

## AR-7211A V2 / AR-7211B V2



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The product you have purchased and the setup screen may appear slightly different from those shown in this QIG. For more information about this product, please refer to the user manual on the CD-ROM. The software and specifications are subject to change without notice. Please visit our website www.edimax.com for updates. All brand and product names mentioned in this manual are trademarks and/or registered trademarks of their respective holders.

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Note: The images/screenshots used in this manual are for reference only – actual screens may vary according to firmware version. The contents of this manual are based on the most recent firmware version at the time of writing.

## 1. Product Introduction

## 1.1. Package Contents

Before you start using this product, please check if there is anything missing in the package and contact your dealer to claim the missing item(s):

- •ADSL2+ router (AR-7211A V2 or AR-7211B V2)
- Power adapter
- ●1 meter RJ-45 Ethernet cable
- ●1.8M RJ-11 telephone line x 2
- Quick installation guide
- ●CD containing setup wizard, user manual & multi-language QIG

## **1.2.** System Requirements

Recommended system requirements are as follows.

- A 10/100 base-T Ethernet card installed in your PC
- A hub or Switch (connected to several PCs through one of the Ethernet interfaces on the device)
- Operating system: Windows 98 SE, Windows 2000, Windows ME, Windows XP or higher
- Internet Explorer V5.0 or higher, Netscape V4.0 or higher, or Firefox 1.5 or higher

## **1.3.** Safety Precautions

Follow the following instructions to prevent the device from risks and damage caused by fire or electric power:

- Use volume labels to mark the type of power.
- Use the power adapter included within the package contents.
- Pay attention to the power load of the outlet or prolonged lines. An overburdened power outlet or damaged lines and plugs may cause an electric shock or fire. Check the power cords regularly. If you find any damage, replace it at once.
- Proper space left for heat dissipation is necessary to avoid damage caused by overheating to the device. The long and thin holes on the device are designed for heat dissipation to ensure that the device works normally. Do not cover these heat dissipation holes.

- Do not put this device close to heat sources or high temperatures. Keep the device out of direct sunshine.
- Do not put this device close to a place where it is damp or wet. Do not spill any fluid on this device.
- Do not connect this device to any PCs or electronic products, other than those which you are instructed or recommended to do so in the product's documentation, by our customer engineers or by your broadband provider – connecting to incorrect devices may cause a fire risk.
- Place this device on a stable surface.

## 1.4. LED & Button Definitions

Front Panel



Figure 1

LEDs	Color	Status	Description	
Ċ	Green	ON	Powered on	
		OFF Powered off		
	Red	<b>ON</b> ADSL broadband initial self-test failed or upgra		
			firmware	
ADSL	Green	<b>ON</b> ADSL line is synchronized and ready to use		
		<b>SLOW</b> ADSL synchronization failed (Please refer to		
		BLINK	1)	
		FAST BLINK	K ADSL negotiation is in progress.	

Internet	Green	ON Internet connected in router mode		
		BLINK	Internet activity (transferring/receiving data) in	
			router mode	
		OFF	Device in bridged mode	
	Red	ON	Internet not connected in router mode	
			(Please refer to <b>Note 2</b> )	
LAN	Green	ON	LAN port connected	
		BLINK	LAN activity (transferring/receiving data)	
		OFF	LAN port not connected	

### 🛄 Note:

1) If the ADSL LED is off, please check your Internet connection. Refer to A . Hardware Installation for more information about how to connect the router correctly. If all connections are correct, please contact your ISP to check if there is a problem with your Internet service.

**2)** If the Internet LED is red, please check your ADSL LED first. If your ADSL LED is off, refer to **Note 1**. If the green ADSL LED is ON, please check your Internet configuration. You may need to check with your ISP that your Internet is configured correctly.

**Rear Panel** 



Figure 2

Items	Description
OFF	Power ON/OFF
5V	Power connector
LAN	Ethernet RJ-45 port
Reset	Resets device to factory defaults (to reset to factory defaults, push a paper clip into the hole when the device is powered and hold for more than 10 seconds)
Reset	the hole when the device is powered and hold for more than 10 seconds)
Line	Line RJ-11 port

## 1.5. Features

The device supports the following features:

- Various line modes
- External PPPoE dial-up access
- Internal PPPoE/PPPoA dial-up access
- 1483Briged/1483Routed/MER/IPoA access
- Multiple PVCs (up to eight) which can be isolated from each other
- A single PVC with multiple sessions
- Multiple PVCs with multiple sessions
- 802.1Q and 802.1P protocol
- DHCP server
- NAPT
- Static route
- Firmware upgrading through Web, TFTP, or FTP
- Reset to factory defaults with reset button or web-based interface.
- DNS
- Virtual server
- DMZ
- Two-level passwords and usernames
- Web interface
- Telnet CLI
- System status display
- PPP session PAP/CHAP
- IP filter
- IP quality of service (QoS)
- Remote access control
- Line connection status test
- Remote managing through Telnet or HTTP
- Backup and restoration of configuration file
- Ethernet interface supporting crossover detection, auto-correction, and polarity correction
- Universal plug and play (UPnP)

## 2. Hardware Installation

## Step 1. Connect the ADSL line

Connect the Line interface of the device to the Modem interface of a splitter using a telephone cable. Connect a telephone to the Phone interface of the splitter using a telephone cable. Connect the Line interface of the splitter to your existing, incoming line.

The splitter has three interfaces:

- Line: Connect to a wall phone jack (RJ-11 jack).
- Modem: Connect to the ADSL jack of the device.
- Phone: Connect to a telephone set.

### **Step 2. Connect the router to your LAN network**

Connect the LAN interface of the router to your PC, Hub or Switch using an Ethernet cable (MDI/MDIX).

### III Note:

Use twisted-pair Ethernet cables to connect the router to a hub or switch.

### Step 3. Connect the power adapter to the router

Plug one end of the power adapter into a wall outlet and connect the other end to the 5V interface of the device.

The following diagrams show how to correctly connect the router, PC, splitter and the telephone sets under two different configurations:

## **Configuration 1**

**0** shows the correct connection of the router, PC, splitter and the telephone sets, with no telephone set placed before the splitter.



Figure 1 – No telephone before the splitter

## **Configuration 2**

**0** shows the correct connection when a telephone set is installed before the splitter.



D Note:

When **Configuration 2** is used, the filter must be installed close to the telephone cable. Do not use the splitter to replace the filter.

Installing a telephone directly before the splitter may lead to failure of connection between the device and the central office, or failure of Internet

access, or slow connection speed. If you really need to add a telephone set before the splitter, you must add a micro filter before a telephone set. Do not connect several telephones before the splitter or connect several telephones with the micro filter.

## Step 4. Check the ADSL LED status

Please check the ADSL LED on the front panel. This light indicates the status of your ADSL broadband through your telephone line. If the light is on, you can continue setup. However if the light is flashing, there is no broadband line detected. Please call your Internet Service Provider (ISP) and inform them about the flashing ADSL light to resolve the issue.

### Step 5. Firewall settings

Please turn off all personal firewalls before you continue the setup – firewalls can block communication between your PC and router.

# Note: You must use the power adapter included in the package with the router, do NOT attempt to use a third-party power adapter.

## Step 6: PC LAN IP configuration

Configure your PC's LAN settings to automatically obtain an IP address from the router by following the steps below:

1. Click "Start" and then select "Control Panel".



2. Click **"Switch to Classic View"** in the top left to show additional setting icons.

a category	
uppersonance and 🛛 🌮	Printery and Other Hardware
etwork and Internet	they Accounts
ukt for Romove	Date, fime, Langua and Regional Optics
wands, Speech, and 🔥	Accessibility Option
verformance and 💓	Security Center

3. Locate the **"Network Connections"** icon and double-click to open network connection settings.



4. Select the **"Local Area Connection"** icon and right-click it to open the submenu, then select **"Properties"**.



5. Select "Internet Protocol (TCP/IP)" and then click "Properties"

1	Local Area Connection Properties
	General Authentication Advanced
	Connectusing:
	AMD PCNET Family PCI Ethemet Adap
	This connection uses the following items:
	Client for Microsoft Networks  File and Printer Sharing for Microsoft Networks  GoS Packet Scheduler  Stemmet Protocol (TCP)(P)
	Description
Internet Pr	otocol (TCP/IP) mmunication across
	Show icon in notification area when connected Notify me when this connection has limited or no connectivity
l	OK Cancel

6. Ensure that **"Obtain an IP address automatically"** and **"Obtain DNS server address automatically"** are selected and then press **"OK"**.



## 3. IP Address Setting

To use the router to access the Internet, the PCs in the network must have an Ethernet adapter installed and be connected to the router either directly or through a hub or switch. The TCP/IP protocol of each PC has to been installed and the IP Address of each PC has to be set in the same subnet as the router.

The router's default IP Address is **192.168.2.1** and the subnet mask is **255.255.255.0**. PCs can be configured to obtain IP Address automatically through the DHCP Server of the router or a fixed IP Address in order to be in the same subnet as the router. By default, the DHCP Server of the router is enabled and will dispatch IP Address to PC from **192.168.2.100** to **192.168.2.200**. It is strongly recommended to set obtaining IP address automatically.

This section shows you how to configure your PC's so that it can obtain an IP address automatically for either Windows 95/98/Me, 2000 or NT operating systems. For other operating systems (Macintosh, Sun, etc.), please follow the manual of the operating system. The following is a step-by-step illustration of how to configure your PC to obtain an IP address automatically for **Windows 7**, **Windows Vista and Windows XP**.

## 3.1. Windows 7

- 1. Click the Start button and select Control Panel. Double click Network and Internet and click Network and Sharing Center, the Network and Sharing Center window will appear.
- 2. Click Change adapter settings and right click on the Local Area Connection icon and select Properties. The Local Area Connection window will appear.
- 3. Check your list of Network Components. You should see Internet Protocol Version 4 (TCP/IPv4) on your list. Select it and click the Properties button.

4. In the Internet Protocol Version 4 (TCP/IPv4) Properties window, select Obtain an IP address automatically and Obtain DNS server address automatically as shown on the following screen.

eneral	Alternate Configuration				
this cap	get IP settings assigned a ability. Otherwise, you nee appropriate IP settings.				
o Ot	tain an IP address automa	tically			
O Us	e the following IP address:				
<u>I</u> P ac	ldress:				
S <u>u</u> bn	et mask:				
Defa	ult gateway:	a.	1	5	
() Ob	tain DNS server address au	utomatically			
Us	e the following DNS server	addresses:			
Prefe	erred DNS server:			,	
<u>A</u> lter	nate DNS server:	*	10		
V	alidate settings upon exit			Adv	anced

5. Click OK to confirm the setting. Your PC will now obtain an IP address automatically from your router's DHCP server.

Note: Please make sure that the router's DHCP server is the only DHCP server available on your LAN.

## 3.2. Windows Vista

- 1. Click the Start button and select Settings and then select Control Panel. Double click Network and Sharing Center, the Network and Sharing Center window will appear.
- 2. Click Manage network connections and right click on the Local Area Connection icon and select Properties. The Local Area Connection window will appear.

- 3. Check your list of Network Components. You should see Internet Protocol Version 4 (TCP/IPv4) on your list. Select it and click the *Properties* button.
- 4. In the Internet Protocol Version 4 (TCP/IPv4) Properties window, select *Obtain an IP address automatically* and *Obtain DNS server address automatically* as shown on the following screen.

	Alternate Configuration				
this cap	get IP settings assigned au ability. Otherwise, you nee appropriate IP settings.				
<u>o</u>	tain an IP address automat	ically			
O Us	e the following IP address:				
<u>I</u> P ad	ldress:	+	<u>.</u>	+	
Sybn	et mask:				
<u>D</u> efa	ult gateway;	i e			
o ot	tain DNS server address au	tomatically			
🔘 Us	e the following DNS server	addresses:			
Prefe	erred DNS server:	1	ia.	14	
1000000	nate DNS server:				

5. Click OK to confirm the setting. Your PC will now obtain an IP address automatically from your router's DHCP server.

## Note: Please make sure that the router's DHCP server is the only DHCP server available on your LAN.

## 3.3. Windows XP

- 1. Click the *Start* button and select *Control Panel* and then double click *Network Connections*. The *Network Connections* window will appear.
- 2. Right click on the *Local Area Connection* icon and select *Properties*. The *Local Area Connection* window will appear.

- 3. Check your list of Network Components. You should see Internet Protocol [TCP/IP] on your list. Select it and click the Properties button.
- 4. In the Internet Protocol (TCP/IP) Properties window, select Obtain an IP address automatically and Obtain DNS server address automatically as shown on the following screen.

Internet Protocol (TCP/IP) Properties					
General Alternate Configuration					
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.					
Obtain an IP address automatica	lly				
OUse the following IP address: —					
IP address:					
S <u>u</u> bnet mask:					
Default gateway:					
Obtain DNS server address auto	matically				
OUse the following DNS server ad	Idresses:				
Preferred DNS server:	· · · ·				
Alternate DNS server:					
	Ad <u>v</u> anced				
	OK Cancel				

5. Click OK to confirm the setting. Your PC will now obtain an IP address automatically from your router's DHCP server.

Note: Please make sure that the router's DHCP server is the only DHCP server available on your LAN.

