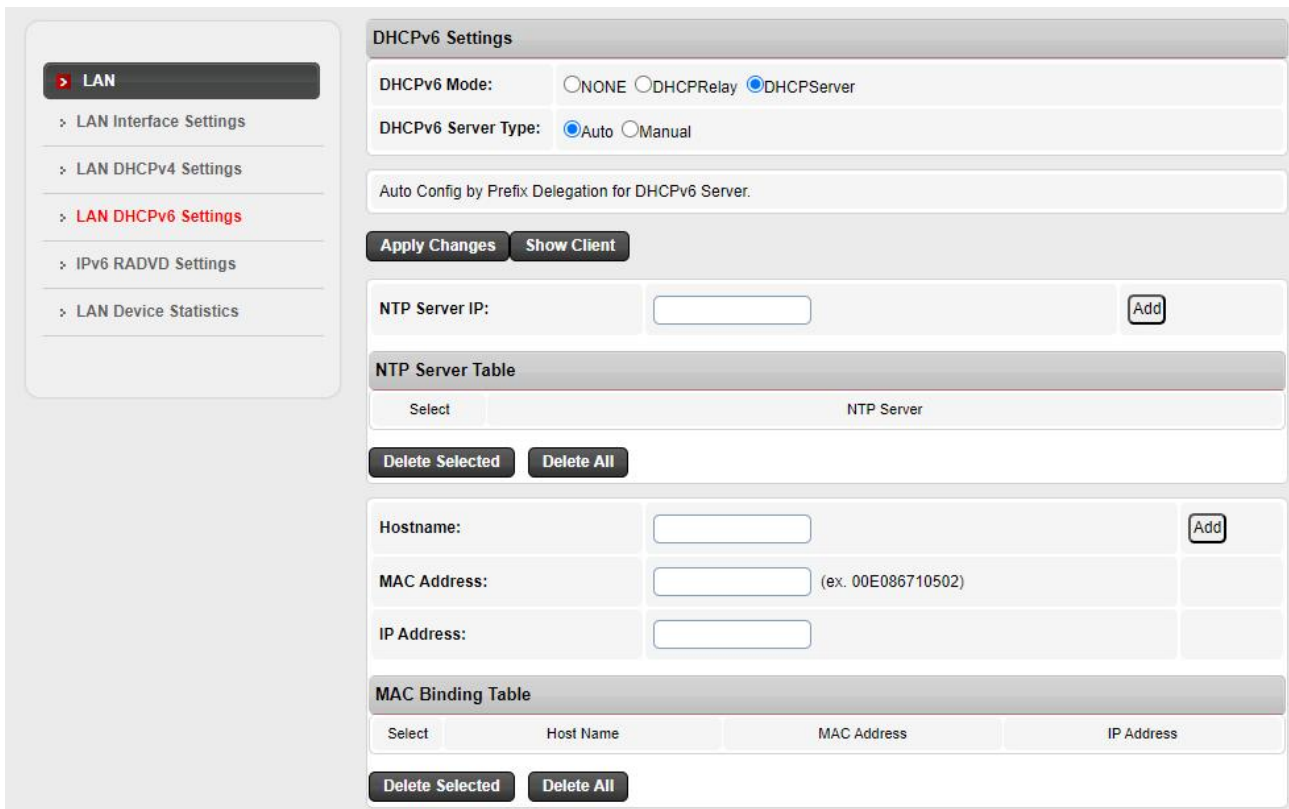


Figure 4-2-3-3 DHCPv6 Settings

Object	Description
DHCPv6 Mode	If you select dhcp server mode, the router serves as the DHCP server and

	automatically assigns IPv6 addresses to all computers in the LAN.
DHCPv6 Server Type	Auto Config by Prefix Delegation for DHCPv6 Server. Enable the DHCPv6 Server if you are using this device as a DHCPv6 server. This page lists the IP address pools available to hosts on your LAN. The device distributes numbers in the pool to hosts on your network as they request Internet access.

4.2.3.4 LAN IPv6 RADVD

On this page, you can configure the IPv6 Router Advertisement Daemon (RADVD) settings, which control the IPv6 allocation methods on the LAN side. This includes options such as "Stateful DHCP," "Stateless DHCP," "SLAAC" (Stateless Address Autoconfiguration), as well as the management of other prefixes. These settings are essential for determining how IPv6 addresses and prefixes are assigned to devices within your local network.

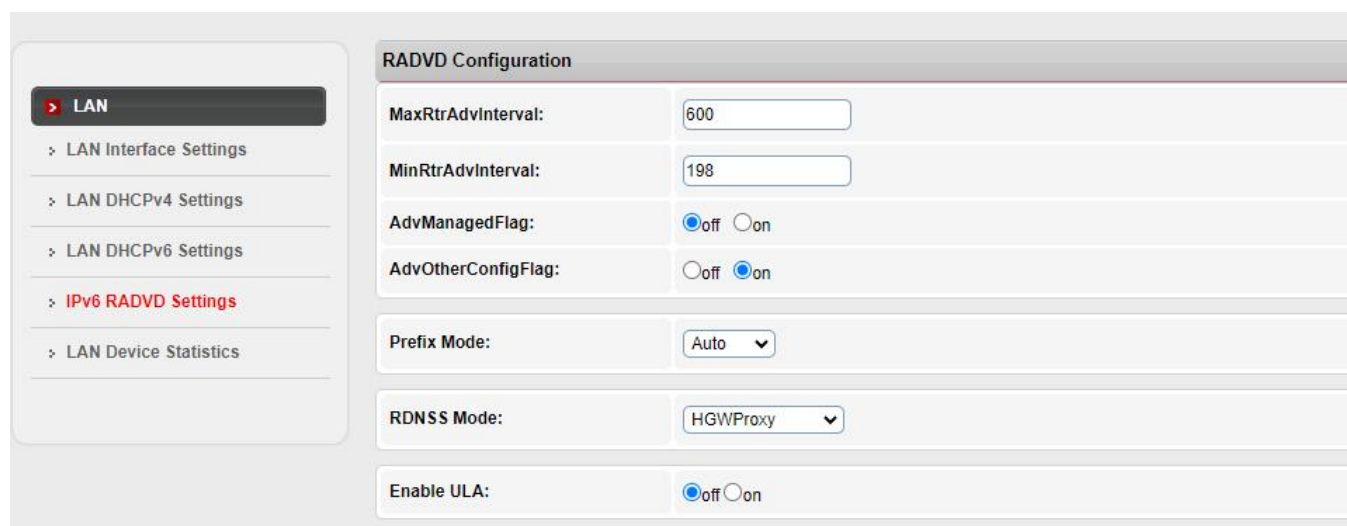


Figure 4-2-3-4 IPv6 RADVD

Object	Description
MaxRtrAdvInterval	Enter the max retry advertisement interval.
MinRtrAdvInterval	Enter the min retry advertisement interval.
AdvManagedFlag	Enable or disable the advertisement managed flag.
AdvOtherConfigFlag	Enable or disable the advertisement other config flag.
Prefix Mode	Select the Proefix mode Auto or Manual.
Enable ULA	Enable or disable the ULA.

