



NAS Broadband Router

User's Manual

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Introduction

Congratulations on purchasing this Wireless Broadband Router. This Wireless Broadband Router is a cost-effective IP Sharing Router with NAS and print server supported that enables multiple users to share the Internet, files and printer through an ADSL or cable modem. Simply configure your Internet connection settings in the Wireless Broadband Router and plug your PC to the LAN port and you're ready to share files and access the Internet. As your network grows, you can connect another hub or switch to the router's LAN ports, allowing you to easily expand your network. The Wireless Broadband Router is embedded with an IEEE 802.11g/b access point that allows you to build up a wireless LAN. The Wireless Broadband Router provides a total solution for the Small and Medium-sized Business (SMB) and the Small Office/Home Office (SOHO) markets, giving you an instant network today, and the flexibility to handle tomorrow's expansion and speed.

Features

High Internet Access throughput (up to 50M)

Allow multiple users to share a single Internet line

Supports up to 253 networking client users

Provides two USB port for connecting with USB printer or USB mass storage devices

Internet Access via Cable or xDSL modem

Allow you to share your files via FTP or Network Neighborhood

Access Private LAN Servers from the Public Network

Equipped with four LAN ports (10/100M) and one WAN port (10/100M)

Provides IEEE 802.11g/b wireless LAN access point

Support DHCP (Server/Client) for easy setup

Support advance features such as: Special Applications, DMZ, Virtual Servers, Access Control, Firewall

Allow you to monitor the router's status such as: DHCP Client Log, System Log, Security Log and Device/Connection Status

Easy to use Web-based GUI for configuration and management

Remote Management allows configuration and upgrades from a remote site (over the Internet)

Minimum Requirements

One External xDSL (ADSL) or Cable modem with an Ethernet port (RJ-45) Network Interface Card (NIC) for each Personal Computer (PC) PCs with a Web-Browser (Internet Explorer 5.0 or higher, or Netscape Navigator 7.2 or higher)

Package Content

One Wireless Broadband Router / One Quick Installation Guide One User Manual CD / One Power Adapter / Other Accessories

Note

The WAN "idle timeout" auto-disconnect function may not work due to abnormal activities of some network application software, computer virus or hacker attacks from the Internet. For example, some software sends network packets to the Internet in the background, even when you are not using the Internet. So please turn off your computer when you are not using it. This function also may not work with some ISP. So please make sure this function can work properly when you use this function in the first time, especially your ISP charge you by time used.

Get to know the Broadband Router

Back Panel

The diagram (fig1.0) below shows the broadband router's back panel. The router's back panel is divided into four sections, LAN, WAN, USB, and Reset:



Figure 1.0

1) Local Area Network (LAN)

The Broadband router's 4 LAN ports are where you connect your LAN's PCs, printer servers, hubs and switches etc.

2) Wide Area Network (WAN)

The WAN port is the segment connected to your xDSL or Cable modem and is linked to the Internet.

3) USB

The USB ports allow you to share your files or printer through them. Each port can support both printer and USB mass storage devices.

Note 1: Please plug the external power to your USB mass storage devices.

Note 2: Please plug the USB mass storage dedicated to this NAS router in the USB 1 port for better management function and plug the USB flash disk used to share files among different PCs and notebooks in the USB 2 port for instant setup.

4) Reset

The Reset button allows you to do one of two things.

1) If problems persist or you experience extreme problems or you forgot your password, press the reset button for **longer** than 5 seconds and the router will reset itself to the factory default settings (**warning**: your original configurations will be replaced with the factory default settings)

Front Panel

On the router's front panel there are LED lights that inform you of the router's current status. Below is an explanation of each LED and its description.



LED	Light Status	Description
PWR	ON	Router's power supply is on
WAN 10/100M	ON	WAN port 100Mbps is connected
	Off	WAN port 10Mbps is connected
	ON	WAN is connected
WAN LNK/ACT	Off	No WAN connection
	Flashing	WAN port is Activity (ACT)
LAN 10/100M	ON	LAN port 100Mbps is connected
(Port 1-4)	Off	LAN port 10Mbps is connected
LAN LNK/ACT	ON	LAN is connected
(Port 1-4)	Off	No LAN connection
	Flashing	LAN port is Activity (ACT)
	ON	USB storage device is connected
USB	Off	No USB storage device connection
	Flashing	USB printer is printing. (ACT)
	ON	Wireless LAN has been activated
WLAN-G	Off	Wireless LAN is disabled
	Flashing	Wireless LAN is Activity (ACT)

Figure 1.1

Setup Diagram

Figure 1.2 below shows a typical setup for a Local Area Network (LAN).

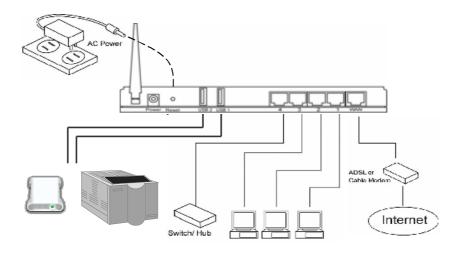


Figure 1.2

Getting started

This is a step-by-step instruction on how to start using the router and get connected to the Internet.

Setup your network as shown in the setup diagram above (fig 1.2).

You then need to set your LAN PC clients so that it can obtain an IP address automatically. All LAN clients require an IP address. Just like an address, it allows LAN clients to find one another. (If you have already configured your PC to obtain an IP automatically then proceed to step 3, page 11)

Configure your PC to obtain an IP address automatically

By default the broadband router's DHCP is on, this means that you can obtain an IP address automatically once you've configured your PC to obtain an IP address automatically. This section will show 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.), follow the manufacturer's instructions. The following is a step-by-step illustration on how to configure your PC to obtain an IP address automatically for 2a) Windows 95/98/Me, 2b) Windows XP, 2c) Windows 2000 and 2d) Windows NT.

2a) Windows 95/98/Me

- 1. Click the Start button and select Settings, then click Control Panel. The Control Panel window will appear.
- 2. Double-click Network icon. The Network window will appear.
- 3. Check your list of Network Components. If TCP/IP is not installed, click the Add button to install it. If TCP/IP is installed, go to step 6.
- 4. In the Network Component Type dialog box, select Protocol and click Add button.
- 5. In the Select Network Protocol dialog box, select Microsoft and TCP/IP and then click the OK button to start installing the TCP/IP protocol. You may need your Windows CD to complete the installation.
- 6. After installing TCP/IP, go back to the *Network* dialog box. Select *TCP/IP* from the list of *Network Components* and then click the *Properties* button.

Check each of the tabs and verify the following settings:

- Bindings: Check Client for Microsoft Networks and File and printer sharing for Microsoft Networks.
- Gateway: All fields are blank.
- DNS Configuration: Select Disable DNS.
- WINS Configuration: Select Disable WINS Resolution.
- IP Address: Select Obtain IP address automatically.

CP/IP Properties		? ×
Bindings	Advanced	NetBIOS
DNS Configuration	Gateway WINS Con	figuration IP Address
If your network doo your network admi the space below.	be automatically assigne es not automatically assig nistrator for an address, a address automatically	n IP addresses, ask
C <u>S</u> pecify an IF	address:	
[P Address:		
S <u>u</u> bnet Mas	k: .	

- 8. Reboot the PC. Your PC will now obtain an IP address automatically from your Broadband Router's DHCP server.
- **Note**: Please make sure that the Broadband router's DHCP server is the only DHCP server available on your LAN. Once you've configured your PC to obtain an IP address automatically, please proceed to Step 3

2b) Windows XP

- 1. Click the Start button and select Settings, then click Network Connections. The Network Connections window will appear.
- 2. Double-click Local Area Connection icon. 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.

eneral	Alternate Config	guration			
his cap	n get IP settings a ability. Otherwise ropriate IP setting	, you need			
<u>⊙ </u> 0±	tain an IP addre	ss automatio	cally		
O Us	e the following If	^o address: -			
IP ad	ldress:			 -	-
Sybn	et mask:			 - E.	
Defa	ult gateway:			 6	
OD	tain DNS server	address au	tomatically		
~m	e the following D				
Prefe	rred DNS server			 	
Alterr	nate DNS server			 	
				Ad	anced

- 5. Click *OK* to confirm the setting. Your PC will now obtain an IP address automatically from your Broadband Router's DHCP server.
- **Note:** Please make sure that the Broadband router's DHCP server is the only DHCP server available on your LAN. Once you've configured your PC to obtain an IP address automatically, please proceed to Step 3

2c) Windows 2000

- 1. Click the Start button and select Settings, then click Control Panel. The Control Panel window will appear.
- 2. Double-click Network and Dial-up Connections icon. In the Network and Dial-up Connection window, double-click Local Area Connection icon. The Local Area Connection window will appear.
- 3. In the Local Area Connection window, click the Properties button.
- 4. Check your list of Network Components. You should see Internet Protocol [TCP/IP] on your list. Select it and click the Properties button.
- 5. 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) Propert	ies ? X
General	
You can get IP settings assigned autor this capability. Otherwise, you need to the appropriate IP settings.	
Obtain an IP address automatic	ally
\square^{O} Use the following IP address: –	
IP address:	
Subnet mask:	
Default gateway:	
Obtain DNS server address auto	omatically
_⊂O Use the following DNS server a	ddresses:
Preferred DNS server:	
Alternate DNS server:	
	Advanced
	OK Cancel

- 6. Click *OK* to confirm the setting. Your PC will now obtain an IP address automatically from your Broadband Router's DHCP server.
- **Note:** Please make sure that the Broadband router's DHCP server is the only DHCP server available on your LAN. Once you've configured your PC to obtain an IP address automatically, please proceed to Step 3.

2d) Windows NT

- 1. Click the Start button and select Settings, then click Control Panel. The Control Panel window will appear.
- 2. Double-click Network icon. The Network window will appear. Select the Protocol tab from the Network window.
- 3. Check if the TCP/IP Protocol is on your list of Network Protocols. If TCP/IP is not installed, click the Add button to install it now. If TCP/IP is installed, go to step 5.
- **4.** In the Select Network Protocol window, select the TCP/IP Protocol and click the Ok button to start installing the TCP/IP protocol. You may need your Windows CD to complete the installation.
- 5. After you install TCP/IP, go back to the *Network* window. Select *TCP/IP* from the list of *Network Protocols* and then click the *Properties* button.
- Check each of the tabs and verify the following settings:
 - IP Address: Select Obtain an IP address from a DHCP server.
 - **DNS:** Let all fields are blank.
 - WINS: Let all fields are blank.
 - Routing: Let all fields are blank.

Microsoft TCP/IP Properties					
IP Address DNS WINS Address Routing					
An IP address can be automatically assigned to this network card by a DHCP server. If your network does not have a DHCP server, ask your network administrator for an address, and then type it in the space below.					
Adagter:					
-					
C Specify an IP address					
[P Address:					
Subnet Mask:					
Default <u>G</u> ateway:					
<u>Ad</u> vanced					
OK Cancel Apply					

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

Note: Please make sure that the Broadband router's DHCP server is the only DHCP server available on your LAN. Once you've configured your PC to obtain an IP address automatically, please proceed to Step 3.

Once you have configured your PCs to obtain an IP address automatically, the router's DHCP server will automatically give your LAN clients an IP address. By default the Broadband Router's DHCP server is enabled so that you can obtain an IP address automatically. To see if you have obtained an IP address, see Appendix A.

Note: Please make sure that the Broadband router's DHCP server is the only DHCP server available on your LAN. If there is another DHCP on your network, then you'll need to switch one of the DHCP servers off. (To disable the Broadband router's DHCP server see chapter 2 LAN Port)

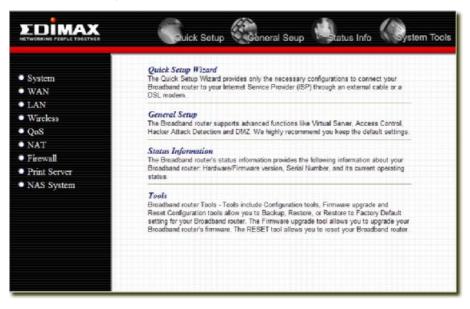
1) Once your PC has obtained an IP address from your router, enter the default IP address **192.168.2.1** (broadband router's IP address) into your PC's web browser and press <enter>

The login screen below will appear. Enter the "User Name" and "Password" and then click <OK> to login.

Note: By default the user name is "admin" and the password is "1234". For security reasons it is recommended that you change the password as soon as possible (in General setup/system/password, see chapter 2)

Connect to 192.	168.2.1
	GA
Default: admin/1234	4
<u>U</u> ser name:	🖸 admin 💌
<u>P</u> assword:	••••
	Remember my password
	OK Cancel

2) The HOME page screen below will appear. The Home Page is divided into four sections, Quick Setup Wizard, General Setup, Status Info and System Tools.



Quick Setup Wizard (Chapter 1)

Select your Internet connection type and then input the configurations needed to connect to your Internet Service Provider (ISP).

General Setup (Chapter 2)

This section contains configurations for the Broadband router's advance functions such as: Address Mapping, Virtual Server, Access Control, Hacker Attack Prevention, DMZ, Special applications and other functions to meet your LAN requirements.

Status Info (Chapter 3)

In this section you can see the Broadband router's system information, Internet Connection, Device Status, System Log, Security Log and DHCP client information.

Tools (Chapter 4)

This section contains the broadband router's Tools - Tools include Configuration tools, Firmware upgrade and Reset. Configuration tools allow you to Backup (save), Restore, or Restore to Factory Default configuration for your Broadband router. The Firmware upgrade tool allows you to upgrade your Broadband router's firmware. The RESET tool allows you to reset your Broadband router.

7) Click on Quick Setup Wizard (see chapter 1) to start configuring settings required by your ISP so that you can start accessing the Internet. The other sections (General Setup, Status Information and Tools) do not need to be configured unless you wish to implement/monitor more advance features/information. Select the section (Quick Setup Wizard, General Setup, Status Information and Tools) you wish to configure and proceed to the corresponding chapter.

Chapter 1

Quick Setup

The Quick Setup section is designed to get you using the broadband router as quickly as possible. In the Quick Setup you are required to fill in only the information necessary to access the Internet. Once you click on the **Quick Setup Wizard** in the HOME page, you should see the screen below.

Step 1) Time Zone

The Time Zone allows your router to base its time on the settings configured here, this will affect functions such as Log entries and Firewall settings.