## 4. EZmax Setup Wizard

You can configure the router by running the setup wizard on the CD-ROM included in the package contents. The wizard enables you to configure your Internet connection, upgrade the firmware and change the router's password. Please follow the instructions below.

Alternatively, if you lose the CD-ROM or prefer a web based setup, you can login to the ADSL router using Internet Explorer, and configure the router from there using the web-based interface. Instructions for how to do so can be found in **5. Web Configuration** 

## 4.1. Setup Wizard

1. When you start the setup wizard, you will see the following screen. Please choose a language and follow the on screen instructions

	≝   @   ơ″	*   @   ```   *	
	English	Русский	
EDIMAX	Routers	www.edimax.com	



2. Please select your product.

Home Wizard ES	SSID Becurity Upgrade	Guick Guide User Manual EXIT
	Product Type	
	AR-7211A V2 AR-7211	B V2
EDIMAX Routers	2	www.edimex.com

3. Please ensure all hardware is correctly installed. Check the box and click "Next"





4. Select your country and ISP. If your ISP is not listed, select "Other" from the list and refer to **4.2. Internet Connection Type.** 

Home Wizard ESSID Security Upgrade	
Internet Connec AR-7211A V2 Configuring Select your country and ISP. If the country or "Others" from the list.	
Country: India ISP: AIRTEL BSNL MTNL TATA INDICOM CONNECT RELIANCE	▼ ▼ Next
Routers	www.edimax.com 🛛 🖄 Contact us

5. Enter your ISP's username and password and click "Apply". On the next screen, click "Apply" again.



6. Please wait while the router connects to the Internet. When the router is connected successfully, you will see the screen below.



## **4.2.Internet Connection Type**



Then select your Internet connection type and click "Next". If you are not sure, please contact your Internet Service Provider (ISP). Depending on your selection, please refer to the appropriate chapter **4.1.1.1**. **PPPOE/PPPOA**, **4.1.1.2**. **Bridge Mode**, **4.1.1.3**. **Dynamic IP Address** or **4.1.1.4**. **Static IP**.

Image: Wizard     Imag
Internet Connection Type AR-7211A V2 Configuring
Please select your Internet Connection Type. If you are not sure, please contact your Internet Service Provider (ISP).
<ul> <li>RPPoE/PPPoA (ISP provides you "Username", "Password" and "VCI")</li> <li>Bridge Mode (ISP provides you "VPI" and "VCI" only)</li> <li>Dynamic IP Address (ISP provides you "VPI" and "VCI" only)</li> <li>Static IP Address (ISP provides you "IP Address eg : 168.95.1.1" and "VPI" )</li> </ul>
Back
NETWORKING ROLLE TOLETHER ROLLETS WWW.edimax.com

Parameter	Description
PPPoE/PPPoA	PPPoE (PPP over Ethernet) and PPPoA (PPP over ATM) are common connection methods used for xDSL.
Bridge Mode	Bridge Mode is a common connection method used for xDSL modems.
Dynamic IP Address	Obtain an IP address automatically from your service provider.
Static IP Address	Uses a static IP address. Your service provider gives a static IP address to access Internet services.

#### 4.2.1.1. PPPoE/PPPoA

Home Wizard ESSID Security	Firmware Upgrade Quick	Guide User Manual EXIT
AR-7211A V2 Configuring	PPPoA	
Enter your ISP's username and pass provided this information to you. Pleas the username or password)		
User Name:		
Password:		
VPI:	[ <u> </u>	(0~255)
VCI:		(32~65535)
Connection Type:	-	
		Back Apply
EDIMAX Routers	9	www.edimax.com

Parameter	Description
User Name	Enter the username exactly as your ISP assigned.
User Manie	Enter the userhame exactly as your ise assigned.
Password	Enter the password that your ISP has assigned to you.
	Virtual path identifier (VPI) is the virtual path between two
	points in an ATM network. Its valid value is in the range of 0
VPI	to 255. Enter the correct VPI provided by your ISP. By default,
	VPI is set to 8.
	Virtual channel identifier (VCI) is the virtual channel between
	two points in an ATM network. Its valid value is in the range
VCI	of 32 to 65535 (0 to 31 is reserved for local management of
	ATM traffic). Enter the correct VCI provided by your ISP. By
	default, VCI is set to 35.
Connection type	Please check with your ISP the method of multiplexing. In
, ,	PPPoE/PPPoA mode, please select "PPPoE LLC", "PPPoE
	VCMUX", "PPPoA LLC" or "PPPoA VCMUX".

\_\_\_\_

## 4.2.1.2. Bridge Mode

Home Wize	Ard ESSID Security Upgrade Quick Guide User Manual EXIT
AR-7211	Bridge Mode
Enter	the Bridge Information of Your ISP
	VPI: (0~255) VCI: (32~65535) Connection Type: -
	Back Apply Routers www.edimax.com 🖄 Contact us
Parameter	Description
VPI	Virtual path identifier (VPI) is the virtual path between two points in an ATM network. Its valid value is in the range of 0 to 255. Enter the correct VPI provided by your ISP. By default, VPI is set to 8.
VCI	Virtual channel identifier (VCI) is the virtual channel between two points in an ATM network. Its valid value is in the range of 32 to 65535 (0 to 31 is reserved for local management of ATM traffic). Enter the correct VCI provided by your ISP. By default, VCI is set to 35.
Connection Type	Please check with your ISP the method of multiplexing. In Bridge Mode, please select "ADSLTYPE_ROUTER_LLC" or "ADSLTYPE_ROUTER_VCMUX".

#### 4.1.1.3. Dynamic IP Address



#### 4.2.1.3. Static IP

Home Wizard	ESSID Security Upgrade Quick Guide User Manual EXIT							
Static IP AR-7211A V2 Configuring								
Enter the Sta	tic IP Address Information of Your ISP							
	VPI:       (0~255)         VCI:       (32~65535)         IP Address:          Subnet mask:          ISP Gateway:          Connction Type:       ▼							
	Back Apply							
	ers www.edimax.com							
NETWORKSNA PEOPLE TOGETHER	ers www.edmax.com							
Parameter	Description							
VPI	Virtual path identifier (VPI) is the virtual path between two points in an ATM network. Its valid value is in the range of 0 to 255. Enter the correct VI provided by your ISP. By default, VPI is set to 8.							
VCI	Virtual channel identifier (VCI) is the virtual channel between two points in an ATM network. Its valid value is in the range of 32 to 65535. (0 to 31 is reserved for local management of ATM traffic) Enter the correct VCI provided by your ISP. By default, VCI is set to 35.							
Static IP Address	Enter the IP Address assigned by your ISP.							
IP Subnet Mask	Enter the Subnet Mask assigned by your ISP.							
Gateway	Enter the Gateway assigned by your ISP.							
Connection Type	Please check with your ISP the method of							
	30							

multiplexing. In Bridge Mode, please select "ADSLTYPE\_ROUTER\_LLC" or "ADSLTYPE ROUTER VCMUX".

## 4.3.Firmware Upgrade

The wizard includes a tool to upgrade the router's firmware. Firmware can be downloaded from the Edimax website, if you wish to upload new firmware, select "Firmware Upgrade" from the menu across the top of the screen.

Home	Wizard ESSID Security Upgrade Quick Guide User Manual EXIT
	Firmware Upgrade AR-7211A V2 Configuring
	To upgrade the firmware, please download the latest firmware from Edimax website. Save and unzip the firmware file to a directory in your computer. Click on "Browse" to browse to the firmware file. Then Click on "Confirm" to start the firmware upgrade.
	Warning: DO NOT interrupt during the upgrade.
	Browse
	After the firmware upgrade, please reset the router back to factory default so that the new firmware can take effect. Then run EZMAX Wizard to setup the router to the internet. All other functions are on top menu.
	Routers www.edimax.com

## 5. Web Configuration

The router can also be configured using the web-based configuration interface. Follow the instructions below.

## 5.1. Accessing the Router

To access the web-based configuration interface:

- 1. Open the Internet Explorer (IE) browser and enter <a href="http://192.168.2.1">http://192.168.2.1</a>.
- 2. In the **Login** page that is displayed, enter the username and password.
  - The username and password of the super user are **admin** and **1234**.
  - The username and password of a common user are **user** and **user**.



If you log in as a super user, the following page will appear. You can check, configure and modify all settings.

atus	Status	Wizard	Network	Service	Advanced	Admin
	Device Info	LAN	WAN	Statistics	ARP	
Device Info	Svete	m Status				
	- Oyster	in otatus				
	This pape s	shows the current st	tatus and some basic	settings of the device	be.	
	This page s	shows the current st	tatus and some basic	settings of the device	5e.	
		shows the current s	tatus and some basic	settings of the device	ж	
	System			-	×	I
			ADSL Route	-		
	System	10		-		
	System Alias Nam	te h:mm:ss)	ADSL Route	-	28	1
	System Alias Nam Uptime(ht	te h:mm:ss) Version	ADSL Route 0 2:13:18	-	*	
	System Alias Nam Uptime(ht Firmware	te h:mm:ss) Version	ADSL Route 0 2:13:18 V1.0.1	-		
	System Alias Nam Uptime(h) Firmware DSP Versi DSL	te tommoss) Version ion	ADSL Route 0 2:13:18 V1.0.1	-		
	System Alias Nam Uptime(ht Firmware DSP Versi	te tismmiss) Version ion nal Status	ADSL Route 0 2:13:18 V1.0.1 2918ac30	-	×	

If you log in as a common user, you can check the status of the router, but not configure most of the settings.

## **5.2.Internet Connection**

The Wizard page of the web-based interface allows easy configuration of the Internet connection and other parameters. The following sections describe the various parameters you can configure – if you wish, you can leave most of the parameters set to their default values.

1. To begin using the wizard, click "Wizard" in the navigation bar across the top of the screen.

Wizard	Status Wizard	Wizard	Network	Service	Advanced	Admin	Diagnostic		
Wizard	Wizard								
			ou through the step ace of the original	-	onfigure your ADSL F	Router.			
		VC Configura							
	up the A	The Virtual Path Identifier (VPI) and Virtual Channel Identifier (VCI) are needed for setting up the ATM PVC.							
	Do not o	change VPI and V	/CI numbers unles:	s your ISP instruc	ts you otherwise.				
	VPI:	8 (0-25	5)						
	VCI:	35 (32-6	5535)						
						Next >			

Field	Description
VPI	Virtual path identifier (VPI) is the virtual path between two points in an ATM network. Its valid value is in the range of 0 to
	255. Enter the correct VPI provided by your ISP. By default, VPI is set to <b>8</b> .
	Virtual channel identifier (VCI) is the virtual channel between two points in an ATM network. Its valid value is in the range of
VCI	32 to 65535. (0 to 31 is reserved for local management of ATM traffic) Enter the correct VCI provided by your ISP. By default, VCI is set to <b>35</b> .

Click **NEXT** to proceed to the next page and select your Internet connection.

**Note:** When subscribing to a broadband service, you should be aware of the method by which you are connected to the Internet. Your physical WAN device can be either PPP, ADSL, or both. The technical information about the properties of your Internet connection is provided by your Internet service provider (ISP). For example, your ISP should inform you whether you are connected to the Internet using a static or dynamic IP address, and the protocol that you use to communicate on the Internet. **If you are unsure about your type of Internet connection, please contact your ISP**.

2. Select your WAN connection type: **PPP over ATM (PPPoA)**, **PPP over Ethernet (PPPoE)**, **1483 MER**, **1483 Routed** or **1483 Bridged** and refer to the appropriate section of the manual accordingly:

#### 5.2.1. PPPoE/PPPoA

III Note: The settings for PPPoA and PPPoE connection types are the same.



#### Set the encapsulation mode to LLC/SNAP and click Next to continue:

Wizard	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	Wizard						
Wizard	WAN IP	Settings					
	Enter info	rmation provided t	o you by your ISP t	to configure the WA	AN IP settings.		
	💽 Obtai	n an IP address ai	utomatically				
	◯ Use t	he following IP add	dress:				
	WAN IF	Address:					
	🗹 Enable	e NAT					
					< Back Next	>	

Field	Description
Obtain an IP address	When this is selected, DHCP assigns IP address for
automatically	the PPPoE connection.
	When this is selected, you need to enter an IP
Use the following IP address	address for the PPPoE connection, which is
	provided by your ISP.
	Check this box to enable network address
	translation (NAT). If you do not select it and wish
Enable NAT	to access the Internet normally, you must add a
	route on the uplink equipment. Usually, it is
	required to enable NAT.

