

# **User Manual**

# Broadband ADSL 2/2+ Router

**KM-410P** 

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# **1. Introduction**

The KM-410P supports multiple line modes. It provides four 10/100Base-T Ethernet interface at the user end. Utilizing the high-speed ADSL connection, the device provide users with broadband connectivity to the Internet or the Intranet for high-end users as net bars, office users, etc. can provide a downlink speed up to 24 Mbit/s and uplink speed up to 1 Mbit/s.

# 1.1 Package List

- One ADSL device(ADSL four port router)
- One external splitter
- One power adapter
- Two pieces of telephone lines(RJ-11,more than 1.8m)
- One piece of Ethernet cable(RJ-45, more than 1.8m)
- One copy of User's Manual
- A quality guarantee card
- A centificate of quality
- One copy of driver and utility software CD(optional)

# **1.2 Safety Cautions**

Follow these announcements below to pretect 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 packed within the device package.
- Pay attention to the power load of the outlet or prolonged lines. An overburden power outlet or damaged lines and plugs may cause electric shock or fire accident. Check the power cords regularly. If you find any damage, replace it at once.
- Proper space left for heat radiation is necessary to avoid any damage caused by overheating to the device. The long and thin holes on the Access Point are designed for heat radiation to make sure the device works normally. Don't cover these heat radiant holes.
- Do not put this device close to a place where a heat source exits or high temperature occurs. Avoid the device from direct sunshine.
- Do not put this device close to a place where is over damp or watery. Do not spill any fluid on this device.
- Do not connect this device to any PC or electronic product, unless our customer engineer or your broadband provider instructs you to do this, because any wrong connection may cause any power or fire risk.
- Do not place this device on an unstable surface or support.

# **1.3 Descriptions of LEDs and Interfaces**

Front panel



LED	Color	Status	Descriptions			
		OFF	No power			
DU/D		GREEN	Device init OK			
РЖК	Green/Red	RED	Device init			
		RED BLINK	Fireware upgrade			
	Green	OFF	No WAN link			
DATA		BLINK	WAN data transiting			
		ON	WAN link established and active			
	Green	OFF	Initial self-test failed			
LINK		BLINK	Device is detecting itself			
		ON	Initial self-test of the unit is OK and ready			
	ļ	OFF	No LAN link			
4/3/2/1	Green	BLINK	LAN data transiting			
		ON	LAN link established and active			

Rear panel



1 is 1.5 2 item puner
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Items	Usage
Line	Line RJ-11 port
Reset	Resets to factory defaults. To restore factory defaults, keep the device powered on and push a paper clip in to the hole. Press down the button over 5 seconds and then release.

Items	Usage
Ethernet	Ethernet RJ-45 port
$\bigcirc$	Power On/Off.
Power	Power connector. DC 12 Voltage/1000mA,female pole is positive.

# **1.4 System Requirements**

Make sure first that you have prepared these following items to guarantee the ROUTER can work normally.

- Services subscriptions
- An 10BaseT/100BaseT Ethernet card installed on your PC
- HUB or Switch. (Attached to several PCs through one of Ethernet interfaces on the device)
- Operation system: Windows 98SE, Windows 2000, Windows ME, or Windows XP
- Internet Explorer V5.0 or higher, or Netscape V4.0 or higher, or firefox 1.5 or higher.

## **1.5 Feature**

- Supports various line modes
- Supports external PPPoE dial-up access
- Supports internal PPPoE/PPPoA dial-up access
- Supports leased line mode
- Supports ZIPB (Zero Installation PPP Bridge Mode)
- Supports 1483B/1483R/MER access
- Supports multiple PVCs(eight at most) and these PVCs can be isolated from each other
- Support a single PVC with multiple sessions
- Support multiple PVCs with multiple sessions
- Supports the binding of the ports and the PVCs
- Supports the 802.1Q and 802.1P protocol
- Supports DHCP server
- Supports NAT/NAPT
- Supports static route
- Supports firmware upgrade: WEB/tftp/ftp
- Supports reset to factory default:reset, WEB
- Supports DNS relay
- Supports Virtual server
- Supports DMZ functions
- Supports two-level passwords and usernames
- Supports WEB interface
- Supports telnet CLI
- Supports System status display
- Supports PPP session PAP/CHAP
- Supports IP filter function

- Supports IP QoS function
- Supports remote access control
- Supports line connection status test
- Supports remote management (Telnet; HTTP)
- Supports configuration file backup and restoration function
- Ethernet supported such as Crossover Detection & Auto-Correction and polarity correction
- Supports UPnP

# 2. Hardware Installation

1. Refer to the figure below: Connect the DSL port of the device and the ROUTER port of the splitter with a telephone cable; connect the phone to the Phone port of the splitter through a cable; connect the incoming line to the Line port of the splitter.

The splitter has three ports:

LINE: Connects to a wall phone jack (RJ-11 jack)

ROUTER: Connects to the DSL jack of the device

PHONE: Connects to a telephone set

- 2. Connect the LAN port of the device to the network card of the PC via an Ethernet line (MDI/MDIX).Note: Use twisted-pair cables to connect with the HUB/Switch.
- 3. Plug the power adapter to the wall outlet and then connect the other end of it to the PWR port of the device.

Connection 1: Fig. 2-1 displays the application diagram for the connection of the Router, PC, splitter and telephone set  $_{\circ}$ 



Fig 2-1 Connection Diagram (Without connecting telephone sets before the splitter)

Connection 2: As illustrated in the following figure, the splitter is installed close to the device.



Fig 2-2 Connection Diagram (Connecting a telephone set before the splitter)

- It is **recommended** to follow the Connection 1 in an actual connection!
- Note: When Connection 2 is used, the filter must be installed close to the telephone lines. (See Fig. 2-2. Do not use the splitter instead of the filter).

Installing a telephone directly before the splitter may lead to a failure of connection between the device and the device of LAN side, or cannot access into the Internet, or slow the connection speed if you really need to add a telephone set before the splitter, you have to add a MicroFilter before connecting to a telephone set. Do not connect several telephones before the splitter. Moreover, do not connect several telephones with MicroFilters.

# **3. Introducing the Web Configurator**

# 3.1 How to access ROUTER

The following introductions are prepared for the first time users, it is a detail "How-To" user guide.

- 1. Open IE browser, then enter <u>http://192.168.1.1</u> in address bar.
- 2. You are required to enter user name and password. See the Fig 3.1-1.
- The super user name and password is admin/admin
- The common user name and password is user/user

۵	Input	username	and	password
Username:				
Password:				
	Login	n		
	Fig	3.1-1		

3. If you enter as super user, the below screen will be displayed when you enter successfully.

Status	Status	<b>V</b> izard	LAN	WAN	Advance	Admin	Diagnostic			
	System   LA	N   WAN   Port N	lapping   Sta	tistic ARP Tab	le					
System Status	Syst This pag	em Stat	<b>US</b> current sta	tus and some ba	sic settings o	f the devic	e			
	System									
	Alias	Name		ADSL Modem/Rout	ter					
	Softwa	re Version		1.3.9						
	DSP Ve	rsion		2. 8. 1. 3						
	DSL.									
	DSL mode T1.413 G.Dmt ADSL2 ADSL2+									
	DSL St	atus		ACTIVATING.						
	Upstre	am Speed		O kbps ()						
	Downstrean Speed     0 kbps ()       Upstrean SNR     0.0dB       Downstrean SNR     0.0dB									
	reconnection Counts 0									
	Uptime			3 min						
	Showt i	∎e								

Fig 3.1-2

After you enter router as super user, you can check, config and modify all the options. You can use the system diagnostic function also.

If you enter as common user, you can check the status of ROUTER, but can't change the most of options.

# 3.2 Status

Click **Status** in the menu to open the sub-menu which contains 6 items: **System**, **LAN**, **WAN**, **Port Mapping**, **Statistic** and **ARP Table**.

#### 3.2.1 System

Click **System** in the sub-menu to open the screen of Fig 3.2.1. In this page, you can view the current status and some basic settings of this router, for example, Software Version, DSL mode, Upstream Speed, Downstream Speed, Uptime and so on.

Status	Status	<b>▼</b> izard	LAN	WAN	Advance	Admin	Diagnostic
	System   LAM	N   WAN   Port N	lapping   Sta	tistic   ARP Tał	ble		
System Status	<b>Syst</b> This pag	em Stat	<b>US</b> current stat	tus and some ba	asic settings c	of the devic	:e
	System						
	Alias 1	Name		ADSL Modem/Rou	iter		
	Softwa	re Version		1.3.9			
	DSP ¥e:	rsion		2.8.1.3			
	DSL						
	DSL mo	de		T1.413 G.Dmt #	ADSL2 ADSL2+		
	DSL St	atus		ACTIVATING.			
	Upstre	am Speed		0 kbps ()			
	Downst	ream Speed		O kbps ()			
	Upstre	an SNR		0.0dB			
	Downst	ream SNR		0.0dB			
	reconn	ection Count	ts	0			
	Uptime			3 min			
	Showt in	ne					

Fig 3.2.1

# 3.2.2 LAN

Click **LAN** in the sub-menu to open the screen of Fig 3.2.2. In this page, you can view the LAN IP, DHCP Server status, MAC Address and DHCP Client Table. If you want to config the LAN network, refer to chapter 3.4.1 "LAN Settings".

Status	Status	<b>▼</b> izard	LAN	WAN	Advance	Admin	Diagnostic			
	System   🗋	AN   WAN   Port	: Mapping   St	atistic ARP	'Table					
LAN Status	Lan	Status		f I						
	Ihis page shows some basic status of Lan.									
		<i>a</i>								
	LAN Co	nfiguratio	n							
	IP Add	ress		192.168.1.1						
	Subnet	Task		255.255.255	.0					
	DHCP S	erver		Enabled						
	IAC Ad	dress		00-e0-4c-86	-70-01					
	DHCP CI	lient Table								
	IP Add	ress	TAC Add	lress	T:	ime Expire	d(s)			
	None									

Fig 3.2.2

#### 3.2.3 WAN

Click **WAN** in the sub-menu to open the screen of Fig 3.2.3. In this page, you can view basic status of WAN, Default Gateway, DNS Server, ect. If you want to config the WAN network, refer to chapter 3.5.1 "WAN Interface".