System Time Zone Set the time zone of the Broadband router. This information is used for log entries and firewall settings. Password Settings Remote Management WAN WAN Address : 12243 244.16 Market Wireless QoS NAT Firewall Print Server NAS System		Quick	Setup 🤹 Setup 🖓 Setup Setup 🖓 Setup S
WAN Time Server 192.43 244 18 LAN Address : 192.43 244 18 Wireless Enable Function Wireless Times From January V 1 V To January V 1 M QoS NAT Firewall Print Server	Time Zone Password Settings	firewall settings.	of the Broadband router. This information is used for log entries and
Address: Enable Function Wireless Daylight Savings: QoS Natt Firewall Print Server		Time Server	
QoS NAT Firewall Print Server	• LAN		Enable Function
Firewall Print Server			Next
	and the second		
NAS System	Print Server		
	 NAS System 		

Parameter	Description
Set Time Zone	Select the time zone of the country you are currently in. The router will set its time based on your selection
Time Server Address	You can manually assign time server address if the default time server dose not work
Daylight Savings	The router can also take Daylight savings into account. If you wish to use this function, you must check/tick the enable box to enable your daylight saving configuration (below)
Times From	Select the period in which you wish to start daylight Savings Time
Times to	Select the period in which you wish to end daylight Savings Time

Click on **NEXT** to proceed to the next page (step 2) Broadband Type.

Step 2) Broadband Type

In this section you have to select one of four types of connections that you will be using to connect your broadband router's WAN port to your ISP (see screen below).

Note: Different ISP's require different methods of connecting to the Internet, please check with your ISP as to the type of connection it requires.



Menu	Description
Cable Modem	Your ISP will automatically give you an IP address
Fixed-IP xDSL	Your ISP has given you an IP address already
PPPoE xDSL	Your ISP requires you to use a Point-to-Point Protocol over Ethernet (PPPoE) connection.
PPTP xDSL	Your ISP requires you to use a Point-to-Point Tunneling Protocol (PPTP) connection.
L2TP xDSL	Your ISP requires you to use a Layer Two Tunneling Protocol (L2TP) connection.
Telstra Big Pond	This Protocol only used for Australia's ISP connection.

Click on one of the WAN type and then proceed to the manual's relevant sub-section (1.1, 1.2, 1.3, 1.4, 1.5 or 1.6). Click on **Back** to return to the previous screen.

1.1 Cable Modem

Choose Cable Modem if your ISP will automatically give you an IP address. Some ISP's may also require that you fill in additional information such as Host Name and MAC address (see screen below).

Note: The Host Name and MAC address section is *optional* and you can skip this section if your ISP does not require these settings for you to connect to the Internet.

	Guick Setup	General Seup	status Info	ystem Tools
		3.IP Address Info	(
© 1.Time Zone © 2.Broadband Type	Cable Modern			
3JP Address Info	Host Name			
	MAC address	00000000000		
		Clone Mac address		
	TTL :	Oisabled O Enable	sd	
		(Back OK]

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Parameters	Description
Host Name	If your ISP requires a Host Name, type in the host name provided by your ISP, otherwise leave it blank if your ISP does not require a Host Name.
MAC Address	Your ISP may require a particular MAC address in order for you to connect to the Internet. This MAC address is the PC's MAC address that your ISP had originally connected your Internet connection to. Type in this MAC address in this section or use the " Clone MAC Address " button to replace the WAN MAC address with the MAC address of that PC (you have to be using that PC for the Clone MAC Address button to work). To find out the PC's MAC address see Appendix A. (see Glossary for an explanation on MAC address)

Click **<OK>** when you have finished the configuration above. **Congratulations**! You have completed the configuration for the Cable Modem connection. You can start using the router now, if you wish to use some of the advance features supported by this router see chapter 2, 3, 4.

1.2 Fixed-IP xDSL

Select Fixed-IP xDSL if your ISP has given you a specific IP address for you to use. Your ISP should provide all the information required in this section.

	Ouick Setup	Status Info	System Tools
	3.IP Address Info	5	
& 1.Time Zone & 2.Broadband Type & 3.JP Address Info	Fixed-IP xDSL Enter the IP Address, Subnet Mask, Gateway IP Addres to your by your ISP in the appropriate fields.	as and DNS IP Addres	s provided
	IP address assigned by your Service Provider	172.1.1.1	
	Subnet Mask	255.255.0.0	
	DNS address		
	Service Provider Gateway Address	172.1.1.254	
	m.:		inabled
	(Back	ок

Parameters	Description
IP address	This is the IP address that your ISP has given you.
Subnet Mask	Enter the Subnet Mask provided by your ISP (e.g. 255.255.255.0)
DNS address	This is the ISP's DNS server IP address
Gateway IP address	This is the ISP's IP address gateway

Click < OK > when you have finished the configuration above. **Congratulations**! You have completed the configuration for the Fixed-IP x DSL connection. You can start using the router now, if you wish to use some of the advance features supported by this router see chapter 2, 3, 4.

1.3 PPPoE

Select PPPoE if your ISP requires the PPPoE protocol to connect you to the Internet. Your ISP should provide all the information required in this section.

EDIMAX HETHORMING PEOPLE TOGETHER	Quick Setup	General	Seup	Status Ir	nfo 🕼 ystem To
		3.IP Add	ress Info		
& 1.Time Zone & 2.Broadband Type & 3.IP Address Info	PPPoE Enter the User Name and F ISP has provided you with a leave it blank.	assword required "Service Name"	by your ISP i enterit in the	n the approprie Service Name	ate fields. If your field, otherwise,
		Use PPPoE /	luthenticatio	a	
	User Name				
	Password				
	Service Name				
	MTU	1392	(612<=M	TU Value<=14	92)
	Connection Type	Continuous	~	Connect	Disconnect
	Idle Time Out	10	(1-1000 m	ninutes)	
	TTL :	Oisabled	CEnabled		
			C	Back	ОК

Parameter	Description
User Name	Enter the User Name provided by your ISP for the PPPoE connection
Password	Enter the Password provided by your ISP for the PPPoE connection
Service Name	This is optional. Enter the Service name should your ISP requires it, otherwise leave it blank.
MTU	This is optional. You can specify the maximum size of your transmission packet to the Internet. Leave it as it is if you to not wish to set a maximum packet size.
Connection Type	If you select "Continuous", the router will always connect to the ISP. If the WAN line breaks down and links again, the router will auto-reconnect to the ISP. If you select "Connect On Demand", the router will auto-connect to the ISP when someone wants to use the Internet and keep connected until the WAN idle timeout. The router will close the WAN connection if the time period that no one is using the Internet exceeds the "Idle Time". If you select "Manual", the router will connect to ISP only when you click "Connect" manually from the Web user interface. The WAN connection will not disconnect due to the idle timeout. If the WAN line breaks down and latter links again, the router will not auto-connect to the ISP.
Idle Time	You can specify an idle time threshold (minutes) for the WAN port. This means if no packets have been sent (no one using the Internet) during this specified period, the router will automatically disconnect the connection with your ISP. Note: This "idle timeout" function may not work due to abnormal activities of some network application software, computer virus or hacker attacks from the Internet. For example, some software sends network packets to the Internet in the background, even when you are not using the Internet. So please turn off your computer when you are not using it. This function also may not work with some ISP. So please make sure this function can work properly when you use this function in the first time, especially your ISP charge you by time used.

Click **<OK>** when you have finished the configuration above. **Congratulations**! You have completed the configuration for the PPPoE connection. You can start using the router now, if you wish to use some of the advance features supported by this router see chapter 2, 3, 4.

1.4 PPTP

Select PPTP if your ISP requires the PPTP protocol to connect you to the Internet. Your ISP should provide all the information required in this section.

	Guick Setu	p Ger	neral Seup	Statu	is Info 🔇 stem 7		
		3.IP	Address In	fo			
9 1.Time Zone 9 2.Broadband Type 9 3.JP Address Info	PPTP Point-to-Point Tunneling connections		ommon connec Interface Set		sed in xDSL		
	Obtain an IP addr	ess automatic	ally				
	Host Name						
	MAC address	00000	0000000	Clone	Mac address		
	Use the following IP address						
	IP address	0.0.0	2				
	Subnet Mask	0.0.0	0.0.0				
	Default Gateway	Default Gateway 0.0.0.0					
		• •	PPTP Settings				
	User ID						
	Password		1				
	PPTP Gateway	0000					
	Connection ID			(Optional)			
	MTU	1392	(512<= N	TU Value<=1	492)		
	BEZEQ-ISRAEL	Enable	(for BEZEQ ne	twork in ISRA	EL use only)		
	Connection Type	Continuou	is 💌	Connect	Dreconnect		
	Idle Time Out	10 (1-1000 minutes)					
				Back	OK		

Parameter	Description		
Obtain an IP address	The ISP requires you to obtain an IP address by DHCP automatically before connecting to the PPTP server.		
Use the following	The ISP give you a static IP to be used to connect IP address to the PPTP server		
IP Address	This is the IP address that your ISP has given you to establish a PPTP connection		
Subnet Mask	Enter the Subnet Mask provided by your ISP (e.g. 255.255.255.0)		
Gateway	Enter the IP address of the ISP Gateway		
User ID	Enter the User Name provided by your ISP for the PPTP connection. Sometimes called a Connection ID		
Password	Enter the Password provided by your ISP for the PPTP connection		
PPTP Gateway	If your LAN has a PPTP gateway, then enter that PPTP gateway IP address here. If you do not have a PPTP gateway then enter the ISP's Gateway IP address above		
Connection ID	This is the ID given by ISP. This is optional.		
BEZEQ-ISRAE	Select this item if you are using the service provided by BEZEQ in Israel.		
Connection Type	If you select "Continuous", the router will always connect to the ISP. If the WAN line breaks down and links again, the router will auto-reconnect to the ISP. If you select "Connect On Demand", the router will auto-connect to the ISP when someone wants to use the Internet and keep connected until the WAN idle timeout. The router will close the WAN connection if the time period that no one is using the Internet exceeds the "Idle Time".		
Idle Time	You can specify an idle time threshold (minutes) for the WAN port. This means if no packets have been sent (no one using the Internet) throughout this specified period, then the router will automatically disconnect the connection with your ISP. Note: This "idle timeout" function may not work due to abnormal activities of some network application software, computer virus or hacker attacks from the Internet. For example, some software sends network packets to the Internet in the background, even when you are not using the Internet. So please turn off your computer when you are not using it. This function also may not work with some ISP. So please make sure this function can work properly when you use this function in the first time, especially your ISP charge you by time used		

Click **<OK>** when you have finished the configuration above. **Congratulations**! You have completed the configuration for the PPTP connection. You can start using the router now, if you wish to use some of the advance features supported by this router see chapter 2, 3, 4.

1.5 L2TP

Select L2TP if your ISP requires the L2TP protocol to connect you to the Internet. Your ISP should provide all the information required in this section.

		3.IP A	ddress Ir	ifo	
1.Time Zone 2.Broadband Type 3.IP Address Info	L2TP Layer Two Tunneling Prot connections.	tocol is a commo	n connectio	n method used	in xDSL
		• WAN In	terface Se	ttings	
	Obtain on IP addr	ess automotical	ly		
	Horst Name				
	MAC address	0000000	00000	Clone	Mac address
	Use the following	IP address			
	IP address	0.0.0.0			
	Subnet Mask	0.0.0.0			
	Default Gateway	0.0.0.0			
		• L2	TP Setting:	ı.	
	User ID		1		
	Password		1		
	L2TP Gateway				
	MTU	1392	(512<=N	ITU Value<=14	92)
	Connection Type	Continuous	4	Connect	Disconsect
	Idle Time Out	10	(1-1000	minutes)	

Parameter	Description
Obtain an IP address	The ISP requires you to obtain an IP address by DHCP automatically before connecting to the L2TP server.
MAC Address	Your ISP may require a particular MAC address in order for you to connect to the Internet. This MAC address is the PC's MAC address that your ISP had originally connected your Internet connection to. Type in this MAC address in this section or use the "Clone MAC Address" button to replace the WAN MAC address with the MAC address of that PC (you have to be using that PC for the Clone MAC Address button to work). To find out the PC's MAC address see Appendix A. (see Glossary for an explanation on MAC address)
Use the following	The ISP gives you a static IP to be used to connect to the L2TP server.
IP Address	This is the IP address that your ISP has given you to establish a L2TP connection.
Subnet Mask	Enter the Subnet Mask provided by your ISP (e.g. 255.255.255.0)
Gateway	Enter the IP address of the ISP Gateway
User ID	Enter the User Name provided by your ISP for the PPTP connection. Sometimes called a Connection ID
Password	Enter the Password provided by your ISP for the PPTP connection
L2TP Gateway	If your LAN has a L2TP gateway, then enter that L2TP gateway IP address here. If you do not have a L2TP gateway then enter the ISP's Gateway IP address above
MTU	This is optional. You can specify the maximum size of your transmission packet to the Internet. Leave it as it is if you to not wish to set a maximum packet size.
Connection Type	If you select "Continuous", the router will always connect to the ISP. If the WAN line breaks down and links again, the router will auto-reconnect to the ISP. If you select "Connect On Demand", the router will auto-connect to the ISP when someone wants to use the Internet and keep connected until the WAN idle timeout. The router will close the WAN connection if the time period that no one is using the Internet exceeds the "Idle Time". If you select "Manual", the router will connect to ISP only when you click "Connect" manually from the Web user interface. The WAN connection will not be disconnected due to the idle timeout. If the WAN line breaks down and latter links again, the router will not auto-connect to the ISP.

Idle Time Out	The WAN "idle timeout" auto-disconnect function may not work due to abnormal activities of some network application software, computer virus or hacker attacks from the Internet. For example, some software sends network packets to the Internet in the background, even when you are not using the Internet. This function also may not work with some ISP. So please make sure this function can work properly when you use this function in the first time, especially your ISP charge you by time used. Due to the many uncontrollable issues, we do not guarantee the WAN "idle timeout" auto-disconnect function will always work. In order to prevent from extra fee charged by ISP, please TURN OFF THE ROUTER WHEN YOU FINISHED USING THE INTERNET .
---------------	--

Click **<OK>** when you have finished the configuration above. **Congratulations**! You have completed the configuration for the L2TP connection. You can start using the router now, if you wish to use some of the advance features supported by this router see chapter 2, 3, 4.

1.6 Telstra Big Pond

Select Telstra Big Pond if your ISP requires the Telstra Big Pond protocol to connect you to the Internet. Your ISP should provide all the information required in this section. Telstra Big Pond protocol is used by the ISP in Australia.

Juick Setup	General S	eup	System Tools
	3.IP Addre	ss Info	
If your internet service is pro	ovided by Telstra Big		ed to enter
User Name			
Password			
User decide login se	erver manually		
Login Server	0.0.0.0		
		Back	OK
	Cuick Setup Telstra Big Pond (Austral If your Internet service is pr your information below. This User Name Password User decide logins a	Ouick Setup Ceneral S 3.IP Addree Telstra Big Pond (Australia Only) If your internation below. This information is provided User Name Password User decide login server manually	Ouick Setup General Seup Status Info 3.IP Address Info Telstra Big Pond (Australia Only) If your Internet senice is provided by Telstra Big Pond in Australia, you will neityour information below. This information is provided by Telstra BigPond. User Name

Parameter	Description
User Name	Enter the User Name provided by your ISP for the Telstra Big Pond connection
Password	Enter the Password provided by your ISP for the Telstra Big Pond connection
User decide login server	Select if you want to assign the IP of Telstra Big Pond's login
manually	Server manually.
Login Server	The IP of the Login Server.