## Click **Next** to continue to the next page:

Wizard	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	Wizard						
Wizard	PPP usu	res below, enter th rname: sword: nection C C Id	ou have a user nam	assword that your l	establish your conne SP has provided to y		
					< Back Next	>	

Field	Description							
PPP Username	Enter the username for PPPoE dial-up, which is							
	provided by your ISP.							
PPP Password	Enter the password for PPPoE dial-up, which is							
rer rasswolu	provided by your ISP.							
	You can select Continuous (recommended), Connect							
	on Demand, or Manual.							
	• <b>Continuous:</b> After dial-up is successful, PPPoE							
DDD Connection Type	connection is always on-line, whether the data is							
PPP Connection Type	being transmitted or not.							
	• Connect on Demand: After dial-up is successful, if							
	no data is transmitted for the preset idle time, the							
	router automatically disconnects the PPPoE							

Field	Description
	connection.
	<ul> <li>Manual: Dial up and disconnect the connection</li> </ul>
	mannually.

## 5.2.2. 1483 MER/1483 Routed

**Note:** The settings for **1483 Routed** and **1483 MER** connection types are the same.

Wizard	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic		
	Wizard								
Wizard	Connection Type								
		e type of network p nstructed you to u		ulation mode over	the ATM PVC that yo	bur			
	WAN Connection Type: OPPP over ATM(PPPoA)								
			OPPP over E	Ethernet(PPPoE)					
			1483 MER						
			O 1483 Route	d					
			O 1483 Bridge	ed					
	Encap	sulation Mode	: LLC/SNAP						
					< Back Next	>			

Set the encapsulation mode to LLC/SNAP and click Next to continue:

Wizard	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	Wizard						
Wizard	WAN IF	<sup>o</sup> Settings					
	Enter info	ormation provided to	o you by your ISP to o	configure the V	VAN IP settings.		
	Obt	ain an IP address a	automatically				
	🔿 Use	the following IP ad	dress:				
	WA	N IP Address: 0	.0.0.0				
	WA	N Netmask: 0	.0.0.0	7			
	Def	ault Gateway: 0	.0.0.0				
	Obt	ain DNS server add	resses automatically				
	🔿 Use	the following DNS	server addresses:	_			
		nary DNS server:					
	Sec	ondary DNS					
	Enab						
					< Back Next 3	>	

Field				Description
Obtain	an	IP	address	When this is selected, DHCP assigns IP address
automat	ically			for the PPPoE connection.
Use the following IP address			address	When this is selected, you need to enter an IP
Field	Description			
--	---			
	address, subnet mask and default gateway for the			
	WAN connection, which is provided by your ISP.			
Obtain DNS server addresses	When selected, DHCP automatically assigns DNS			
automatically	server address.			
Lice the following DNS conver	When selected, you need to manually enter the			
Use the following DNS server addresses	primary DNS server address and secondary DNS			
addresses	server address.			
	Check this box to enable network address			
	translation (NAT). If you do not select it and wish			
Enable NAT	to access the Internet normally, you must add a			
	route on the uplink equipment. Usually, it is			
	required to enable NAT.			

# 5.2.3. 1483 Bridged

Wizard	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
WIZAI G	Wizard						
Wizard	Conne	ection Type					
		ne type of network p instructed you to u		sulation mode over	the ATM PVC that y	DUF	
	WAN	Connection Ty	pe: OPPP over A	ATM(PPPoA)			
			OPPP over E	Ethernet(PPPoE)			
			O 1483 MER				
			1483 Route	ed			
			1483 Bridg	ed			
	Encap	sulation Mode	LLC/SNAP	•			
					< Back Next	>	

# Set the encapsulation mode to LLC/SNAP and click Next to continue:

Wizard	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic					
TT Zur G	Wizard											
Wizard	LAN Interface Setup											
	This page LAN IP: LAN Netr	[	ure the LAN interfac 192.168.2.1 255.255.255.0	e of your ADSL roo ] ]	uter.							
	Enabl	Enable Secondary IP										
	DHCP Server											
	Set and o	Set and configure the Dynamic Host Protocol mode for your device.										
	Enabl	Enable DHCP Server										
	Start IP:	[	192.168.2.100									
	End IP:		192.168.2.199									
	Max Leas	se Time:	1 Day 0	Min 0 M	in							
					< Back Next	>						
	-		0	87								

Field	Description
LAN Interface Setup	
LAN IP	Enter the IP address of the LAN interface. Its valid value is in the range of 192.168.2.1 to 192.168.255.254. The default IP address is <b>192.168.2.1</b> .
LAN Netmask	Enter the subnet mask of the LAN interface. Its valid value is in the range of 255.255.0.0 to 255.255.255.254.
Enable Secondary IP	Check this box to enable the secondary LAN IP. The two LAN IP addresses must be in the different networks.
DHCP Server	
Enable DHCP Server	Check this box to enable DHCP server.
Start IP	Enter the start IP address that the DHCP sever assigns.
End IP	Enter the end IP address that the DHCP server assigns.
Max Lease Time	The lease time determines the period that the PCs retain the assigned IP addresses before the IP addresses change.

Click **Next** to continue to the next page:

Wizard	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic					
	Wizard											
Wizard	Fast Co	onfigure - Sum	nmary									
	"Reset" t	Click "Finish" to save the settings. Click "Back" to make more modifications. Click "Reset" to cancel the settings.										
	The parameters you set:											
	WAN Setup:											
VPI: 8												
VCI: 35												
	Encaps	ulation:	LLC/SNAP									
	Connec	tion Type:	1483 bridge									
	LAN Se	etup:										
	LAN IP:		192.168.2.1 / 2	255.255.255.0								
	Second	ary IP:	0.0.0.0 / 0.0.0.	0								
	DNS Se	rver:	Enable									
	DHCP II	P Range	192.168.2.100	~ 192.168.2.199								
	DHCP L	ease Time	1 Day 0 Hour 0	) Min								
					< Back	Finish Reset						

Click **BACK** to modify the settings. Click **FINISH** to save the settings. Click **RESET** to cancel the settings.

**Note:** After saving the settings in the **Wizard** page, the PVC in the Wizard page replaces that in the **Channel Configuration** page. The preset PVCs in the **Channel Configuration** page do not take effect any more.

# 5.3.Status

In the navigation bar across the top of the screen, click **Status**. The page that is displayed contains **Device Info**, **LAN**, **WAN**, **Statistics** and **ARP**.

#### 5.3.1. Device Info

Choose **Status** > **Device Info**. The page that is displayed shows the current status and some basic settings of the router, such as, uptime, software version, upstream speed, downstream speed and other information.

Status	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic	
outuo	Device Info	LAN	WAN	Statistics	ARP			
Device Info	Syste	m Status	5					
	This page	shows the curren	t status and some I	pasic settings of the	e device.	_		
	System							
	Alias Nar		ADSL R					
	Uptime(h	h:mm:ss)	0 0:14:2	4				
	Firmware	e Version	V2.1.2					
	DSP Vers	sion	2918ac3	0				
	DSL							
	Operatio							
	Upstream	Upstream Speed						
	Downstre	am Speed						

#### 5.3.2. LAN

Choose **Status** > **LAN**. The page that is displayed shows some basic LAN settings of the router. In the **LAN Status** page, you can view the LAN IP address, DHCP server status, MAC address and DHCP client table. To configure the LAN network, refer to chapter **5.4.1LAN**.

LAN	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	Device Info	LAN	WAN	Statistics	ARP		
LAN	LAN	Status					
		e shows basic LAI nfiguration	N settings of the dev	ice.			
	IP Addr	ess	192.168.	2.1			
	Subnet	Mask	255.255.	255.0			
	DHCP S	erver	Enable				
	MAC Ad	dress	00:1F:A4	LDD:CC:9C			
	DHCP CI	ient Table					
	Name	IP Addres	ss M	AC Address	Expiry(s)	Туре	

#### 5.3.3. WAN

Choose **Status** > **WAN**. The page that is displayed shows basic WAN settings of the router. In the **WAN Status** page, you can view basic status of WAN, default gateway, DNS server. If you want to configure the WAN network, refer to the chapter **5.4.2.1. WAN**.

WAN	Status	Wiza	nrd Ne	etwork	Ser	/ice	Advanced	Admin	Diagnostic
	Device Info	l	AN	WAN		Statistics	ARP		
WAN	WAN	State	us						
	This page	e shows s	ome basic WAI	V settings.				-	
	Interface	VPI/VCI	Encapsulation	Default Route	Protocol	IP Addre	ss Gatewa	y Status	
	a0	8/35	LLC	Off	br1483	0.0.0.0	0.0.0.0	) down	]
	DNS Ser	vers							]

#### 5.3.4. Statistics

Choose **Status > Statistics**. The **Statistics** page that is displayed contains **Statistics** and **ADSL Statistics**.

#### 5.3.4.1. Statistics

In this page, you can view the statistics of each network interface.

Statistics	Status	Wizard	Netw	/ork	Service	Advar	nced	Admin	Diagnosti
Statistics	Device Info	LAN		WAN	Statistics		ARP		
Statistics	Statis	tics							
ADSL Statistics	ound								
			et statistics	for transm	ission and recepti	on regardi	ng to		
	network in	terface.							
	Interface	Rx Packet	Rx Error	Rx Drop	Tx Packet	Tx Error	Tx Drop		
	e1	891	0	0	930	0	0		
	a0	0	0	0	0	0	0		
	a1	0	0	0	0	0	0		
	a2	0	0	0	0	0	0		
	a3	0	0	0	0	0	0		
	a4	0	0	0	0	0	0		
	a5	0	0	0	0	0	0		
	a6	0	0	0	0	0	0		
	a7	0	0	0	0	0	0		
	Refresh								

#### 5.3.4.2. ADSL Statistic

Select **ADSL Statistic** in the left pane to view the ADSL line statistics, downstream rate, upstream rate and other information.

ADSL Statistics	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	Device Info	LAN	WAN	Statistics	ARP		
Statistics ADSL Statistics		L Configu	g of the ADSL Route	ər.		-	
	ADSLI	ne Status	ACTIVATING	2			
	ADSL M		ACTIVATING				
	Up Strea						
	Down S						
		tion Down Stream	n(db)				
	Attenua	tion Up Stream(d	b)				
		rgin Down Strea					
	SNR Ma	rgin Up Stream(d	lb)				
	Attainat	le Down Rate					
	Attainat	le Up Rate					
	Vendor	ID	RETK				
	Firmwa	re Version	2918ac30				
	CRC Err						
	Up Strea						
		tream BER					
		ut Power					
		utput Power					
		tream ES					
	Up Strea						
		tream SES					
	Up Strea						
		tream UAS					
	Up Strea	am UAS					
	ADSL R	letrain:	Retrain Refres	sh			
			41				

#### 5.3.5. ARP

Choose **Status** > **ARP**. In the **Arp Table** page, you can view the table that shows a list of learned MAC addresses.

ARP	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	Device Info	LAN	WAN	Statistics	ARP		
ARP	ARP	Table					
	This pag	e shows current A	RP entries by interro	gating the current p	rotocol data.		
		IP Address		MAC Address			
		192.168.2.25		00:22:B0:69:0D	:64		
		192.168.2.1		00:1F:A4:DD:CC	:9C		
	Refresh	1					

# 5.4.Network

In the navigation bar, click **Network**. The **Network** page that is displayed contains **LAN** and **WAN**.

#### 5.4.1. LAN

Choose **Network > LAN**. The **LAN** page that is displayed contains **LAN IP**, **DHCP** and **DHCP Static IP**.

#### 5.4.1.1. LAN IP

Click **LAN IP** in the left pane to see the following page. Here, you can change IP address of the router. The default IP address is 192.168.2.1, which is the private IP address of the router.

Network	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	LAN	WAN					
LAN IP DHCP	LAN	Interface	Setup				
DHCP Static IP			ure the LAN interfac Idresss, subnet ma		uter. Here you may		
	Interfac	e Name:					
	IP Addr	ess:	192.168.2.1				
	Subnet	Mask:	255.255.255.0				
	🗌 Sec	ondary IP					
	Apply	y Changes					
	LAN Po	rt:					
	Link Sp	eed/Duplex Mod					
	Modify	]					
	ETHERN	ET Status Table:					
	Sel		Port	Link I			
	(		LAN	Auto Neg	jotiation		
	MAC Ad	Idress Control:	LAN1 Apply Changes				
	New MA	AC Address:		Add			
	Current	Allowed MAC Ad MAC Addr		lion			

Field	Description				
IP Address	Enter the IP address of LAN interface. It is recommended to use an address from a block that is reserved for private use. This address block is 192.168.2.1-192.168.255.254.				
Subnet Mask	Enter the subnet mask of LAN interface. The range of subnet mask is from 255.255.0.0-255.255.255.254.				
Secondary IP	Select this to enable the secondary LAN IP address. The two LAN IP addresses must be in the different networks.				
LAN Port	You can choose the LAN interface you want to configure.				
Link Speed/Duplex Mode	You can select the following modes from the drop- downlist:100Mbps/FullDuplex,100Mbps/Half Duplex,10Mbps/FullDuplex,10Mbps/Half				

Field	Description
	Duplex, Auto Negotiation.
MAC Address Control	Select this to enable access control based on MAC address. Only a host whose MAC address is listed in the <b>Current Allowed MAC Address Table</b> can access the modem.
Add	Enter a MAC address, and click "Add" to add it to the Current Allowed MAC Address Table.

