

ZSR0104CP

Cable/DSL Broadband Router

With 4-Port Switch

USER MANUAL

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1. Introduction

This router is a Cable/DSL Broadband Router w/4-port switch. It provides you an easy and stable way to share your Cable/DSL high speed Internet connection. The built-in NAT technology can act as a firewall to protect your internal network against outside hackers. The 4-port Broadband Router is compatible with most popular operating systems, such as Windows, Linux, Macintosh, etc. However, this manual is designed to help users to connect their computers with the Internet under Windows systems. For other operating systems, please check the related materials before you use this Router.

The User Manual explains how to setup and use the router in details. It also provides some quick introductions to the related network technologies. Please read it carefully before connecting the Router to the Internet and always consult it first when you meet problems with the Router.

1.1 Features

- Complies with the IEEE802.3 and IEEE802.3u standards
- One 10M/100M auto-negotiation WAN port allows you to connect the Router with Cable/DSL modem or other Ethernet devices, such as router, switch, hub, etc
- Built-in 4-port 10/100Mbps auto-negotiation Fast Ethernet switch allows you to share the single Internet connection with up to 50 computers or network devices
- Supports different Internet connecting modes: PPPoE, DHCP Client and Static IP
- All ports support auto MDI/MDIX function which allows you to connect the devices with the Router by either parallel or cross-over Ethernet cables
- Supports UPnP, Windows XP can find the Router in the network automatically
- Built-in NAT (Network Address Transfer) technology acts as a firewall to protect internal sources against outside hackers
- Simple, intelligent, web-based management and configuration interface
- Supports Proxy DNS
- Supports DHCP server, all networked computers can retrieve TCP/IP settings automatically from the Router
- Supports virtual server which makes LAN services (such as FTP, WWW, TELNET, DNS, etc) to be accessible to the Internet users
- LED indicators for simple diagnostics and management

1.2 Package Contents

4-port Cable/DSL Broadband Router	1pc
User Manual	1pc
Power Adapter	1pc
RJ-45 Cable	1pc

 If any of the above items are missing, please contact your reseller.
 Please check the voltage of your power supply before using the power adapter. Different input voltage may damage the power adapter.

2. Appearance Illustration

2.1 Panel

2.1.1 Front Panel



Figure 2-1

2.1.2 Rear Panel



Figure 2-2

2.2 Illustration

Figure No.	Name on Router	Description	Remark
1/8	PWR	Power Status	
		Indicator	
		9V/0.5A	
		Power	
		Connector	
2	WAN	WAN Interface	
		Status	
		Indicator	
3	1x/2x/3x/4x	LAN Interface	
		Status	
		Indicators	

4	Reset	Reset default button	Refer to 11.1 Forget Password (Reset the Router without Login)
5	WAN	WAN Port	Connect to Cable/DSL modem or other Ethernet devices
6	1x/2x/3x/4x	LAN Ports	Connect to LAN computers and devices
7	STATUS	System Ready Indicator	

2.3 Illustration of router Indicators

Indicator	Off	Solid	Flash
PWR	Power source	Power source	N/A
	not	connected	
	connected		
LNK/ACT	Not	Connected	Data
	connected		transmitting

2.4 Working environment



Figure 2-3

As the above figure shows, Router could be connected with four LAN (local area network) computers directly. In addition, users can expand their network by connecting other Ethernet devices (such as Hub, Switch, etc) with the Router. In this way, users can connect as many as 50 computers with router.

This router supports three kinds of connection modes which allow the users to hook up with the Internet through either Cable modem or DSL modem.

3. Setup your computer

3.1 Connect the Router

Please follow the steps below to connect the modem and your computers with the Router:

- 1. Make sure that all network devices are powered off, including the Router, PCs, switches, cable or DSL modem, and peripherals.
- 2. Connect the modem with the WAN port of the Router by one CAT 5 Ethernet cable.
- Connect your computers with the LAN ports (1x/2x/3x/4x) of the Router by CAT 5 Ethernet cables. One computer connects to one port by one cable.
- 4. Power on the cable or DSL modem.
- 5. Plug in the power of the Router. The Power LED on the Router's front panel will light up as soon as the power adapter is connected properly.
- 6. Power on your PC(s).

Please refer to 4 APPEARANCE ILLUSTRATION for the port name and	
position.	

Please setup your computer according to the operating system in your computer. In this chapter, we only introduce how to setup your computer for Windows 98/Me, Windows 2000 and Windows XP. We recommend customers to setup their computers to obtain IP address automatically, which we will introduce in this chapter. However, for some advanced users, or the users who cannot get the IP address through the following configuration, please refer to 11.4 How to Setup Your Computer to Get IP Address Manually.