Click **<OK>** when you have finished the configuration above. **Congratulations**! You have completed the configuration for the Telstra Big Pond connection. You can start using the router now, if you wish to use some of the advance features supported by this router see chapter 2, 3, 4.

Chapter 2

General Settings

Once you click on the General Setup button at the Home Page, you should see the screen below.

If you have already configured the Quick Setup Wizard you do NOT need to configure anything thing in the General Setup screen for you to start using the Internet.

The General Setup contains advanced features that allow you to configure the router to meet your network's needs such as: Wireless, Address Mapping, Virtual Server, Access Control, Hacker Attack Prevention, Special Applications, DMZ and other functions.

Below is a general description of what advance functions are available for this broadband router



Menu	Description
System	This section allows you to set the Broadband router's system Time Zone, Password and Remote Management Administrator.
WAN	This section allows you to select the connection method in order to establish a connection with your ISP (same as the Quick Setup Wizard section)
LAN	You can specify the LAN segment's IP address, subnet Mask, enable/disable DHCP and select an IP range for your LAN
Wireless	Setup the wireless LAN's SSID, WEP key, MAC filtering.
QoS	You can setup the QoS bandwidth control policy.
NAT	You can configure the Address Mapping, Virtual Server and Special Applications functions in this section. This allows you to specify what user/packet can pass your router's NAT.
Firewall	The Firewall section allows you to configure Access Control, Hacker Prevention and DMZ.
Print Server	The Print section allows you to enable the USB ports to support USB printer.
NAS	The NAS section allows you to enable the USB ports to support USB storage devices.

Select one of the above five General Setup selections and proceed to the manual's relevant sub-section

2.1 System

The system screen allows you to specify a time zone, to change the system password and to specify a remote management user for the broadband router.

	Courick Setup
System Time Zone Password Settings Remote Management	System Setting This page includes the basic configuration tools for the Broadband router's remote management access function.
• WAN	
• LAN	
 Wireless 	
• QoS	
 NAT 	
• Firewall	
Print Server	
 NAS System 	

Parameters	Description
Time Zone	Select the time zone of the country you are currently in. The router will set its time based on your selection
Password Settings	Allows you to select a password in order to access the web-based management website.
Remote Management	You can specify a Host IP address that can perform remote management functions.

Select one of the above three system settings selections and proceed to the manual's relevant sub-section

2.1.1 Time Zone

The Time Zone allows your router to reference or base its time on the settings configured here, which will affect functions such as Log entries and Firewall settings.

	Quick	Setup 🤃 Setup 🖾 Setus Info		
♥ System ● <u>Time Zone</u>	Set the time zone firewall settings.	Time Zone of the Broadband router. This information is used for log entries and		
Password Settings Remote Management	Set Time Zone	(GMT)Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London		
• WAN	Time Server Address :	192 43 244 18		
LAN	Daylight Savings	Enable Function		
Wireless	Dayiight Savings	Times From January + 1 + To January + 1 +		
QoS		Next		
NAT		Next		
Firewall				
Print Server				
NAS System				

Parameter	Description
Set Time Zone	Select the time zone of the country you are currently in. The router will set its time based on your selection.
Time Server Address	The router default the "Time Server Address" is "192.43.244.18"
Daylight Savings	The router can also take Daylight savings into account. If you wish to use this function, you must check/tick the enable box to enable your daylight saving configuration (below).
Times From	Select the period in which you wish to start daylight Savings Time
Times to	Select the period in which you wish to end daylight Savings Time

Click **<Apply>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router (with the advance settings in place)

2.1.2 Password Settings

You can change the password required to log into the broadband router's system web-based management. By default, there is no password. So please assign a password to the Administrator as soon as possible, and store it in a safe place. Passwords can contain 0 to 12 alphanumeric characters, and are case sensitive.

	Quick Setup	neral Seup	Status	Info
 ✓ System Time Zone Password Settings Remote Management 	Pass You can change the password require based management. By default, the pa the Administrator as soon as possible contain 0 to 30 alphanumenic characte	and store it in a	noadband router Soplease assig safe place. Pas	n a password to
WAN	curtain a to sa agnamment characte	rs, and are case i	seniolowe	
LAN	Current Password]	
Wireless	New Password]	
QoS	Confirmed Password			
NAT			Ant	Cancel
Firewall		L	Apply	varicei
Print Server				
 NAS System 				

Parameters	Description
Current Password	Enter your current password for the remote management administrator to login to your Broadband router. Note: By default there is NO password
New Password	Enter your new password
Confirmed Password	Enter your new password again for verification purposes Note : If you forget your password, you'll have to reset the router to the factory default (No password) with the reset button (see router's back panel)

Click **<Apply>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router (with the advance settings in place)

2.1.3 Remote Management

The remote management function allows you to designate a host in the Internet the ability to configure the Broadband router from a remote site. Enter the designated host IP Address in the Host IP Address field.

	Quick Setup	eral Seup	s Info 🕼
System Time Zone Password Settings Remote Management	Remote The remote management function allows management/configuration access to the designated host IP Address in the Host I	Broadband router from a ren	
• WAN	Host Address	Port	Enabled
• LAN	0.0.0.0	8080	
Wireless			
• QoS		Apply	Cancel
• NAT			
Firewall			
Print Server			
NAS System			

Parameters	Description
Host Address	This is the IP address of the host in the Internet that will have management/configuration access to the Broadband router from a remote site. This means if you are at home and your home IP address has been designated the Remote Management host IP address for this router (located in your company office), then you are able to configure this router from your home. If the Host Address is left 0.0.0 this means anyone can access the router's web-based configuration from a remote location, providing they know the password. Click the Enabled box to enable the Remote Management function. Note : When you want to access the web-based management from a remote site, you must enter the router's WAN IP address (e.g. 10.0.0.1) into your web-browser followed

	by port number 8080, e.g. 10.0.0.1:8080 (see below). You'll also need to know the password set in the Password Setting screen in order to access the router's web- based management.	
Port	The port number of remote management web interface.	
Enabled	Select "Enabled" to enable the remote management function.	

2.2 WAN

Use the WAN Settings screen if you have already configured the Quick Setup Wizard section and you would like to change your Internet connection type. The WAN Settings screen allows to specify the type of WAN port connect you want to establish with your ISP. The WAN settings offer the following selections for the router's WAN port, **Dynamic IP**, **Static IP Address**, **PPPOE**, **PPTP**, **L2TP**, **Telstra Big Pond**, **DNS** and **DDNS**.

ALTIVIANO CLARE I PULITIEN		Country Octop	General Scup Status Info System
• System			WAN Settings
WAN Dynamic IP Static IP	The I meth		be connected to your Seniice Provider through the following
	0	Dynamic IP	Obtains an IP Address automatically from your Service Provider
L2TP	۲	Static IP	Uses a Static IP Address. Your Service Provider gives a Static IP Address to access Internet services.
 Telstra Big Pond DNS 	0	PPPoE	PPP over Ethemst is a common connection method used in xDSL connections.
DDNS LAN	0	PPTP	Point-to-Point Tunneling Protocol is a common connection method used in xDSL connections.
Wireless	0	L2TP	Layer Two Tunneling Protocol is a common connection method used in xDSL connections
• QoS	0	Telstra Big Pond	Telstra Big Pond is a Internet service is provided in Australia
 NAT 			More Configuration
 Firewall 			
 Print Server 			
 NAS System 			

Parameters	Description
Dynamic IP	Your ISP will automatically give you an IP address
Static IP	Your ISP has given you an IP address already
PPPoE	Your ISP requires PPPoE connection.
PPTP	Your ISP requires you to use a Point-to-Point Tunneling Protocol (PPTP) connection.
L2TP	Your ISP requires L2TP connection.
Telstra Big Pond	Your ISP requires Telstra Big Pond connection.
DNS	You can specify a DNS server that you wish to use
DDNS	You can specify a DDNS server that you wish to use and configure the user name and password provided by you DDNS service provider.

Once you have made a selection, click < More Configuration> at the bottom of the screen and proceed to the manual's relevant sub-section

2.2.1 Dynamic IP

Choose the Dynamic IP selection if your ISP will automatically give you an IP address. Some ISP's may also require that you fill in additional information such as Host Name, Domain Name and MAC address (see chapter 1 "Cable Modem" for more detail)

2.2.2 Static IP Address

Select Static IP address if your ISP has given you a specific IP address for you to use. Your ISP should provide all the information required in this section. (See chapter 1 "Fixed IP" for more detail)

2.2.3 PPPoE (PPP over Ethernet)

Select PPPoE if your ISP requires the PPPoE protocol to connect you to the Internet. Your ISP should provide all the information required in this section. (See chapter 1 "PPPoE" for more detail)

2.2.4 PPTP

Select PPTP if your ISP requires the PPTP protocol to connect you to the Internet. Your ISP should provide all the information required in this section. (See chapter 1 "PPTP" for more detail)

2.2.5 L2TP

Select L2TP if your ISP requires the L2TP protocol to connect you to the Internet. Your ISP should provide all the information required in this section. (See chapter 1 "L2TP" for more detail)

2.2.6 Telstra Big Pond

Select Telstra Big Pond if your ISP requires the Telstra Big Pond protocol to connect you to the Internet. Your ISP should provide all the information required in this section. Telstra Big Pond protocol is used by the ISP in Australia. (See chapter 1 "Telstra Big Pond" for more detail)

2.2.7 DNS

A Domain Name System (DNS) server is like an index of IP addresses and Web addresses. If you type a Web address into your browser, such as <u>www.router.com</u>, a DNS server will find that name in its index and the matching IP address. Most ISPs provide a DNS server for speed and convenience. If your Service Provider connects you to the Internet with dynamic IP settings, it is likely that the DNS server IP address is provided automatically. However, if there is a DNS server that you would rather use, you need to specify the IP address of that DNS server here.

	Quick Setup	status	Info	ols
System WAN Dynamic IP Static IP PPPOE PPPOE PPTP L2TP Telstra Big Pond DVIS CONS	DNS A Domain Name System (DNS) server is like an inde Addresses. If you type a Web address into your brow www broadbandrouter com, a DNS server will find the matching IP address. Most ISPs provide a DNS serve your Service Provider may connect you to the Inferme likely that the DNS server IP Address is also provide DNS server that you would rather use, you need to g server. The primary DNS will be used for domain nam DNS access failures, the secondary DNS will be use Has your Internet service provider given you a DNS a	vser, such as at name in its inde er for speed and o it through dynami d dynamically. Ho pecify the IP Add be access first, in id.	ex and find the convenience. Since c IP settings, it is www.evr. if there is a ress of that DNS	
• LAN		-		
 Wireless 	DNS address	-		
• QoS	Secondary DNS Address (optional)			
NAT		Apply	Cancel	
 Firewall 				
Print Server				
NAS System				

Parameters	Description
DNS address	This is the ISP's DNS server IP address that they gave you; or you can specify your own preferred DNS server IP address
Secondary DNS Address (optional)	This is optional. You can enter another DNS server's IP address as a backup. The secondary DNS will be used should the above DNS fail.

Click **<Apply>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router (with the advance settings in place)

2.2.8 DDNS

DDNS allows you to map the static domain name to a dynamic IP address. You must get an account, password and your static domain name from the DDNS service providers. This router supports DynDNS, TZO and other common DDNS service providers.

		DDNS	5		
System WAN Dynamic IP Static IP Static IP	DDNS allows users to map get a account, password an Our products have DDNS se	id your static domain	name from the DD	NIS service providers.	
O PPTP	Dynamic DNS	O Enabled ③	Disabled		
 L2TP Telstra Big Pond 	Provider	DynDNS M			
DNS DONS	Domain Name				
LAN	Account / E-Mail				
Wireless	Password / Key				
• QoS			L Annh		
NAT			Apply	Cancel	
Firewall					
Print Server					
NAS System					

Parameters	Default	Description
Enable/Disable	Disable	Enable/Disable the DDNS function of this router
Provider		Select a DDNS service provider
Domain name		Your static domain name that use DDNS
Account/E-mail		The account that your DDNS service provider assigned to you
Password/Key		The password you set for the DDNS service account above

Click **<Apply>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router (with the advance settings in place)

2.3 LAN

The LAN Port screen below allows you to specify a private IP address for your router's LAN ports as well as a subnet mask for your LAN segment.

	Quick Setup	General Seup
 System WAN LAN Wireless 	You can enable the Broadbar Addresses to your LAN client Local Area Network.	LAN Settings id router's DHCP server to dynamically allocate IP PCs. The broadband router must have an IP Address for the
 QoS NAT Firewall Print Server NAS System 	LAN IP IP address Subnet Mask 802.1d Spanning Tree DHCP Server DHCP Server	192.168.2.1 255.255.255.0 Disabled • Enabled •
	Lease Time Start IP End IP Domain Name	Forever Image: Control of the second se

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Parameters	Default	Description
LAN IP		
IP address	192.168.2.1	This is the router's LAN port IP address (Your LAN clients default gateway IP address)
IP Subnet Mask	255.255.255.0	Specify a Subnet Mask for your LAN segment
802.1d Spanning Tree	Disabled	If 802.1d Spanning Tree function is enabled, this router will use the spanning tree protocol to prevent from network loop happened in the LAN ports.
DHCP Server	Enabled	You can enable or disable the DHCP server. By enabling the DHCP server the router will automatically give your LAN clients an IP address. If the DHCP is not enabled then you'll have to manually set your LAN client's IP addresses; make sure the LAN Client is in the same subnet as this broadband router if you want the router to be your LAN client's default gateway
Lease Time		The DHCP when enabled will temporarily give your LAN clients an IP address. In the Lease Time setting you can specify the time period that the DHCP lends an IP address to your LAN clients. The DHCP will change your LAN client's IP address when this time threshold period is reached
IP Address Pool		You can select a particular IP address range for your DHCP server to issue IP addresses to your LAN Clients. Note: By default the IP range is from: Start IP 192.168.2.100 to End IP 192.168.2.200 . If you want your PC to have a static/fixed IP address then you'll have to choose an IP address outside this IP address Pool.
Domain Name		You can specify a Domain Name for your LAN.

2.4 Wireless

Wireless Access Point builds a wireless LAN and can let all PCs equipped with IEEE 802.11b or 801.11g wireless network adaptor connect to your Intranet. It supports WEP and WPA2 encryption to enhance the security of your wireless network.

	Guick Setup
 System WAN LAN Wireless Basic Settings Advance Settings Security Settings Acpase Control 	Wireless Settings The gateway can be quickly configured as a wireless access point for roaming clients by setting the access identifier and channel number. It also supports data encryption and client filtering. Enable or disable Wireless module function ① Enable ② Disable
QoS NAT Firewall Print Server NAS System	Apply

Parameters	Default	Description
Enable or disable	Enable	You can select to enable or disable the wireless access point module of this router Wireless module function

Click <**Apply>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router (with the advance settings in place)

2.4.1 Basic Settings

You can set parameters that are used for the wireless stations to connect to this router. The parameters include Mode, ESSID, Channel Number and Associated Client.