#### 5.4.1.2. DHCP

Dynamic Host Configuration Protocol (DHCP) allows an individual PC to obtain TCP/IP configuration from a centralized DHCP server. You can configure this router as a DHCP server or disable it. The DHCP server can assign an IP address, IP default gateway and DNS server to DHCP clients. This router can also act as a surrogate DHCP server (DHCP proxy) where it relays IP address assignment from an actual real DHCP server to clients. You can enable or disable DHCP server or DHCP proxy.

Click **DHCP** in the left pane to see the following page:

Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
LAN	WAN					
DHC	P Mode					
(1)Enable address j your netw (2)Enable the LAN. (3)If you LAN IP A DHCP M Interfac IP Pool Subnet Default Max Lea Domain DNS Se	e the DHCP Server pools available to h vork as they reque e the DHCP Relay You can set the D choose "None", th Address:192.168.2 lode: e: Range: Mask: Gateway: ase Time: Name: rvers:	if you are using thi nosts on your LAN. Internet access. if you are using the HCP server ip addr en the modern will of DHCP Server ♥LAN 192.168.2.100 255.255.255.0 192.168.2.1 1440 domain.name	s device as a DHC The device distribu other DHCP serve ess. Jo nothing when th 255.255.255.0 - 192.168.2	P server. This page li: ites numbers in the po er to assign IP addres: e hosts request a IP a	ool to hosts on s to your hosts on address. -	1
C Se	t VendorClass IP	Range				
	LAN DHC This page (1)Enable address j your netw (2)Enable the LAN. (3)If you ( LAN IP A DHCP M Interfac IP Pool Subnet Default Max Lea Domain DNS Se	LAN WAN DHCP Mode This page can be used to c (1)Enable the DHCP Server address pools available to t your network as they reque (2)Enable the DHCP Relay the LAN. You can set the D (3)If you choose "None", th LAN IP Address:192.168.2 DHCP Mode: Interface: IP Pool Range: Subnet Mask: Default Gateway: Max Lease Time: DNS Servers: Apply Changes	LAN WAN DHCP Mode This page can be used to config the DHCP mo (1)Enable the DHCP Server if you are using thi address pools available to hosts on your LAN, your network as they request Internet access. (2)Enable the DHCP Relay if you are using the the LAN. You can set the DHCP server ip addr (3)If you choose "None", then the modem will d LAN IP Address:192.168.2.1 Subnet Mask: DHCP Mode: DHCP Server Interface: IPLCN IP Pool Range: 192.168.2.1 Max Lease Time: 1440 Domain Name: domain.name DNS Servers: 192.168.2.1	LAN       WAN         DHCP Mode         This page can be used to config the DHCP mode:None,DHCP Re (1)Enable the DHCP Server if you are using this device as a DHC address pools available to hosts on your LAN. The device distribuyour network as they request Internet access.         (2)Enable the DHCP Relay if you are using the other DHCP server the LAN. You can set the DHCP server ip address.         (3)If you choose "None", then the modem will do nothing when the LAN. You can set the DHCP server ip address.         (3)If you choose "None", then the modem will do nothing when the LAN. You can set the DHCP Server IP         Interface:       IPLCP Server IP         Interface:       IPLAN         IP Pool Range:       192.168.2, 100 = 192.168.2         Subnet Mask:       255.255.255.0         Default Gateway:       192.168.2, 1         Max Lease Time:       1440 minutes         Domain Name:       domain.name         DNS Servers:       192.168.2, 1	LAN       WAN         DHCP Mode         This page can be used to config the DHCP mode:None,DHCP Relay or DHCP Server.         (1)Enable the DHCP Server if you are using this device as a DHCP server. This page is didress pools available to hosts on your LAN. The device distributes numbers in the pryour network as they request Internet access.         (2)Enable the DHCP Relay if you are using the other DHCP server to assign IP address the LAN. You can set the DHCP server ip address.         (3)If you choose "None", then the modem will do nothing when the hosts request a IP at LAN. IP Address: 192.168.2.1         Subnet Mask:       DHCP Server ♥         Interface:       ♥ LAN         IP Pool Range:       192.168.2.100 - 192.168.2.[199]       Show O         Subnet Mask:       255.255.55.0         Default Gateway:       192.168.2.1       Max Lease Time:         IMAX Lease Time:       1440 minutes         Domain Name:       domain.name         DNS Servers:       192.168.2.1         Apply Changes       Reset	LAN WAN   DHCP Modes This page can be used to config the DHCP mode:None,DHCP Relay or DHCP Server. (I) 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 CAN. The device distributes numbers in the pool to hosts on your CAN. The device distributes numbers in the pool to hosts on your CAN. The device distributes numbers in the pool to hosts on your CAN. The device distributes numbers in the pool to hosts on your CAN. The device distributes numbers in the pool to hosts on the LAN. You can set the DHCP server ip address. (3) If you choose "None", then the modern will do nothing when the hosts request a IP address. (3) If you choose "None", then the modern will do nothing when the hosts request a IP address. (3) If you choose "None", then the modern will do nothing when the hosts request a IP address. (3) If you choose "None", then the modern will do nothing when the hosts request a IP address. (3) If you choose "None", then the modern will do nothing when the hosts request a IP address. (3) If you choose "None", then the modern will do nothing when the hosts request a IP address. (3) If you choose "None", then the modern will do nothing when the hosts request a IP address. (3) If you choose "None", then the modern will do nothing when the hosts request a IP address. (4) If you choose "None", then the modern will do nothing when the hosts request a IP address. (5) If you choose "None", then the modern will do nothing when the hosts request a IP address. (5) If you choose "None", then the modern will do nothing when the hosts request a IP address. (6) If you choose the point address. (6) If you choose the point address. (7) If you choose the point address. (7) If you choose the point address. (7) If you cho

Field	Description			
	If set to DHCP Server, the router can assign IP			
DHCP Mode	addresses, IP default gateway and DNS Servers to the			
	host in Windows95, Windows NT and other			
	operation systems that support the DHCP client.			
	This specifies the first and the last IP address in the IP			
IP Pool Range	address pool. The router assigns an IP address that is			
	in the IP pool range to the host.			
Show Client	Click here to display the Active DHCP Client Table			
	which shows IP addresses assigned to clients.			
Default Gateway	Enter the default gateway of the IP address pool.			
	The lease time determines the period that the host			
Max Lease Time	retains the assigned IP addresses before the IP			
	addresses change.			
	Enter the domain name if you know it. If you leave			
	this blank, the domain name obtained by DHCP from			
Domain Name	the ISP is used. You must enter a host name (system			
	name) on each individual PC. The domain name can			
	be assigned from the router through the DHCP server.			
DNS Servers	You can configure the DNS server IP addresses for			
DNS Servers	DNS Relay.			
	Click here to display the Device IP Range Table. You			
Set VendorClass IP Range	can configure the IP address range based on the			
	device type.			

Click **Show Client** in the **DHCP Mode** page to display the **Active DHCP Client Table** which shows IP addresses assigned to clients, as shown below:

Active	Active DHCP Client Table					
	This table shows the assigned IP address, MAC address and time expired for each DHCP leased client.					
Name	IP Address	MAC Address	Expiry(s) Type			
Refresh Close						

Field	Description
IP Address	The IP address assigned to the DHCP client from the
IP Address	router is displayed here.
	The MAC address of the DHCP client is displayed here.
	Each Ethernet device has a unique MAC address. The MAC
MAC Address	address is assigned at the factory and consists of six pairs
	of hexadecimal character, for example, 00-A0-C5-00-02-
	12.
	The lease time is displayed here. The lease time
Expiry(s)	determines the period that the host retains the assigned
	IP addresses before the IP addresses change.
Refresh	Click to refresh this page.
Close	Click to close this page.

Click **Set VendorClass IP Range** in the **DHCP Mode** page, to display the **Device IP Range Table**. You can configure the IP address range based on the device type, as shown below:

Device IP F	Device IP Range Table					
This page is used to	configure the IP address range based on device type.					
device name: start address:	192.168.2.					
end address: router address:	192.168.2.					
option60	nodify Close					
IP Range Table:						
Select device name	e start address end address default gateway option60					

In the **DHCP Mode** field, if you select **None** you will see the following page:

DHCP	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	LAN	WAN					
LAN IP	рнсе	P Mode					
DHCP	Difei	Mode					
DHCP Static IP	(1)Enable address pr your netwo (2)Enable the LAN. Y	<ul> <li>This page can be used to config the DHCP mode:None,DHCP Relay or DHCP Server.</li> <li>(1)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.</li> <li>(2)Enable the DHCP Relay if you are using the other DHCP server to assign IP address to your hosts on the LAN. You can set the DHCP server in address.</li> <li>(3)If you choose "None", then the modem will do nothing when the hosts request a IP address.</li> </ul>					
	LAN IP Address:192.168.2.1 Subnet Mask:255.255.255.0 DHCP Mode: Apply Changes Reset Set VendorClass IP Range						

In the **DHCP Mode** field, if you select **DHCP Relay** you will see the following page:

DHCP	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
Sino.	LAN	WAN					
LAN IP DHCP	DHC	P Mode					
DHCP Static IP	(1)Enable address p your netw (2)Enable the LAN. ' (3)If you c LAN IP A DHCP M Relay Se	the DHCP Server i ools available to h ork as they reques the DHCP Relay ii You can set the DI hoose "None", the ddress:192.168.2.2 ode: erver: 192.168.2.2	if you are using this osts on your LAN. T it Internet access. You are using the i HCP server ip addre n the modern will d 1 Subnet Mask:2 DHCP Relay 442	device as a DHCP The device distribut other DHCP server iss. o nothing when the 55.255.255.0	ay or DHCP Server. <sup>1</sup> server. This page list es numbers in the poo to assign IP address I hosts request a IP ad	I to hosts on to your hosts on	

Field	Description				
	If set to DHCP Relay, the router acts a surrogate DHCP				
DHCP Mode	Server and relays the DHCP requests and responses				
	between the remote server and the client.				
Relay Server	Enter the DHCP server address provided by your ISP.				
Apply Changes	Click it to save the settings of this page.				
Reset	Click it to refresh this page.				

### 5.4.1.3. DHCP Static IP

If you select **DHCP Static IP** in the left pane, you will see the following page. Here you can assign the IP addresses on the LAN to the specific individual PCs based on their MAC address.

DHCP Static IP	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
Brief Guildin	LAN	WAN					
LAN IP DHCP	DHC	P Static IF	P Configur	ation			
DHCP Static IP		This page lists the fixed IP/MAC address on your LAN. The device distributes the number configured to hosts on your network as they request Internet access.					
	IP Addre	ess:	0.0.0	]			
	Mac Ado	dress:	00000000000	(ex. 00E086710	502)		
	Add	Delete Selected	Reset				
	DHCP St	atic IP Table:					
	Se	elect	IP Address	MA	C Address		

Field	Description
IP Address	Enter the specified IP address in the IP pool range,
	which is assigned to the host.
Mac Address	Enter the MAC address of a host on the LAN.
Add	After entering the IP address and MAC address, click
	"Add" to add a row to the <b>DHCP Static IP Table</b> .
Delete Selected	Select a row in the DHCP Static IP Table, then click
	"Delete Selected" to delete this row.
Reset	Resets the fields in this page.
DHCP Static IP Table	Shows the assigned IP address based on the MAC
	address.

#### 5.4.2. WAN

Choose Network > WAN. The WAN page that is displayed contains WAN, Auto PVC, ATM Settings and ADSL Settings.

#### 5.4.2.1. WAN

Click **WAN** in the left pane, the page shown in the following figure appears. Here you can configure the WAN interface of your router.