4.2.4 Wi-Fi

4.2.4.1 Basic Settings

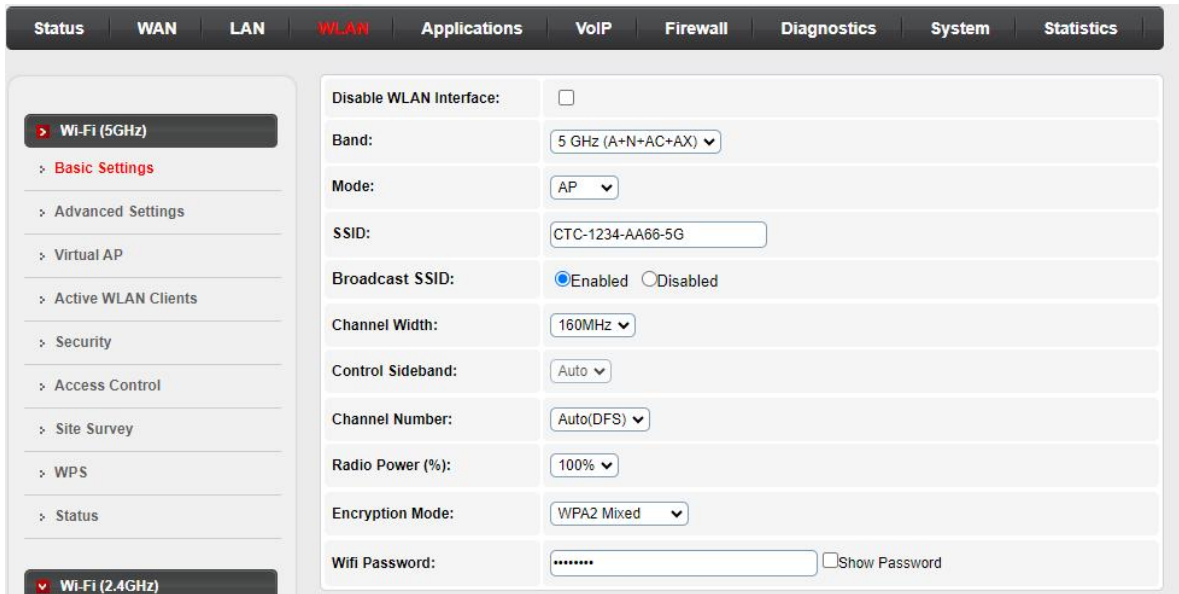


Figure 4-2-4-1-1 Basic settings(5G)

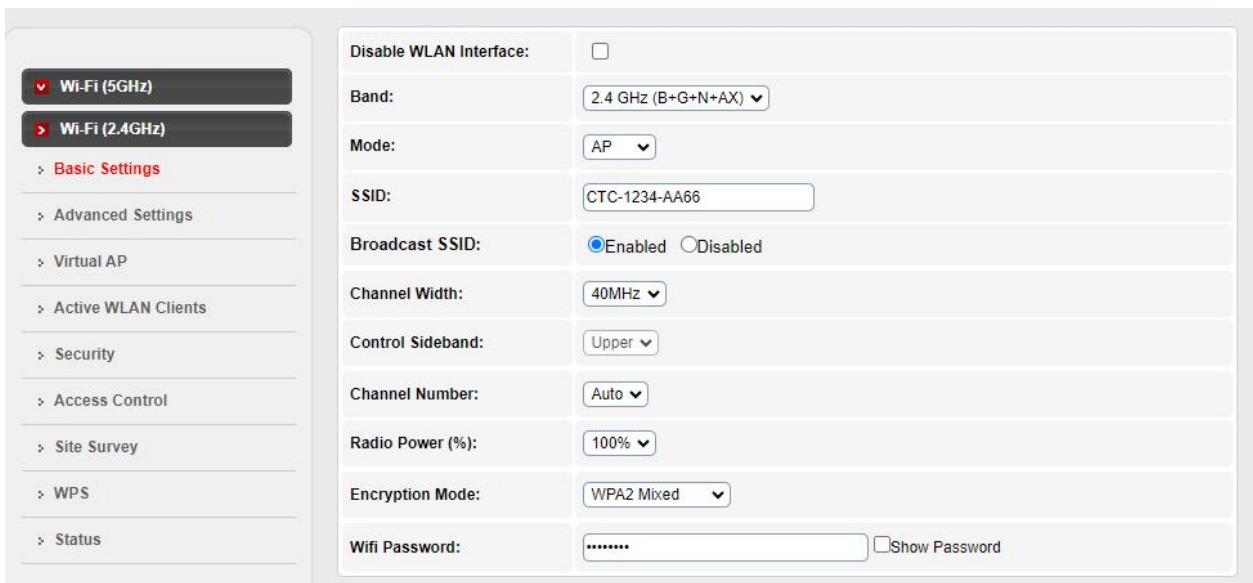


Figure 4-2-4-1-2 Basic settings(2.4G)

Object	Description
Disable WLAN Interface	You may choose to enable or disable Wireless function.
Band	Set the wireless mode to which you need. Default is “ Mixed 802.11a/n/ac/ax ”. It is strongly recommended that you set the Band to “802.11a/n/ac/ax”, and all of 802.11a, 802.11n, and 802.11ac wireless stations can connect to the GPON
Mode	WLAN working mode, such AP, client.