Setting Page

 System 		Wireless Settings	
• WAN	This page allows you to defin	we ESSID, and Channel for the wireless stations to connect to	wireless connection. These
• LAN	parameters are used for the	wireless stations to connect to	The Access Point
& Wireless		10	
 Basic Settings Advance Settings 	Mode :	AP	
Security Settings	Band	2.4 GHz (B+G) 💌	
Access Control	ESSID :	default	
• QoS	Channel Number	11 🛩	
 NAT 			
 Firewall 		(m)	Apply Cancel
 Print Server 		_	
 NAS System 			

Parameters	Default	Description
Mode		It allows you to set the AP to AP, Bridge or WDS mode.
Band		It allows you to set the AP fix at 802.11b or 802.11g mode. You also can select B+G mode to allow the AP select 802.11b and 802.11g connection automatically.
ESSID	default	This is the name of the wireless LAN. All the devices in the same wireless LAN should have the same ESSID.
Channel Number	11	The channel used by the wireless LAN. All devices in the same wireless LAN should use the same channel.
MAC address		If you want to bridge more than one network together with wireless LAN, you have to set this access point to "AP Bridge-Point to Point mode", "AP Bridge-Point to Multi-Point mode" or "AP Bridge-WDS mode". You have to enter the MAC addresses of other access points that join the bridging work.
Set Security		Click the "Set Security" button, and then a "WDS Security Settings" will pop up. You can set the security parameters used to bridge access points together here when your AP is in AP Bridge modes. You can refer to section 4.3 "Security Settings" for how to set the parameters.

Click **<Apply>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router (with the advance settings in place)

2.4.2 Advanced Settings

You can set advanced wireless LAN parameters of this router. The parameters include Authentication Type, Fragment Threshold, RTS Threshold, Beacon Interval, preamble Type You should not change these parameters unless you know what effect the changes will have on this router.

• System		Advance	d Settings
• WAN			advanced users who have a sufficient gs should not be changed unless you know
• LAN	what effect the changes will h	ave on your Bro	gs should not be changed unless you know tadband router.
Wireless			
 Basic Settings Advance Settings 	Fragment Threshold:	2346	(256-2346)
Security Settings Access Control	RTS Threshold:	2347	(0-2347)
	Beacon Interval:	100	(20- 1024 ms)
QoS NAT	DTIM Period	3	(1-10)
Firewall	Data Rate:	Auto 👻	
Print Server	Preamble Type:	Long P	reamble O Short Preamble
NAS System	Broadcast Essid :	Enable	O Disable
	CTS Protect:	O Auto	O Always 💿 None
	Tx Power:	100 % 🛩	
	Turbo Mode	Enable	O Disable
	VVIVMM :	O Enable	Disable

Parameters	Description
Fragment Threshold	"Fragment Threshold" specifies the maximum size of packet during the fragmentation of data to be transmitted. If you set this value too low, it will result in bad performance.
RTS Threshold	When the packet size is smaller the RTS threshold, the wireless router will not use the RTS/CTS mechanism to send this packet.
Beacon Interval	The interval of time that this wireless router broadcast a beacon. Beacon is used to synchronize the wireless network.
DTIM Period	The DTIM period you specify here indicates how often the clients served by this access point should check for buffered data still on the AP awaiting pickup.
Data Rate	The "Data Rate" is the rate this access point uses to transmit data packets. The access point will use the highest possible selected transmission rate to transmit the data packets.
Preamble Type	The "Long Preamble" can provide better wireless LAN compatibility while the "Short Preamble" can provide better wireless LAN performance.
Broadcast ESSID	If you enable "Broadcast ESSID", every wireless station located within the coverage of this access point can discover this access point easily. If you are building a public wireless network, enabling this feature is recommended. Disabling "Broadcast ESSID" can provide better security.
IAPP	If you enable "IAPP", it will allow wireless station roaming between IAPP enabled access points within the same wireless LAN.
CTS Protect	It is recommended to enable the protection mechanism. This mechanism can decrease the rate of data collision between 802.11b and 802.11g wireless stations. When the protection mode is enabled, the throughput of the AP will be a little lower due to many of frame traffic should be transmitted.
Tx Power	You can adjust the wireless transmit power here. By reduce the tx power can let the wireless signal only cover your working area.
Turbo Mode	By enable the turbo mode can enhance the throughput up to 35Mbps.
WMM	WMM stands for Wi-Fi Multimedia. It is a standard created to define quality of service (QoS) in Wi-Fi networks. This adds prioritized capabilities to Wi-Fi networks and optimizes their performance when multiple concurring applications, each with different latency and throughput requirements, compete for network resources.

Click <**Apply>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router.

2.4.3 Security

This Router provides complete wireless LAN security functions, include WEP, IEEE 802.11x, IEEE 802.11x with WEP, WPA with pre-shared key and WPA with RADIUS. With these security functions, you can prevent your wireless LAN from illegal access. Please make sure your wireless stations use the same security function.

2.4.3.1 WEP only

When you select 64-bit or128-bit WEP key, you have to enter WEP keys to encrypt data. You can generate the key by yourself and enter it. You can enter four WEP keys and select one of them as default key. Then the router can receive any packets encrypted by one of the four keys

	Quick Setup	Gèneral Seup	fo System Tools
• System • WAN • LAN		Security Settings he wireless security. Turn on WEP or Wi ht any unauthorized access to your wirel	
Wireless Basic Settings Advance Settings Security Settings Access Control	Encryption : Key Length : Key Format :	WEP 64-bit Hex (10 characters)	
• QoS • NAT	Default Key : Encryption Key 1 :	Key 1 💉	
FirewallPrint Server	Encryption Key 2 : Encryption Key 3 :		
 NAS System 	Encryption Key 4 :	ntication	
		Apply	Cancel

Parameters	Default	Description
Key Length	64-bit	You can select the WEP key length for encryption, 64-bit or 128-bit. Larger WEP key length will provide higher level of security, but the throughput will be lower.
Key Format		You may to select ASCII Characters (alphanumeric format) or Hexadecimal Digits (in the "A-F", "a-f" and "0-9" range) to be the WEP Key. For example: ASCII Characters: guest Hexadecimal Digits: 12345abcde
Default Key		Select one of the four keys to encrypt your data. Only the key you select it in the "Default key" will take effect.
Key 1 - Key 4		The WEP keys are used to encrypt data transmitted in the wireless network. Fill the text box by following the rules: 64-bit WEP: input 10- digit Hex values (in the "A-F", "a-f" and "0-9" range) or 5-digit ASCII character as the encryption keys. 128-bit WEP: input 26-digit Hex values (in the "A-F", "a-f" and "0-9" range) or 13-digit ASCII characters as the encryption keys.

Click **<Apply>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router (with the advance settings in place)

2.4.3.2 802.1x only

IEEE 802.1x is an authentication protocol. Every user must use a valid account to login to this Access Point before accessing the wireless LAN. The authentication is processed by a RADIUS server. This mode only authenticates user by IEEE 802.1x, but it does not encryption the data during communication.

System WAN LAN	This page allows you setup the	ecurity Settings wireless security. Turn on WEP or WP/ any unauthorized access to your wireles	
¥ Wireless	Encryption :	WPA RADIUS	
 Basic Settings Advance Settings 	WPA Unicast Cipher Suite	and the second	WPA2 Mixed
 Security Settings Access Control 	RADIUS Server IP address :		
QoS	RADIUS Server Port	1812	
NAT	RADIUS Server Password :		
Firewall			
Print Server		Apply	Cancel
NAS System			

Parameters	Description
RADIUS Server IP address	The IP address of external RADIUS server.
RADIUS Server Port	The service port of the external RADIUS server.
RADIUS Server Password	The password used by external RADIUS server.

Click <**Apply>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router (with the advance settings in place)

2.4.3.3 802.1x WEP Static key

IEEE 802.1x is an authentication protocol. Every user must use a valid account to login to this Access Point before accessing the wireless LAN. The authentication is processed by a RADIUS server. This mode also uses WEP to encrypt the data during communication.

		Security Settings		
 System 				
• WAN	This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.			
• LAN				
@ Wireless	Encryption :	WEP		
 Basic Settings Advance Settings 	Key Length	64-bit M		
 Security Settings Access Control 	Key Format :	Hex (10 characters) M		
• OoS	Default Key	Key 1 🛩		
• NAT	Encryption Key 1 :			
 Firewall 	Encryption Key 2 :	*******	1.	
 Print Server 	Encryption Key 3 :			
 NAS System 	Encryption Key 4 :	*****		
	Enable 802.1x Author	ntication		

For the WEP settings please refer to section 2.4.3.1 "WEP only". For the 802.1x settings, please refer to section 2.4.3.2 "802.1x only".

2.4.3.4 WPA Pre-shared key

Wi-Fi Protected Access (WPA) is an advanced security standard. You can use a pre-shared key to authenticate wireless stations and encrypt data during communication. It uses TKIP or CCMP (AES) to change the encryption key frequently. So the encryption key is not easy to be broken by hackers. This can improve security very much.

System	5	Security Settings	
• WAN		wireless security. Turn on WEP or WPA any unauthorized access to your wireless	
• LAN	and permit negative present	any contract access to your whereas	
@ Wireless	Encryption :	WPA pre-shared key	
 Basic Settings Advance Settings 	WPA Unicast Cipher Suite :	@WPA(TKIP) OWPA2(AES) ON	NPA2 Mixed
 Security Settings Access Control 	Pre-shared Key Format	Passphrase	
QoS	Pre-shared Key :		
NAT		Annie	Cancel
Firewall		Apply	Cancel
Print Server			
NAS System			

Parameters	Description
WPA(TKIP)	TKIP can change the encryption key frequently to enhance the wireless LAN security.
WPA2(AES)	This use CCMP protocol to change encryption key frequently. AES can provide high level encryption to enhance the wireless LAN security.
WPA2 Mixed	This will use TKIP or AES based on the other communication peer automatically.
Pre-shared Key Format	You may select to select Passphrase (alphanumeric format) or Hexadecimal Digits (in the "A- F", "a-f" and "0-9" range) to be the Pre-shared Key. For example: Passphrase: iamguest Hexadecimal Digits: 12345abcde
Pre-shared Key	The Pre-shared key is used to authenticate and encrypt data transmitted in the wireless network. Fill the text box by following the rules below. Hex WEP: input 64-digit Hex values (in the "A-F", "a-f" and "0-9" range) or at least 8 character pass phrase as the pre-shared keys.

Click **<Apply>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router (with the advance settings in place)

2.4.3.5 WPA Radius

Wi-Fi Protected Access (WPA) is an advanced security standard. You can use an external RADIUS server to authenticate wireless stations and provide the session key to encrypt data during communication. It uses TKIP or CCMP (AES) to change the encryption key frequently. This can improve security very much.

• System	٤	Security Settings
• System • WAN • LAN		e wireless security. Turn on WEP or WPA by using t any unauthorized access to your wireless network.
 ✓ Wireless ● Basic Settings 	Encryption :	
 Advance Settings Security Settings Access Control 	WPA Unicast Cipher Suite : RADIUS Server IP address :	WPA(TKIP) OWPA2(AES) OWPA2 Mixed
• QoS	RADIUS Server Port .	1812
• NAT	RADIUS Server Password :	
• Firewall		
 Print Server 		Apply Cancel
 NAS System 		

Parameters	Description
WPA(TKIP)	TKIP can change the encryption key frequently to enhance the wireless LAN security.
WPA2(AES)	This use CCMP protocol to change encryption key frequently. AES can provide high level encryption to enhance the wireless LAN security.
WPA2 Mixed	This will use TKIP or AES based on the other communication peer automatically.
RADIUS Server IP address	The IP address of external RADIUS server.
RADIUS Server Port	The service port of the external RADIUS server.
RADIUS Server	Password The password used by external RADIUS server.

2.4.4 Access Control

This wireless router provides MAC Address Control, which prevents the unauthorized MAC Addresses from accessing your wireless network.

	Gluick Setup	eral Seup	Info
 System WAN LAN 	MAC Ac For security reason, the Access Point fe authorized MAC Addresses associating t		that only allows
Wireless Basic Settings Advance Settings Secunty Settings Access Control	MAC Address Filtering Table It allows to entry 20 sets address only. NO. MAC oddress	Comment	Select
QoS NAT	Delete Selected Delete All	Reset	
Firewall Print Server	Enable Wireless Access Control		
NAS System	MAC address :	Comment	[Add] [Reset]
		Apply	Cancel

Parameters	Description
Enable wireless access control	Enable wireless access control
Add MAC address into the list	Fill in the "MAC Address" and "Comment" of the wireless station to be added and then click "Add". Then this wireless station will be added into the "Current Access Control List" below. If you find any issues before adding it and want to retype again. Just click "Clear" and both "MAC Address" and "Comment" fields will be cleared.
Remove MAC address from list	If you want to remove some MAC address from the "Current Access Control List ", select the MAC addresses you want to remove in the list and then click "Delete Selected". If you want remove all MAC addresses from the table, just click "Delete All" button. Click "Reset" will clear your current selections.

Click **<Apply>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router (with the advance settings in place)

2.5 QoS

The QoS can let you classify Internet application traffic by source/destination IP address and port number. You can assign priority for each type of application and reserve bandwidth for it. The packets of applications with higher priority will always go first. Lower priority applications will get bandwidth after higher priority applications get enough bandwidth. This can let you have a better experience in using critical real time services like Internet phone, video conference ...etc. All the applications not specified by you are classified as rule name "Others". The rule with smaller priority number has lower priority. You can adjust the priority of the rules by moving them up or down.

Note: If the total assigned bandwidth of higher priority applications is larger than the maximum bandwidth provided by the WAN port, the other applications will not get any bandwidth.

	Quick Setup	Seup 🔄 tatus Info 💭 stem Too	
	Qo	s	
System	Quality of Service (QoS) refers to the capability	v of a network to provide better service to	
WAN	selected network traffic. The primary goal of QoS is to provide priority including dedicated bandwidth, controlled jitter and latency (required by some real-time and interactive traffic).		
LAN	bandwidth, controlled jitter and latency (require and improved loss characteristics. Also import		
Wireless	one or more flows does not make other flows f		
QoS			
NAT	Enable QoS		
Firewall	Total Download Bandwidth : 0 kbits		
Print Server	Total Upload Bandwidth : 0	kbits	
NAS System	Current QoS Table		
	Priority Rule Name Upload E	Sandwidth Download Select	
	Add Edit Delete Selected Delet	te All Move Up Move Down	
	Reset	Move Op Move Down	
	(CE365)		
		Apply Cancel	

Parameters	Description
Enable/Disable QoS	You can check "Enable QoS" to enable QoS function for the WAN port. You also can uncheck "Enable QoS" to disable QoS function for the WAN port.
Total Download Bandwidth	Here you can set maximum download bandwidth for all the users of the router sharing.
Total Upload Bandwidth	Here you can set the maximum upload bandwidth for all the users of the router sharing.
Add a QoS rule into the table	Click "Add" then you will enter a form of the QoS rule. Click "Apply" after filling out the form and the rule will be added into the table.
Remove QoS rules from table	If you want to remove some QoS rules from the table, select the QoS rules you want to remove in the table and then click "Delete Selected". If you want remove all QoS rules from the table, just click "Delete All" button. Click "Reset" will clear your current selections.
Edit a QoS rule	Select the rule you want to edit and click "Edit", then you will enter the detail form of the QoS rule. Click "Apply" after editing the form and the rule will be saved.
Adjust QoS rule priority	You can select the rule and click "Move Up" to make its priority higher. You also can select the rule and click "Move Down" to make its priority lower.