WAN	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic			
	LAN	WAN								
WAN	Char	nnel Cont	figuration							
Auto PVC										
ATM Settings			can be separated vir nt Virtual Circuit (PVC							
ADSL Settings			tatic IP or Bridge mo							
		e "Connect" and ' s "Manual"	"Disconnect" button	will be enable only v	when the connect typ	e of PPPoE and				
	Default	Route Selection	: OAuto	ied						
	VPI: 8	VPI: 8 VCI: 35 Encapsulation: O LLC O VC-Mux								
	Channel Mode: 1483 Bridged 🛩 Enable NAPT: 🗌									
	Enable	Enable IGMP:								
	PPP Settings:									
	User Na	ime:		Passwo	rd:					
	Type:	C	Continuous	✓ Idle Tim	ne (min):					
	WAN IP	Settings:								
	Туре:	(	Fixed IP		P					
	Local IF	P Address:		Remote	IP Address:					
	Netmas									
	Default		Disable	Enable	le 🔿 A	uto				
	Unnumbered									
	Connect Disconnect Add Modify Delete Reset Refresh									
	Current	ATM VC Table:								
	Selec t	Inf Mode VPI	VCI P NAPT	te Addr	te IP ask Name m	hnu Statu ber s Edit				
	0	a0 br148 8 3 3	35 LLC Off	Off Off 0.0.0.0	0.0.0. 0.0.0 0 0 0 0 0 0 0 0 0 0 0	n 🖉 📅				

Field	Description
Default Route Selection	You can select <b>Auto</b> or <b>Specified</b> .
VPI	The virtual path between two points in an ATM network, ranging from 0 to 255.
VCI	The virtual channel between two points in an ATM network, ranging from 32 to 65535 (1 to 31 are reserved for known protocols).
Encapsulation	You can choose <b>LLC</b> and <b>VC-Mux</b> .
Channel Mode	You can choose <b>1483 Bridged</b> , <b>1483</b> MER, PPPoE, PPPoA, 1483 Routed or IPoA.
Enable NAPT	Check this box to enable Network

Field	Description
	Address Port Translation (NAPT) function. If you do not select it and you want to access the Internet normally, you must add a route on the uplink equipment. Usually, it is enabled.
Enable IGMP	Enable or disable Internet Group Management Protocol (IGMP) function.
PPP Settings	
User Name	Enter the correct user name for PPP dial-up, which is provided by your ISP.
Password	Enter the correct password for PPP dial-up, which is provided by your ISP.
Туре	You can choose <b>Continuous, Connect</b> on Demand or Manual.
Idle Time (min)	If set the type to <b>Connect on Demand</b> , you need to enter the idle timeout time. If the router does not detect the flow of the user continuously, within the preset Idle time, the router automatically disconnects the PPPoE connection.
WAN IP Settings	
Туре	<ul> <li>You can choose Fixed IP or DHCP.</li> <li>If you select Fixed IP, enter the local IP address, remote IP address and subnet mask.</li> <li>If you select DHCP, the router is a DHCP client and the WAN IP address is assigned by the remote DHCP server.</li> </ul>
Local IP Address	Enter the IP address of WAN interface provided by your ISP.

Field	Description
Remote IP Address	Enter the gateway IP address provided by your ISP.
Netmask	Enter the subnet mask of the local IP address.
Unnumbered	Check this box to enable IP unnumbered function.
Add	After configuring the parameters of this page, select "Add" to add a new PVC into the <b>Current ATM VC Table</b> .
Modify	Select a PVC in the <b>Current ATM VC</b> <b>Table</b> , then modify the parameters of this PVC. When finished, click "Modify" to apply the settings of this PVC.
Current ATM VC Table	This table shows existing PVCs. It shows the interface name, channel mode, VPI/VCI, encapsulation mode, local IP address, remote IP address and other information. The maximum number of items that can be added to this table is eight.
/	Click this icon to modify the PVCs' parameters.

After adding a PPPoE ATM VC, and clicking  $\checkmark$  in **PPPoE** mode, the following page will appear. In this page, you can configure the parameters of this PPPoE PVC.

WAN	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	LAN	WAN					
WAN	DDD	Interface	Modify				
Auto PVC		Interface					
ATM Settings	Protoc	ol:	PPP0E				
ADSL Settings	ATM V		8/69				
ADSL Settings	Login		0.00		1		
	Passw				]		
		ntication Metho	d: Auto		]		
			Contin				
		ction Type:		uous 💙	1		
	Idle Tir	ne (s):	0				
	Bridge	:	🔿 Bridg	ged Ethernet (Tran	isparent Bridging)		
			🔿 Bridg	ged PPPoE (implie	es Bridged Ethernet)		
			💿 Disa	ble Bridge			
	AC-Na	me:			]		
	Servic	e-Name:			]		
	802.1q	:	<ul> <li>Disa</li> </ul>	ble OEnable	-		
			VLAN IE	D(1-4095): 0			
	MTU (5	576-1492):	1400		]		
	Static I	P:			]		
	Source	Mac address:	00:1F:	A4:DD:CC:89		2) MACCLONE	
	Apply	7 Changes 🛛 🛛 Re	turn Reset				

Field	Description
Protocol	The protocol type used for this WAN connection is displayed here.
ATM VCC	The ATM virtual circuit connection assigned for this PPP interface (VPI/VCI).
Login Name	The user name provided by your ISP.
Password	The password provided by your ISP.
Authentication Method	You can choose <b>AUTO</b> , <b>CHAP</b> , or <b>PAP</b> .
Connection Type	You can choose <b>Continuous, Connect</b> on Demand, or Manual.
Idle Time (s)	If you choose <b>Connect on Demand</b> , you need to enter the idle timeout time. if the router does not detect the flow of the user continuously, within the preset idle time, the router automatically disconnects the PPPoE connection.

Field	Description
Bridge	You can select <b>Bridged Ethernet</b> , <b>Bridged PPPoE</b> or <b>Disable Bridge</b> .
AC-Name	The accessed equipment type.
Service-Name	The service name is displayed here.
802.1q	You can select <b>Disable</b> or <b>Enable</b> . If enabled, you need to enter the VLAN ID. The value ranges from 0 to 4095.
Apply Changes	Click to save the settings of this page temporarily.
Return	Click to return to the <b>Channel</b> <b>Configuration</b> page.
Undo	Click to refresh this page.
Source Mac address	The MAC address you want to clone.
MACCLONE	Click it to enable the MAC Clone function with the MAC address that is configured.

### 5.4.2.2. Auto PVC

Selecting **Auto PVC** in the left pane will bring you to the following page. Here, you can configure auto PVC detection by adding or deleting items to the auto PVC search table.

Auto PVC	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic		
	LAN	WAN							
WAN Auto PVC	Auto	PVC Co	nfiguratior	ı					
ATM Settings ADSL Settings	This page pvc searcl		gure pvc auto detect f	unction. Here you	can add/delete auto				
	Probe W	IAN PVC	obe						
	VPI:								
	PVC	Auto-PVC Table	VCI						
	0	0	35						
	1	8	35						
	2	0	43						
	3	0	51						
	4	0	59						
	5	8	43						
	6	8	51						
	7	8	59						

Field	Description
Probe	After connecting the router to an ADSL outlet using a telephone cable, click "Probe" and the router will perform auto detection of the PVCs the official end supports.
VPI	The virtual path identifier of the ATM PVC. Enter a value between <b>0</b> and <b>255</b> .
VCI	The virtual channel identifier of the ATM PVC. Enter a value between <b>32</b> and <b>65535</b> .

# 5.4.2.3. ATM Settings

Click **ATM Settings** in the left pane, and you will see the following page. Here, you can configure the parameters of the ATM, including QoS, PCR, CDVT, SCR, and MBS.

ATM Settings	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
strin ootangs	LAN	WAN					
WAN Auto PVC	АТМ	Settings					
ATM Settings ADSL Settings			ire the parameters f for QoS, PCR,CD		our ADSL Router. He 3S.	ere	
	VPI:						
	PCR:	CDVT:	SCR:	ME	S:		
	Current A Select	ATM VC Table: VPI VCI 8 35 8 69	QoS PC UBR 614 UBR 614	44 0	SCR MBS		

Field	Description
VPI	The virtual path identifier of the ATM PVC.
VCI	The virtual channel identifier of the ATM PVC.
QoS	The QoS category of the PVC. You can choose <b>UBR</b> , <b>CBR</b> , <b>nrt-VBR</b> or <b>rt-VBR</b> .
PCR	Peak cell rate (PCR) is the maximum rate at which cells can be transmitted along a connection in the

Field	Description
	ATM network. Its value ranges from 1 to 65535.
CDVT	Cell delay variation tolerance (CDVT) is the amount of delay permitted between ATM cells (in microseconds). Its value ranges from 0 to 4294967295.
SCR	Sustain cell rate (SCR) is the maximum rate that traffic can pass over a PVC without the risk of cell loss. Its value ranges from 0 to 65535.
MBS	Maximum burst size (MBS) is the maximum number of cells that can be transmitted at the PCR. Its value ranges from 0 to 65535.

#### 5.4.2.4. ADSL Settings

Click **ADSL Settings** in the left pane, and you will see the following page. In this page, you can select the DSL modulation. Mostly, it is recommended that you do not alter the default factory default settings. The router supports the following modulations: **G.Lite**, **G.Dmt**, **T1.413**, **ADSL2**, **ADSL2+**, **AnnexL**, and **AnnexM**. The router negotiates the modulation modes with the DSLAM.



# 5.5.Service

In the navigation bar across the top of the screen, click **Service**. The **Service** page which is displayed contains **DNS**, **Firewall**, **UPNP**, **IGMP Proxy**, **TR-069** and **ACL**.

#### 5.5.1. DNS

Domain Name System (DNS) is an Internet service that translates the domain name into IP address. Because the domain name is alphabetic, it is easier to remember. The Internet, however, is based on IP addresses. Every time you use a domain name, DNS translates the name into the corresponding IP address. For example, the domain name www.example.com might be translated to 198.105.232.4. The DNS has its own network. If one DNS server does not know how to translate a particular domain name, it asks another one, and so on, until the correct IP address is returned.

Choose **Service** > **DNS**. The **DNS** page that is displayed contains **DNS** and **DDNS**.

#### 5.5.1.1. DNS

Click **DNS** in the left pane, the page shown in the following figure appears.

Service	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	DNS	Firewall	UPnP	IGMP Proxy	TR-069	ACL	
DNS DDNS	DNS	Configura	ition				
	This page	e is used to configur	e the DNS server ip	addresses for DNS	Relay.		
	• A	ttain DNS Automat	tically				
	0 s	et DNS Manually					
	D	NS 1:	0.0.0				
	D	NS 2:					
	D	NS 3:					
	Apply	Changes R	eset Selected				

Field	Description				
	When selected, the router accepts the first				
Attain DNS Automatically	received DNS assignment from one of the PPPoA,				
Attain DNS Automatically	PPPoE or MER enabled PVC(s) during the				
	connection establishment.				
Set DNS Manually	If you select this, enter the IP addresses of the				
Set DNS Manually	primary and secondary DNS server.				

Field	Description
Apply Changes	Click to save the settings of this page.
Reset Selected	Click to restart configuring the parameters in this
Neset Selected	page.

#### 5.5.1.2. DDNS

Click **DDNS** in the left pane, and you will see the following screen. This page is used to configure the dynamic DNS address from DynDNS.org or TZO. You can add or remove DNS configurations.

DDNS	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic				
	DNS	Firewall	UPnP	IGMP Proxy	TR-069	ACL	-				
DN S DDN S	This page	Dynamic DNS Configuration This page is used to configure the Dynamic DNS address from DynDNS.org or TZO.Here you can Add/Remove to configure Dynamic DNS.									
	DDNS p Hostnan Interfac Enable:	ne: e: p	ynDNS.org 👻 ppoel 💌			_					
	DynDns Usernan Passwo	ne:				-					
	TZO Sett Email: Key:	ings:				_					
		Remove DDNS Table:	ce Host	name	Username	Interface					

Field	Description							
DDNS provider	Choose the DDNS provider name. You can choose							
DDNS provider	DynDNS.org or TZO.							
Hostname	The DDNS identifier.							
Interface	The WAN interface of the router.							
Enable	Enable or disable DDNS function.							
Username	The name provided by DDNS provider.							
Password	The password provided by DDNS provider.							
Email	The email provided by DDNS provider.							
Кеу	The key provided by DDNS provider.							

#### 5.5.2. Firewall

Choose Service > Firewall. The Firewall page that is displayed contains IP/Port Filter, MAC Filter, URL Filter, Anti-DoS and Software Forbidden.

# 5.5.2.1. IP/Port Filter

Click **IP/Port Filter** in the left pane, and you will see the following screen. Entries in this table are used to restrict certain types of data packets through the gateway. These filters are helpful in securing or restricting your local network.

IP/Port Filter	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	DNS	Firewall	UPnP	IGMP Proxy	TR-069	ACL	
IP/Port Filter	IP/Pa	ort Filterin	a				
MAC Filter			9				
URL Filter		n this table are used					
Anti-Do S	Internet f network.	through the Gateway	/. Use of such filters	s can be helpful in s	ecuring or restricti	ng your local	
Software Forbidden						-	
	Outgoin	g Default Action:	Permit O Deny	1			
	Incomin	g Default Action:	⊖ Permit	<i>,</i>			
	Rule Ac	tion:	⊙ Permit ODe	eny			
	Protoco	l:	IP 🗸				
	Directio	n:	Upstream 👻				
	Source	IP Address:		M	ask Address:	255.255.255.255	
	Dest IP	Address:		N	ask Address:	255.255.255.255	
	SPort:		-	D	Port:	-	
	Enable:		<b>V</b>				
	Appl	y Changes	Reset		Help		
	Current	Filter Table:					
			ce IP/Mask SPor	t Dest IP/Mask	DPort State	Direction Action	n

### 5.5.2.2. MAC Filter

Click **MAC Filter** in the left pane, and the following screen will appear. Entries in this table are used to restrict certain types of data packets from your local network to Internet through the gateway. These filters are helpful in securing or restricting your local network.