SSID	Set a name (SSID) for your wireless network. The ID of the wireless network. User can access the wireless network through it only. However, if you switch to Client Mode, this field becomes the SSID of the AP you want to connect with.
Channel Width	Select a proper channel bandwidth to enhance wireless performance. When there are 11a/n and 11n wireless clients, please select the 802.11n mode of 20/40MHz frequency band.
Channel Number	For an optimal wireless performance, you may select the least interferential channel. It is advisable that you select an unused channel or "Auto" to let device detect and select the best possible channel for your wireless network to operate on from the drop-down list.
Radio Power	You can control the transmission power of the wireless signals.
Encryption Mode	You can set the Encryption Mode for your wireless network, choosing from various security protocols to protect your data and ensure a secure connection.
Wifi Password	You can set the Wi-Fi password for your wireless network, which is essential for restricting access to authorized users and maintaining network security.

4.2.4.2 Advanced Settings

These settings are only for more technically advanced users who have a sufficient knowledge about WLAN. These settings should not be changed unless you know what effect the changes will have on your Access Point.

WLAN Advanced Settings

These settings are only for more technically advanced users who have a sufficient knowledge about WLAN. These settings should not be changed unless you know what effect the changes will have on your Access Point.

Beacon Interval:	<input type="text" value="100"/> (100-1024 ms)
DTIM Period:	<input type="text" value="1"/> (1-255)
Data Rate:	<input type="text" value="Auto"/>
Preamble Type:	<input checked="" type="radio"/> Long Preamble <input type="radio"/> Short Preamble
Broadcast SSID:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Client Isolation:	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
Aggregation:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Short GI:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Multicast to Unicast:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Band Steering:	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled <input type="text" value="Prefer 5GHz"/>
OFDMA:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
WMM Support:	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled
802.11k Support:	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled

Figure 4-2-4-2 Advanced Settings

4.2.4.3 Virtual AP

On this page, you can configure virtual Access Points (APs), allowing you to set up multiple SSIDs for user connections. This feature also enables the isolation of SSIDs from each other, providing separate network environments for different users or purposes, which enhances security and network management.

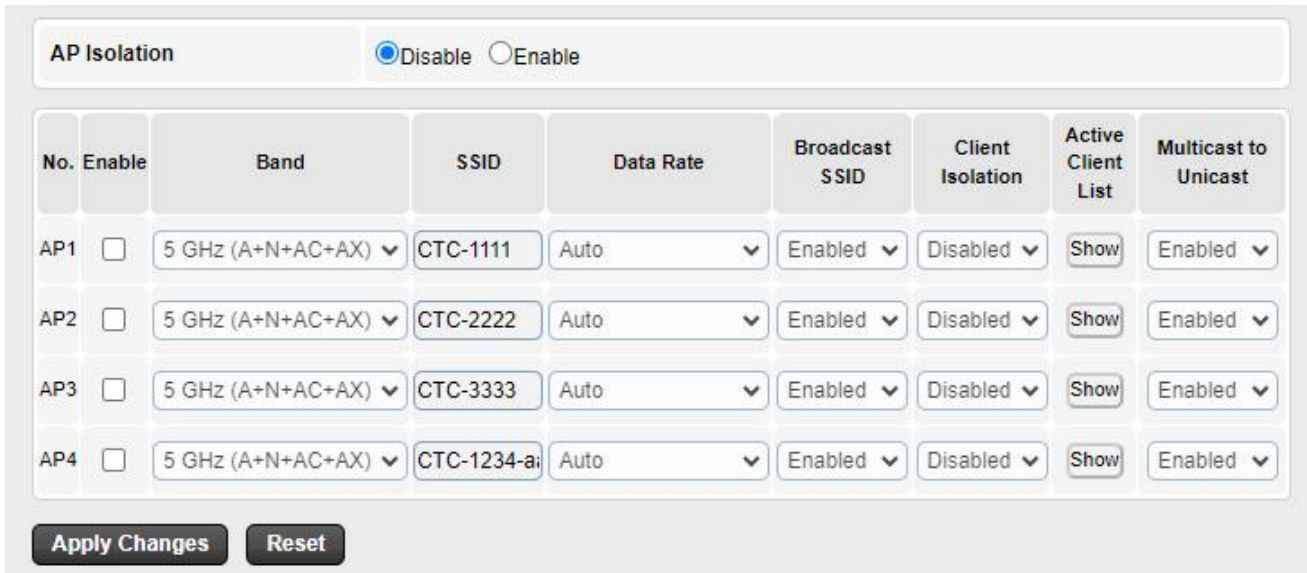


Figure 4-2-4-3 Virtual AP

4.2.4.4 Active WLAN Clients

This page displays the MAC address, transmission, reception packet counters, and encrypted status for each associated WLAN client.

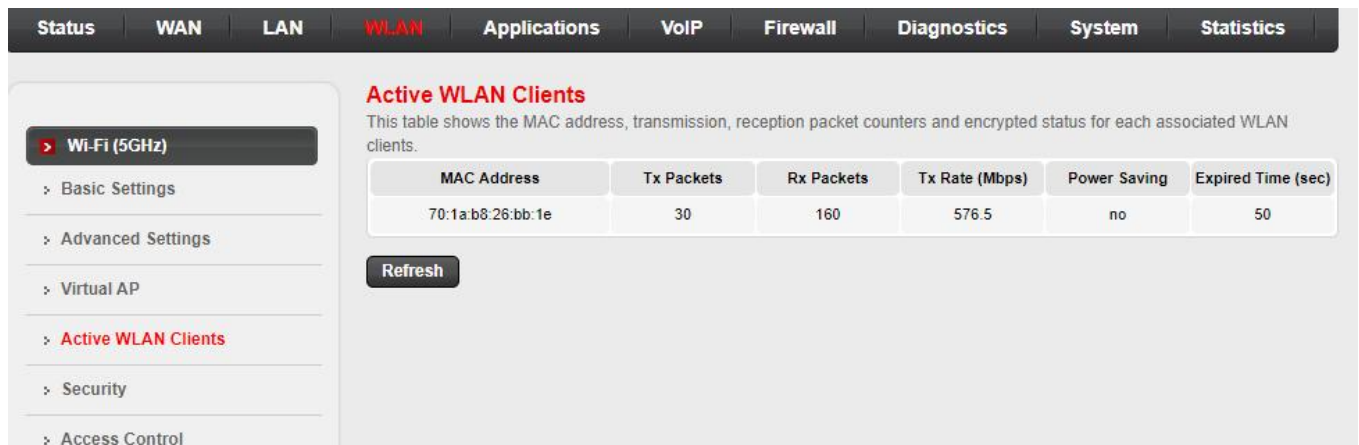


Figure 4-2-4-4 WLAN Clients

4.2.4.5 WLAN Security

On this page, you can configure the WLAN security settings. Enabling WEP or WPA with the use of encryption keys helps prevent unauthorized access to your wireless network.