Edit QoS Rule:

You can assign packet classification criteria by its local IP range, remote IP range, traffic type, protocol, local port range and remote port range parameters. The parameters that you leave as blank will be ignored. The priority of this rule will be applied to packets that match classification criteria of this rule. You can limit bandwidth consumed by packets that match this rule or guarantee bandwidth required by packets that match this rule.

System	This page allows o	QoS users to add/modify the QoS	nule's settings	
LAN	Rule Name :			
 Wireless 	Bandwidth :	Download 💌	Kbps guaran	tee 🖌
2 QoS	Local IP address :		and the second states	
NAT	Local Port Range :			1
Firewall	Remote IP address :			
Print Server	Remote Port Range :			
NAS System	Traffic Type :	None 💌		-A-
	Protocol	TCP ·		
		I have been seen as a second s	Save	Reset

Parameters	Description
Rule Name	The name of this rule.
Bandwidth	You can assign the download or upload bandwidth by the unit of Kbps (1024 bit per second). You can limit the maximum bandwidth consumed by this rule by selecting "Maximum". You also can reserve enough bandwidth for this rule by selecting "Guarantee".
Local IP Address	Enter the local IP address range of the packets that this rule will apply to. If you assign 192.168.2.3 – 192.168.2.5, it means 3 IP addresses: 192.168.2.3, 192.168.2.4 and 192.168.2.5
Local Port Range	Enter the local port range of the packets that this rule will apply to. You can assign a single port number here or assign a range of port numbers by assigning the first port number and the last port number of the range. The two numbers are separated by a dash "-", for example "101-150" means from port number 100 to port number 150 – the range of 50 port numbers.
Remote IP Address	Enter the remote IP address range of the packets that this rule will apply to. If you assign 192.168.2.3 – 192.168.2.5, it means 3 IP addresses: 192.168.2.3, 192.168.2.4 and 192.168.2.5
Remote Port Range	Enter the remote port range of the packets that this rule will apply to. You can assign a single port number here or assign a range of port numbers by assigning the first port number and the last port number of the range. The two numbers are separated by a dash "-", for example "101-150" means from port number 100 to port number 150 – the range of 50 port numbers.
Traffic Type	Select the traffic type of the packets that this rule will apply to. We list some popular applications here to ease the configuration. You also can get the same result by using other parameters, for example source or destination port number, if you are familiar with the application protocol.
Protocol	Select the protocol type of the packets that this rule will apply to.
Apply	Apply and exit the form.
Reset	Clear the content of this form.

2.6 NAT

Network Address Translation (NAT) allows multiple users at your local site to access the Internet through a single Public IP Address or multiple Public IP Addresses. NAT provides Firewall protection from hacker attacks and has the flexibility to allow you to map Private IP Addresses to Public IP Addresses for key services such as Websites and FTP.

 System 	NAT Settings
• WAN	Network Address Translation (NAT) allows multiple users at your local site to access
• LAN	the internet through a single Public IP Address or multiple Public IP Addresses. NAT provides Firewall protection from hacker attacks and has the flexibility to allow you to
• Wireless	map Private IP Addresses to Public IP Addresses for key services such as the Web or
• QoS	FTP.
NAT	Enable or disable NAT module function :
Port Forwarding	
Virtual Server	Apply
Special applications	
UPnP Setting	
ALG Settings	
 Firewall 	
Print Server	
NAS System	

Parameters	Description
Port Forwarding	You can have different services (e.g. email, FTP, Web etc.) going to different service servers/clients in your LAN. The Port Forwarding allows you to re-direct a particular range of service port numbers (from the Internet/WAN Ports) to a particular LAN IP address.
Virtual Server	You can have different services (e.g. email, FTP, Web etc.) going to different service servers/clients in your LAN. The Virtual Server allows you to re-direct a particular service port number (from the Internet/WAN Port) to a particular LAN IP address and its service port number.
Special Applications	Some applications require multiple connections, such as Internet games, video conferencing, Internet telephony and others. In this section you can configure the router to support these types of applications.
UPnP Setting	It allows to Enable or Disable UPnP feature here. After you enable the UPnP feature, all client systems that support UPnP, like Windows XP, can discover this router automatically and access the Internet through this router without any configuration. The NAT Traversal function provided by UPnP can let applications that support UPnP smoothly connect to Internet sites without any incompatibility problem due to the NAPT port translation.
ALG Setting	You can select special applications that need "Application Layer Gateway" to support here.
Static Routing	You can disable NAT function and setup the routing rules manually.

Click on one of the three NAT selections and proceed to the manual's relevant sub-section.

2.6.1 Port Forwarding

The Port Forwarding allows you to re-direct a particular range of service port numbers (from the Internet/WAN Ports) to a particular LAN IP address. It helps you to host some servers behind the router NAT firewall.

		Port Forw	arding		
tem	Estrict is this table allow use	, to automatically radio	et exemples actuarly eas	inne to a superfit marchine	
N	Entries in this table allow you to automatically redirect common network services to a specific machine behind the NAT firewall. These settings are only necessary if you wish to host some sort of server like a				
N	web server or mail server on the private local network behind your Gateway's NAT firewall.				
eless					
5	Enable Port Forwardin	Ig			
Г	Private IP	Type	Port Range	Comment	
t Forwarding lual Server		Both 💌			
ecial applications				Add Reset	
nP Setting					
G Settings	Current Port Forwarding T. NO. Private IP	INVESTIGATION IN CONTRACTOR OF	Port Range	Comment Select	
wall	no-1 Private IP	Туре	Porchange	Comment Selec	
it Server	Delete Selected	Deleta All. Reset			
S System					

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Parameters	Description		
Enable Port Forwarding	Enable Port Forwarding		
Private IP	This is the private IP of the server behind the NAT firewall. Note: You need to give your LAN PC clients a fixed/static IP address for Port Forwarding to work properly.		
Туре	This is the protocol type to be forwarded. You can choose to forward "TCP" or "UDP" packets only or select "both" to forward both "TCP" and "UDP" packets.		
Port Range	The range of ports to be forward to the private IP.		
Comment	The description of this setting.		
Add Port Forwarding	Fill in the "Private IP", "Type", "Port Range" and "Comment" of the setting to be added and then click "Add". Then this Port Forwarding setting will be added into the "Current Port Forwarding Table" below. If you find any typo before adding it and want to retype again, just click "Clear" and the fields will be cleared.		
Remove Port Forwarding	If you want to remove some Port Forwarding settings from the "Current Port Forwarding Table", select the Port Forwarding settings you want to remove in the table and then click "Delete Selected". If you want remove all Port Forwarding settings from the table, just click "Delete All" button. Click "Reset" will clear your current selections.		

2.6.2 Virtual Server

Use the Virtual Server function when you want different servers/clients in your LAN to handle different service/Internet application type (e.g. Email, FTP, Web server etc.) from the Internet. Computers use numbers called port numbers to recognize a particular service/Internet application type. The Virtual Server allows you to re-direct a particular service port number (from the Internet/WAN Port) to a particular LAN private IP address and its service port number. (See Glossary for an explanation on Port number)

		Vir	tual Serv	er	
System	You can configure	the Broadband route	e as a View	al Second an that a	amote users
WAN	accessing services	such as the Web or	FTP at you	r local site via Put	blic IP Addresses
LAN	can be automatically other words, depend				
Wireless	router redirects the	external service requ			
QoS	one of your LAN's P	irvate IP Address)			
TAT					
Port Forwarding	Enable Virtual	Server			
Virtual Server Special applications	Private IP	Private Port	Type	Public Port	Comment
UPnP Setting			Both 🛩		
ALG Settings					Add Reset
	Current Virtual Se	succ Table			
Firewall					
			Type	Public Post	Commont Solart
Firewall Print Server NAS System	NO. Private li		Туре	Public Pert	Comment Select

Parameters	Description
Enable Virtual Serve	Enable Virtual Server.
Private IP	This is the LAN client/host IP address that the Public Port number packet will be sent to. Note: You need to give your LAN PC clients a fixed/static IP address for Virtual Server to work properly.
Private Port	This is the port number (of the above Private IP host) that the below Public Port number will be changed to when the packet enters your LAN (to the LAN Server/Client IP)
Туре	Select the port number protocol type (TCP, UDP or both). If you are unsure, then leave it to the default both protocols.
Public Port	Enter the service (service/Internet application) port number from the Internet that will be re-directed to the above Private IP address host in your LAN Note : Virtual Server function will have priority over the DMZ function if there is a conflict between the Virtual Server and the DMZ settings.
Comment	The description of this setting.

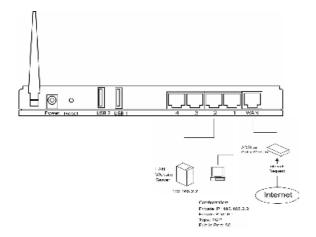
Add Virtual Server	Fill in the "Private IP", "Private Port", "Type", "Public Port" and "Comment" of the setting to be added and then click "Add". Then this Virtual Server setting will be added into the "Current Virtual Server Table" below. If you find any typo before adding it and want to retype again, just click "Clear" and the fields will be cleared.
Remove Virtual Server	If you want to remove some Virtual Server settings from the "Current Virtual Server Table", select the Virtual Server settings you want to remove in the table and then click "Delete Selected". If you want remove all Virtual Server settings from the table, just click "Delete All" button. Click "Reset" will clear your current selections.

Note: The function of NAS FTP/HTTP server will be affected after you setting FTP/HTTP server in Virtual Server, due to the priority of settings in Virtual Server are higher than in NAS.

Example: Virtual Server

The diagram below demonstrates one of the ways you can use the Virtual Server function. Use the Virtual Server when you want the web server located in your private LAN to be accessible to Internet users. The configuration below means that any request coming form the Internet to access your web server will be translated to your LAN's web server (192.168.2.2).

Note: For the virtual server to work properly Internet/remote users must know your global IP address. (For websites you will need to have a fixed/static global/public IP address)



2.6.3 Special Applications

Some applications require multiple connections, such as Internet games, video conferencing, Internet telephony and others. In this section you can configure the router to support multiple connections for these types of applications.

KORKING PEOPLE TOGETHER		uick Setup	General Seup	Status Ini	fo System
		;	Special Applications		
ystem	Some applications requ	ire multiple con	nections, such as Internet gamin	na, video confer	encing, Internet
VAN	telephony and others. T	hase application	ns cannot work when Network Ar	ddress Translat	tion (NAT) is enabled
AN	If you need to run applications that require multiple connections, specify the port normally associated with an application in the "Trigger Port" field select the protocol type as TCP or UDP, then enter the public ports				
Vireless	associated with the trig Note:The range of the T		them for inbound traffic.		
loS	Hote, the range of the t	nggar r on a r	0 99939.		
IAT	Enable Trigger	Port			
Port Forwarding Virtual Server	Trigger Port	Trigger Type	Public Port	Public	Comment
Special applications		Both 🛩		Both V	
UPnP Setting	Popular Applications	A CONTRACTOR OF A	select one	Add	
ALG Settings	i opanii repircatione			(Add Reset
irewall	2				
rint Server	Current Trigger-Port 1	Table			
NAS System	NO. Trigger Port	rigger Type	Public Port	Public Type	Comment. Selec
	Delitte Selected	Balate All	Reset		
				Apply	Cancel

Parameters	Description		
Enable Trigger Port	Enable the Special Application function.		
Trigger Port	This is the out going (Outbound) range of port numbers for this particular application		
Trigger Type	Select whether the outbound port protocol is "TCP", "UDP" or both.		
Public Port	Enter the In-coming (Inbound) port or port range for this type of application (e.g. 2300- 2400, 47624) Note : Individual port numbers are separated by a comma (e.g. 47624, 5775, and 6541 etc.). To input a port range use a "dash" to separate the two port number range (e.g. 2300-2400)		
Public Type	Select the Inbound port protocol type: "TCP", "UDP" or both		
Comment	The description of this setting.		
Popular applications	This section lists the more popular applications that require multiple connections. Select an application from the Popular Applications selection. Once you have selected an application, select a location (1-10) in the Copy to selection box and then click the Copy to button. This will automatically list the Public Ports required for this popular application in the location (1-10) you'd specified.		
Add Special Application	Fill in the "Trigger Port", "Trigger Type", "Public Port", "Public Type", "Public Port" and "Comment" of the setting to be added and then click "Add". Then this Special Application setting will be added into the "Current Trigger-Port Table" below. If you find any typo before adding it and want to retype again, just click "Clear" and the fields will be cleared. If you want to add a popular application, select one "Popular Application" and then click "Add".		
Remove Special Application	If you want to remove some Special Application settings from the "Current Trigger-Port Table", select the Special Application settings you want to remove in the table and then click "Delete Selected". If you want remove all Special Applications settings from the table, just click "Delete All" button. Click "Reset" will clear your current selections.		

Example: Special Applications

If you need to run applications that require multiple connections, specify the port (outbound) normally associated with that application in the "Trigger Port" field. Then select the protocol type (TCP or UDP) and enter the public ports associated with the trigger port to open them up for inbound traffic.

Example:

ID	Trigger Port	Trigger Type	Public Port	Public Type	Comment
1	28800	901	2300-2400, 47624	ТСР	MSN Game Zone
2	6112	UDP	6112	UDP	Battle.net

In the example above, when a user trigger's port 28800 (outbound) for MSN Game Zone then the router will allow incoming packets for ports 2300-2400 and 47624 to be directed to that user. **Note**: Only one LAN client can use a particular special application at a time.

2.6.4 UPnP Settings

With UPnP, all PCs in you Intranet will discover this router automatically. So you do not have to do any configuration for your PC and can access the Internet through this router easily.