MAC Filter	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	DNS	Firewall	UPnP	IGMP Proxy	TR-069	ACL	
IP/Port Filter	МАС	Filtering					
MAC Filter							
URL Filter					s from your local ne		
Anti-Do S	Internet network.		y. Use of such filter	s can be helpful in s	ecuring or restricting	your local	
Software Forbidden							
	Incomin Apply Directio Action: Source Destinat Add	MAC: [ tion MAC: [ MAC Filter Table:	Outgoing  Outgoi	x. 00E086710502) x. 00E086710502)	tination MAC	Action	
	Delete						
	Sele Delete	ct Direction	Source MAC	Des	tination MAC	Action	

#### 5.5.2.3. URL Filter

Click **URL Filter** in the left pane, and you will see the following page. **URL Filter** is a function to block a domain name (such as tw.yahoo.com) or filtered keyword. You can add or delete FQDN and filtered keyword.



The following table describes the parameters and buttons of this page:

Field	Description
URL Blocking Capability	You can choose <b>Disable</b> or <b>Enable</b> .
	• Select <b>Disable</b> to disable URL blocking function
	and keyword filtering function.
	<ul> <li>Select Enable to block access to the URLs and</li> </ul>
	keywords specified in the URL Blocking Table.

Field	Description
Keyword	Enter the keyword to block.
AddKeyword	Click to add a keyword to the URL Blocking Table.
Delete	Select a row in the URL Blocking Table and click to
	delete the row.
URL Blocking Table	A list of the URL (s) to which access is blocked.

### 5.5.2.4. Anti-DoS

A Denial-of-Service attack (DoS attack) is a type of attack on a network that is designed to disrupt a network by flooding it with useless traffic. Click **Anti-DoS** in the left pane and the following page will appear. Here, you can configure the settings to prevent DoS attacks.



#### 5.5.2.5. Software Forbidden

Select **Software Forbidden** in the left pane and you will see the following screen. This page allows you to configure application control - select an

application from the drop-down list to prohibit the application from accessing network resources.



The following table describes the parameters and buttons of this page:

Field	Description				
Current Forbidden Software List	A list of applications which are currently forbidden from accessing the network.				
Add Forbidden Software	Select an application to be forbidden from accessing the network.				

#### 5.5.3. UPNP

Choose **Service** > **UPnP**, the page shown in the following figure appears. This page is used to configure UPnP.

	0						
UPnP	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	DNS	Firewall	UPnP	IGMP Proxy	TR-069	ACL	
UPnP	UPnl	P Configu	ration				
	This page UPnP.	e is used to configur	e UPnP. The system	m acts as a daemor	n when you enable		
	UPnP: WAN Int	torfaco	O Disa	able 💿 Enable			
		Changes					

#### 5.5.4. IGMP Proxy

Choose **Service** > **IGMP Proxy**, and you will see the following page. An 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 after you enable it.

IGMP Proxy	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic			
Топіїї і году	DNS	Firewall	UPnP	IGMP Proxy	TR-069	ACL				
IGMP Proxy	IGMI	IGMP Proxy Configuration								
	the syste for its hos . Enable IGMP.	em discovered throug sts when you enable IGMP proxy on WAI	h standard IGMP in it by doing the follo N interface (upstrea	host messages on b nterfaces. The syster ows: m), which connects which connects to its	m acts as a proxy to a router running					
	IGMP P	roxy:	ODisa	ble 💿 Enable						
	Multica	st Allowed:	🔿 Disa	ble 💿 Enable						
	Robust	Count:	2							
	Last Me	mber Query Count	: 2							
	Query I	nterval:	60	(seconds)						
	Query F	lesponse Interval:	100	(*100ms)						
	Group L	eave Delay:	2000	(ms)						
	Apply	Changes Re	set							

#### 5.5.5. TR-069

Choose **Service** > **TR-069**, and you will arrive at the following page. Here, you can configure the TR-069 CPE.

TR-069	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic		
114-009	DNS	Firewall	UPnP	IGMP Proxy	TR-069	ACL			
TR-069	TR-069 Configuration								
	This page is used to configure the TR-069 CPE. Here you may change the setting for the ACS's parameters.								
	ACS:								
	Enable:								
	URL:		http://20.20.20.20	9090/web/tr069					
	User Na	me:	hgw						
	Passwo	rd:	•••						
	Periodio	c Inform Enable:	⊙Disable ⊙Ena	able					
	Periodio	c Inform Interval:	300		seconds				
	Connec	tion Request:							
	User Na	me:	itms						
	Passwo	rd:	••••						
	Path:		/tr069						
	Port:		7547						
	Debug:								
		rtificates CPE:	⊙No ⊖Yes						
	Show M	lessage:	⊙Disable ○Ena	able					
	CPE Set	nds GetRPC:	⊙Disable ○Ena	able					
	Skip MF	Reboot:	⊙Disable ○Ena	able					
	Delay:		⊙Disable ⊙Ena	able					
	Auto-Ex	ecution:	⊙Disable ⊙Ena	able					
	Apply	Reset							
	Certifica Manage								
	CPE Cer Passwo		ent	Apply R	eset				
	CPE Cer	rtificate:		Browse	Upload	elete			
	CA Cert	ificate:		Browse	Upload D	elete			
Field					Descript	Lion			

Field	Description						
ACS							
URL	The URL of the auto-configuration server to connect						
	to.						
User Name	The user name for logging in to the ACS.						
Password	The password for logging in to the ACS.						
Periodic Inform Enable	Select Enable to periodically connect to the ACS to						
	check whether the configuration updates.						
Periodic Inform Interval	Specify the amount of time between connections to						
	ACS.						
Connection Request							
User Name	The connection username provided by TR-069						
	service.						

Field	Description					
Password	The connection password provided by TR-069					
	service.					
Debug						
Show Message	Select Enable to display ACS SOAP messages on the					
	serial console.					
CPE sends GetRPC	When enabled, the router contacts the ACS to obtain					
	configuration updates.					
Skip MReboot	Specify whether to send an MReboot event code in					
	the inform message.					
Delay	Specify whether to start the TR-069 program after a					
	short delay.					
Auto-Execution	Specify whether to automatically start the TR-069					
	after the router is powered on.					

### 5.5.6. ACL

Choose **Service** > **ACL** and you will arrive at the following screen. Here, you can permit the data packets from LAN or WAN to access the router. You can configure the IP address for Access Control List (ACL). If ACL is enabled, only the effective IP address in the ACL can access the router.

**Note:** If you select **Enable** in ACL capability, ensure that your host IP address is in ACL list before it takes effect.

ACL	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	DNS	Firewall	UPnP	IGMP Proxy	TR-069	ACL	
ACL	ACL	Configura	ation				
	Entries in Internet n Using of s	this ÁCL table are etwork to the Gate such access contro	ol can be helpful in s	ain types of data pac	ckets from your local		
		Select:					
	LAN ACL	Switch:	O Enable	<ul> <li>Disa</li> </ul>	able	Apply	
	IP Addres Services ☑ Any (Add)		 	(The	IP 0.0.0.0 represent	∶any IP)	
	Current A Select	CL Table	ID A dataset	s/Interface	Service Port	t Action	

Field	Description				
Direction Select	Select the router interface. You can select LAN or WAN.				
Direction Select	In this example, LAN is selected.				
LAN ACL Switch	Choose to enable or disable ACL function.				
	Enter the IP address of the specified interface. Only the IP				
IP Address	address that is in the same network segment with the IP				
	address of the specified interface can access the router.				
	You can choose the following services from LAN: web,				
Services Allowed	telnet, ssh, ftp, tftp, snmp or ping. You can also choose				
	all of the services.				
Add	After setting the parameters, click "Add" to add an entry				
Auu	to the <b>Current ACL Table</b> .				
Reset	Click to refresh this page.				

If you select **WAN** for **Direction Select**, then you will see the following page:

ACL	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	DNS	Firewall	UPnP	IGMP Proxy	TR-069	ACL	
ACL	You can Entries in Internet r	n this ACL table are network to the Gate	ces are accessable a used to permit cer way.		side. ckets from your loca g the Gateway mana		
	Direction	n Select: 🔘 LAN	N 💿 WAN				
	WAN Se	tting:	Interface		~		
	WAN Int		pppoe1		*		
	Services	Allowed:					
	we	b					
	tel	net					
	ss	h					
	🗌 ftp						
	🗖 tftp	0					
	sn	mp					
	🗌 pin	ıg					
	Add (	Reset					
		ACL Table					
	Select	Direction	IP Addres	ss/Interface	Service Por	t Action	

Field	Description				
Direction Select	Select the router interface. You can select LAN or WAN.				
Direction Select	In this example, WAN is selected.				
WAN Setting	You can choose <b>Interface</b> or <b>IP Address</b> .				
WAN Interface	Choose the interface that permits data packets from				
WAN IIIteriace	WAN to access the router.				
	Enter the IP address on the WAN. Only the IP address				
IP Address	that is in the same network segment with the IP address				
	on the WAN can access the router.				
	You can choose the following services from WAN: web,				
Services Allowed	telnet, ssh, ftp, tftp, snmp or ping. You can also choose				
	all of the services.				
Add	After setting the parameters, click "Add" to add an entry				
Auu	to the <b>Current ACL Table</b> .				
Reset	Click to refresh this page.				

### 5.6. Advanced

In the navigation bar across the top of the screen, click **Advanced**. The **Advanced** page which is displayed contains **Routing**, **NAT**, **IP QoS**, **SNMP** and **Others**.

#### 5.6.1. Routing

Choose **Advanced > Routing**, and the page which is displayed contains **Static Route** and **RIP**.

#### 5.6.1.1. Static Route

Click **Static Route** in the left pane, and you will see the following screen. This page is used to configure routing information. You can add or delete IP routes.

Routing	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
rtouting	Routing	NAT	IP QoS	SNMP	Others		
Static Route RIP	Rout	ing Confi	guration				
	This page routes.	is used to configu	are the routing information	ation. Here you car	add/delete IP		
	Enable:						
	Destinat	ion:					
	Subnet I	Mask:					
	Next Ho	p:					
	Metric:		1				
	Interface	);	~				
	Add Ro	ute Update	Delete Selecte	ed Show F	Routes		
	Static Ro	ute Table:					
	Select	State Des	tination Subnet M	ask NextHop	Metric	ltf	

Field	Description
Enable	Select Enable to use static IP routes.
Destination	Enter the IP address of the destination device.
Subnet Mask	Enter the subnet mask of the destination device.
Next Hop	Enter the IP address of the next hop in the IP route to
	the destination device.
Metric	The metric cost for the destination.
Interface	The interface for the specified route.
Add Route	Click to add the new static route to the Static Route
	Table.
Update	Select a row in the Static Route Table and modify the
	parameters. Then click "Update" to save the settings
	temporarily.
Delete Selected	Select a row in the Static Route Table and click to

Field	Description
	delete the row.
Show Routes	Clicking "Show Routes" will display the <b>IP Route Table</b> . You can view a list of destination routes commonly accessed by your network.
Static Route Table	A list of the previously configured static IP routes.

Clicking **Show Routes** will display the following page - the table shows a list of destination routes commonly accessed by your network.

# **IP Route Table**

This table shows a list of destination routes commonly accessed by your network.

Destination	Subnet Mask	NextHop	lface
192.168.2.1	255.255.255.255	*	e1
Refresh Close	]		

### 5.6.1.2. RIP

Click **RIP** in the left pane and the page shown in the following figure will appear. If you are using this device as an RIP-enabled router to communicate with others using Routing Information Protocol (RIP) - enable RIP. This page is used to select the interfaces on your devices which use RIP, and the version of the protocol used.

RIP	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	Routing	NAT	IP QoS	SNMP	Others		
Static Route RIP	RIP C	Configura	tion				
			ing this device as a F g Information Protoco		to communicate		
	RIP:	(	⊙Off ○On	Apply			
	Interface Receive		br0 🗸				
	Send Ve	rsion: Delete	RIP1 ¥				
	Rip Confi	g List:					
	Selec	t Interf	ace Receiv	ve Version	Send Version		

Field	Description						
RIP	Select <b>On</b> , the router communicates with other RIP-						
	enabled devices.						
Apply	Click to save the settings of this page.						
Interface	Choose the router interface that uses RIP.						
Receive Version	Choose the interface version that receives RIP messages.						
	You can choose <b>RIP1</b> , <b>RIP2</b> or <b>Both</b> .						
	• Choosing <b>RIP1</b> indicates that the router receives						
	RIP v1 messages.						
	• Choosing <b>RIP2</b> indicates that the router receives						
	RIP v2 messages.						
	• Choosing <b>Both</b> indicates that the router receive						
	RIP v1 and RIP v2 messages.						
Send Version	The working mode for sending RIP messages. You can						
	choose <b>RIP1</b> or <b>RIP2</b> .						
	• Choosing <b>RIP1</b> indicates that the router broadcasts						
	RIP1 messages only.						
	• Choosing <b>RIP2</b> indicates that the router multicasts						
	RIP2 messages only.						
Add	Click to add the RIP interface to the <b>Rip Config List</b> .						
Delete	Select a row in the Rip Config List and click to delete the						
	row.						

# 5.6.2. NAT

Choose Advanced > NAT. The submenu contains Setup DMZ, Virtual Server, NAT Forwarding, ALG, NAT Exclude IP, Port Trigger, FTP ALG Port and NAT IP Mapping.