Figure 4-2-4-5 WLAN Security

Object	Description
SSID Type	Select a name (SSID) for your wireless network.
Encryption	Select the security mode from the Encryption dropdown list. There are 6 options in the Security Mode dropdown list: <ul style="list-style-type: none"> ■ NONE ■ WEP ■ WPA2 ■ WPA2-Mixed ■ WP3 ■ WPA3 Transition
Pre-Shared Key	Enter the Wi-Fi password

4.2.4.6 Access Control

On this page, you have the capability to finely control access to your wireless network, enhancing its security by managing which devices are permitted or denied connection based on their MAC addresses.

Figure 4-2-4-6 Wi-Fi ACL

Object	Description
--------	-------------

Wireless ACL Mode	If you choose 'Allowed Listed', only those clients whose wireless MAC addresses are in the access control list will be able to connect to your Access Point. When 'Deny Listed' is selected, these wireless clients on the list will not be able to connect the Access Point.
MAC Address	The MAC address of the client.

4.2.4.7 WLAN Site Survey

This page provides tool to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it manually when client mode is enabled.

WLAN Site Survey
This page provides tool to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it manually when client mode is enabled.

SSID	BSSID	Channel	Type	Encryption Mode	Signal(%)
ChinaNet-3955-5G	8c:ee:fd:76:9d:77	44 (A+N+AC+AX) 160MHz	AP	WPA2-PSK	67
test555555cd	3c:33:32:48:bc:44	44 (A+N+AC) 80MHz	AP	WPA2-PSK	66
dlink-BE981-1122	dc:a3:13:00:31:22	36 (A+N+AC+AX) 160MHz	AP	WPA2-PSK	65
simple-5G	22:3e:0c:96:3c:b8	44 (A+N+AC+AX) 160MHz	AP	WPA2-PSK	60
dlink-BE361V-f3b7	00:5a:32:e5:03:b7	36 (A+N+AC+AX) 160MHz	AP	WPA2-PSK	59
dlink-BE361V-f3b7	7a:b4:a3:b5:00:18	36 (A+N+AC+AX) 160MHz	AP	WPA2-PSK	59
	7a:b4:a3:b5:00:19	36 (A+N+AC+AX) 160MHz	AP	WPA3	59
	6a:5a:32:e5:03:b0	36 (A+N+AC+AX) 160MHz	AP	WPA3	59
SMART_RTR_5_cdc	48:c8:62:50:2b:4e	48 (A+N+AC) 80MHz	AP	WPA2-PSK	57
AAAguoqing	a0:9f:7a:6a:19:5b	48 (A+N+AC+AX) 160MHz	AP	WPA3/WPA2-PSK	56
MikroTik-6380CC-5G	dc:2c:6e:63:80:cc	40 (A+N+AC) 80MHz	AP	WPA2-PSK	55
dlink-BE981-1000	a0:9f:7a:36:30:00	36 (A+N+AC+AX) 160MHz	AP	WPA3/WPA2-PSK	52
OpenWrt_Simple_5G	20:76:93:55:3d:d4	36 (A+N+AC) 80MHz	AP	WPA2-PSK	52
Guozhi_S_5G	d4:84:09:74:c8:99	36 (A+N+AC) 160MHz	AP	WPA2-PSK	52

Figure 4-2-4-7 Wi-Fi Site Survey

Figure 4-2-4-7 displays the list of nearby Wi-Fi networks that have been scanned. When the device's Wi-Fi mode is set to client mode, you can connect to these SSIDs. After the connection is established, by disabling the device's DHCP server, the LAN-side terminals will obtain IP addresses assigned by the connected SSID.

4.2.4.8 WPS

This page allows you to change the setting for WPS (Wi-Fi Protected Setup). Using this feature could let your WLAN client automatically synchronize its setting and connect to the Access Point in a minute without any hassle.