Status	Status	Vizard	I L	AN	VAN	Advance	e Admin	Diagnostic
	System   LA1	N   WAN   Po	rt Mappin	ug   Stati	stic ARP T.	able		
WAN Status	WAN This pag	Statu ge shows :	I <b>S</b> some basid	c status	of Wan.			
	Inte	rface	VPI/VCI	Encap	Protocol	IP Address	s Gateway	Status
	Interne	et_R_8_35	8/35	LLC	PPPoE			down Osec / Osec
	Defaul Gatewa	t 9						
	DNS Se	rvers						

Fig 3.2.3

#### **3.2.4 Port Mapping**

Click **Port Mapping** in the sub-menu to open the screen of Fig 3.2.4. In this page, you can view the mapping relation and the status of port mapping.

Status	Status	▼izard	LAN	VAN	Ådvar	ce Admin	Diagnostic
	System   LAN	WAN Port N	lapping   Stat	tistic ARP Ta	ible		
Port Mapping	<b>Port</b> This pag	Mappin	<b>g</b> mapping rel	ation and the	status of	port mapping.	
Status: Disabled							
	Tapping	g Relation	n				
	Select		Interface		Priority		
	Default	LAN4, LAN3, L	AN2, LAN1, In	ternet_R_8_35	low		
	Group1				low		
	Group2				low		
	Group3				low		
	Group4				low		

Fig 3.2.4

# 3.2.5 Statistic

Click **Statistic** in the sub-menu to open the menu in the left bar, whick contains two items:**Traffic Statistic** and **DSL Statistic**.

#### **3.2.5.1 Traffic Statistic**

Click **Traffic Statistic** in the left bar to open the screen of Fig 3. 2.5.1. In this page, you can view the statistics of each network port.

Status	Status	Vizard	LAR	ſ	WAN	Ådvan	ce A	dmin
	System   LA	N   WAN   Port	Mapping	Statist	ic ARP T	able		
Traffic Statistic DSL Statistic	Stat This pa	<b>istics</b> ge shows the		<b>Port</b>	ach netwo	rk port.		
	Int	erface	Rx pkt	Rx err	Rx drop	Tx pkt	Tx err	Tx drop
		eth0	585	0	0	623	0	0
	Intern	et_R_8_35	0	0	0	0	0	0
	Intern	et_R_8_35	0	0	0	0	0	0

Fig 3.2.5.1

#### 3.2.5.2 DSL Statistic

Click **DSL Statistic** in the left bar to open the screen of Fig 3.2.5.2. In this page, you can view the ADSL line statistics, downstream rate, upstream rate, ect.

Status	Status	<b>▼</b> izard	LAN	VAN	Advance	Admin	Diagnostic
	System   LA	N   WAN   Port	Mapping   Sta	tistic ARP T	'able		
Traffic Statistic DSL Statistic	Stat	<b>istics</b> ne statistic	ADS	L			_
	Lode						
	Latenc	у					
	Trelli	s Coding	Enable				
	Status		ACTIVATI	WG.			
	Power 1	Level	LO				

Fig 3.2.5.2

#### 3.2.6 ARP Table

Click **ARP Table** in the sub-menu to open the screen of Fig 3.2.6. In this page, you can view the talbe which shows a list of learned MAC addresses.

Status	;	Statu <i>s</i>	Vizard	LAN	VAN	Advance	Admin	Diagnostic	
		System 1	LAN   WAN   Por	t Mapping	Statistic	ARP Table			
ARP Table		ARP '	Table	ist of lear	med MAC a	ddresses.			
		IP Add	ress		TAC	Address			
		192.168.1.22 00-16-76-E1-67-74							
		Refres	h						

Fig 3.2.6

#### 3.3 Wizard

Click Wizard in the menu to open the sub-menu which contains one item: Wizard.

#### 3.3.1 Wizard

**Wizard** enables speedy and accurate configuration of your Internet connection and other important parameters. The following sections describe these various configuration parameters. Whether you configure these parameters or use the default ones, click 'Next' to enable your Internet connection.

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 Ethernet, DSL, or both. Technical information regarding the properties of your Internet connection should be 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, or what protocols, such as PPPOA or PPPoE, you will be using to communicate over the Internet.

Click **Wizard** in the sub-menu to open the screen of Fig 3.3.1-1. In this page, you can config the VPI/VCI number.

Wizard	Status	♥izard	LAN	WAN	Advance	Admin	Diagnostic			
	Wizard									
₩izard	₩iza	rd								
	This Wi DSL Rou	This Wizard will guide you through the steps necessary to configure your DSL Router.								
	Note: Th	Note:This PVC will instead of the first original PVC.								
	ATT PV	ATT PVC Configuration								
	The Virt needed f	The Virtual Path Identifier (VPI) and Virtual Channel Identifier (VCI) are needed for setting up the ATM PVC.								
	Do not c	nange Vri :	and VCI numi	ers uniess j	your ISP inst	ructs you	otherwise.			
	VPI: 0	0-2	55)							
	VCI:	35 (32-	65535)							
							Next>			

Fig 3.3.1-1

Be sure to use the correct Virtual Path Identifier(VPI) and Virtual Channel Identifier(VCI) numbers assigned to you. The valid range for VPI is 0 to 255 and for VCI is 32 to 65535(0 to 31 is reserved for local management of ATM traffic).

Then press **Next**, the Fig 3.3.1-2 screen will appear. In this page, you can select the WAN Connect Type and the encapsulation method.

₩izard	Status	<b>♥</b> izard	LAN	WAN	Ådvance	Admin	Diagnostic	
	Wizard							
₩izard	Connec	tion Type	е					
	Select t PVC that	he type of your ISP h	network pro nas instruct	tocol and en ed you to un	ncapsulation se.	mode over	the ATM	
<b>WAN Connection Type:</b> OPPP over ATM(PPPoA)								
			01	PPP over E	thernet (PPP)	σE)		
			0	1483 MER				
			0	1483 Route	d			
			۲	1483 Bridg	ed			
	Encaps	ulation	Lode: LLC	C/SNAP 🔽				
					(	< Back	Next >	

Fig 3.3.1-2

The following table describes the fields in this screen.

Label	Description
WAN Connection Type	Select the WAN Connection Type here, you can select <b>PPPoA</b> , <b>PPPoE</b> ,
	1483 MER, 1483 Routed or 1483 Bridged.
Encapsulation Mode	Select the method of encapsulation used by your ISP from the drop-down
	list box. Choises are LLC/SNAP or VC-Mux.
< Back	Click < <b>Back</b> to return to the previous screen
Next >	Click <b>Next</b> > to go to the next screen

If you select PPPoA or PPPoE in WAN Connection Type, click **Next**, the screen of Fig 3.3.1-3 appears as shown next.

Wizard	Status	<b>▼</b> izard	LAN	WAN	Advance	Admin	Diagnostic
	Wizard						
Wizard	WAN IP	Setting	S				
	Enter in	formation p	provided to	you by your	ISP to config	ure the W	AN IP settings.
	⊙Obtai ○Use t WAN I	n an IP ad he followi P Address:	dress autom: ng IP addre: 0.0.0.0	atically ss:			
	🗹 Enabl	e NAT			C	< Back	Next >

Fig 3.3.1-3

The following table describes the fields of this screen.

Label	Description
Obtain an IP address	The dynamic IP is not fixed; your ISP assigns you the different one each
automatically	time.
Use the following IP	A static IP is a fixed IP that your ISP gives you.
address	
WAN IP Address	Input the IP address of the WAN interface provided by your ISP
Enable NAT	Select it to enable the NAT functions of the MODEM. If you are not to
	enable NAT and intend the user of the MODEM to access the Internet
	normally, you must add a route on the uplink equipment; otherwise the
	access to the Internet will fail. Normally, it is required to enable NAT.
< Back	Click < <b>Back</b> to return to the previous screen
Next >	Click <b>Next</b> > to go to the next screen

Then click **Next**, the screen of Fig3.3.1-4 appears as shown next.

Wizard	Status	<b>▼</b> izard	LAN	WAN	Advance	Admin	Diagnostic
	Wizard						
Wizard	PPP Use PPP usus connect: In the h you. PPP User PPP Pass PPP Conn Type:	ername ar ally require ion. poxes below, mame: sword: nection	<ul> <li>A Passwor</li> <li>es that you h</li> <li>enter the u</li> <li>Continuous</li> <li>Connect or</li> <li>Idle Time:</li> <li>Manual</li> <li>Idle Time</li> </ul>	d ave a user nam ser name and p n Demand 20	e and passwor bassword that	d to establ your ISP ha	lish your as provided to xt ≻

Fig 3.3.1-4

The following table describes the fields of this screen.

Label	Description
PPP Username	The username and password apply to PPPoE and PPPoA encapsulation
PPP Password	only. Make sure that you have entered the correct username and password.
PPP Connection Type	Choices are Continuous, Connect on Demand and Manual.
< Back	Click < <b>Back</b> to return to the previous screen
Next >	Click <b>Next</b> > to go to the next screen

Then click Next, the screen of Fig3.3.1-5 appears as shown next.