	UP	'nP			
 System 					
 WAN 	UPnP is more just a simple extension of the Plug and Play peripheral model. It is designed to support zeto-configuration, "invisible" networking, and automatic discovery for a breadth of device categories from a wide range of vendors. With UPnP, a device can dynamically join a network, obtain an IP address, convey its capabilities, and learn about the presence and capabilities of other devices all automatically, truly enabling zero configuration networks. Devices can subsequently				
• LAN					
 Wireless 					
• QoS					
≪ NAT	communicate with each other directly, thereb	communicate with each other directly, thereby further enabling peer to peer networking.			
Port Forwarding	UPnP Feature:	O Enable			
Virtual Server					
Special applications		Apply Cancel			
UPnP Setting ALG Settings					
Firewall					
Print Server					

Parameters	Default	Description
UPnP Feature	Disable	You can Enable or Disable UPnP feature here. After you enable the UPnP feature, all client systems that support UPnP, like Windows XP, can discover this router automatically and access the Internet through this router without any configuration. The NAT Traversal function provided by UPnP can let applications that support UPnP smoothly connect to Internet sites without any incompatibility problem due to the NAPT port translation.

Click **<Apply>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router (with the advance settings in place)

2.6.5 ALG Settings

You can select applications that need "Application Layer Gateway" to support.

		Application Layer Gateway at need router's special support to make them work under the lications that you are using.
Enab	le Name	Comment
	Amanda	Support for Amanda backup tool protocol.
	Egg	Support for eggdrop bot networks.
	FTP	Support for FTP.
2	H323	Support for H323/netmeeting
	IRC	Allows DCC to work though NAT and connection tracking.
	MMS	Support for Microsoft Streaming Media Services protocol.
	Quake3	Support for Quake III Arena connection tracking and nat.
	Talk	Allows netfilter to track talk connections.
2	TIFTP	Support for TFTP.
2	Starcraft	Support for Starcraft/Battle.net game protocol.
P	MSN	Support for MSN file tranfer.
	NAT P P P P P P P P P P P	NAT You can select app Enable Name V Amanda V Egg V FTP V H323 V IRC V IRC V MMS V Quake3 V Talk V TeTP V Starcraft

Parameters	Default	Description
Enable		You can select to enable "Application Layer Gateway", and then the router will let that application correctly pass though the NAT gateway.

Click <**Apply>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router (with the advance settings in place)

2.6.6 Static Routing

This router provides Static Routing function when NAT is disabled. With Static Routing, the router can forward packets according to your routing rules. The IP sharing function will not work any more in Static Routing mode. **Note:** The DMZ function of firewall will not work if static routing is enabled.

	Guick Setup
• System • WAN • LAN • Wireless	Static Routing 2 You can enable Static Routing to turn off NAT function of this router and let this router forward packats by your routing policy.
Vorteess QoS NAT Static Routing Firewall Print Server NAS System	Enable Static Routing Destination LAN IP Subnet Mask Default Gateway Count Interface Add Reset
 NAS System 	Current Static Routing Table HO, Destination LAN IP Subnet Mask Default Gateway Count Interface Select
	Cancel

Parameters	Description	
Enable Static Routing	atic Routing function is default disabled. You have to enable the Static Routing function fore your routing rules take effect.	
Destination LAN IP	The network address of destination LAN.	
Subnet Mask	The subnet mask of destination LAN.	
Default Gateway	The next stop gateway of the path toward the destination LAN. This is the IP of the neighbor router that this router should communicate with on the path to the destination LAN.	
Hop Count	The number of hops (routers) to pass through to reach the destination LAN.	
Interface	The interface that go to the next hop (router).	
Add a Rule	Fill in the "Destination LAN IP", "Subnet Mask", "Default Gateway", "Hop Count" and "Interface" of the rule to be added and then click "Add". Then this rule of Static Routing will b added into the "Static Routing Table" below. If you find any typo before adding it and want to retype again, just click "Reset" and the fields will be cleared.	
Remove a Rule	If you want to remove some routing rules from the "Static Routing Table", select the rules you want to remove in the table and then click "Delete Selected". If you want remove all rules from the table, just click "Delete All" button. Click "Reset" will clear your current selections.	

Click **<Apply>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router (with the advance settings in place)

2.7 Firewall

The Broadband router provides extensive firewall protection by restricting connection parameters, thus limiting the risk of hacker attack, and defending against a wide array of common Internet attacks. However, for applications that require unrestricted access to the Internet, you can configure a specific client/server as a Demilitarized Zone (DMZ).

Note: To enable the Firewall settings select Enable and click Apply

	Coulck Setup
 System WAN LAN Wireless QoS 	Security Settings (Firewall) The Broadband router provides extensive frewall protection by restricting connection parameters, thus fimiling the risk of hackers statick, and defending against a wide array of common staticals. However, for applications that require unrestricted access to the intermet, you can configure a specific client/server as a Demilitarized Zone (DMZ).
NAT Firewall Access Control URL Blocking DoS DMZ	Enable or disable Firewall module function @ Enable 🔘 Disable
Print Server NAS System	

Parameters	Description
Access Control	Access Control allows you to specify which hosts users can or cannot have access to certain Internet applications
URL Blocking	URL Blocking allows you to specify which URLs can not be accessed by users.
DoS	The Broadband router's firewall can block common hacker attacks and can log the attack activities.
DMZ	The DMZ function allows you to re-direct all packets going to your WAN port IP address to a particular IP address in your LAN.

Click on one of the firewall selections and proceed to the manual's relevant sub-section

2.7.1 Access Control

If you want to restrict users from accessing certain Internet applications/services (e.g. Internet websites, email, FTP etc.), this is the place to set that configuration. Access Control allows users to define the traffic type permitted in your LAN. You can control which PC client can have access to these services.

	Coulck Setup
 System WAN LAN Wireless QoS NAT 	Security Settings (Firewall) Access Control allows users to define the traffic type permitted or not permitted in your LAN. You can control which PC client, uses what services in which they can have access to these services. If both of MAC filtering and IP fittering are enabled simultaneously, the NAC filtering table will be checked first and then IP fittering are enabled allows. Enable MAC Filtering ③ Deny ③ Allow
Firewall Access Control URL Blocking DoS DMZ	Client PC MAC address Comment Add Resst MAC Filtering Table
 Print Server NAS System 	HO. Client PC MAC address Comment Select Ballen Salacted Datate All Reset
	Enable IP Filtering Table (up to 20 computers) ③ Deny
	NO Description IP address Client Service Protocol Port Range Select Add PC Delete Selected Delete All
	Apply. Cancel

Parameters	Description	
Deny	If select "Deny" then all PCs will be allowed to access Internet accept for the PCs in the list below.	
Allow	If select "Allow" then all PCs will be denied to access Internet accept for the PCs in the list below.	
Filter client PCs by IP	Fill "IP Filtering Table" to filter PC clients by IP.	

Add PC	You can click Add PC to add an access control rule for users by IP addresses.	
Aud FC	TOU CALL CITCK AUG PC TO AUG ALL ACCESS CONTROL THE TOP USERS BY IP ADDRESSES.	
Remove PC	If you want to remove some PC from the "IP Filtering Table", select the PC you want to remove in the table and then click "Delete Selected". If you want remove all PCs from the table, just click "Delete All" button.	
Filter client PC by MAC	Check "Enable MAC Filtering" to enable	
address	MAC Filtering.	
Add PC	Fill in "Client PC MAC Address" and "Comment" of the PC that is allowed to access the Internet, and then click "Add". If you find any typo before adding it and want to retype again, just click "Reset" and the fields will be cleared.	
Remove PC	If you want to remove some PC from the "MAC Filtering Table", select the PC you want to remove in the table and then click "Delete Selected". If you want remove all PCs from the table, just click "Delete All" button. If you want to clear the selection and re-select again, just click "Reset".	

You can now configure other advance sections or start using the router (with the advance settings in place)

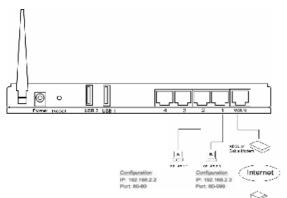
EDIMAX NETNORKING REOFLE TOGETHER		Quick Setup	tatus Info
• System • WAN	Access Control Add	PC fine service limitation of client PC, including IP addres	ss and service type.
 LAN Wireless QoS 	Client PC Description :		
• NAT	Client PC IP address :	·	
Firewall Access Control URL Blocking	Client PC Service : Service Name	Detail Description	Select
DoS DMZ	WWW E-mail Sending	HTTP, TCP Port 30, 3128, 8000, 8080, 8081 SMTP, TCP Port 25	
 Print Server NAS System 	News Forums	NNTP, TCP Port 119	ō
	E-mail Receiving Secure HTTP	POP3, TCP Port 110 HTTPS, TCP Port 443	
	File Transfer MSN Messenger	FTP, TCP Port 21 TCP Port 1863	
	Telnet Service AIM	TCP Port 23 AOL Instant Massenger, TCP Port 5190	
	NetMeeting DNS	H.323, TCP Port 389,522,1503,1720,1731 UDP Port 53	
	SNMP VPN-PPTP	UDP Port 161, 162 TCP Port 1723	0
	VPN-L2TP	UDP Port 1701 All TCP Port	
	TCP UDP	All UDP Part	
		User Define Service	
	Protocol : Both > Port Ranga : Add Reset		

Parameters	Description	
Client PC Description	The description for this client PC rule.	
Client PC IP Addresses	Enter the IP address range that you wish to apply this Access Control rule. This is the user's IP address (es) that you wish to setup an Access Control rule. Note: You need to give your LAN PC clients a fixed/static IP address for the Access Control rule to work properly.	
Client PC Service	You can block the clients from accessing some Internet services by checking the services you want to block.	
Protocol	This allows you to select UDP, TCP or both protocol types you want to block.	
Port Range	It can be assign up to five port ranges. The router will block clients from accessing Internet services that use these ports.	
Apply Changes	Click "Apply Changes" to save the setting.	
Reset	Click "Reset" to clear all fields.	

Click <**Apply Changes>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router (with the advance settings in place)

Example: Access Control

In the example below, LAN client A can only access websites that use Port 80. However, LAN client B is able to access websites and any other service that uses ports between 80 and 999.



2.7.2 URL Blocking

You can block access to some Web sites from particular PCs by entering a full URL address or just keyword of the Web site.

	Quick Setup	
 System WAN LAN Wireless QoS 	URL Blocking You can block access to certain Web sites from a particular PC by entering either a full URL address or just a keyword of the Web site. Enable URL Blocking URL Nayword URL	
• NAT	URL/Kayword Add Reset	
Firewall Access Control	Current URL Blocking Table	
URL Blocking DoS DMZ	NO. URL/Keyword Select	
Print Server	Dulate Selected Delete All Resat	
 NAS System 	Apply Cancel	

Parameters	Description	
Enable URL Blocking	Enable/disable URL Blocking	
Add URL Keyword	Fill in "URL/Keyword" and then click "Add". You can enter the full URL address or the keyword of the web site you want to block. If you find any typo before adding it and want to retype again, just click "Reset" and the field will be cleared.	
Remove URL Keyword	If you want to remove some URL keyword from the "Current URL Blocking Table", select the URL keyword you want to remove in the table and then click "Delete Selected". If yo want remove all URL keyword from the table, just click "Delete All" button. If you want to clear the selection and re-select again, just click "Reset".	

You can now configure other advance sections or start using the router (with the advance settings in place)

2.7.3 DoS (Denial of Service)

The Broadband router's firewall can block common hacker attacks, including Denial of Service, Ping of Death, Port Scan and Sync Flood. If Internet attacks occur the router can log the events.

	Quick Setup	neral Seup 🔲 tatus Info 🎧 stem Tools
• System • WAN • LAN	Denial of Service The Broadband router's firewall can block common hacker attacks, including DoS, Discard Ping from V(AN and Port Scan.	
 Wireless 	Denial of Service	HOME STATE
QoS	Ping of Death	
• NAT	Discard Ping From WAN	
@ Firewall	Port Scar	
Access Control	Sync Flood	
URL Blocking		Advanced Settings
DosS DMZ Print Server NAS System		Apply Cancel

Parameters	Description	
Ping of Death	Protections from Ping of Death attack	
Discard Ping From WAN	The router's WAN port will not respond to any Ping requests	
Port Scan	Protection the router from Port Scan.	
Sync Flood	Protection the router from Sync Flood attack.	

Click **<Apply>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router (with the advance settings in place)

2.7.4 DMZ

If you have a local client PC that cannot run an Internet application (e.g. Games) properly from behind the NAT firewall, then you can open the client up to unrestricted two-way Internet access by defining a DMZ Host. The DMZ function allows you to re-direct all packets going to your WAN port IP address to a particular IP address in your LAN. The difference between the virtual server and the DMZ function is that the virtual server re-directs a particular service/Internet application to a particular LAN client/server, whereas DMZ re-directs all packets (regardless of services) going to your WAN IP address to a particular LAN client/server.

Note: The priority of FTP/HTTP server in DMZ is higher than that in NAS.

	Quick Setup	eral Seup
 System WAN LAN Wireless 	DMZ(Dentilitarize If you have a local client PC that cannot run an inter the NAT firewal, then you can open the client up to by defining a Virtual DNZ Host.	et application properly from behind
QoS	Public IP address	Client PC IP address
NAT Firewall	Dynamic IP Session 1	
Access Control URL Blocking DoS DNZ	C Static P	Add Reset
Print Server NAS System	NO. Public IP address Delete Selected Delete All Reset	Client PC IP address Select
		Apply Gancel

Parameters	Description
Enable DMZ	Enable/disable DMZ Note : If there is a conflict between the Virtual Server and the DMZ setting, then Virtual Server function will have priority over the DMZ function.
Public IP Address	The IP address of the WAN port or any other Public IP addresses given to you by your ISP
Client PC IP Address	Input the IP address of a particular host in your LAN that will receive all the packets originally going to the WAN port/Public IP address above Note: You need to give your LAN PC clients a fixed/static IP address for DMZ to work properly.

2.8 Print Server

The router provides Print Server function that let you share a printer to all PCs in your Intranet. It supports LPD printing protocol. LPD printing protocol can be used in Windows, Linux and other OS that provide LPD printing.

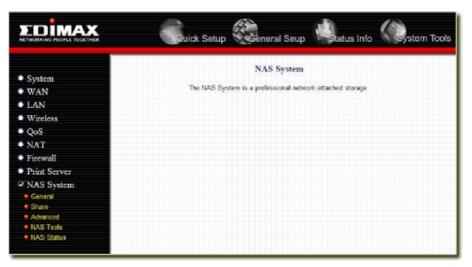
· Prostant	Print Se	rver	
 System WAN 	The print server provides LPR and IPP printing methods. You can enable/disable the print server function and change the print server name here. Please assign printer queue name for each printer connected to the USB port.		
LAN			
Wireless			
• QoS	Enable Print from Internet PrintServer Feature :	0.000	
NAT	IPP :	O Enable O Disable	
Firewall	LPR :	Enable Disable	
Print Server	PrinterServer Name :	Enable Disable	
NAS System	Port Name 1 :	Lot 1	
	Port Name 2 :	lipt2	

Parameters	Description	
Enable/Disable Print from	You can check on "Enable Print from	
Internet	Internet" to share printer on internet or check off this option to use printer on intranet.	
Print Server Feature	Enable/disable USB print server The print server function is default Disabled for better performance of NAS function.	
IPP	Enable to support the Internet Printing Protocols	
LPR	Enable to support the Local Printing Remote.	
Printer Server Name	It is the name of the printer name. It has to be assigned a name. The client utility uses this name to access the printer server.	
Port Name 1	It is the name of the printer port. Each printer port has to be assigned a name. The client utility uses this name to access the printer port.	
Port Name 2	It is the name of the printer port. Each printer port has to be assigned a name. The client utility uses this name to access the printer port. Click on one of the firewall selections and proceed to the manual's relevant sub-section	

Click **<Apply>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router (with the advance settings in place)

2.9 NAS System

The router provides NAS function which let you share a USB storage device to all PCs in your Intranet/Internet. It supports Samba, let you share files via Network Neighborhood. And also supports FTP server for your FTP clients to upload/download files from the server.