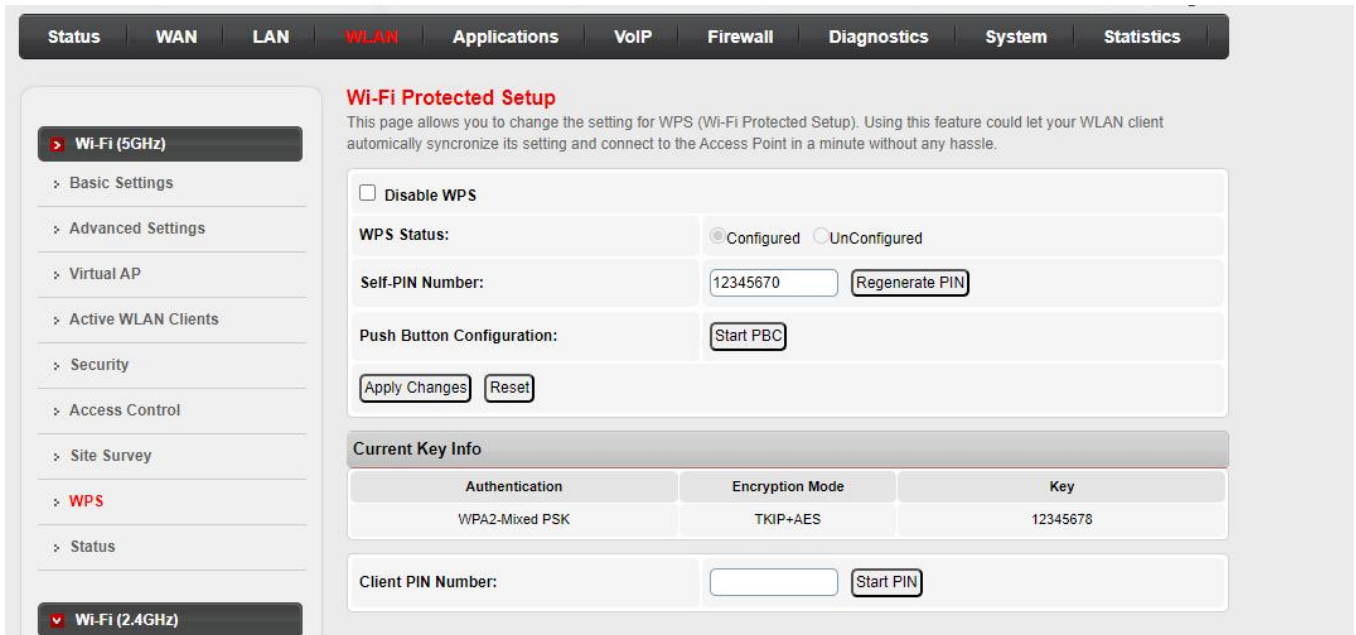


Figure 4-2-4-8-1 Wi-Fi WPS

Object	Description
WPS	This page allows you to change the setting for WPS (Wi-Fi Protected Setup). Using this feature could let your wireless client automatically synchronize its setting and connect to the Access Point in a minute without any hassle.
Disable WPS	Enable or disable WPS function.

Click "Start PBC" to begin WPS. Press the WPS button on the client or select to connect to the WPS-enabled network. The device will automatically pair and connect to the network.

WLAN Configuration		WLAN Configuration	
Mode	AP	Mode	AP
Band	5 GHz (A+N+AC+AX)	Band	2.4 GHz (B+G+N+AX)
SSID	CTC-1234-AA66-5G	SSID	CTC-1234-AA66
Channel Number	36	Channel Number	1
Encryption Mode	WPA2 Mixed	Encryption Mode	WPA2 Mixed
BSSID	00:1e:23:54:aa:67	BSSID	00:1e:23:54:aa:6c
Associated Clients	0	Associated Clients	0

Figure 4-2-4-8-2 Wi-Fi Configuration

4.2.5 Service

4.2.5.1 TR069

This page is used to configure the TR069. Here you may change the setting for the ACS's parameters.

TR-069 Configuration
This page is used to configure the TR-069 CPE. Here you may change the setting for the ACS's parameters.

TR069 Daemon:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
EnableCWMPParamete:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled

ACS

URL:	<input type="text" value="http://"/>
UserName:	<input type="text" value="username"/>
Password:	<input type="text" value="password"/>
Periodic Inform:	<input type="radio"/> Disabled <input checked="" type="radio"/> Enabled
Periodic Inform Interval:	<input type="text" value="300"/>

Connection Request

UserName:	<input type="text"/>
Password:	<input type="text"/>
Path:	<input type="text" value="/tr069"/>
Port:	<input type="text" value="7547"/>

Enable CWMP WAN ACL:	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled <input type="button" value="Apply Changes"/>
IP Address:	<input type="text"/>
Subnet Mask:	<input type="text"/>

Figure 4-2-5-1 TR-069 Configuration

Object	Description
TR069	Enable or disable TR069.
URL	ACS server domain or IP Address.
User Name	User name for connection to ACS.
Password	Password for connection to ACS.
Periodic Inform	Enable or disable periodic inform.
Periodic Inform Interval	Periodic inform interval.
Connection Request User Name	User Name used form ACS connection to TR069.
Connection Request Password	Password used form ACS connection to TR069.
Path	Connection request path.
Port	Connection port.

4.2.5.2 DDNS

The WI-GP1430 device supports Dynamic Domain Name Service (DDNS). This service allows a changing public IP address to be linked with a static hostname across various domains, enabling access to a specific device via

the internet using that hostname. By clicking on a hyperlinked URL in the format of hostname.dyndns.org, remote access to the device can be achieved. Since many Internet Service Providers (ISPs) assign public IP addresses dynamically using DHCP, locating a specific host on the LAN using standard DNS can be challenging. For instance, if you operate a public web server or VPN server on your LAN, DDNS ensures that these servers can be found over the Internet even if the public IP address changes. To utilize DDNS, an account must be established with one of the supported DDNS service providers.

Figure 4-2-5-2 DDNS

Object	Description
DDNS Provider	Select server from the drop-down list <ul style="list-style-type: none"> ■ DynDNS ■ TZO ■ No-IP
Hostname	Enter the host name
Interface	Select the interface
User Name/Email	Enter the user name
Password/Key	Enter the password

4.2.5.3 Routing(IPv4/IPv6)

On this page, you configure static routing by specifying elements like destination IP addresses, subnet masks, and gateway IP addresses for the next hop. This allows you to manually set the path that network traffic takes, overriding the default routing behavior and establishing a more direct or specific route for data to travel through your network.

IPv4 Routing Configuration

This page is used to configure the routing information. Here you can add/delete IP routes.

Enable:	<input checked="" type="checkbox"/>
Destination:	<input type="text"/>
Subnet Mask:	<input type="text"/>
Next Hop:	<input type="text"/>
Metric:	<input type="text"/>
Interface:	Any <input type="button" value="v"/>

Static Route Table

Select	State	Destination	Subnet Mask	Next Hop	Metric	Interface
--------	-------	-------------	-------------	----------	--------	-----------

Figure 4-2-5-3-1 IPv4 Routing

Object	Description
Enable	Static Routing Switch
Destination	Used to specify the IP address range or network for static routing
Next Hop	This is the IP address of the next gateway or router, through which traffic is routed to the destination
Metric	"Metric" in the context of routing refers to a value that quantifies the cost, distance, or priority of a route. It helps the routing process to determine the most efficient path for network traffic when there are multiple routes to the same destination.
interface	Specify which WAN interface this static route should use.
Subnet Mask	Subnet mask for the IPv4 static route's destination IP.

4.2.5.4 IPTV

IGMP Proxy

IGMP proxy enables the system to issue IGMP host messages on behalf of hosts that the system discovered through standard IGMP interfaces. The system acts as a proxy for its hosts when you enable it by doing the follows

IGMP Proxy Configuration

IGMP proxy enables the system to issue IGMP host messages on behalf of hosts that the system discovered through standard IGMP interfaces. The system acts as a proxy for its hosts when you enable it by doing the follows:

- . Enable IGMP proxy on WAN interface (upstream), which connects to a router running IGMP.
- . Enable IGMP on LAN interface (downstream), which connects to its hosts.

IGMP Robust Count:	<input type="text" value="2"/>
Last Member Query Count:	<input type="text" value="2"/>
Query Interval:	<input type="text" value="125"/> (seconds)
Query Response Interval:	<input type="text" value="100"/> (*100ms)
Group leave delay:	<input type="text" value="2000"/> (ms)

Figure 4-2-5-4-1 IGMP Proxy

MLD Proxy

This page be used to configure MLD Proxy.