Wizard	Status	<b>▼</b> izard	LAN	WAN	Advance	Admin	Diagnostic			
	Wizard									
Wizard	LAN Interface Setup									
	This pag	ge is used t	o configure	the LAN inter	face of your A	ADSL Router.				
	LAN IP:		192.168.1	. 1						
	LAN Netn	nask:	255.255.2	55.0						
	🗹 Enabl	▼Enable Secondary IP								
	Secondar	ry LAN IP:		19	2.168.100.1					
	Secondar	ry LAN Netma	ask:	25	5.255.255.0					
	DUGD C									
	DHCL 2	erver								
	Set and	configure t	he Dynamic H	ost Protocol	mode for your	device.				
	€nabl	le DHCP Serv	ver							
	Start IF	? <b>:</b>	192.168.1	. 2						
	Eng IP:		192.168.1	. 254						
	Max Leas	se Time:	1 Day not limite	Hour 0	Min (If all i	s -1,Max Lea:	se Time is			
					I ≥ 1	Back Next	: >			

Fig 3.3.1-5

The following table describes the fields of this screen.

Label	Description
LAN IP	Enter the IP address of your ROUTER in dotted decimal notation, for
	example, 192.168.1.1(factory default)
LAN Netmask	Type the subnet mask of LAN IP.
Enable Secondary IP	Select this check box to enable the secondary LAN IP
Secondary LAN IP	Enter the secondary IP address of your ROUTER in dotted decimal
	notation, for example, 192.168.100.1(factory default)
Secondary LAN Netmask	Type the subnet mask of the secondary LAN IP
Enable DHCP Server	Select this check box to enable the DHCP Server
Start IP	This field specifies the first of the contiguous addresses in the IP address
	pool.
End IP	This field specifies the last of the contiguous addresses in the IP address
	pool.
< Back	Click < Back to return to the previous screen
Next >	Click <b>Next</b> > to go to the next screen

If you finish the settings of this page, click **Next**, the screen appears as shown next.

Wizard	Status	<b>▼</b> izard	LAN	WAN	Advance	Admin	Diagnostic			
	Wizard									
Wizard	WAN Setup - Summary Make sure that the settings below match the settings provided by your ISP.									
	WAN Setup:           VPI/VCI         0 / 35									
	Connect Type PPPoE LLC/SNAP, connect forever									
	TAN IP auto assigned									
	Reserv	ed Gateway	auto	assigned						
	DNS Se	rver	auto	assigned						
	LAN Co	nfigure:								
	LAN IP		192.	168.1.1 / 255	5.255.255.0					
	Second	ary IP	192.	168.100.1 / 2	255.255.255.0					
	DHCP S	erver	Enab	led						
	DHCP I	P Range	192.	168.1.2 $\sim$ 19	2.168.1.254					
	DHCP Lease Time 1day Ohour Omin									
	Click "H to make く Bao	<sup>3</sup> inish" to s any modific ck Finis	ave these s ations. h	ettings. <mark>Then</mark>	system will re	boot. Clic	k "Back"			

Fig 3.3.1-7

If you select 1483 MER in Fig 3.3.1-2, the screen appears as shown next.

Wizard	Status	<b>▼</b> izard	LAN	WAN	Advance	Admin	Diagnostic
	Wizard						
Wizard	WAN IP	Settings	:				
	Enter in	nformation p	rovided to y	ou by your IS	SP to configure	the WAN II	? settings.
	⊙ Obt	ain an IP ad	ldress automa	tically			
	🔿 Use	the followi	ng IP addres	:s:			
	WAN	IP Address:	0.0.0.0				
	WAN	Subnet Mask	: 255.255.2	55.0			
	Def	ault Gateway	<b>7:</b> 0.0.0.0				
	⊙ Obt	ain DNS serv	ver addresses	automatical:	ly:		
	🔿 Use	the followi	ng DNS serve	er addresses:			
	Pris	mary DNS	0.0.0.0				
	Sec	ondary DNS ver:	0.0.0.0				
	🗹 Enat	ole NAT					
					< E	ack Ne	xt >

Fig 3.3.1-8

The following table describes the fields of this screen.

Label	Description
Obtain an IP address	The MODEM will obtain a (WAN) IP address automatically and at this
automatically	time it will enable DHCP Client functions. The WAN IP address is
	obtained from the uplink equipment like BAS and the uplink equipment is
	required to enable the DHCP Server functions.
Use the following IP	If you want to input the WAN ip address by yourself. Check this entry and
address	then input related data in the field.
WAN IP Address	Input the IP address of the WAN interface provided by your ISP
WAN Subnet Mask	Input the subnet mask concerned to the IP address of the WAN interface
	provided by your ISP.
Default Gateway	You can input the IP address of the default gateway by yourself, click this
	entry and then input related data in the fields.
Obtain DNS server	To obtain the IP address of the DNS server assigned by the uplink
addresses automatically	equipment such as BAS.
Use the following DNS	If you want to input the IP address of the DNS server by yourself, click
server addresses	this entry and then input related data in the fields.
Primary DNS server	Input the IP address of the primary DNS server here.
Secondary DNS server	Input the IP address of the secondary DNS server provided by your ISP
	here.
Enable NAT	Select it to enable the NAT functions of the MODEM. If you are not to
	enable NAT and intend the user of the MODEM to access the Internet
	normally, you must add a route on the uplink equipment; otherwise the
	access to the Internet will fail. Normally, it is required to enable NAT.
< Back	Click <b>&lt; Back</b> to return to the previous screen
Next >	Click <b>Next</b> > to go to the next screen

If you finish the settings of this page, click Next, the screen of Fig 3.3.1-6 appears. The settings of this screen, see above paragraphs.

If you select 1483 Routed in Fig 3.3.1-2, the screen of Fig 3.3.1-9 appears as shown next.

₩izard	Status	<b>▼</b> izard	LAN	WAN	Advance	Admin	Diagnostic
	Wizard						
Wizard	<b>WAN IF</b> Enter i:	<b>Settings</b>	; rovided to y	70u by your IS	SP to configure	e the WAN II	P settings.
	<ul> <li>○ Non</li> <li>○ Obt</li> <li>○ Use</li> <li>₩AN</li> <li>₩AN</li> </ul>	e ain an IP ad the followi IP Address: Subnet Mask	ldress automa .ng IP addre: 0.0.0.0 :: 255.255.2	atically ss: 255.0			
	<ul> <li>Obt</li> <li>Use</li> <li>Priser</li> <li>Sec</li> <li>ser</li> <li>Enail</li> </ul>	ain DNS serv the followi mary DNS ver: ondary DNS ver: ble NAT	ver addresse: .ng DNS serve 0.0.0.0 0.0.0.0	s automatical: er addresses:	ly		
					< I	lack Ne	xt >

Fig 3.3.1-9

The following table describes the fields of this screen.

Label	Description
None	
Obtain an IP address	The dynamic IP is not fixed; your ISP assigns you the different one each
automatically	time.
Use the following IP	A static IP is a fixed IP that your ISP gives you.
address	
WAN IP Address	Input the IP address of the WAN interface provided by your ISP
WAN Subnet Mask	Input the subnet mask concerned to the IP address of the WAN interface
	provided by your ISP.
Obtain DNS server	To obtain the IP address of the DNS server assigned by the uplink
addresses automatically	equipment such as BAS.
Use the following DNS	If you want to input the IP address of the DNS server by yourself, click
server addresses	this entry and then input related data in the fields.
Primary DNS server	Input the IP address of the primary DNS server here.
Secondary DNS server	Input the IP address of the secondary DNS server provided by your ISP
	here.
Enable NAT	Select it to enable the NAT functions of the MODEM. If you are not to
	enable NAT and intend the user of the MODEM to access the Internet
	normally, you must add a route on the uplink equipment; otherwise the
	access to the Internet will fail. Normally, it is required to enable NAT.
< Back	Click <b>&lt; Back</b> to return to the previous screen
Next >	Click <b>Next</b> > to go to the next screen

# 3.4 LAN

Click LAN in the menu to open the sub-menu which contains 2 items: LAN Settings and DHCP Settings. You can use the LAN configuration to define an IP address for the DSL Router and configure the DHCP server.

#### 3.4.1 LAN Settings

On this screen you can change the device's IP address. The preset IP address is 192.168.1.1. This is the Private IP address of the DSL Router. This is the address under which the device can be reached in the local network. It can be freely assigned from the block of available addresses.

Click **LAN Settings** in the sub-menu to open the screen of Fig 3.4.1. In this page you can config the LAN network.

LAN	Status	Vizard	LAN	VAN	Advance	Admin	Diagnostic		
	LAN Settin	ngs DHCP Se	ttings						
LAN Interface	LAN	Interf	ace Set	Up					
	This page is used to configure the LAN interface of your ADSL Router. Here you may change the setting for IP addresss, subnet mask, etc								
	Note: Please <u>Commit/Reboot</u> if you want to make this settings effective immediately.								
	Interf	ace Name:	br0						
	IP Add	ress:	192.168.1.	1					
	Subnet	<b>L</b> ask:	255.255.25	55.0					
	Se Se	condary IP							
	Appl	y Changes	)						

Fig 3.4.1

The following table describes the fields of this screen.

Label	Description
IP Address	Input the IP of Local area network interface here.
Subnet Mask	We recommend that you use an address from a block that is reserved for private use. This address block is 192.168.1.1- 192.168.255.254
Secondary IP	Select this checkbox to enable the secondary LAN IP. The two LAN IP must be in the different network.
Apply Changes	Click this button to save the settings of this page.

#### 3.4.2 DHCP Settings

DHCP(Dynamic Host Configuration Protocol) allows the individual client(computers) to obain the TCP/IP configuration at start-up from the centralize DHCP server. You can configure this router as a DHCP server or disable it. DHCP server can assign IP address, an 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 a actual real DHCP server to clients.

If the DHCP was disabled, the screen of Fig 3.4.2-1 appears. You can enable/disable DHCP Server or DHCP Proxy.

LAN	Status	Vizard	LAN	WAN	Advance	Admin	Diagnostic
	LAN Settin	ngs DHCP Se	ttings				
DHCP Settings	DHCP	Serve	r Setup				
DHCP Settings DHCP Settings Enable the DHCP Server if you are using this device as lists the IP address pools available to hosts on your numbers in the pool to hosts on your network as they in This page is also used to configure the DHCP server in Note: Please <u>Commit/Reboot</u> if you want to make this so immediately. LAN IP Address: 192.168.1.1 Subnet Mask: 255.25 Opisable ODHCP Proxy ODHCP Server						DHCP server I. The devic lest Interne Idresses for ngs effecti 55.0	This page e distributes access. DHCP Relay.