3.2 Windows 98/Me

Please follow the steps below to setup your computer:

- 1.Go to Start \rightarrow Settings \rightarrow Control Panel.
- 2.Find and double-click the Network icon. The Network dialog box appears.
- 3. Click the Configuration label and ensure that you have network card.
- 4.Select TCP/IP. If TCP/IP appears more than once, please select the item that has an arrow "→" pointing to the network card installed on your computer. DO NOT choose the instance of TCP/IP with the words "Dial Up Adapter" beside it.
- 5. Click Properties. The TCP/IP Properties dialog box appears.

- 6. Ensure the Obtain IP Address Automatically is checked.
- 7.From the WINS Configuration dialog box, Ensure that Disable WINS Resolution is checked.
- 8. From the Gateway dialog box, remove all entries from the Installed gateways by selecting them and clicking Remove.
- 9. From the DNS Configuration dialog box, remove all entries from the DNS Server Search Order box by selecting them and clicking Remove. Remove all entries from the Domain Suffix Search Order box by selecting them and clicking Remove. Click Disable DNS.
- 10. Click OK, back to Network Configuration dialog box.
- 11. Click OK, if prompted to restart, click YES.

3.3 Windows 2000

Please follow the steps below to setup your computer:

1. Go to Start \rightarrow Settings \rightarrow Control Panel



Figure 3-1

- 2. Double click the icon Network and Dial-up Connections
- 3. Highlight the icon Local Area Connection, right click your mouse, click Properties



Figure 3-2

4. Highlight Internet Protocol (TCP/IP), and then press Properties button

con Mieu conneccioni	2 Properties	?
General Sharing		
Connect using:		
Realtek RTL813	19(A) PCI Fast Etherne	t Adapter
,		Configure
Components checked a	are used by this conne	ection
File and Printer	Sharing for Microsoft ol (TCP/IP)	Networks
Install	Uninstall	Properties
Install	Uninstall	Properties
Instal Description Transmission Control wide area network p across diverse interc	Uninstall I Protocol/Internet Pro rotocol that provides o connected networks.	Properties tocol. The default communication
Install Description Transmission Control wide area network p across diverse interc	Uninstall Protocol/Internet Pro rotocol that provides of connected networks. ar when connected	Properties

Figure 3-3

 Choose Obtain an IP address automatically and Obtain DNS server address automatically, and then press OK to close the Internet Protocol (TCP/IP) Properties window

ou can get IP settings assigned is capability. Otherwise, you ne le appropriate IP settings.	automatically if your network supports ed to ask your network administrator for
Obtain an IP address auton	natically
C Use the following IP addres	s:
IP address:	
Subnet mask:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Default gateway:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Obtain DNS server address	automatically
C Use the following DNS serv	ver addresses:
Preferred DNS server:	V P C
Alternate DNS server:	+ +

Figure 3-4

6. Press OK to close the Local Area Connection Properties window



Figure 3-5

3.4 Windows XP

Please follow the steps below to setup your computer:

- 1. Go to Start \rightarrow Settings \rightarrow Control Panel
- 2. Click Network and Internet Connections



Figure 3-6

3. Click Network Connections



Figure 3-7

4. Highlight the icon Local Area Connection, right click your mouse, click Properties



Figure 3-8

5. Highlight Internet Protocol (TCP/IP), and then press Properties button

Local	Area Connect	ion Properties		
General	Authentication	Advanced		
Connec	t using:			
-	ntel(R) PR0/100	VM Network Conn	ection	
			Configure	
This co	nnection uses the	following items:		
	Client for Micros	oft Networks		
	File and Printer	Sharing for Microso	oft Networks	
	QoS Packet Sc	heduler		
	Internet Protoco	I(ICP/IP)		
	nstall	Uninstall	Propertie	\$
Desc	ription			
Tran wide acro	smission Control F area network pro ss diverse interco	Protocol/Internet P tocol that provides nnected networks.	otocol. The defau communication	R
Sho	w icon in notificat	ion area when con	nected	
			OK C	Inner

Figure 3-9

6. Choose Obtain an IP address automatically and Obtain DNS server address automatically, and then press OK to close the Internet Protocol (TCP/IP) Properties window