MLD Proxy Configuration

This page be used to configure MLD Proxy.

Robust Count:	<input type="text" value="2"/>
Query Interval:	<input type="text" value="125"/> (Second)
Query Response Interval:	<input type="text" value="2000"/> (millisecond)
Response Interval of Last Group Member:	<input type="text" value="2"/> (Second)

Figure 4-2-5-4-2 MLD Proxy

Snooping

This page is used to configure IGMP and MLD Snooping, which improves network efficiency by enabling the device to monitor and manage multicast traffic, reducing the unnecessary proliferation of multicast packets to ports without interested receivers.

IGMP && MLD Snooping Configuration

This page be used to configure IGMP && MLD Snooping.

IGMP && MLD Snooping: Disable Enable

Apply Changes

Figure 4-2-5-4-3 MLD Proxy

When you intend to utilize IPTV services and your set-top box on the LAN side needs to play multicast video streams, make sure that the WAN connection is configured for IPTV service, and that IGMP Proxy and IGMP Snooping are checked, along with port binding as illustrated in Figure 4-2-5-4-4.

Connection Type:	<input type="text" value="IPTV"/>			
MTU: [1280-1500]	<input type="text" value="1500"/>			
Default Route:	<input checked="" type="radio"/> Disable <input type="radio"/> Enable			
Enable IGMP-Proxy:	<input checked="" type="checkbox"/>			
Enable MLD-Proxy:	<input checked="" type="checkbox"/>			
IP Protocol:	<input type="text" value="IPv4"/>			
WAN IP Settings:				
Type:	<input type="radio"/> Fixed IP <input checked="" type="radio"/> DHCP			
Local IP Address:	<input type="text"/>			
Gateway:	<input type="text"/>			
Subnet Mask:	<input type="text"/>			
IP Unnumbered:	<input type="checkbox"/>			
Request DNS:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable			
Primary DNS Server:	<input type="text"/>			
Secondary DNS Server :	<input type="text"/>			
V6inV4 Tunnel settings:				
Tunnel Type:	<input type="text" value="None"/>			
Port Binding:				
<input type="checkbox"/> LAN_1	<input type="checkbox"/> LAN_2	<input checked="" type="checkbox"/> LAN_3	<input type="checkbox"/> LAN_4	null

Figure 4-2-5-4-4 Check the necessary options

4.2.6 VOIP



Please note, to use VOIP services, you must ensure that the WAN connection includes VOIP service capability. Only then can you utilize VOIP services.

4.2.6.1 Basic Settings

This page is used to configure the VOIP Proxy server and the SIP basic info.

Main Proxy	
Proxy Addr:	192.168.100.152
Proxy Port:	5060
Outbound Proxy Enable:	<input type="checkbox"/>
Outbound Proxy Addr:	
Outbound Proxy Port:	5060
SIP Domain:	
Reg Expire (sec):	3600
Enable Session timer:	<input checked="" type="checkbox"/>
Session Expire (sec):	1800
SIP protocol:	Soft Switch SIP
Backup Proxy	
Backup SIP Enable:	<input type="checkbox"/>
Line 1 Account	
Enable	<input checked="" type="checkbox"/>
Subscriber Number:	100
User Account:	100
User Password:	***
Line 2 Account	
Enable	<input checked="" type="checkbox"/>
Subscriber Number:	101
User Account:	101
User Password:	***

Figure 4-2-6-1-1 VOIP Basic Setting

On this page, you typically need to enter the correct Proxy Address and port for both voice port 1 and voice port 2, and then fill in the correct account password for each. Once these settings are correctly configured for both ports, VOIP registration should be successful for both voice ports.

Register Status		
Port	Number	Status
1	100	Registered
2	101	Registered

Figure 4-2-6-1-2 VOIP registration successful

4.3 Firewall

4.3.1 ACL

This page is used to configure the IP Address for Access Control List. If ACL is enabled, only the IP address in the ACL Table can access CPE. Here you can add/delete the IP Address.

ACL Configuration
This page is used to configure the IP Address for Access Control List. If ACL is enabled, only the IP address in the ACL Table can access CPE. Here you can add/delete the IP Address.

ACL Capability: Disable Enable Apply Changes

Enable:

Interface: LAN ▾

Start IP Address:

End IP Address:

Common ApplicationsName	LAN
Any	<input type="checkbox"/>
TELNET	<input type="checkbox"/>
FTP	<input type="checkbox"/>
TFTP	<input type="checkbox"/>
HTTP	<input type="checkbox"/>
HTTPS	<input type="checkbox"/>
PING	<input checked="" type="checkbox"/>

Add

ACL Table					
Select	State	Interface	IP Address	Applications	Port
<input type="checkbox"/>	Enable	LAN	192.168.1.2-192.168.1.254	telnet,web,ping	23,80,--
<input type="checkbox"/>	Enable	WAN	1.1.1.1-255.255.255.254	web,ping	80,--

Figure 4-3-1 ACL Configuration

4.3.2 IP/Port Filtering

Entries in this table are used to restrict certain types of data packets through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

IP/Port Filtering

Entries in this table are used to restrict certain types of data packets through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

Outgoing Default Action: Deny Allow

Incoming Default Action: Deny Allow

Apply Changes

Direction: Protocol: Rule Action: Deny Allow

Source IP Address: Subnet Mask: Port: -

Destination IP Address: Subnet Mask: Port: -

Add

Current Filter Table								
Select	Direction	Protocol	Source IP Address	Source Port	Destination IP Address	Destination Port	Interface	Rule Action
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/>								

Figure 4-3-2 IP/Port Filtering

4.3.3 Port Forwarding

Entries in this table allow you to automatically redirect common network services to a specific machine behind the NAT firewall. These settings are only necessary if you wish to host some sort of server like a web server or mail server on the private local network behind your Gateway's NAT firewall.