Fig 3.4.2-1

If you set to DHCP Proxy, the screen of Fig 3.4.2-2 appears.

LAN	Status	Vizard	LAN	WAN	Advance	Admin	Diagnostic	
	LAN Settin	ıgs DHCP Se	ttings					
DHCP Settings	DHCP	Serve	r Setup					
	Enable the DHCP Server if you are using this device as a DHCP server. This p lists the IP address pools available to hosts on your LAN. The device distri numbers in the pool to hosts on your network as they request Internet access This page is also used to configure the DHCP server ip addresses for DHCP Re Note: Please <u>Commit/Reboot</u> if you want to make this settings effective immediately.							
	LAN IP Address: 192.168.1.1 Subnet Wask: 255.255.255.0 ODisable ODHCP Proxy ODHCP Server							
	DHCP Proxy:							
	DHCP Se Address	erver 3:	172.19.31.4					
					Appl	ly Changes		



The following table describes the fields of this screen.

Label	Description
DHCP Proxy	If set to DHCP Proxy, your ROUTER acts a surrogate DHCP Server and relays the DHCP requests and reponses between the remote server and the client.
DHCP Server Address	Enter the IP address of the actual, remote DHCP server in this field.
Apply Changes	Click this button to save the changes of this page.

If you set to DHCP Server, the screen of Fig3.4.2-3 appears as shown next.

LAN	Status Vizar	1 LAN	VAN	Advance	Admin	Diagnostic		
	LAN Settings DHCF	Settings						
DHCP Settings	DHCP Serv	ver Setup						
	Enable the DHCP lists the IP ad numbers in the This page is al Note: Please <u>Co</u> immediately.	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. This page is also used to configure the DHCP server ip addresses for DHCP Relay. Note: Please <u>Commit/Reboot</u> if you want to make this settings effective immediately. LAN IP Address: 192.168.1.1 Subnet <b>Task:</b> 255.255.255.0						
	DUCP Server							
	IP Pool Range:	192.168.1.2-	• 192.168.1.	254 Show	Client			
	Nax Lease Time:	1 days 0	hours 0	minutes (-1 ind	licates an	infinite lease)		
	Domain Name:	domain. name						
	Gatewa <del>y</del> Address:	192.168.1.1						
	MAC-Base As	signment						
				Appl	y Changes			

Fig 3.4.2-3

The following table describes the fields in this screen.

Label	Description
DHCP Server	If set to DHCP Server, your ROUTER can assign IP addresses, an IP default gateway and DNS Servers to Windows95, Windows NT and other
	systems that support the DHCP client.
IP Pool Range	This field specifies the first and the last of contiguous IP address of the IP
	address pool.
Show Client	Click this button, the screen of Fig 3.5.2-4 appears, which shows the
	assigned IP address of the clients.
Max Lease Time	The Lease time determines the period for which the PCs retain the IP
	addresses assigned to them without changing them.
Domain Name	Input the domain name here if you know. If you leave this blank, the
	domain name obtained by DHCP from the ISP is used. While you must
	enter host name(System Name) on each individual computer, the domain
	name can be assigned from this router via DHCP server.
Gateway Address	Enter the IP default gateway of the IP address pool.
MAC-Base Assignment	Click this button, the screen of Fig3.5.2-5 appears. This function allows
	you assign IP addresses on the LAN to specific individual computers
	based on their MAC address.
Apply Changes	Click this button to save the changes of this page.

Click **Show Client**, the following window appears. In this window, you can view the IP address assigned to each DHCP client.

://192.168.1.1 -	- Active DHCP Client	Table - Licrosoft In.	
	he content TP eddress	NAC address and time	
INIS TADIE SNOWS T	ne assignen if annress	. MAG ANNTESS AND LINE	
inis table snows t expired for each D	HCP leased client.	, mad address and time	
Inis table snows t expired for each D IP Address	HAC Address	Time Expired(s)	

Fig 3.4.2-4

The following table describes the fields in this screen.

Label	Description
IP Address	This field displays the IP address relative to the MAC address.
MAC Address	This field displays the MAC(Media Access Control) address of the
	Every Ethernet device has a unique MAC address. The MAC address is assigned at the factory and consists of six pairs of hexadecimal character, for example, 00-A0-C5-00-02-12.
Time Expired(s)	Here shows the lease time. The Lease time determines the period for which the PCs retain the IP addresses assigned to them without changing them.
Refresh	Click this button to refresh the Active DHCP Client Table.
Close	Click this button to close this window.

Click **MAC-Base Assignment** button, the below window appears. In this page, you can assign IP addresses on the LAN to specific individual computers based on their MAC address.

🗿 http://192.168.1.1 - Static IP Assignment Table - Microsoft Int	
Static IP Assignment Table	
This page is used to configure the static IP base on MAC Address. You can assign/delete the static IP. The Host MAC Address, please input a string with hex number. Such as "00-d0-59-c6-12-43". The Assigned IP Address, please input a string with digit. Such as "192.168.1.100".	
Host IAC Address(xx-xx-xx-xx-xx): 00-00-00-00-00	
Assigned IP Address(xxx.xxx.xxx.xxx): 0.0.0.0	
Assign IP     Modify Assigned IP       Delete Assigned IP     Close	
IAC-Base Assignment Table:	
Select Host MAC Address Assigned IP Address	

Fig 3.4.2-5

The following table describes the fields of this screen.

Label	Description
Host MAC Address	Type the MAC address of a computer on your LAN
Assigned IP Address	This field specifics the IP of the IP address pool.
Assign IP	Click this button after entered Host MAC Address and Assigned IP
_	Address, a row will be added in MAC-Base Assignment Table.
Modify Assigned IP	Select a row in MAC-Base Assignment Table, the MAC address and IP
	address will appears Host MAC Address and Assigned IP Address.
	After modified the MAC Address and IP Address, click this button to save
	the changes.
Delete Assigned IP	Select a row in MAC-Base Assignment Table, then click this button, this
	row will be deleted.
Close	Click this button to close this window.
MAC-Base Assignment	This table shows the assigned IP address based on the MAC address.
Table	

# 3.5 WAN

Click **WAN Interface** in the menu to open the sub-menu which contains 2 items: **WAN Interface** and **ADSL Settings**.

## **3.5.1 WAN Interface**

Click **WAN Interface** in the sub-menu to open the screen of Fig 3.5.1-1. In this page, you can configure WAN Interface of your router.

WAN	Status	Vizard	LA	N		1	I A R	Åd⊽a	nce	Admin	1	Diagno	stic
	WAN Interface	ADSL Settings											
WAN Interface	Channe This page nodes of Note: Ples Current Select	el Config is used to com your ADSL Modem ase <u>Commit/Reboo</u> ATH VC Table: Inf Mon aternet_R_ PPF	gurat: figure the /Router. ht if you de VPI oE 8	ion e param want t VCI 1 81	o mak Encap LLC	s for e thi NAPT On	the channel s settings o IP Add	operatic	n immediately Remote IP	User Name pvcl	Droute On	Status Enabl e	Actions Ø
	VPI: 0 Channel Admin St PPP Sett	VCI: Mode 1483 Bridg atus: • Enabl ings Login Nau Connecti Type:	ed V e OD: me:	<b>isable</b> Continu	E A E	ncap: pplic nable	sulation: cation Modu NAPT Passwoj Vidle T:	<ul> <li>LLC</li> <li>Interne</li> <li>rd:</li> <li>ine (nin)</li> </ul>	○ VC-Mux t ♥				
	VAN IP Settings Add Mod	Iype Local IP Address: Subnet I Default 1 Default	ask: [ Route: ( Undo	E Fixed	d IP ble	ting	Use I Renote Address Unnunbe Enabi	DHCP: IP s: ered: le					

Fig 5.5.1-1	Fig	3.	5.	1	-1
-------------	-----	----	----	---	----

Label	Description
Current ATM VC Table	This table shows the PVCs already existed. It shows the Interface name, Channel Mode, VPI/VCI, Encapsulation mode, local IP Address, Remote IP address, etc. The maximum item of this table is eight.
VPI	(Virtual Path Identifier) The virtual path between two points in an ATM network, and its valid value is 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	Choices are LLC and VC-Mux.
Channel Mode	There are five choices: 1483 Bridged, 1483 MER, PPPoE, PPPoA and 1483 Routed.
Admin Status	If select Disable, this PVC will be unusable.
Enable NAPT	Select it to enable the NAPT functions of the MODEM. If you are not to enable NAPT and intend the user of the MODEM to access the Internet normally, you must add a route on the uplink equipment; otherwise the access to the Internet will fail. Normally, it is required to enable NAPT.
PPP Settings	
Login Name	The correct user name that your ISP has provided to you.
Password	The correct password that your ISP has provided to you
Connection Type	The choices are Continuous, Connect on Demand and Manual.
Idle Time(min)	If select <b>Connect on Demand</b> , you need to input the idle timeout time. Within the preset minutes, if the MODEM doesn't detect the flow of the user continuously, the MODEM will automatically disconnect the PPPOE connection.
WAN IP Settings	
Туре	The choices are <b>Fixed IP</b> and <b>Use DHCP</b> . If set <b>Fixed IP</b> , you should enter the <b>Local IP Address</b> , <b>Remote IP Address</b> and <b>Subnet Mask</b> . If set <b>Use DHCP</b> , your MODEM will be a DHCP client, the WAN IP will be assigned by the remote DHCP server.
Local IP Address	This is the IP of WAN interface which is provided by your ISP.
Remote IP Address	This is the gateway IP which is provided by your ISP.
Subnet Mask	This is the Subnet Mask of the Local IP Address.
Unnumbered	Select this checkbox to enable IP Unnumbered function.
Default Route	
Add	After configuring the parameters of this page, click this button then a new PVC will be added into <b>Current ATM VC Table</b> .
Modify	Select a PVC in the <b>Current ATM VC Table</b> , then modify the parameters of this PVC. When you finish, click this button to apply the change of this PVC.
Delete	Select a PVC in the <b>Current ATM VC Table</b> , then click this button to delete this PVC.
Undo	Click this button to begin configuring this screen afresh.
ATM Setting	Click this button, the Fig 3.5.1-3 will appear. In this page, you can configure ATM PVCs'QoS mode. The details, please see the following pages.
Ø	Click this button, the following screens will appear. In these pages, you can modify the PVCs' parameters.