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Parameters	Description
General	General options allow you to setup the network neighborhood name and user accounts.
Share	Share options allow you to add/modify the folder/disks that you want to share.
Advanced	Advanced options allow you to set the default sharing options and the properties of FTP server.
NAS Tools	NAS tools allow you to manage the partitions of the USB storage device. You can add, remove, or format the partition of the USB storage device.
NAS Status	The NAS status shows the status of both USB ports. When you plug a USB storage device into the USB ports, it will show the status of the current valid disk and partition of this device.

Click on one of the NAS selections and proceed to the manual's relevant sub-section

Note: The maximum file size of a single file is less than 2GB when using a partition which owns FAT16/32 file system due to operating system limitation, whereas for a partition which owns EXT2/3 file system, the file size is up to 4GB.

2.9.1 General

General setting is used to set sharing information of samba and can be used to manager users' information, include add, edit and delete users' information.

		Quick Set	tup General Scup	Status Info
System	General			
WAN		a used to set sharing infor and delete users' informati	mation of samba and can be used to m	anager users' information,
LAN	include add, edit	and derete users miorinal		
Wireless	Samba :			
QoS	Name :	STORAGE	(Characters, Number and Underli	nr)
NAT	Workgroup	WORKGROUP	(Characters, Number, sapce and U	
Firewall	Description :	NAS SYSTEM	feminental connectivities and	and the second s
Print Server				
NAS System				
General	Account List	:		
Share	User Name		User Description	Select
Advanced	Add Edit	Delete Selected	Delete All Reset	
NAS Tools				
NAS System General Share	No. of Concession, Name of	:		Select

Parameters	Description	
Name	Set the host name that shows in network neighborhood.	
Workgroup	Set which network neighborhood group that you want to join.	
Description	A brief description for this NAS router. This will show at the detailed information of network neighborhood.	
Add Account	Click "Add" and fill the information of the Account Manager Add page to add a new user account.	
Edit Account	If you want to edit an account from the "Account List Table", select the account you want to edit in the table and then click "Edit".	
Remove Account	If you want to remove some accounts from the "Account List Table", select the accounts you want to remove in the table and then click "Delete Selected". If you want to remove all accounts from the table, just click "Delete All" button. If you want to clear the selection and re-select again, just click "Reset".	

You can now configure other advance sections or start using the router (with the advance settings in place)

	t Manager Add
User Name :	(Characters, Number and Underline)
User Description :	
User Password :	(Characters, Number and Underline)
Confirm Pessword	(Characters, Number and Underline)
	Reset Cancel
	rword are innered to use English Characters (uppercase and lowercase is nderline, 1-20 characters (include 1 and 20).
	User Password : Confirm Password : Save [ATTENTION: User Name and User Pass

Parameters	Description
User Name	Input the user name of this account.
User Description	The description for this user.
User Password	The password of this user.
Confirm Password	Re-type the password of this user.

Click **Save>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router (with the advance settings in place)

NOTE: The maximum user accounts allowed to add is 32.

2.9.2 Share

This page allowed you to add, edit, or delete the share item.

	Cource Setup
 System WAN LAN Wireless QoS NAT Firewall Print Server VAS System General Share Advanced NAS Tools NAS Status 	Share The page shows all the share status in the NAS. You can add .edit , and delete the share items. NAS Shared Path Share Name Path Comment User Read Write Samba FTP Select Add Edit Delete All Delete Selected Reset

Parameters	Description
Add Share Item	Click "Add" and fill the information of the Add/Edit Share page to add a new sharing item.
Edit Share Item	If you want to edit a share item from the "Share List Table", select the items you want to edit in the table and then click "Edit".
Remove Shared Item	If you want to remove some shared items from the "Share List Table", select the items you want to remove in the table and then click "Delete Selected". If you want to remove all items from the table, just click "Delete All" button. If you want to clear the selection and reselect, just click "Reset".

You can now configure other advance sections or start using the router (with the advance settings in place)

System	Add/Edit S	hare
• WAN	NTES partitions	only can be shared by setting default value to "Read Only" in NAS Advance web page.
• LAN		
 Wireless 	Share	(Characters, Number and Underline)
• QoS	Path	Open Share all USB Disks
• NAT		System Users Share Users
• Firewall		Add >>
 Print Server 	Users:	Add All >>
VAS System		<< Del
General		Cel All
Share Advanced	Authority.	Read Only Read & Write
Advanced NAS Tools	Comment:	
NAS Status	Shared to:	Samba EFTP

Add/Edit Share

Parameters	Description
Share	Input the share name.
Path	Click on "Open" to open the path selecting window to select the sharing folder. Or click share all USB disks to share whole disks.
Users	Select the user that can access this shared folder and press "Add" to add into list or press "Add All" to add all users into list. You also can select the users in "Share Users" and click on "Del" to remove from the list or press "Del All" to remove all users from list.
Authority	Select the access right of this sharing. You can select "Read Only" for read only sharing or select "Read & Write" to give users full access right.
Comment	Fill the share comments for this share item here.
Shared to	Selecting the share method that you want to use. You can share via FTP or share via neighborhood.

Click **<Save>** at the bottom of the screen to save the above configurations. You can now configure other advance sections or start using the router (with the advance settings in place)

NOTE: Each user can only have one FTP share; it's restricted to add two or more FTP shares to the same user.

NOTE: For a partition which owns NTFS file system, you can follow below procedures to share them.

- (i) Switch to "NAS System -> Advanced" page".
- (ii) Check on "Read Only" to give read authority on the NTFS partition and save it.

Open Dialog

When you click the "Open" button, you can see the following pop-up window that shows the USB storage devices. Please select the USB devices from left panel, the right bottom panel will show the directories in this USB storage device. Choose the folder you want to share, and click "Submit" to select this folder for sharing. You can also click "New Folder" to create a new share folder.

NOTE: Only the folders in USB storage devices will be shown as icons in Open Dialog due to the share function is restricted to folders, not files.



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2.9.3 Advanced

Advanced setting is used to set the properties of FTP server and the default share setting for new USB storage devices.

	Coulck Setup
• System • WAN • LAN	Advanced Advance setting is used to set FTP configure and the default setting of new USS disk. If you want to share NTFS partition in My Network Places, please set the default setting as "Read Dnly" and save it.
• Wireless	FTP Setting
• QoS	Max Users 10 (1-20)
• NAT	kdle Time : 5 (1-10)min
 Firewall 	Internet Accessable .
Print Server	Save Reset
 General Share Advanced NAS Toole NAS Status 	New USB Disk Default Setting C Read Write Warning: This will show all you data in your disk! Read Only Warning: This will show all you data in your disk! No Share Save Default

Parameters	Description
Max Users	Set the concurrent maximum user of the FTP server.
Idle Time	Set the idle time that when ftp clients inactive for this time, server will disconnect this client automatically.
Internet Accessible	Check on this option to share FTP server in internet or check off this option only to use FTP server in intranet.
Default Setting	Select the default sharing setting for newly plugged USB storage device. You can share it Read and Write, Read Only, or Don't share by default.

You can now configure other advance sections or start using the router (with the advance settings in place) NOTE: For a partition which owns NTFS file system, you can follow below procedures to share them.

(i) Switch to "NAS System -> share" page, and make sure that there is no share item in the USB device where NTFS partition is located.

(ii) Switch to "NAS System -> Advanced" page".

(iii) Check on "Read Only" to give read authority on the NTFS partition and save it.

2.9.4 NAS Tools

Some Tools for NAS disk management. There shows all the USB storage status whether it mounted or not. You can use these tools to add / edit / remove partitions or format partitions.

Note: USB1 port is dedicated for the USB storage disk used for the NAS router (usually the disk is brand new or no need to move to other PC environment), you can use the NAS tools to partition and format the USB storage disk. USB2 port is for USB flash disk or storage disk which you usually used to share data in other PC environment. If needed, you can partition and format it in your favorite PC environment.

EDIMAX			Quie	ck Setup	(in the second	meral Se	up	tatus Info	System	Tools
System WAN LAN Wireless QoS NAT Energy	it, please ch before you o remove som Note: The c	for NAS disk m leck whether ju lipen this web 1 le partitions wro urrent tools just	anagement. The st only you are in Then you can do ingly, or do som support USB1. If the partition si	using the ui, it. Otherwis ie other wron The format	and wheth e, you may g action. E pol cannot	er the USB ybe format the 3e careful!	device is plugg re partition in partition if the	ged and runnin your USB devi capacity is larg	g heathy ce wrongly, or	
 Firewall Print Server 			Start	End	File					
VAS System	Local	Size	Cylinder	Cylinder	System	2	iool	Select		
General	c	74.6G	1	9728	NTES	Format	FAT32 🛩			
Share	haa	7.8M	9729	9729	free	Format	FAT32	Add		
 Advanced IIAS Tools NAS Bratus 	Remove	Salect (Remove All	Raset						

			Quick Se	etup 💱	Ģèneral So	up Stat	us Info 🛛 🐨 System
• System	NAS Too						
WAN	you use it, p	lease check v	whether just only	you are usin	ig the ui, and w	hether the USB de	mounted or not. Before wice is plugged and
LAN	running heat	thy before you	open this web. I	Then you can tions wrongly	do it. Otherwis	e, you maybe for ther wrong action	nat the partition in your Be careful
Wireless	CICC UNITED	initiangy y, of the	inana asit in pana	asina anungij	r, or up adrive p	and g schuh	
QoS						sat the partition if t ich you want to for	he capacity is larger than
NAT	160GB, Bas	IDES, UNI SIZE	or the partition s	nould larger	DINITI SEMIDI, INT	ich you want to ioi	mat win PAL 44.
Firewall	USB1 :						
Print Server			Start	End	File	-	
NAS System	Lacal	Size	Cylinder	Cylinder	System	Tool	Select
General	Rennové		Remove All	Reset			
Share							
 Advanced NAS Tools 							
 NAS Status 							

Parameters	Description
Tool	You can format your USB disk by this tool. This NAS router supports FAT16, FAT32 and EXT2.
Add	By clicking this button, you can launch the Add Partition page for you to add a new partition on the USB disk.
Remove Partition	Select the partitions and click the "Remove Select" to remove partitions or click "Remove All" to remove all partitions.

You can now configure other advance sections or start using the router (with the advance settings in place)

NOTE: The partition size with FAT16 file system should be less than 2GB, and for FAT32 or EXT2 file system, the partition should be less than 160GB.

Auto Partition & Formatting

This function partitions and formats the USB storage disk in USB1 port according to the following rules.

- (i) It partitions an USB storage disk in 160GB a partition and formats to
- FAT32 file system.
- (ii) If the rest of partition size is under 160GB, then it will be partitioned as a partition.
- (iii) This function only effects on the USB storage disk in USB1 port.

		Guick Setup
System WAN LAN Wireless Ane		ort USB1. The format tool cannot format the partition if the capacity is larger than partition should larger than 321/48. which you want to format with FAT32.
 QoS NAT Firewall Print Server NAS System General Share Advanced NAS Tools NAS Status 	Size of the Space : New Partition Size : File System : Sava	MB 10240 MB FAT32 M Cancel

2.9.5 NAS Status

This Page shows the status of attached USB storage devices.

			Setup	I Seup	itus Info
 System WAN LAN 		urrent valid disk and	partition.		
 Wireless QoS NAT 	USB1 : UnPle Partition	Size	Used	Free	Status
Firewall Print Server NAS System	USB2 : UnPh Partition	ugSize	Used	Froa	Status
 General Share Advanced NAS Toola NAS Status 	Refresh				

Parameters	Description
Partition	The partition names of the USB storage device.
Size	Total available space of this partition.
Used	Total used space of this partition. Here shows the byte count and the percentage of the total space.
Free	This shows free space of the specified partition.
Status	The partition type of the partition. It can be FAT16, FAT32, NTFS and Linux.

You can now configure other advance sections or start using the router (with the advance settings in place)

Chapter 3

Status

The Status section allows you to monitor the current status of your router. You can use the Status page to monitor: the connection status of the Broadband router's WAN/LAN interfaces, the current firmware and hardware version numbers, any illegal attempts to access your network, and information on all DHCP client PCs currently connected to your network.

Status Internet Connection Device Status	Status and I You can use the Status page to monitor the c WANLAN interfaces, firmware and hardware access your network, and information on all D	onnection status for the Broadband router's; ersion numbers, any illegal attempts to
 System Log Security Log 	network.	
Active DHCP Client Statistics	Syst	
a coansinus	Model	Wireless Router
	Up time	Oday:1h:dm:44e
	Hardware Version	Rev A
The state state of the	Boot Code Version	1.0
Current Time 1/1/2000 1:04:40	Runtime Code Version	2.01

Parameters	Description
3.1 Status and Information	Shows the router's system information
3.2 Internet Connection	View the Broadband router's current Internet connection status and other related information
3.3 Device Status	View the Broadband router's current setting status
3.4 System Log	View the Broadband router's system log
3.5 Security Log	View any attempts that have been made to illegally gain access to your network.
3.6 Active DHCP Client	View your LAN client's information that is currently linked to the Broadband router's DHCP server
3.7 Statistics	Shows the statistics

Select one of the above five Status selections and proceed to the manual's relevant sub-section

3.1 Status and Information

The Status and Information section allows you to view the router's system information

Status Internet Connection Device Status System Log Security Log	Status and In You can use the Status page to monitor the co- WANLAN interfaces, firmware and hardware v access your network, and information on all DI network.	ennection status for the Broadband router's; ersion numbers, any illegal attempts to	
Active DHCP Client	System		
Statistics	Model	Wireless Router	
	Up time	Oday: 1h:4m:44s	
	Hardware Version	Rev. A	
	Boot Code Version	1.0	
Current Time 1/1/2000 1:04:40	Runtime Code Version	2.01	

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Parameters	Description
	You can see the router's system information such as the router's: LAN MAC Address, WAN MAC Address, Hardware version, Serial Number, Boot code Version, Runtime code Version

3.2 Internet Connection

View the Broadband router's current Internet connection status and other related information

	Quick Setup	General Seup	em Tools
& Status Internet Connection	Internet Connection View the current internet connection status and related information.		
Device Status System Log	Attain IP Protocol :	Dynamic IP disconnect	
 System Log Security Log 	IP address :		
Active DHCP Client	Subnot Maale :		
Statistics	Default Gateway :	0.0.0	
	MAC address :	00.5C.FC.62.15.64	
	Primary DNS :		
	Secondary DNS :		
Current Time 1.17/2000 1.09:59			

Parameters	Description
Internet Connection	This page displays whether the WAN port is connected to a Cable/DSL connection. It also displays the router's WAN port: WAN IP address, Subnet Mask, and ISP Gateway as well as the Primary DNS and Secondary DNS being used.