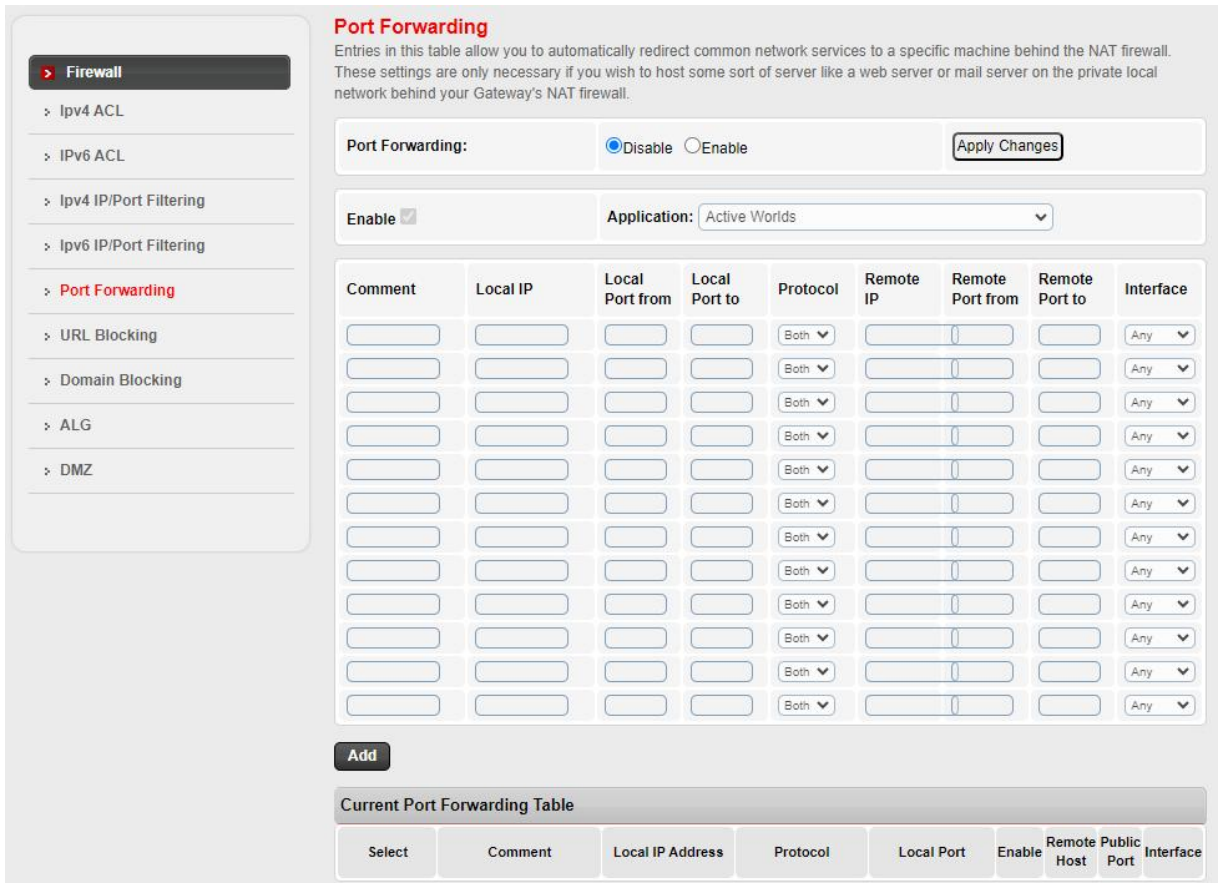


Figure 4-3-3 Port Forwarding

4.3.4 URL Blocking

This page is used to configure the Blocked FQDN(Such as tw.yahoo.com) and filtered keyword. Here you can add/delete FQDN and filtered keyword.

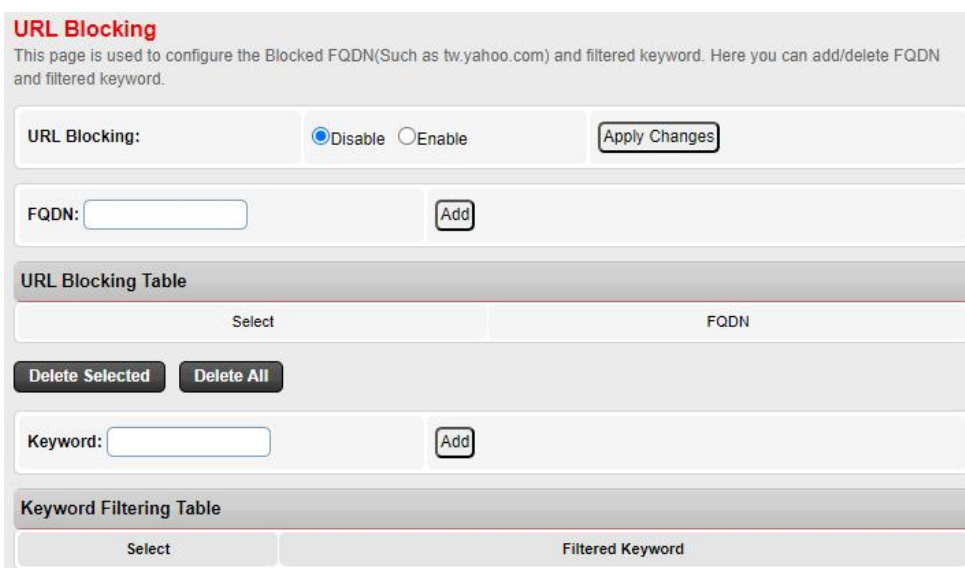


Figure 4-3-4 URL Blocking

4.3.5 Domain Blocking

This page is used to configure the Blocked domain. Here you can add/delete the blocked domain.

Domain Blocking Configuration
This page is used to configure the Blocked domain. Here you can add/delete the blocked domain.

Domain Blocking: Disable Enable

Domain:

Select	Domain

Figure 4-3-5 Domain Blocking

4.3.6 ALG

On this page, you can configure Application Layer Gateway (ALG) settings, which help manage traffic for specific applications like FTP and SIP by analyzing packet contents and enabling communication through the device.

ALG Type	Status
FTP	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
TFTP	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
H323	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
RTSP	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
L2TP	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
IPSec	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
SIP	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
PPTP	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

Figure 4-3-6 ALG

4.3.7 DMZ

On this page, you can configure the DMZ (Demilitarized Zone) settings. Once DMZ is enabled and the local IP address of a device is entered, external access to that device can be achieved by accessing the WI-GP1430 WAN IP address combined with the port number, which directs to the corresponding local IP terminal on its specific port.