If the PVC uses PPPoE mode, click 🧳 , the Fig 3.5.1-2 will appear. In this page, you can configure this PPPoE PVC's parameters.

WAN	Status Vizard LAN	WAN	Advance	Admin	Diagnostic
	WAN Interface ADSL Settings				
WAN Interface	PPP Interface -	Modify			
	PPP Interface:	ppp0			
	Protocol:	PPPoE			
	ATT VCC:	8/81			
	Status:	⊙Disable	⊙Enable		
	Login Name:	pvc1			
	Password:	••••			
	Authentication Tethod:	Aut o 🔜			
	Connection Type:	Continuous	~		
	Idle Time(min):	0			
	Default Route:	⊙Disable	⊙Enable		
	ITU:	1400			
	IP Address	⊙Dynamic I	P OStat:	ic IP 🛛	. 0. 0. 0
	Bridge:	⊖Bridged E	thernet (Tra	insparent	Bridging)
		○Bridged P	PPoE(implie	s Bridged	Ethernet)
		⊙Disable B	ridge		
	AC-Name:				
	Apply Changes Return	Undo			

Fig 3.5.1-2

ATM Setting : Click **ATM Setting** button in Fig3.5.1-1, the screen of Fig 3.5.1-3 will appear. In this page, you can configure the parameters of the ATM for your ADSL router, include QoS type, PCR, CDVT, SCR and MBS.

🗿 http	p://19	2.168.1.	1 - ATE S	Settings	- Ticros	oft Inte	ernet Exp	lorer				
	ATM Setting											
	This page is used to configure the parameters for the ATM of your ADSL Router.Here you can change the setting of VPI,QoS etc											
	Curre	nt AIN V(	C Table:									
	索引	VPI	VCI	QoS	PCR	CDVT	SCR	<b>B</b> BS				
	0	8	81	UBR	6000	0						
	VPI: VCI: QoS: UBR											
	PCR:		CDVT:		SCR:		IBS:					
	Apj	ply Change	s U	Indo 🖸	Close							

Fig 3.5.1-3

#### **3.5.2 ADSL Settings**

Click **ADSL Interface** in the sub-menu to open the screen of Fig 3.5.2. In this page, you can select the DSL modulation. Mostly, the user just need to remain this factory default setting. Our modem support these modulations: G.Dmt, G.lite, T1.413, ADSL2, ADSL2+, AnnexL and AnnexM. The router will negotiate the modulation mode with the DSLAM.

WAN	Status	<b>▼</b> izard	LAN	VAN	Advance	Admin	Diagnostic
	WAN Interf	ace ADSL Se	ttings				
ADSL Settings	ADSL	Settir	igs				
	ADSL Set	tings.					
	ADSL To	dulation:					
			🗌 G.Lite				
			🗹 G. Dmt				
			🗹 T1.413				
			🗹 ADSL2				
			🗹 ADSL2+				
	AnnexL	Option:					
			🗹 Enable				
	Annex	Option:	_				
	ADCI C	1:1:.	Enable				
	ADSF Ca	pability:		D.'.			
			Enable .	bitswap 			
			⊻ Enable	SKA			
	Apply	Changes					

Fig 3.5.2

# 3.6 Advance

Click Advance in the menu to open the sub-menu which contains 8 items: DNS, Firewall, Virtual Server, Routing, IP QOS, Anti-dos, Port Mapping and Others.

#### 3.6.1 DNS

Short for Domain Name System (or Service or Server), an Internet service that translates domain names into IP addresses. Because domain names are alphabetic, they're easier to remember. The Internet however, is really based on IP addresses. Every time you use a domain name, therefore, a DNS service must translate the name into the corresponding IP address. For example, the domain name www.example.com might translate to 198.105.232.4.

The DNS system is, in fact, its own network. If one DNS server doesn't know how to translate a particular domain name, it asks another one, and so on, until the correct IP address is returned.

Click **DNS** in the sub-menu to open the screen of Fig 3.6.1.

Advance	Status	<b>▼</b> izard	LAN	WAN	Advance	Admin	Diagnostic			
	DNS   Firew	vall   Virtual	Server   Rou	ting   IP QOS   /	Anti-dos   Port	Mapping   O	ther			
DNS Server	DNS	Configu	ıration	I.						
	This page is used to configure the DNS server ip addresses for DNS Relay.									
	0	Attain DNS	Automaticall	Ly						
	C	)Set DNS Man	ually							
	Appl	y Changes	Reset S	elected						

Fig 3.6.1

Label	Description
Attain DNS Automatically	When this checkbox is selected, this router will accept the first received
	DNS assignment from one of the PPPoA, PPPoE or MER enabled PVC(s)
	during the connection establishment.
Set DNS Manually	When this checkbox is selected, please enter the primary and optional
	secondary DNS server IP addresses.
Apply Changes	Click this button to save the settings of this page.
Reset Selected	Click this button to begin configuring this screen afresh.

#### 3.6.2 Firewall

Click **Firewall** in the sub-menu to open the menu in the left bar, whick contains three items:**IP**\**Port Fileter**, **MAC Filter** and **URL Blocking**.

### 3.6.2.1 IP\Port Filter

Click **IP\Port Filter** in the left bar to open the screen of Fig 3.6.2.1. Entries in this table are used to restrict certain types of data packets through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

Click the button Apply Changes to save the settings of this page.

Click the button Add Rule to add a new rule of the IP\Port Filter.

Advance	Status	<b>▼</b> izard	LAN	WAN	Advance	Admin	Diagnostic
	DNS   Firewa	all   Virtual	Server   Rout	ing   IP QOS   An	ti-dos Port M	apping   Other	
IP/Port Filter MAC Filter URL Blocking	IP/P Entries packets securin Note: P immedia	ort Fil in this tabl through the g or restrict lease <u>Commit/</u> tely.	tering Gateway. Us Gateway. Us Cing your lo <u>Reboot</u> if y	to restrict cer e of such filte cal network. ou want to make	tain types of rs can be hely this setting	data oful in s effective	
	Default Outgoing Incoming Appls Current Directio Dele	settings g Action ( g Action ( r Changes) Filter Table on Protocol te Selected	Deny I A Deny A Src IP S Dele	llow llow rt Dst IP te All	Dst Port A	Rule Select	-

Fig 3.6.2.1

#### 3.6.2.2 MAC Filter

Click **MAC Filter** in the left bar to open the screen of Fig 3.6.2.2. Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

Click the button Apply Changes to save the settings of this page.

Click the button **Add Rule** to add a new rule of the MAC Filter.

Advance	Status	<b>▼</b> izard	LAN	WAN	Advance	Admin	Diagnostic
	DNS   Firewa	all   Virtual	Server   Rout i	.ng   IP QOS   Ant	ti-dos Port M	apping   Other	- 1
IP/Port Filter MAC Filter URL Blocking	DNS Firewa MAC Entries packets of such network Note: P immedia Default Outgoing Incoming Current Direct:	All Virtual Filteri in this tabj from your lo filters can lease <u>Commit/</u> tely. Action g O Deny g O Deny y Changes Filter Table ion Sro	Server   Rout : .ng le are used to be helpful i (Reboot if your O Allow O Allow Allow : : : : : : : : : : : : :	ng   IP QOS   And o restrict cer to Internet th n securing or u want to make Dst HAC	ti-dos   Port M tain types of rough the Gato restricting your this setting: this setting: Rule Action	data eway. Use our local s effective Select	
	Dele	te Selected	Del	ete All	Add Kule		

Fig 3.6.2.2

# 3.6.2.3 URL Blocking

Click **URL Blocking** in the left bar to open the screen of Fig 3.6.2.3. This page is used to configure the Blocked FQDN(Such as tw.yahoo.com) and filtered keyword. Here you can add/delete FQDN and filtered keyword.

Advance	Status	Vizard	LAN	WAN	Advance	Admin	Diagnostic				
	DNS   Firew	all   Virtual	Server   Routi	ng   IP QOS   An	ti-dos Port M	apping   Othe	r				
IP/Port Filter MAC Filter	URL This pa	<b>Blockin</b>	<b>ig Conf</b> i o configure t	i <b>guratio</b> he Blocked FQD	<b>n</b> N(Such as tw. <u>y</u>	zahoo.com)					
URL Blocking	and fil keyword	and filtered keyword. Here you can add/delete FQDN and filtered keyword.									
	Note: F immedia	Please <u>Commit/</u> Ately.	/ <u>Reboot</u> if yo	u want to make	this settings	s effective					
	URL B1	ocking: y Changes		⊙ Disa	bled OEna	bled					
	FQDN:	www.xxx.xxx QDN Dei	lete FQDN								
	URL Blo Select	ocking Table	e: FQDN	_							
	Keyword Add F	d: XXX (eyword	Delete Key	word							
	Keyword	d Filtering	Table:								
	Select		Keyword								

Fig 3.6.2.3

#### 3.6.3 Virtual Server

Click **Virtual Server** in the sub-menu to open the menu in the left bar, whick contains two items:**Services** and **DMZ Settings**.

#### 3.6.3.1 Services

Click **Services** in the left bar to open the screen of Fig 3.6.3.1. This page is used to enable the servers in the local network.