	Alternate Configurat	on	12 12					2
rou cai this cap the app	n get IP settings assig ability. Otherwise, you ropriate IP settings.	ned I nee	automatic ed to ask y	ally if y Jour ne	our ne twork	twork : admini	suppo strator	rts for
📀 Oł	otain an IP address a	itoma	atically					
O Us	e the following IP ad	fress	:					
IP ad	ldress:			- 13	- 51	- 22		
Subr	net mask:				50	18		
Defa	ult gateway:			- 10	- 85	12		
<u>ی</u> 0۱	otain DNS server add	ess	automatic	ally				
OU:	e the following DNS	serve	er address	es:				
Prefe	erred DNS server:			- 12	10	44		
Alten	nate DNS server:				-			
						Ad	vance	ed

Figure 3-10

7. Press OK to close the Local Area Connection Properties window

eneral	Authenticatio	n Advanced		
Connec	t using:			
-	ntel(R) PRO/10	00 VM Network	Connection	1
			1	Configure
This co	nnection uses	the following iter	ns:	coningure
	Class for Min	resoft Metworks		
	Eile and Print	er Sharing for M	crosoft Nel	worke
	QoS Packet	Scheduler	CIOSOR NO	(11)(1)(3)
2 8	Internet Proto	col (TCP/IP)		
	nstall	Uninstall		Properties
Desc	nstall	Uninstall		Properties
Desc Allov netw	nstall ription vs your comput ork.	Uninstall er to access res	ources on a	Properties a Microsoft
Desc Allow netw	nstall ription vs your comput ork. w icon in notific	Uninstall er to access res cation area when	ources on a	Properties a Microsoft
Desc Allov netw	nstall ription vs your comput ork. w icon in notific	Uninstall er to access res cation area when	ources on a	Properties Microsoft

Figure 3-11

3.5 Windows Vista / 7

Please follow the steps below to setup your computer:

1. Go to Start \rightarrow Settings \rightarrow Control Panel





2. Click Network and Internet \rightarrow Network and Sharing Center



Figure 3-13

3. Click Change adapter settings



Figure 3-14

4. Highlight the icon Local Area Connection, right click your mouse, click Properties



Figure 3-15

5. Highlight Internet Protocol Version 4 (TCP/IPv4), and then press Properties button

-	
Lonn	ect using:
2	Realtek RTL8168B/8111B Family PCI-E Gigabit Ethemet
	Configure
This (connection uses the following items:
~	🖳 Client for Microsoft Networks
~	QoS Packet Scheduler
~	File and Printer Sharing for Microsoft Networks
-	Internet Protocol Version 6 (TCP/IPv6)
	Internet Protocol Version 6 (TCP/IPv6) Internet Protocol Version 4 (TCP/IPv4)
> >	Internet Protocol Version 6 (TCP/IPv6) Internet Protocol Version 4 (TCP/IPv4) Link-Layer Topology Discovery Mapper I/O Driver
> > > >	Internet Protocol Version 6 (TCP/IPv6) Internet Protocol Version 4 (TCP/IPv4) Link-Layer Topology Discovery Mapper I/O Driver Link-Layer Topology Discovery Responder
> > > >	Internet Protocol Version 6 (TCP/IPv6) Internet Protocol Version 4 (TCP/IPv4) Link-Layer Topology Discovery Mapper I/O Driver Link-Layer Topology Discovery Responder
>>>	Internet Protocol Version 6 (TCP/IPv6) Internet Protocol Version 4 (TCP/IPv4) Link-Layer Topology Discovery Mapper I/O Driver Link-Layer Topology Discovery Responder Install Uninstall Properties
	Internet Protocol Version 6 (TCP/IPv6) Internet Protocol Version 4 (TCP/IPv4) Link-Layer Topology Discovery Mapper I/O Driver Link-Layer Topology Discovery Responder Install Install Install Install Internet
	Internet Protocol Version 6 (TCP/IPv6) Internet Protocol Version 4 (TCP/IPv4) Link-Layer Topology Discovery Mapper I/O Driver Link-Layer Topology Discovery Responder Install Install Properties cription assmission Control Protocol/Internet Protocol. The default
	Internet Protocol Version 6 (TCP/IPv6) Internet Protocol Version 4 (TCP/IPv4) Link-Layer Topology Discovery Mapper I/O Driver Link-Layer Topology Discovery Responder Install Uninstall Properties rcription ansmission Control Protocol/Internet Protocol. The default le area network protocol that provides communication ross diverse interconnected networks.