Configuration	
DMZ Host:	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
DMZ Host IP Address:	<input type="text" value="192.168.1.2"/>
Apply Changes	

Figure 4-3-7 DMZ Configuration

4.4 Diagnostics

4.4.1 Ping/Ping6 Diagnostics

On this page, you can initiate ping diagnostics for IPv4 and IPv6 addresses, and view the results.

Ping Diagnostics
This page is used to send ICMP ECHO_REQUEST packets to network host. The diagnostic result will then be displayed.

Host Address:	<input type="text" value="www.baidu.com"/>
WAN Interface:	<input type="text" value="Any"/>

```

PING www.baidu.com (183.2.172.185): 56 data bytes
64 bytes from 183.2.172.185: seq=0 ttl=51 time=35.780 ms
64 bytes from 183.2.172.185: seq=1 ttl=51 time=32.180 ms
64 bytes from 183.2.172.185: seq=2 ttl=51 time=33.226 ms
64 bytes from 183.2.172.185: seq=3 ttl=51 time=35.379 ms
--- www.baidu.com ping statistics ---
4 packets transmitted, 4 packets received, 0% packet loss
round-trip min/avg/max = 32.180/34.141/35.780 ms

```

Figure 4-4-1-1 Ping Diagnostics

Ping6 Diagnostics
This page is used to send ICMPv6 ECHO_REQUEST packets to network host. The diagnostic result will then be displayed.

Host Address:	<input type="text"/>
WAN Interface:	<input type="text" value="Any"/>

Start

Figure 4-4-1-2 Ping6 Diagnostics

4.4.2 Traceroute Diagnostics

This page is used to print the route packets trace to network host. The diagnostic result will then be displayed.

Traceroute Diagnostics
This page is used to print the route packets trace to network host. The diagnostic result will then be displayed.

Protocol:	ICMP ▾
Host Address:	<input type="text"/>
Number Of Tries:	<input type="text" value="3"/>
Time out:	<input type="text" value="5"/> s
Data Size:	<input type="text" value="56"/> Bytes
DSCP:	<input type="text" value="0"/>
Max HopCount:	<input type="text" value="30"/>
WAN Interface:	Any ▾

Figure 4-4-2-1 Traceroute Diagnostics

Traceroute6 Diagnostics
This page is used to print the route packets trace to network host. The diagnostic result will then be displayed.

Host Address:	<input type="text"/>
NumberOfTries:	<input type="text" value="3"/>
Timeout:	<input type="text" value="5"/> s
Datasize:	<input type="text" value="56"/> Bytes
MaxHopCount:	<input type="text" value="30"/>
WAN Interface:	Any ▾

Figure 4-4-2-2 Traceroute6 Diagnostics

4.5 System

4.5.1 GPON Settings

On this page, you set up the GPON authentication information such as LOID (Logical Operator Identifier), LOID Password, PLOAM (Packet Lambda OAM) Password, and Serial Number. Correctly configuring these credentials is essential for the device to successfully register and communicate with the OLT (Optical Line Terminal).

GPON Settings	
LOID:	<input type="text" value="12345678"/>
LOID Password:	<input type="password"/>
PLOAM Password:	<input type="password"/>
Serial Number:	<input type="text" value="GPAC11111135"/> <input checked="" type="checkbox"/> Take effect after reboot

Figure 4-5-1 GPON Settings

4.5.2 Reboot

Commit and Reboot

Commit and Reboot:

Figure 4-5-2 reboot

4.5.3 Backup and Restore Settings

This page allows you to backup current settings to a file or restore the settings from the file which was saved previously. Besides, you could reset the current settings to factory default.

Backup and Restore Settings

This page allows you to backup current settings to a file or restore the settings from the file which was saved previously. Besides, you could reset the current settings to factory default.

Backup Settings to File:	Backup...
Restore Settings from File:	<input type="button" value="选择文件"/> 未选择任何文件 <input type="button" value="Restore"/>
Reset Settings to Default:	<input type="button" value="Reset"/>

Backup Configuration:

Backup Settings to File:	Backup...
--------------------------	-----------

Import Configuration File:

Restore Settings from File:	<input type="button" value="选择文件"/> 未选择任何文件 <input type="button" value="Restore"/>
-----------------------------	---

Restore Factory Settings:

Reset Settings to Default:	<input type="button" value="Reset"/>
----------------------------	--------------------------------------



When you load new configuration, the original configuration will be lost. Please back up the current configuration before loading a new one. In this way, if the new configuration file has an error, you can load the backup file.

4.5.4 System Log

System Log			
System Log:	<input checked="" type="radio"/> Disable <input type="radio"/> Enable		
Log Level:	Notice ▾		
Display Level:	Notice ▾		
Mode:	Local ▾		
Server IP Address:	<input type="text"/>		
Server UDP Port:	<input type="text"/>		
Apply Changes			
Save Log to File:	<input type="button" value="Save..."/>		
Clear Log:	<input type="button" value="Reset"/>		
System Log			
Date/Time	Facility	Level	Message

Figure 4-5-4 System Log

4.5.5 Password Configuration

Password Configuration	
UserName:	admin ▾
Old Password:	<input type="text"/>
New Password:	<input type="text"/>
Confirmed Password:	<input type="text"/>

Figure 4-5-5 Password Configuration

4.5.6 Firmware Upgrade

This page allows you upgrade the firmware to the newer version. Please note that do not power off the device during the upload because this make the system unbootable.

Firmware Upgrade

This page allows you upgrade the firmware to the newer version. Please note that do not power off the device during the upload because this make the system unbootable.

选择文件 未选择任何文件

Upgrade Reset

Figure 4-5-6 Firmware Upgrade

4.5.7 Time Zone

This page is for configuring the time display, where you can select different time zones and specify an SNTP server. Be sure to check the "Enable SNTP Client Update" option to synchronize the time with the internet.

Time Zone Configuration	
Current Time :	Year 2024 Mon 10 Day 8 Hour 12 Min 4 Sec 23
Time Zone Select :	Asia/Baghdad (UTC+03:00) ▼
Enable Daylight Saving Time	<input checked="" type="checkbox"/>
Enable SNTP Client Update	<input checked="" type="checkbox"/>
WAN Interface:	Any ▼
SNTP Server 1 :	pool.ntp.org
SNTP Server 2 :	220.130.158.52
Apply Changes Refresh	

Figure 4-5-7 Time Zone