Click the button **Add** to add a virtual server.

Advance	Status	<b>▼</b> izard	LAN	WAN	Advance	Admin	Diagnostic
Services DMZ Settings	DNS   Fire Serv This p Note: 1 immedi	wall   Virtual <b>vise Set</b> age is used to Please <u>Commit/</u> ately.	Server   Rou <b>tings</b> enable the <u>Reboot</u> if y	nting   IP QOS   An e servers in the you want to make	ti-dos   Port M local network this settings	apping   Oth effective	er
	Name	Protocol VA	N Port S	erver Host Por	t Addres	11 <sup>2</sup> 5	Delete Add

Fig 3.6.3.1

# 3.6.3.2 DMZ Settings

Click **DMZ Settings** in the left bar to open the screen of Fig 3.6.3.2. A Demilitarized Zone 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.

Select the checkbox **Enable DMZ** to enable this function. Then input a IP Address of the DMZ host.

Click the button **Apply Changes** to save the settings of this page.

Advance	Status	Vizard	LAN	WAN	Advance	Admin	Diagnostic
	DNS   Firew	vall   Virtual S	Gerver   Rout	ing   IP QOS   An	ti-dos Port M	apping   Oth	er
Services <u>DMZ Settings</u>	DMZ A Demil sacrifi Typical traffic servers Note: F immedia Er DMZ Hos App]	Setting litarized Zone icing unauthor Ily, the DMZ h , such as Web s and DNS serv Please <u>Commit/</u> ately. nable DMZ st IP Address: ly Changes	S is used to ized access ost contain (HTTP ) se ers. <u>Reboot</u> if y <u>Reset</u>	provide Interr to its local p s devices acces cvers, FIP serv pu want to make	net services w: private networl ssible to Inte; rers, SMIP (e-) e this setting:	ithout X. mail) s effective	

Fig 3.6.3.2

#### 3.6.4 Routing

Click **Routing** in the sub-menu to open the menu in the left bar, whick contains two items:**RIP** and **Static Route.** 

# 3.6.4.1 RIP

Click **RIP** in the left bar to open the screen of Fig 3.6.4.1. Enable the RIP if you are using this device as a RIP-enabled router to communicate with others using the Routing Information Protocol. This page is used to select the interfaces on your device is that use RIP, and the version of the protocol used.

Advance	Status Vizard	LAN	WAN	Advance	Admin	Diagnostic
	DNS Firewall Virtual	Server   Rout	ing   IP QOS   An	ti-dos Port M	apping   Other	e
RIP Static Route	RIP Config Enable the RIP if y communicate with ot page is used to sel and the version of	uration ou are using th hers using th ect the inter the protocol	this device as e Routing Info faces on your ( used.	a RIP-enabled cmation Protoc deviceis that	orouter to ol. This use RIP,	
	RIP: Apply Changes	)	⊙Disable	○Enable		
	Interface: Receive Mode: Send Mode: Add Delet RIP Config Table:	br0 None 💙 None e Selected Ent	v ry			
	Select Inter	face	Receive Mode	Send	Mode	

Fig 3.6.4.1

#### 3.6.4.2 Static Route

Click **Static Route** in the left bar to open the screen of Fig 3.6.4.2-1. This page is used to configure the routing information. Here you can add/delete IP routes.

Advance	Status Vizar	d LAN	WAN	Advance	Admin	Diagnostic
	DNS   Firewall   Virt	ual Server   Rout:	ing   IP QOS   Ant	ti-dos Port M	apping   Other	r
RIP Static Route	Routing ( This page is use add/delete IP ro	<b>Configura</b> d to configure t utes.	tion he routing info	ormation. Here	you can	
	Enable: Destination: Subnet Mask: Next Hop: Metric: Interface: Add Route Static Route I Select State	Update any Update able:	Delete Selecter	i Shou	W Routes	Interface

Fig 3.6.4.2-1

Click the button Show Routes, the below window will appear. The table shows a list of destination routes commonly accessed by your network.

🕘 http	://192.168.1	.1 - IP Route	Table - E	icrosoft I	internet Exp.	💶 🖂
	IP Rout	e Table				~
	This table sho your network.	ws a list of dea	stination ro	utes common	nly accessed by	у
	Destination	Subnet Mask	Next Hop	Metric	Interface	
	192.168.1.0	255.255.255.0	*	0	brO	
	127.0.0.0	255.255.255.0	*	0	10	
	Refresh	Close				

Fig 3.6.4.2-2

# 3.6.5 IP QoS

Click **Anti-dos** in the sub-menu to open the screen of Fig 3.6.5. Entries in this table are used to assign the precedence for each incoming packet based on physical LAN port, TCP/UDP port number, and source/destination IP address/subnet masks.

Advance	Status	Vizard	LAN	WAN	Advance	Admin	Diagnostic		
	DNS   Firewa	all Virtual S	erver   Routi	.ng   IP QOS   An	ti-dos Port M	apping   Othe	r		
IP QOS	IP Q	oS				_			
	Entries incomin; source/(	Entries in this table are used to assign the precedence for each incoming packet based on physical LAN port, TCP/UDP port number, and source/destination IP address/subnet masks.							
	Note: Pi immediat	Note: Please <u>Commit/Reboot</u> if you want to make this settings effective immediately.							
	IP QoS:	⊙Disabled	○Enabled	Apply Cha	inges				

Fig 3.6.5

#### 3.6.6 Anti-dos

Click **Anti-dos** in the sub-menu to open the screen of Fig 3.6.6. "denial-of-service attack" (DoS Attack) a type of attack on a network that is designed to bring the network to its knees by flooding it with useless traffic. In this page, you can configure to prevent DOS attacks.

Click the button Apply Changes to save the settings of this page.

Advance	Status	<b>V</b> izard	LAN	WAN	Advance	Admin Diagnostic
	DNS Firewa	all   Virtual :	Server   Rout:	ing   IP QOS   An	ti-dos Port M	apping   Other
	Note: Pl	ease <u>Commit/</u>	Keboot if yo	u want to make	this settings	effective immediately.
Anti-dos	🗌 Ena	able Anti-d	05			
		<b>♥</b> hole Syst	em Flood:	SYN	100	packets/sec
		<b>♥</b> hole Syst	en Flood: 1	FIN	100	packets/sec
		<b>♥</b> hole Syst	en Flood:	0DP	100	packets/sec
		Whole Syst	en Flood:	ICIP	100	packets/sec
		Per-Source	IP Flood:	SYN	100	packets/sec
		Per-Source	IP Flood:	FIN	100	packets/sec
		Per-Source	IP Flood:	TOP	100	packets/sec
		Per-Source	IP Flood:	ICEP	100	packets/sec
		TCP/UDP Po	rtScan		High 🗸	Sensitivity
		ICMP Smurf				
		IP Land				
		IP Spoof				
		IP TearDro	<b>p</b>			
		PingOfDeat	h			
		TCP Scan				
		ILP Synwit	hVata			
		mp FchoCh	argen			
		opr honoon	ur fon			
	Sele	ct All	Clear A	11		
		Enable Sou	urce IP Blo	cking	300 <b>B</b>	lock Time(Sec)
	Apply	Changes				

Fig 3.6.6

### **3.6.7 Port Mapping**

Click **Anti-dos** in the sub-menu to open the screen of Fig 3.6.7. In this page, you can bind the WAN interface and the LAN interface to the same group.

To manipulate a mapping group:

1. Select a group from the table.

2. Select interfaces from the WAN and LAN interface list and add them to the grouped interface list using the arrow buttons to manipulate the required mapping of the ports.

3. Click "Apply Changes" button to save the changes.

Advance	Status	Vizard	LAN	WAN	Advance	Admin	Diagn
	DNS   Firewa	all   Virtual	Server   Routir	ıg   IP QOS   An	ti-dos Port }	[apping   Othe	r
ort Mapping	Note: 1. A int 2. Pleas immediat	terface only se Commit/Rel tely.	belongs to on boot if you wa	e group. nt to make th	his settings e	ffective	
	VAN Int	erface erface	G Add >	couped Inter	rface		
	<u> </u>			T . C			<b>D</b> 1 1
	Deferit		LANA LAND I	AN2 LAN1 Tet	ernet R 0 22		Priority low
	Correct 1		LANA, LANJ, I	ANZ, LANI, INC	ernec_n_0_52		low
	Groupl						low
	Group2						100
	Carry 2						1.011
	Groups						10*

Fig 3.6.7

#### **3.6.8 Other**

Click **Others** in the sub-menu to open the menu in the left bar, whick contains four items:**IGMP Proxy**, **UPNP**, **Bridge** and **IP PassThrough**.

#### 3.6.8.1 IGMP Proxy

Click **IGMP Proxy** in the left bar to open the screen of Fig 3.6.8.1. 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.

Click Apply Changes to save the settings of this page.

Advance	Status	<b>▼</b> izard	LAN	WAN	Advance	Admin	Diagnostic
	DNS   Firewa	ll Virtual S	erver   Routir	ng   IP QOS   Anti	-dos Port Mapp	oing   Other	
IGMP Proxy UPNF Bridge IP PassThrough	IGMP pr hosts t system follows . Enabl router . Enabl hosts. Note: P immedia IGTP I Proxy	Proxy oxy enables t hat the syste acts as a pro : e IGMP proxy rumning IGMP. e IGMP on LAN 'lease <u>Commit/</u> ttely. interface: Interface: y Changes	Configu he system to im discovered ixy for its h on WAN inter I interface ( <u>Reboot</u> if yo Olisable Internet_F	issue IGMP hos through standa osts when you e face (upstream) downstream), wh u want to make O Enable	t messages on ird IGMP interf nable it by do , which connec nich connects t this settings	behalf of aces. The ing the ts to a o its effective	

Fig 3.6.8.1

#### 3.6.8.2 UPNP

Click **UPNP** in the left bar to open the screen of Fig 3.6.8.2. This page is used to configure UPnP. The system acts as a daemon after you enable it.