### 5.6.2.1. Setup DMZ

A Demilitarized Zone (DMZ) is used to provide Internet services without sacrificing unauthorized access to its local private network. Typically, the DMZ host contains devices accessible to Internet traffic, such as web (HTTP) servers, FTP servers, SMTP (e-mail) servers and DNS servers. Choose **Setup DMZ** in the left pane, and you will see the following page.

To configure DMZ:

- **Step 1** Select **Enable DMZ** to enable this function.
- **Step 2** Enter an IP address of the DMZ host.
- **Step 3** Click **Apply Changes** to save the settings of this page temporarily.

Setup DMZ	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	Routing	NAT	IP QoS	SNMP	Others		
Setup DMZ	DMZ						
Virtual Server	DIVIZ						
NAT Forwarding			d to provide Internet				
ALG			local private network. net traffic, such as W				
NAT Exclude IP	servers,SI	MTP (e-mail) serve	ers and DNS servers.				
Port Trigger	Enak	ole DMZ					
FTP ALG Port	DMZ Host	t IP Address:					
Nat IP Mapping							
	Apply	Changes F	Reset				

# 5.6.2.2. Virtual Server

Click Virtual Server in the left pane to see the following screen:

Virtual Server	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	Routing	NAT	IP QoS	SNMP	Others		
Setup DMZ	Vietu	al Server					
Virtual Server	virtu	al Server					
NAT Forwarding			fig virtual server,so of	hers can access t	he server through the	1	
ALG	Gateway.						
NAT Exclude IP	Service Ty	/ne·					
Port Trigger		al Service Name:	AUTH		~		
FTP ALG Port	O User	-defined Service	Name:				
Nat IP Mapping	Protocol:		TCP		*		
	WAN Set	ting:	Interface		~		
	WAN Inte	erface:	pppoe1		~		
	WAN Por	t:	113	(ex. 50	01:5010)		
	LAN Ope	n Port:	113				
	LAN IP A	ddress:					
	Apply	/ Changes					
	Current Virtual Server Forwarding Table:						
	ServerN	ame Protocol L	ocal IP Address Lo	cal Port WAN IP	Address WAN Port	State Action	

Field	Description					
Service Type	<ul> <li>You can select a common service type, for example, AUTH, DNS or FTP. You can also define a service name.</li> <li>If Usual Service Name is selected, the corresponding parameter has the default settings.</li> <li>If User-defined Service Name is selected, you need to enter the corresponding parameters.</li> </ul>					

Field	Description
Protocol	Choose the transport layer protocol that the service type uses. You can choose <b>TCP</b> or <b>UDP</b> .
WAN Setting	You can choose Interface or IP Address.
WAN Interface	Choose the WAN interface that will apply to the virtual server.
WAN Port	Choose the access port on the WAN.
LAN Open Port	Enter the port number of the specified service type.
LAN IP Address	Enter the IP address of the virtual server. It is in the same network segment with LAN IP address of the router.

#### 5.6.2.3. NAT Forwarding

Click **NAT Forwarding** in the left pane, and the page shown in the following figure will appear. Under 1483MER or 1483Routed mode, if NAPT (Network Address Port Translation) is enabled, the **Local IP Address** is configured as 192.168.1.3 and the **Remote IP Address** is configured as 202.32.0.2 - the PC with the LAN IP192.168.1.3 will use 202.32.0.2 when it is connected to the Internet via the router without NAPT control.



Field	Description				
Local IP Address	Input a local IP address.				
Remote IP Address	Input a remote IP address				
Enable	Enable the current configured rule.				
Apply Changes	Submit the configurations.				
Reset	Cancel the modification and reconfigure the settings.				
Current NAT Port Forwarding Table	Current configuration rule list.				

### 5.6.2.4. ALG

Click **ALG** in the left pane and the following page will be displayed. The NAT ALG (Application Layer Gateways) function enables the router to support various special application protocols with payloads containing IP addresses and port numbers, and tries to establish connection between these imbedded IP addresses and port numbers. Failure of the transformation of such information may results in problems. The NAT ALG function realizes payload detection and transformation to ensure normal operation of payloads under NAT environment, requiring no special configuration of users.

ALG	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	Routing	NAT	IP QoS	SNMP	Others		
Setup DMZ	ΝΛΤ	ALC and	Pass-Thro	uab			
Virtual Server			Fa55-1110	ugn			
NAT Forwarding	Setup NA	T ALG and Pass-T	hrough configuration.				
ALG	IPSec Pa	ass-Through:	✓ Enable				
NAT Exclude IP		ss-Through:	Enable				
Port Trigger	PPTP Pass-Through:		✓ Enable				
FTP ALG Port	FTP:		Enable				
Nat IP Mapping	H.323:		Enable				
Nat IP Mapping	SIP:		Enable				
	RTSP:		🗹 Enable				
	ICQ:		Enable				
	MSN:		Enable				
	Apply	Changes R	leset				
### 5.6.2.5. NAT Exclude IP

Click **NAT Exclude IP** in the left pane, the following screen will be displayed. Here, you can configure some source IP addresses which use the purge route mode when accessing internet through the specified interface.

NAT Exclude IP	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	Routing	NAT	IP QoS	SNMP	Others		
Setup DMZ Virtual Server	NAT	Exclude I	Р				
NAT Forwarding			some source ip add		purge route mode		
ALG	when acc	ess internet throug	gh the specified inter	face.			
NAT Exclude IP	Interface		~				
Port Trigger	IP Range	e:		-			
FTP ALG Port	Apply	Changes R	leset				
Nat IP Mapping							
	Current N	IAT Exclude IP T	able:				
		WAN Interface	Low IP	High IP	Action		

# 5.6.2.6. Port Trigger

Click **Port Trigger** in the left pane, the page shown in the following figure will appear:

Port Trigger	Status	Wizard	Network	Service	Advanced	Admin	Diagnosti
	Routing	NAT	IP QoS	SNMP	Others		
Setup DMZ	Nat E	Port Trigg	or				
Virtual Server	Nat F	on mgg	CI				
NAT Forwarding			d to restrict certain t				
ALG	Internet t network.	hrough the Gatewa	ay. Use of such filters	s can be helpful in s	securing or restricting	g your local	
NAT Exclude IP							
Port Trigger	Nat Port	Trigger: C	Enable 💿 Disable				
FTP ALG Port		/ Changes		5			
Nat IP Mapping	( 444)	onangeo					
	O User SStart Ma	Al Application Namdefined Applicatio atch PortEnd Matc	n Name: h PortTrigger Protocc UDP UDP UDP UDP UDP UDP UDP UDP UDP UDP UDP UDP UDP UDP	Select One           IStart Relate Port	Ind Relate PortOper UDF UDF UDF UDF UDF UDF	outgoir     outgoir	19       19       19       19       19       19       19       19       19       19       19       19       19       19       19       19       19       19
	ServerN			Match Port Op	en Protocol Relat	e Port Action	

Click the Usual Application Name drop-down menu to choose the application you want to set up for port triggering. When you have chosen an application, the default Trigger settings will populate the table underneath. If the application you want to set up is not listed, click the User-defined Application Name radio button and type in a name for the trigger in the Custom application field. Configure the Start Match Port, End Match Port, Trigger Protocol, Start Relate Port, End Relate Port, Open Protocol and Nat type settings for the port trigger you want to configure.

Click the Apply changes button to finish the setting.

# 5.6.2.7. FTP ALG Port

Click **FTP ALG Port** in the left pane to display the following screen. The common port for FTP connection is port 21, and a common ALG monitors the TCP port 21 to ensure NAT pass-through of FTP. By enabling this function, when the FTPserver connection port is not a port 21, the FTP ALG module will be informed to monitor other TCP ports to ensure NAT pass-through of FTP.

	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
FTP ALG Port	Routing	NAT	IP QoS	SNMP	Others		
Setup DMZ Virtual Server	FTP /	ALG Con	figuration				
NAT Forwarding	This page	is used to configu	ports .				
ALG NAT Exclude IP	FTP ALG	Port:					
Port Trigger	Add D	est Ports	Delete Selected I	DestPort			
FTP ALG Port	FTP ALG	Ports Table:					
Nat IP Mapping	Select	F	Ports 21				

Fie	eld	Description				
FTP ALG port		Set an FTP ALG port.				
Add Dest Ports		Add a port configuration.				
Delete DestPort	Selected	Delete a selected port configuration from the list.				

#### 5.6.2.8. NAT IP Mapping

NAT is short for Network Address Translation. The Network Address Translation Settings window allows you to share one WAN IP address for multiple computers on your LAN.Click **NAT IP Mapping** in the left pane, the page shown in the following figure will appear.

Entries in this table allow you to configure one IP pool for a specified source IP address from LAN, so one packet whose source IP is in the range of the specified address will select one IP address from the pool for NAT.

Nat IP Mapping	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
Natin Mapping	Routing	NAT	IP QoS	SNMP	Others		
Setup DMZ	ΝΛΤ	ID Manni	na				
Virtual Server	IN/A I	IP Mappi	ng				
NAT Forwarding			ou to config one IP p				
ALG		so one packet whi 1e IP address from	ch's source ip is in ra pool for NAT.	ange of the specifie	d address will		
NAT Exclude IP			-				
Port Trigger	Type: C	Dne-to-One 🛛 👻					
FTP ALG Port	Local St	tart IP:					
Nat IP Mapping	Local Er	nd IP:					
	Global S	Start IP:					
	Global E	End IP:					
	Apply	y Changes	Reset				
	Current 1	NAT IP MAPPING	Table:				
	Local	Start IP Loca	I End IP Global :	Start IP Global	End IP Action		
	Delet	e Selected	Delete All				

#### 5.6.3. IP QoS

Choose **Advanced > IP QoS**, and the page shown in the following figure appears.



1. Enable IP QoS and click **Apply** to enable IP QoS function.

2. Click **add rule** to add a new IP QoS rule.

The page shown in the following figure appears. Entries in the **QoS Rule List** are used to assign the precedence for each incoming packet based on physical LAN port, TCP/UDP port number, source IP address, destination IP address and other information.

IP QoS	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic				
	Routing	NAT	IP QoS	SNMP	Others						
IP QoS	IP Qo	S									
	based on Config Pr 1: Set tra										
	IP QoS:	O Disable	e 💿 Enable		Apply						
	QoS Poli	cy:	Stream based 🛩								
	Schedule	Mode:	Strict Prior 💌								
	QoS Rule	QoS Rule List:									
	Course	Stream ource Destination		B Phy <sub>Drior</sub> IP	ehavior						
		Port IP	Port	port Prior Precd		t					
	Add Ru	le Delete	Delete All								
	Add QoS	Rule									
	Source IF	0.0.0.0	Sour	ce Mask: 25	5.255.255.255						
	Destinatio	on IP:	Dest	ination Mask:							
	Source P	ort:	Dest	ination Port:							
	Protocol	~	Phy	Port:	~						
	Set Priori	ty: p3(Lowest)	*								
		or Modify QoS m									
		edence:	*								
	IP ToS: 802.1p:		~								
	002.1p		×								
	Add Ru	le									

Field	Description
IP QoS	Select to enable or disable IP QoS function. You need
	to enable IP QoS if you want to configure the
	parameters of this page.
QoS Policy	You can choose stream based, 802.1p based or DSCP
	based.
Schedule Mode	You can choose strict prior or WFQ (4:3:2:1).
Source IP	The IP address of the source data packet.
Source Mask	The subnet mask of the source IP address.
Destination IP	The IP address of the destination data packet.
Destination Mask	The subnet mask of the destination IP address.
Source Port	The port of the source data packet.
Destination Port	The port of the destination data packet.
Protocol	The protocol responds to the IP QoS rules. You can
	choose <b>TCP, UDP</b> , or <b>ICMP</b> .
Phy Port	The LAN interface responds to the IP QoS rules.
Set priority	The priority of the IP QoS rules. PO is the highest

Field	Description					
	priority and P3 is the lowest.					
IP Precedence	You can choose from 0 to 7 define the priority in the					
	ToS of the IP data packet.					
IP ToS	The type of IP ToS for classifying the data package					
	You can choose Normal Service, Minimize Cost,					
	Maximize Reliability, Maximize Throughput, or					
	Minimize Delay.					
802.1p	You can choose from 0 to 7.					
delete	Select a row in the QoS rule list and click it to delete					
	the row.					
delete all	Select all the rows in the QoS rule list and click it to					
	delete the rows.					

#### 5.6.4. SNMP

Choose **Advanced** > **SNMP**, the page shown in the following figure will appear. Here, you can configure the SNMP parameters.

SNMP	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	Routing	NAT	IP QoS	SNMP	Others		
SNMP	SNM	P Protoco	ol Configui	ration			
			re the SNMP protoco ip address, commun		hange the setting		
	🗹 Ena	ble SNMP					
	System I	Description	ADSL Router/Moden	n IGD			
	System	Contact					
	System I	Name	ADSL Router				
	System I	Location					
	Trap IP /	Address					
	Commu	nity name	public				
	Commu	nity name	public				
	Apply	Changes R	eset				

Field	Description				
	Select Enable to enable SNMP function. You need to				
Enable SNMP	enable SNMP in order to configure the parameters of				
	this page.				
Tran ID Address	Enter the trap IP address. The trap information is sent				
Trap IP Address	to the corresponding host.				