Figure 3-16

6. Choose Obtain an IP address automatically and Obtain DNS server address automatically, and then press OK to close the Internet Protocol Version 4 (TCP/IPv4) Properties window

eneral	Alternate Configuration	n				
You car this cap for the	n get IP settings assigne bability. Otherwise, you appropriate IP settings	ed automatic need to ask	ally if your r	your n networ	etwork k admin	supports iistrator
0	btain an IP address aut	omatically				
	e the following IP addr	ess:				
<u>I</u> P ad	ddress:					
Subr	net mask:			(a.)		
<u>D</u> efa	ult gateway:				÷4	
() O	tain DNS server addre	ss automatic	ally			
O Us	se the following DNS ser	rver address	es:			
Prefe	erred DNS server:					
<u>A</u> lter	nate DNS server:					
V	alidate settings upon ex	xit			Adv	anced

Figure 3-17

7. Back to Local Area Connection Properties window, highlight Internet Protocol Version 6 (TCP/IPv6), and then press Properties button

•	Realtek RTL8168B/8111B Family PCI-E Gigabit Ethemet
This	<u>Configure</u>
\mathbf{X}	QoS Packet Scheduler File and Printer Sharing for Microsoft Networks Internet Protocol Version 6 (TCP/IPv6) Internet Protocol Version 4 (TCP/IPv4) Link-Layer Topology Discovery Mapper I/O Driver Link-Layer Topology Discovery Responder
	Install Uninstall Properties
De: TC tha	scription P/IP version 6. The latest version of the internet protocol at provides communication across diverse interconnected

Figure 3-18

8. Choose Obtain an IPv6 address automatically and Obtain DNS server address automatically, and then press OK to close the Internet Protocol Version 6 (TCP/IPv6) Properties window

General		
You can get IPv6 settings assigne Otherwise, you need to ask your	ed automatically if your netw network administrator for th	ork supports this capability. e appropriate IPv6 settings.
Obtain an IPv6 address auto	omatically	
OUse the following IPv6 addre	ess:	
IPv6 address:		
Subnet prefix length:		
Default gateway:		
Obtain DNS server address	automatically	
OUSE the following DNS serve	er addresses:	
Preferred DNS server:		
<u>A</u> lternate DNS server:		
Validate settings upon exit		Ad <u>v</u> anced

Figure 3-19

4. Configuring the Router

Before you configure this device, note that when the Broadband Router is configured through an Ethernet connection, make sure the host PC must be set on the IP subnetwork that can be accessed by the Broadband Router. For example, when the default network address of the Broadband Router Ethernet interface is 192.168.10.x, then the host PC should be set at 192.168.10.xxx (where xxx is a number between 2 and 254), and the default subnet mask is 255.255.255.0.

- 1. Open an Internet Explorer (or other web browser), type "192.168.10.1" in the address bar, and then press "Enter".
- 2. Input "admin" for the User Name, and "admin" for the Password, and then press OK.



Figure 4-1

By default the user name is "admin" and the password is "admin". For security reasons it is recommended that you change the password as soon as possible (In Login ID & Password Setup).

This router provides web browser management mode. Login the Router, The HOME page screen below will appear. The Home Page is divided into eight sections, Status WAN Setup, LAN Setup, Routing, NAT, Fire Wall, DDNS and MISC.

The left hand side is Function Menu. Users can click the item, corresponding information will be shown at the right hand side. When encountering difficulties in configuring, please click "Help" on the current page.

		Broadba	Broadband Switcl and Switch Router Br	h Router oadband Switci
_	ZSR 0104CP	Status St	atistics	Wizard Save Help
- Г	Status	WAN Status		
	WAN Setup	Connection Type	PPPot	E
	LAN Setun	Physical Address	08-10-17-47-0B-FB	Extended menu
	CHIL OCMP	WAN IP Address	0.0.0.0	
	Routing	Subnet Mask	0.0.0.0	
	NAT	Default Gateway	0.0.0.0	
	Fire Wall	Primary DNS IP	202.98.96.68	
	DDNS	Secondary DNS IP	61.139.2.69	
	MISC	This	page will be refreshed per 5 seconds	Connect
		LAN Status		
_ L		Physical Address	08-10-17-47-0B-FA	
		LAN IP Address	192.168.10.1	
		Subnet Mask	255.255.255.0	
_	24 C	DHCP Server	ON	
Fur	iction menu	SYSTEM INFO		
		Edition Info	IGD-M2H-V2.30BC-U8EN-OEM, 2005.05.24.17:0	3

Figure 4-2

4.1 Status

When finish configuring the WAN/LAN Setup, the Status screen will list up the connection status for the Broadband Routers' WAN/LAN interfaces, firmware version numbers.