Click Apply Changes to save the settings of this page.

Advance	Status	<b>▼</b> izard	LAN	WAN	Advance	Admin	Diagnostic
	DNS Firewal	.1 Virtual S	erver   Routing	IP QOS   Anti	-dos Port Mapp	oing   Other	
IGMP Proxy OPNP	UPnP	Config	uration				
Bridge	This pag	e is used to the it by doi	) configure UP:	nP. The system s•	. acts as a dae	mon when	
IP PassThrough	. Enable	UPnP.					
	. Select	WAN interfa	ace (uptream)	that will use	UPnP.		
	Note: Pl immediat	ease <u>Commit/</u> ely.	<u>Reboot</u> if you	want to make	this settings	effective	
	UPnP:		⊙Disable	OEnable			
	VAN Int	erface:	Internet_R_	0_32 🖌			
	Apply	Changes					

Fig 3.6.8.2

#### 3.6.8.3 Bridge

Click **Bridge** in the left bar to open the screen of Fig 3.6.8.3-1. This page is used to configure the bridge parameters. Here you can change the settings or view some information on the bridge and its attached ports.

Advance	Status	<b>V</b> izard	LAN	WAN	Advance	Admin	Diagnostic
	DNS   Firewal	ll Virtual S	Gerver   Routin	ng   IP QOS   Anti	-dos Port Mapp	ing   Other	
IGMP Proxy UPNP <u>Bridge</u> IP PassThrough	Brid This pay change t attached Note: Pi immediat	ge is used to the settings d ports. lease <u>Commit</u> , tely.	<b>igurat</b> i c configure t or view some <u>(Reboot</u> if yo	ion he bridge param information on u want to make	eters. Here yo the bridge an this settings (	u can d its effective	
	Aging 1 802.1d	lime: Spanning	300	(seconds)			
	Tree:		⊙Disable	∪Enable			
	Apply	Changes	Undo S	Show MACs			

Fig 3.6.8.3-1

Click **Show MACs** button in Fig 3.6.8.3-1, the below window will appear. This table shows a list of learned MAC addresses for this bridge.

Bridge	Forwarding I	)atabase	Table	
his table :	shows a list of learned	MAC addresses f	or this bridge.	
Port No.	IAC Address	Is Local?	Aging Time	
Port Wo.	<b>EAC Address</b> 00-e0-4c-86-70-01	Is Local? yes	Aging Time	
<b>Port No.</b> 2 1	<b>EAC Address</b> 00-e0-4c-86-70-01 00-e0-4c-86-70-01	Is Local? yes yes	Aging Time	

Fig 3.6.8.3-2

# 3.6.8.4 IP PassThrough

Click **IP PassThrough** in the left bar to open the screen of Fig 3.6.8.4. The IP PassThrough has the other name ZIPB or IP Extension. In this page, you can enable and configure IP PassThrough function.

Advance	Status Vi	zard LAN	WAN	Advance	Admin	Diagnostic
	DNS   Firewall   V	irtual Server Routin	g   IP QOS   Anti	-dos Port Mapp	oing Other	
IGMP Pr⊙xy UPNP	IP Pass	Through Con	ı <mark>figura</mark> ti	ion		
Bridge IP PassThrough	Here you car Note: Please immediately.	ι configure IP PassTh: > <u>Commit/Reboot</u> if you	rough. u want to make	this settings	effective	
	IP PassThroug	None seconds Allow LAN	Lease	e Time: 600		
	Apply Cha	nges	100000			

Fig 3.6.8.4

# 3.7 Admin

Click Admin in the menu to open the sub-menu which contains 11 items: Remote Access, Commit/Reboot, Password, Backup/Restore, Upgrade Fireware, Time Zone, System Log, SNMP, TR069, ACL and Logout.

#### 3.7.1 Remote Access

Click **Remote Access** in the sub-menu to open the screen of Fig 3.7.1. In this page, you can enable or disable the services which will be used by remote host. For example, if TELNET service is enabled and port is 23, the remote host can access this router by telnet through port 23.

Admin	Status	Vizard	LAN	WAN	Advance	Admin	Diagnostic
	Remote Access Comm	nit/Reboot Logi	in Password ]	PVC Password Backup	)/Restore Upgrade Fi	.rmware Time	Zone System Log SNMP ACL
Remote Access	Remote	Access					
	This page is	s used to enab	le/disable m	nanagement services	for the WAN.		
	Interface	Internet_R_8_81	~				
	Service	Name Open	Port				
	TELNET		23				
	FTP		21				
	TFTP						
	нттр		80				
	SINTEP	$\checkmark$					
	ICMP						
	Apply Cha	anges					

Fig 3.7.1

#### 3.7.2 Commit/Reboot

Click **Commit/Reboot** in the sub-menu to open the screen of Fig 3.7.2. In this page, you can set the router reboot to default settings or set the router save the current settings then reboot.

Admin	Status	Vizard	LAN	WAN	Advance	Admin	Diagnostic
	Remote Access	Commit/Reboot Lo	gin Password PVC	Password Backup/	Restore Upgrade Fi	rmware Time	Zone System Log SNMP ACL
Commit/Reboot	Comm	it/Reboot	;				
	Please	press "Reboot" t	o reboot your sy	stem.			
	If choose system.	you want reset t ″reset to defaul	he current settin t settings", the	ngs to factory de n press "Reboot"	fault, please to reboot		
	If : current	you want commit settings", then	current settings, press "Reboot" -	, please choose " to reboot system.	commit		
	🗌 res	et to default se	ttings				
	🗹 com	mit current sett	ings				
	Reboot						



Label	Description
Reset to default settings	Select this checkbox to reset router to default settings.
Commit current settings	Select this checkbox to save the current settings and reboot router.
Reboot	Click this button to reboot the router according to the above option.

#### 3.7.3 Password

Click **Login Password** in the sub-menu to open the screen of Fig 3.7.3. In this page, you can change the password of the user, include admin and user. The super user name and password are admin/admin as default, and the The common user name and password are user/user.

Admin	Status	<b>▼</b> izard	LAN	WAN	Advance	Admin	Diagnostic
	Remote Access	Commit/Reboot Lo	ogin Password PV	/C Password Backup	o/Restore Upgrade Fi	.rmware Time	Zone System Log SNMP ACL
Login Password	User	/Password	l Managem	ient			
	This pag Router. The new	ge is used to set	t the account to	access the web s	server of ADSL		
		password will be	e availability a	iitei system iebot			
	User N admin	ane:					
	Old Pa	ssword:					
	New Pa	ssword:					
	Confir Passwo	med ord:					
	Appl	y Changes	Reset				

Fig 3.7.3

Label	Description
User Name	Select the user name in the drop-down list box. The choices are <b>admin</b>
Old Password	After selected the user name, input the old password of the user here.
New Password	Input the new password what you want to set of the user.
Confirmed Password	Input the new password again.
Apply Changes	Click this button to save the settings of this page.
Reset	Click this button to begin configuring the password afresh.

#### 3.7.4 Backup/Restore

Click **Backup/Restore** in the sub-menu to open the screen of Fig 3.7.4. In this page, you can backup the current settings to a file and restore the settings from the file which was saved previously.

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

Admin	Status	Vizard	LAN	WAN	Advance	Admin	Diagnostic
	Remote Access	Commit/Reboot Lo	gin Password PVC	Password Backup/	Restore Upgrade Fi	.rmware Time	Zone System Log SNMP ACL
Backup/Restore	Back This pa the set	up/Restor	backup current ile which was sa	<b>gS</b> settings to a fil ved previously.	e or restore		
	Save S File:	ettings to	Save				
	Load S File:	ettings from		浏览.	Upload		

Fig 3.7.4

Label	Description
Save Settings to File	Click the <b>Save</b> button, then select the path and save the configuration file of your router.
Load Settings from File	Click the <b>Browse</b> button to select the configuration file.
Upload	Selected the configuration file of router, click Upload button to begin restore the router configuration.

# **3.7.5 Upgrade Fireware**

Click **Upgrade Fireware** in the sub-menu to open the screen of Fig 3.7.5. In this page, you can upgrade the fireware of this router.

**IMPORTANT!** Do not turn off your router or press the Reset button while this procedure is in progress.

Admin	Status	Vizard	LAN	WAR	Advance	Admin	Diagnostic
	Remote Access	Commit/Reboot Lo	gin Password P	VC Password Backup	/Restore Upgrade Fi	irmware Time	Zone System Log SNMP ACL
Upgrade Firmware	Upgr	ade Firmw	are				
	Step 1:	Get system upgr	ade file.				
	Step 2:	Press "Browse"	to specify sys	tem upgrade file.			
	Step 3: version	press "Upload"	to upgrade the	ADSL Router firmw	are to new		
	Note: U during reboot firmwar	Wpload needs abor the upload becau after upload. Th e to new version	the device ystem will e ADSL Router				
	current						
	Select File:		(	浏览			
	Upload	Reset					

Fig 3.7.5

Label	Description
Select File	Click the <b>Browse</b> button to select the Fireware file.
Upload	Selected the Fireware file, click Upload button to begin upgrading the
	Fireware.
Reset	Click this button to begin selecting the Fireware file afresh.

# 3.7.6 Time Zone

Click **Time Zone** in the sub-menu to open the screen of Fig 3.7.6. In this page, you can set the system time manually or get the system time from the time server.