Community name (read-	The network administrators must use this password to
only)	read the information of this router.
Community name (read-	The network administrators must use this password to
write)	configure the information of the router.

# 5.6.5. Others

Select Advanced > Others. The submenu contains Bridge Setting, Client Limit and Others.

# 5.6.5.1. Bridge Setting

Click **Bridge Setting** in the left pane and you will arrive at the following page. This page is used to configure the bridge parameters. You can change the settings or view some information on the bridge and its attached ports.

Bridge Setting	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
Bridge county	Routing	NAT	IP QoS	SNMP	Others		
Bridge Setting Client Limit	Bridg	je Setting					
Others		is used to configu r view some inform					
	Ageing T 802.1d S	Fime: 3 panning Tree: (	300 ⊙Disabled ○Ena	(seconds) bled			
	Apply	Changes R	eset Show MAC	S			

Field Description					
Aging Time	If the host is idle for 300 seconds (default value), its entry				
	is deleted from the bridge table.				
802.1d Spanning	You can select <b>Disabled</b> or <b>Enabled</b> .				
Tree	Select Enabled to provide path redundancy while				
	preventing undesirable loops in your network.				
Show MACs	Click to show a list of the learned MAC addresses for the				
	bridge.				

Click **Show MACs** and the following page will appear. This table shows a list of learned MAC addresses for this bridge.

orwarding Table				
Aging Time				
300				
300				
300				
300				
300				

#### 5.6.5.2. Client Limit

Click **Client Limit** in the left pane, the page shown in the following figure will appear. This page is used to configure the capability of force how many devices can access to Internet.

Client Limit	Status	Wizard	Network	Ser	vice	Advanced	Admin	Diagnostic
	Routing	NAT	IP QoS		SNMP	Others		
Bridge Setting Client Limit	Clien	t Limit C	onfiguratio	n				
Others	This page Internet!	This page is used to configure the capability of force how many device can access to Internet!						
		mit Capability: Changes	۱	Disable	OEnab	e		

#### 5.6.5.3. Others

Click **Others** in the left pane, and you will see the following page. You can enable half bridge so that the PPPoE or PPPoA connection will set to Continuous.



# 5.7.Admin

In the navigation bar, click **Admin**. The **Admin** page that is displayed contains **Commit/Reboot**, **Update**, **Log**, **Password** and **Time**.

# 5.7.1. Commit/Reboot

Choose **Admin** > **Commit/Reboot**. From here you can set the router reset to the default settings or set the router to commit the current settings to system memory.

Admin	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	Commit/Reboot	Update	Log	Password	Time		
Commit/Reboot		nit/Reboo					
	This page is different con Reboot fro	figurations.	It Configuration		your system with		
	Commit	Changes	Reset Reboot				

Field	Description
	You can choose Save the current configuration or
	Restore to the factory default configuration.
	• Save the current configuration: Saves the
Reboot from	current settings, and then reboots the router.
	<ul> <li>Restore to the factory default configuration:</li> </ul>
	Resets to factory default settings, and then
	reboots the router.
Reboot	Click to reboot the router.

# 5.7.2. Update

Choose Admin > Update. The Update Firmware page that is displayed contains Upgrade Firmware and Backup/Restore.

# **A** Caution:

Do not turn off the router or press the Reset button while these procedures are in progress.

# 5.7.2.1. Upgrade Firmware

Click **Upgrade Firmware** in the left pane, and you will see the following page. Here, you can upgrade the firmware of the router.

Upgrade Firmware	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
opgrado i miniaro	Commit/Reboot	Update	Log	Password	Time		
Upgrade Firmware Backup/Restore	Upgra	de Firmv	vare				
	This page a note,do not						
	Note:Syster	m will reboot afte	r file is uploaded.				
	Select File	e:		Bro	wse		
	Upload	Reset					

Field	Description					
Select File	Click Browse to select the firmware file.					
Upload	After selecting the firmware file, click <b>Upload</b> to starting upgrading the firmware file.					
Reset	Click to starting selecting the firmware file.					

# 5.7.2.2. Backup/Restore

Click **Backup/Restore** in the left pane, and you will see the following page. You can backup the current settings to a file or restore the settings to a previously saved file.

Backup/Restore	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	Commit/Reboot	Update	Log	Password	Time		
Upgrade Firmware Backup/Restore	Backu	p/Restor	e Settings	;			
Luonapiricotoro				configuration settings configuration setting		file on	
		ngs to File: ngs from File:	Save		Browse Ut	bload	

Field	Description						
Save Settings to File	Click here and select the location to save the configuration file of the router.						
Load Settings from File	Click <b>Browse</b> to select the configuration file.						
Upload	After selecting the configuration file, click <b>Upload</b> start uploading the configuration file of the router.						

# 5.7.3. Log

Choose **Admin** > **Log**, from here you can enable or disable system log function and view the system log.

Log	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	Commit/Reboot	Update	Log	Password	Time		
Log	Log S	etting					
		set the log flag. B		g table. By checking ", it will display the r			
	Error:		Notice:				
	Apply Cl	hanges Res	et				
	Event log T	able:					
	Save Lo Old	og to File	Clean Log Table	]			
	Time Inc	dex Type		Log Information			
	Page: 1/1						

#### 5.7.4. Password

Choose Admin > Password, and you will see the following page. By default, the super user name and password are **admin** and **1234** respectively. The common user name and password are **user** and **user** respectively.

Password	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
lassinona	Commit/Reboot	Update	Log	Password	Time		
Password	User A	ccount	Configura	tion			
			er account to acces password is not allo	s the web server of a wed.	ADSL		
	User Name	:					
	Privilege:	U	ser 🚩				
	Old Passwo	ord:					
	New Passw	vord:					
	Confirm Pa	issword:					
	Add Modi	ify Delete	Reset				
	User Accour Select	nt lable:	User Name		Privilege		
			admin		root		
	0		user		user		

Field	Description
User Name	Choose the user name for accessing the

Field	Description
	router. You can choose <b>admin</b> or <b>user</b> .
Privilege	Choose the privilege for the account.
Old Password	Enter the old password
New Password	Enter the password to which you want to change the old password.
Confirm Password	Enter the new password again.

#### 5.7.5. Time

Choose **Admin** > **Time**, the page shown in the following figure appears. You can configure the system time manually or update the system time from a time server.

Time	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	Commit/Reboot	Update	Log	Password	Time		
Time	This page is	used to configure		and Network Time Pr		Here you can cha	ange the
	System Tin DayLight:		∕ear Jan 👻 Mont	time and NTP paran	Hour 45 min	33 sec	
	Apply Cl	nanges Rese	et				
	NTP Config	uration:					
	State:		⊙Disable ○En	able			
	Server:						
	Server2:						
	Interval:		Every 1	nours			
	Time Zone	:	(GMT) Gambia, L	iberia, Morocco, Eng	gland		~
	GMT time:		Thu Jan 1 1:45:33	1970			
	Apply Cł	nanges Rese	et				
	NTP Start:		Get GMT	Time			

Field	Description
System Time	Set the system time manually.
NTP Configuration	
State	Select enable or disable NTP function. You need to

Field	Description
	enable NTP if you want to configure the parameters of NTP.
Server	Set the primary NTP server manually.
Server2	Set the secondary NTP server manually.
Time Zone	Choose the time zone in which area you are from the drop down list.

#### 5.8. Diagnostic

In the navigation bar, click **Diagnostic**. The **Diagnostic** page that is displayed contains **Ping**, **Traceroute**, **OAM Loopback**, **ADSL Statistics** and **Diag-Test**.

#### 5.8.1. Ping

Choose **Diagnostic** > **Ping**. The page shown in the following figure will appear.

Diagnostic	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	Ping	Traceroute	OAM Loopback	ADSL Statistics	Diag-Test		
Ping	Ping	Diagnosti	C				
	Host :						

Field	Description
Host	Enter the valid IP address or domain name.
PING	Click it to start to Ping.

#### 5.8.2. Traceroute

Choose **Diagnostic** > **Traceroute**. Using this route diagnosis you can see the route your PC data takes to another PC on the Internet.

Traceroute	Status	Wizard	Network	Service	Advanced	Admin	Diagnostic
	Ping	Traceroute	OAM Loopback	ADSL Statistics	Diag-Test		
Traceroute	Trace	eroute Diag	gnostic				
	Host :			NumberOfTries :	3		
	Timeout :	5000 ms		Datasize :	38 Bytes		
	DSCP :	0		MaxHopCount :	30		
	Interface :	any 🖌					
	Tracero	ute Show Res	ult				

Field	Description
Host	The address of a destination host to be diagnosed.
NumberOfTries	Repeat times.
Timeout	Timeout duration.
Datasize	Data packet size.
DSCP	A differentiated services code point in the TOS identification byte for service categories in the IP header of every data packet. A DSCP prioritizes by coding values using the used 6-bit bytes and unused 2-bit bytes.
MaxHopCount	Maximum number of routes.
Interface	Select an interface.
Traceroute	Click to start tracing the route.
Show Result	Click to display the result.

#### 5.8.3. OAM Loopback

Choose **Diagnostic** > **OAM Loopback**, and you will see the following page. Connectivity verification is supported by the use of the OAM loopback capability for both VP and VC connections. This page is used to perform the VCC loopback function to check the connectivity of the VCC.



# 5.8.4. ADSL Statistics

Choose **Diagnostic** > **ADSL Statistics**. The page shown in the following figure will appear. This page is used for ADSL tone diagnostics.

ADSL Statistics	Status	Wizard	Network	Servic	e	Advanced	Admin	Diagnostic
	Ping	Traceroute	OAM Loopba	k ADSL S	tatistics	Diag-Test	t	
ADSL Statistics	Diag	nostic AD	SL					
	ADSL To	one Diagnostic					_	
	Start							
		[	Downstream	Upstream				
	Hlin Sca	ale						
	Loop At	tenuation(dB)						
	Signal A	Attenuation(dB)						
	SNR Ma	rgin(dB)						
	Attainab	ole Rate(Kbps)						
	Output F	Power(dBm)						
	Tone Numb	- H Roal	H.Image	SNR	QLN	Hlog		
	0							
	1							
	2							

Click **Start** to start ADSL tone diagnostics.

# 5.8.5. Diag-Test

Choose **Diagnostic** > **Diag-Test**, and you will arrive at the following page. Here, you can test the DSL connection. You can also view the LAN status connection and ADSL connection.



Click Run Diagnostic Test to start testing.

# **5.9.Trouble Shooting**

Question	Answer
Why are all the indicators off?	<ul> <li>Check the connection between the power adapter and the power socket.</li> <li>Check whether the power switch is turned on.</li> </ul>
Why is the <b>LAN</b> indicator off?	<ul> <li>Check the following:</li> <li>The connection between the device and your PC, hub or switch.</li> <li>The running status of the computer, hub, or switch.</li> </ul>
Why is the <b>ADSL</b> indicator off?	Check the connection between the Line port of the device and the wall jack.
Why Internet access fails while the ADSL indicator is on?	Check whether the VPI, VCI, user name and password are correctly entered.
Why I fail to access the web configuration page of the DSL router?	Choose <b>Start</b> > <b>Run</b> from the desktop, and ping <b>192.168.2.1</b> (IP address of the DSL router). If the DSL router is not reachable, check the type of network cable, the connection between the DSL router and the PC, and the TCP/IP configuration of the PC.
How to load the default settings after incorrect configuration?	<ul> <li>To restore the factory default settings, turn on the device, and press the reset button for about 3 seconds, and then release it. The default IP address and the subnet mask of the DSL router are</li> <li>192.168.2.1 and 255.255.255.0, respectively.</li> <li>User/password of super user: admin/1234</li> <li>User/password of common user: user/user</li> </ul>



# **Declaration of Conformity**

We, Edimax Technology Co., LTD., declare under our sole responsibility, that the equipment described below complies with the requirements of the European Council directive (2004/108/EC, 92/31/EEC, 2006/95/EC).

Equipment : Fast Ethernet ADSL2/2+ Modem Router

AR-7211A V2 / AR-7211B V2 Model No.

> The following European standards for essential requirements have been followed: EMI:EN 55022:2010

EN 61000-3-2:2006+A1:2009+A2:2009 EN 61000-3-3:2008

EMS:EN 55024:2010 EN 61000-4-2:2009 EN 61000-4-3:2006+A1:2008+A2:2010 EN 61000-4-4:2004+A1:2010 EN 61000-4-5:2006 EN 61000-4-6:2009 EN 61000-4-11:2004

#### LVD: EN-60950-1:2006

Edimax Technology Co., Ltd. No. 3, Wu Chuan 3rd Road, Wu-Ku Industrial Park. New Taipei City, Taiwan

Date of Signature: October, 2012

Signature:

Printed Name:

Title:∉

Albert Chang. Director<sub>e</sub> Edimax Technology Co., Ltd.

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