3.3 Device Status

View the Broadband router's current configuration settings. The Device Status displays the configuration settings you've configured in the Quick Setup Wizard/General Setup section.

	De	vice Status	
Status Internet Connection	View the current	setting status of this device.	
Device Status System Log	Wirele	ss Configuration	
Security Log	Mode	AP	
Active DHCP Client	Essid	default	
Statistics	Channel Number	11	
	Security	Disable	
	LAN Configuration		
	IP address	192.168.2.1	
Current Time	Subnet Mask	255 255 255 0	
1/1/2000 1:06:15	DHCP Server	Enable	
	MAC address	00:5c.fc.62.16.63	

Parameters	Description
	This page shows the Broadband router's current device settings. This page displays the Broadband router LAN port's current LAN IP Address and Subnet Mask. It also shows whether the DHCP Server function is enabled/disabled.

3.4 System Log View the operation log of the system.

	System Log
Status	
Internet Connection	View the system operation information. You can see the system start up time, connection process, etc. here.
Device Status	processetc. nere.
System Log	
Security Log	Jan 1 00:00:00 (none) syslog.info syslogd started: BusyBox v1.00-prez (200
Active DHCP Client	Jan 1 00:00:12 (none) user.info udhopd: udhop server (v0.9.9-pre) started
Statistics	Jan 1 00:00:14 (none) user.info udhopo: udhop olient (v0.9.9-pre) started
	Jan 1 00:00:17 (none) cron.notice crond[668]: "Torond 2.3.2 dillon, starte
	Jan 1 00:00:33 (none) user info udhopd: sending OFFER of 192.168.2.100
	Jan 1 00:00:35 (none) user.info udhopd: sending ACK to 192.168.2.100 Jan 1 00:00:35 (none) user.info udhopd: sending ACK to 192.168.2.100
	Jan 1 00:01:01 (none) gron.notice grond[668]: "HUSER root pid 730 cmd auto
The second s	Jan 1 00:01:01 (none) gron.ngtige grond[780]: "Ichdir failed: /root: No su W
Current Time	c
1/1/2000 1:06:31	
	Save Clear Refrech
	Save. Clear Herresh

Parameters	Description
System Log	This page shows the current system log of the Broadband router. It displays any event occurred after system start up. At the bottom of the page, the system log can be saved Save > to a local file for further processing or the system log can be cleared Clear > or it can be refreshed Refresh > to get the most updated situation. When the system is powered down, the system log will disappear if not saved to a local file.

3.5 Security Log

View any attempts that have been made to illegally gain access to your network.

	Quick Setup
Status Informet Connection Device Status System Log Security Log Actuae DHCP Cleant Statistics	Security Log New any attempts that have been made to llkgsäly gain access to your network. [2000-01-01 00:24:40]: start Dynamic TP [2000-01-01 00:24:40]: [SMTF]: connect to TimeServer 192.43.244.16 [2000-01-01 00:25:83]: [SMTF]: connect fall!! [2000-01-01 00:25:83]: [SMTF]: connect fall!! [2000-01-01 00:36:83]: [SMTF]: connect fall!! [2000-01-01 00:36:83]: [SMTF]: connect fall!! [2000-01-01 00:36:40]: [SMTF]: connect fall!!
Current Time 1:1/30801:06:59	Save Clear Ratech

Parameters	Description
Security Log	This page shows the current security log of the Broadband router. It displays any illegal attempts to access your network. At the bottom of the page, the security log can be saved Save > to a local file for further processing or the security log can be cleared Clear > or it can be refreshed Refresh > to get the most updated situation. When the system is powered down, the security log will disappear if not saved to a local file.

3.6 Active DHCP Client

View your LAN client's information that is currently linked to the Broadband router's DHCP server

		Setup	up 🔩 tatus Info 🕼 ystem Tool
Status Internet Connection Device Status	This table shows the assign leased client.	Active DHCP Client	d time expired for each CHCP
• System Log	IP address	MAC address	Time Expired(s)
Security Log Active DHCP Client	None		
Statistics		Refreah	
Current Time 1/1/2000 1:07:17			

Parameters	Description
Active DHCP Client	This page shows all DHCP clients (LAN PCs) currently connected to your network. The "Active DHCP Client Table" displays the IP address and the MAC address and Time Expired of each LAN Client. Use the Refresh button to get the most updated situation

3.7 Statistics

View the statistics of packets sent and received on WAN, LAN and Wireless LAN.

	Quick Set	up 🛞 eneral Seup 🕴	status Info
Status Internet Connection Device Status	Statistics This page shows the packet counters for transmission and reception regarding to networks.		
System Log		Sent Packets	51
Security Log Active DHCP Client	Wireless LAN	Received Packets	26948
Statistics	En	Sent Packets	5908
	Ethemet LAN	Received Packets	10306
	Filment MAN	Sent Packets	180
	Ethernet WAN	Received Packets	0
Current Time 1/1/2000 1:07:38		Refresh	

Parameters	Description
Statistics	Shows the counters of packets sent and received on WAN, LAN and Wireless LAN.

Chapter 4

Tool

This page includes the basic configuration tools, such as Configuration Tools (save or restore configuration settings), Firmware Upgrade (upgrade system firmware) and Reset.

	Quick Setup
Tools Configuration Tools France Upgrade Resol	Tools Setting The Tools Settings section includes the basic configuration tools, such as Save, Restore Configuration Settings, and Upgrade System Firmware.
Current Time 1/1/2010 1.97346	

Parameters	Description	
4.1 Configuration Tools	You can save the router's current configuration, restore the router's saved configuration files and restore the router's factory default settings	
4.2 Firmware Upgrade	This page allows you to upgrade the router's firmware	
4.3 Reset	You can reset the router's system should any problem exist	

Select one of the above three Tools Settings selection and proceed to the manual's relevant sub-section

4.1 Configuration Tools

The Configuration Tools screen allows you to save (**Backup**) the router's current configuration setting. Saving the configuration settings provides an added protection and convenience should problems occur with the router and you have to reset to factory default. When you save the configuration setting (Backup) you can re-load the saved configuration into the router through the **Restore** selection. If extreme problems occur you can use the **Restore to Factory Defaults** selection, this will set all configurations to its original default settings (e.g. when you first purchased the router).

	Quick Setu	p 🥵 Seneral Seup 🔍 tatus Info 🕼	ystem Tools
Tools Configuration Tools Firmnane Upgrade Resol	Configuration Tools Use the "Backup" tool to save the Broadband roder's current configurations to a file named "config bin". You can then use the "Restore" tool to restore the saved configuration to the Broadband router. Allematively, you can use the "Restore to Factory Debut" tool to face the Broadband router to perform System Reset and restore the original factory settings.		
	Backup Settings :	Save	
	Restore Settings :	(WR. Uplcad	
	Restore to Factory Default :	Reset	
Current Time L/22080 168 18			

Parameters	Description
Configuration Tools	Use the "Backup " tool to save the Broadband router current configuration to a file named "config.bin" on your PC. You can then use the "Restore " tool to restore the saved configuration to the Broadband router. Alternatively, you can use the "Restore to Factory Defaults " tool to force the Broadband router to perform a power reset and restore the original factory settings.

4.2 Firmware Upgrade

This page allows you to upgrade the router's firmware

	Quick Setup	
Tools Configuration Tools Finnare Upgrade Resot	Fireware Upgrade This tool allows you to upgrade the Broadband rooter's system firmware. Enter the path and name of the upgrade file and then click the APPLY button below. You will be prompted to confirm the upgrade. The system will automatically reboot the router after you finished the firmware upgrade process. If you don't complete the firmware upgrade process in the "next" step, you have to reboot the router.	
Current Time 1/1/2010 1483e	Mext	

Parameters	Description
Firmware Upgrade	If his tool allows you to upgrade the Broadband router's system firmware. To upgrade the firmware of your Broadband router, you need to download the firmware file to your local hard disk, and enter that file name and path in the appropriate field on this page. You can also use the Browse button to find the firmware file on your PC.

Once you've selected the new firmware file, click <**Apply>** at the bottom of the screen to start the upgrade process. (You may have to wait a few minutes for the upgrade to complete). Once the upgrade is complete you can start using the router.

Warning: When upgrading firmware, be sure not to cut down the power or restart your computer.

4.3 Reset

You can reset the router's system should any problem exist. The reset function essentially Re-boots your router's system



Parameters	Description	
Reset	In the event that the system stops responding correctly or in some way stops functioning, you can perform a reset. Your settings will not be changed . To perform the reset, click on the <apply> button. You will be asked to confirm your decision. The reset will be complete when the power light stops blinking. Once the reset process is complete you may start using the router again.</apply>	

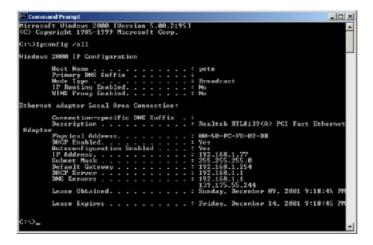
Appendix A

How to Manually find your PC's IP and MAC address

1) In Window's open the Command Prompt program



2) Type Ipconfig /all and <enter>



- Your PC's IP address is the one entitled IP address (192.168.1.77)
- The router's IP address is the one entitled Default Gateway (192.168.1.254)
- Your PC's MAC Address is the one entitled Physical Address (00-50-FC-FE-02-DB)

Glossary

Default Gateway (Router): Every non-router IP device needs to configure a default gateway's IP address. When the device sends out an IP packet, if the destination is not on the same network, the device has to send the packet to its default gateway, which will then send it out towards the destination.

DHCP: Dynamic Host Configuration Protocol. This protocol automatically gives every computer on your home network an IP address.

DNS Server IP Address: DNS stands for Domain Name System, which allows Internet servers to have a domain name (such as <u>www.Broadbandrouter.com</u>) and one or more IP addresses (such as 192.34.45.8). A DNS server keeps a database of Internet servers and their respective domain names and IP addresses, so that when a domain name is requested (as in typing "Broadbandrouter.com" into your Internet browser), the user is sent to the proper IP address. The DNS server IP address used by the computers on your home network is the location of the DNS server your ISP has assigned to you.

DSL Modem: DSL stands for Digital Subscriber Line. A DSL modem uses your existing phone lines to transmit data at high speeds.

Ethernet: A standard for computer networks. Ethernet networks are connected by special cables and hubs, and move data around at up to 10/100 million bits per second (Mbps).

Idle Timeout: Idle Timeout is designed so that after there is no traffic to the Internet for a pre-configured amount of time, the connection will automatically be disconnected.

IP Address and Network (Subnet) Mask: IP stands for Internet Protocol. An IP address consists of a series of four numbers separated by periods, which identifies a single, unique Internet computer host in an IP network. Example: 192.168.2.1. It consists of 2 portions: the IP network address, and the host identifier.

A network mask is also a 32-bit binary pattern, and consists of consecutive leading

1's followed by consecutive trailing 0's, such as

When both are represented side by side in their binary forms, all bits in the IP address that correspond to 1's in the network mask become part of the IP network address, and the remaining bits correspond to the host ID.

For example, if the IP address for a device is, in its binary form,

<u>11011001.10110000.1001</u>0000.00000111, and if its network mask is,

11111111.1111111.11110000.00000000

It means the device's network address is

11011001.10110000.10010000.00000000, and its host ID is,

ISP Gateway Address: (see ISP for definition). The ISP Gateway Address is an IP address for the Internet router located at the ISP's office.

ISP: Internet Service Provider. An ISP is a business that provides connectivity to the Internet for individuals and other businesses or organizations.

LAN: Local Area Network. A LAN is a group of computers and devices connected together in a relatively small area (such as a house or an office). Your home network is considered a LAN.

MAC Address: MAC stands for Media Access Control. A MAC address is the hardware address of a device connected to a network. The MAC address is a unique identifier for a device with an Ethernet interface. It is comprised of two parts: 3 bytes of data that corresponds to the Manufacturer ID (unique for each manufacturer), plus 3 bytes that are often used as the product's serial number.

NAT: Network Address Translation. This process allows all of the computers on your home network to use one IP address. Using the broadband router's NAT capability, you can access the Internet from any computer on your home network without having to purchase more IP addresses from your ISP.

Port: Network Clients (LAN PC) uses port numbers to distinguish one network application/protocol over another. Below is a list of common applications and protocol/port numbers:

Application	Protocol	Port Number
Telnet	ТСР	23
FTP	ТСР	21
SMTP	TCP	25
POP3	ТСР	110
H.323	TCP	1720
SNMP	UCP	161
SNMP Trap	UDP	162
HTTP	ТСР	80
PPTP	TCP	1723
PC Anywhere	ТСР	5631
PC Anywhere	UDP	5632

PPPoE: Point-to-Point Protocol over Ethernet. Point-to-Point Protocol is a secure data transmission method originally created for dial-up connections; PPPoE is for Ethernet connections. PPPoE relies on two widely accepted standards, Ethernet and the Point-to-Point Protocol. It is a communications protocol for transmitting information over Ethernet between different manufacturers

Protocol: A protocol is a set of rules for interaction agreed upon between multiple parties so that when they interface with each other based on such a protocol, the interpretation of their behavior is well defined and can be made objectively, without confusion or misunderstanding.

Router: A router is an intelligent network device that forwards packets between different networks based on network layer address information such as IP addresses.

Subnet Mask: A subnet mask, which may be a part of the TCP/IP information provided by your ISP, is a set of four numbers (e.g. 255.255.255.0) configured like an IP address. It is used to create IP address numbers used only within a particular network (as opposed to valid IP address numbers recognized by the Internet, which must be assigned by InterNIC).

TCP/IP, UDP: Transmission Control Protocol/Internet Protocol (TCP/IP) and Unreliable Datagram Protocol (UDP). TCP/IP is the standard protocol for data transmission over the Internet. Both TCP and UDP are transport layer protocol. TCP performs proper error detection and error recovery, and thus is reliable. UDP on the other hand is not reliable. They both run on top of the IP (Internet Protocol), a network layer protocol.

WAN: Wide Area Network. A network that connects computers located in geographically separate areas (e.g. different buildings, cities, countries). The Internet is a wide area network.

Web-based management Graphical User Interface (GUI): Many devices support a graphical user interface that is based on the web browser. This means the user can use the familiar Netscape or Microsoft Internet Explorer to Control/configure or monitor the device being managed.

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