Admin	Status	Vizard	LAN	WAN	Advance	Admin	Diagnostic				
	Remote Access	Commit/Reboot Lo	gin Password P	WC Password Backup	o/Restore Upgrade Fi	.rmware Time	Zone System Log SNMP ACL				
Time Zone	Syst	em Time Z	Cone Modi	fication							
	Set the system time.										
	<b>Configure Tethod:</b> If you configure time manually, press button "Time Synchronize", it will update date and time automatically, besides, you can preconcert the date and time, press button "Time Synchronize" again, the automatica update will stop.										
	Note: 1. Manual settings will be invalidation as soon as the modem power off. 2. Please <u>Commit/Reboot</u> if you want to make this settings effective immediately.										
	Synchronized 2008-1-16 14:36:03										
	System Time: 1970-1-1 4:31:3 Refresh										
	Time No	de: 💿 Time	Server 🔿 Manu	al							
	🗌 Ena	ble SNTP Client	Update								
	SNTP Ser	ver: 💿 203.1	17.180.36 - As:	ia 🗸							
		0	(m:	anual setting)							
	Time Zone: (GI	MT+08:00) Beijin	]								
	Apply	changes									

Fig 3.7.6

Label	Description
Refresh	Click this button to refresh the system shown in the page.
Time Mode	If select Time Server, the router will get the system time from the time
	server. If select Manual, you should configure the system time manually.
Enable SNTP Client	If select this checkbox, you can choose the correct SNTP Server which
Update	you want.
SNTP Server	Choose the SNTP Server here.
Time Zone	Select the Time Zone of in which area you are.
Apply Changes	Click this button to save the settings of this page.

## 3.7.7 System Log

Click **System Log** in the sub-menu to open the screen of Fig 3.7.7. In this page, you can enable or disabled the System log function, view the system log.

Admin	Status	Vizard	LAN	VAR	Advance	Admin	Diagnostic
	Remote Access	Commit/Reboot Lo	ogin Password PV	/C Password Backup/	/Restore Upgrade Fi	.rmware Time	Zone System Log SNMP ACL
System Log	<b>Syst</b> System Note: P	em Log log can record th lease <u>Commit/Reb</u> o	he system event <u>oot</u> <mark>if you want</mark>	for user to see. to make this sett	ings effective imme	ediately.	
	System Appl	Log • Disable y Changes	○ Enable				
	Refre	sh				~	

Fig 3.7.7

Label	Description
System Log	You can enable or disable the System Log function.
Apply Changes	Click this button to save the settings of this page.
Refresh	Click this button to refresh the system log shown in the textfield.

# 3.7.8 SNMP

Click **SNMP** in the sub-menu to open the screen of Fig 3.7.8. In this page, you can set the SNMP parameters.

Admin	Status	Vizard	LAN	WAN	Advance	Admin	Diagnostic		
	Remote Access	Commit/Reboot Lo	ogin Password PVC	Password Backup	o/Restore Upgrade F:	irmware Time	Zone System Log SNMP ACL		
SNMP	SNMP This pa Press "	<b>Configur</b>	cation mfigure the SNMP to take effect.	protocol.					
	Trap IP Address     192.168.1.254       Community name (read- only)     public       Community name (write-only)     public								

Fig 3.7.8

Label	Description
Trap IP Address	Input the Trap Host's IP here. The trap information will be sent to this
	host.
Community name(read-only)	The network administrators must use this password to read the

	information of this router.
Community name(write-only)	The network administrators must use this password to configure
	the information of this router.
Apply Changes	Click this button to save the settings of this page.
Reset	Click this button to begin configuring this screen afresh.

#### 3.7.9 TR069

Click ACL in the sub-menu to open the screen of Fig 3.7.9. In this page, you can configure the TR-069 CPE.

Admin	Status	Vizard	LAN	WAN	Advance	Admin	Diagnostic				
	Remote Access	Commit/Reboot Pa	ssword Backup/R	estore Upgrade	Firmware Time Zon	e System Log	SNMP TR069 ACL Logout				
TR069	TR-0 This particle ACS	<b>69 Config</b>	<b>guration</b>	69 CPE. Here yo	ou may change the	setting for					
	Note: Flease <u>Lommit/Keboot</u> if you want to make this settings effective immediately. ACS										
	URL :		http://								
	User N	ane:	username								
	Passwo	rd:	password								
	Period Enable	ic Inform :	ODisabled	⊙ Enabled							
	Period Interv	ic Inform al(s):	300								
	Conne	ction Request									
	User N	ane:									
	Passwo	rd:									
	Debug										
	Show I	essage:	⊙Disabled	OEnabled							
	CPE Se	nds GetRPC:	<ul> <li>Disabled</li> </ul>	○Enabled							
	Skip 🛙	Reboot:	⊙Disabled	○Enabled							
	Delay:		$\bigcirc$ Disabled	⊙ Enabled							
	<b>∆</b> ut o−E	xecution:	○Disabled	⊙Enabled							
	CI Inf	orm Extension:	$\bigcirc$ Disabled	⊙ Enabled							
	[ Appl;	y Changes	Undo								

Fig 3.7.9

#### 3.7.10 ACL

Click **ACL** in the sub-menu to open the screen of Fig 3.7.10. In this page, you can configure the IP Address for Access Control List. If ACL enabled, only the effective IP in ACL can access ADSL Router.

Step 1: If you want to enable ACL, please choose "Enable" then press "Apply Changes";

Step 2: Config Access Control List;

Step 3: Press "take effect" to effect the configuration.

Note: If you check "Enable" in ACL Capability, please make sure that your host IP is in ACL List before it takes effect

Admin	Status	Wizard	LAN	WAN	Advance	Admin	Diagnostic			
	Remote Access	Commit/Reboot Lo	ogin Password PVC	C Password Backup	o/Restore Upgrade Fi	.rmware Time	Zone System Log SNMP ACL			
ACL	Access ACL Access If enab Step 1: "Apply Step 2: Step 3: Note:If your ho	Configura Control List Com le ACL, then only If you want to es Changes": Config Access Con Press take effect you choose "Enal st IP is in ACL 1	figuration. the effective II nable ACL, please mtrol List: "enable the cond ble" in ACL Capal before it takes of	Password Backup Pin ACL can acce choose "Enable" figuration. bility, please mal effect.	y/Kestore Upgrade Fr ess ADSL Modem. then press ke sure that	rnware Time	Zone System Log SNMP ACL			
	ACL Ca	<b>pability:</b> y Changes	⊙ Disable	○Enable						
	Enable	:								
	Interf	ace:	LAN 🗸							
	IP Add	lress:	192.168.1.22							
	Add modify Delete									
	ACL Li	st:								
	Select	: state		Interface	IP Addr	ess				
	take	effect								

Fig 3.7.10

# 3.7.11 Logout

Click **Logout** in the sub-menu to open the screen of Fig 3.7.11. If you want to logout the Web configurator, click the Logout button.

Admin	Status	Vizard	LAN	WAN	Advance	Admin	Diagnostic
	Remote Access	Commit/Reboot P	assword Backup,	/Restore Upgrade	Firmware Time Zon	e System Log	SNMP   TRO69   ACL   Logout
Logout	Logo This pa Logout	p <b>ut</b> ge is used to lo	gout from adsl	gateway.			

Fig 3.7.11

# **3.8 Diagnostic**

Click **Diagnostic** in the menu to open the sub-menu which contains 4 items: **Ping**, **ATM Loopback**, **ADSL** and **Diagnostic**.

#### 3.8.1 Ping

Click **Ping** in the sub-menu to open the screen of Fig 3.8.1.

Diagnostic	Status	¥izard	LAN	WAN	Advance	Admin	Diagnostic
	Ping   ATM L	oopback   ADSL	Diagnostic				
Ping	Ping This pa The dia Host A	Diagno ge is used to gnostic resul	stic send ICMP EC t will then b	HO_REQUESI pac e displayed.	ckets to networ	k host.	
	Go !		prototo				

Fig 3.8.1

Label	Description
Host Address	Enter the IP Address here.
Go!	Click this button to begin to Ping the Host Address.

# 3.8.2 ATM Loopback

Click **ATM Loopback** in the sub-menu to open the screen of Fig 3.8.2. In this page, you can use VCC loopback function to check the connectivity of the VCC.

Diagnostic	Status	<b>▼</b> izard	LAN	WAN	Advance	Admin	Diagnostic		
	Ping   ATM I	.oopback   ADSL	Diagnostic						
ATM Loopback	OAM Fault Management - Connectivity Verification								
	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.								
	Select								
	Flow Type:      F5 Segment      F5 End-to-End								
	Loopback Location ID: FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF								
	Go!								

Fig 3.8.2

Go!: Click this button to begin testing.

#### 3.8.3 ADSL

Click ADSL in the sub-menu to open the screen of Fig 3.8.3. This page is used for ADSL Tone Diagnostics.

Diagnosti	Status	Vizard		VAN	Ådvan	ce Admin	Diagnostic	
	Ping   AIM L	oopback   ADSL	Diagnostic					
ADSL	Diag	nostics	ADSL					
	Adsl Ton							
	Go!							
			Downstr	ean l	Opstream			
	Hlin So	cale	65384		144			
	Loop At	ttenuation(d	<b>B)</b> -2.2		-24.9			
	Signal	Attenuation	(dB) 18.3		23.0			
	SNR Tai	rgin(dB)	-25.1		-9.9			
	<b>A</b> ttain:	able Rate(Kb	<b>ps)</b> 194		-77			
	Output	Power(dBm)	-4.3		21.2			

Fig 3.8.3

Go!: Click this button to begin ADSL Tone Diagnostics.

# **3.8.4 Diagnostic**

Click **Diagnostic** in the sub-menu to open the screen of Fig 3.8.4. This page is used for testing your DSL connection.

Diagnostic	Status	Vizard	LAN	VAN	Advance	Admin	Diagnostic
	Ping   ATM I	.oopback   ADSL	Diagnostic				
Diagnostic	Diag	nostic	Test				
	The DSI individ click <sup>*</sup> is cons Select Intern	. Router is ca dual tests are Rum Diagnosti sistent. the Internet et_R_8_81 <b>v</b>	upable of test : listed belov .c Test" butto Connection:	ing your DSL ( v. If a test d: on again to mal	connection. The isplays a fail te sure the fai Run Diagnostic	status, 1 status Test	

Fig 3.8.4

Run Diagnostic Test: Click this button to begin testing.