	Broadba	Broadband Switc Ind Switch Router Bi	h Router oadband Swite
ZSR 0104CP	Status	atistics	Wizard Save Help
Status	WAN Status		
WAN Setup	Connection Type	DHCP	
L ON Sotup	Physical Address	08-10-17-47-0B-FB	
LAN Setup	WAN IP Address	0.0.0.0	
Routing	Subnet Mask	0.0.0.0	
NAT	Default Gateway	0.0.0.0	
Fire Wall	Primary DNS IP	0.0.0.0	
DDNS	Secondary DNS IP	0.0.0.0	
MISC	This	page will be refreshed per 5 seconds	Connect
	LAN Status		
	Physical Address	08-10-17-47-0B-FA	
	LAN IP Address	192.168.10.1	
	Subnet Mask	255.255.255.0	
	DHCP Server	ON	
	SYSTEM INFO		
	Edition Info	IGD-M2H-V2.30BC-U8EN-OEM, 2005.05.24.17:0	3

Figure 4-3

4.1.1 Statistics

View the statistics of packets sent and received on WAN interface.

System	Run Time	0 days 1 hou	urs 33 minutes	28 seconds			
		Т	ransmit Accum	ulation Statist	ic	Rate	(KB/s)
Туре	Current NAT	Received Packets	Received Bytes (K)	Sent Packets	Sent Bytes (K)	Upload	Download
TCP	125	31532	28217	23879	6869	19	12
UDP	8	1337	255	1394	602	0	0
ICMP	0	17	0	17	0	0	0
OTHER	0	0	0	0	0	0	0
TOTAL	133	32886	28472	25290	7471	19	12
TOTAL	133	32886	28472 	25290 fresh	7471	19	12

Figure 4-4

• **Refresh.** Update data monitor table to display newest data.

4.2 WAN Setup

Users can setup the Internet connection mode for their local area network on this page. Router provides four types of connection modes: Dynamic IP (obtain an IP automatically), PPPoE, Static IP and PPTP. These types are listed in the screen for the Internet Connection Type setting of the WAN Setup section. Users can choose the corresponding connection mode according to their situation. The default setting for Router is Dynamic IP.

Dynamic IP User (Cable I	Modem)
C PPPoE User (ADSL)	
C Static IP User	
С рртр	
HCP Client Setup	
HCP Client Setup	
HCP Client Setup	08-10-17-47-0B-FA If checked, the Mac address of PC will b
HCP Client Setup	08-10-17-47-0B-FA If checked, the Mac address of PC will b updated
HCP Client Setup Physical Address Clone	08-10-17-47-0B-FA If checked, the Mac address of PC will b updated 1496
HCP Client Setup Physical Address Clone MTU Primary DNS	08-10-17-47-0B-FA If checked, the Mac address of PC will b updated 1496

Figure 4-5

When finished making your changes on this screen, click the Save button to save these changes.

4.2.1 For Dynamic IP Setting

- Select "Dynamic IP User" button.
- You can check the "Physical Address Clone" checkbox to copy the MAC Address of your PC to be the MAC address of this device.
- The MTU feature specifies the largest packet size permitted for network transmission. Enter the value desired, for most Router users, it is recommended to use1496. By default, MTU is set at1496.
- Primary DNS and Secondary DNS, DNS (Domain Name System) Server IP must be filled up when the ISP Provider provide these information to you, if the ISP Provider provides Dynamic IP Address, then you can skip on these dialog box.
- Click "Apply" button then finish of setting.

DHCP Client Setup	
Physical Address Clone	08-10-17-47-0B-FA If checked, the Mac address of PC will be updated
MTU	1496
Primary DNS	
Secondary DNS	
	Apply

Figure 4-6

Some ISPs may require you to register the MAC address of your card/adapter .So It is recommended that the PC registered with the ISP is used to setup the MAC Address Clone.

When finished making your changes on this screen, click the Save button to save these changes.

4.2.2 For PPPoE Setting

- Select "PPPoE User (ADSL)" button.
- PPPoE Account and PPPoE Password, Enter the User Name and Password provided by your ISP.
- You can check the "Physical Address Clone" checkbox button to copy the MAC Address of your PC to be the MAC address of this device.
- The MTU feature specifies the largest packet size permitted for network transmission. Enter the value desired, for most DSL users, it is recommended to use1492. By default, MTU is set at 1492.
- Primary DNS and Secondary DNS, DNS (Domain Name System) Server IP must be filled up when the ISP Provider provide these information to you, if the ISP Provider provides Dynamic IP Address, then you can skip on these dialog box.

- Auto disconnect when idle. You can configure the Router to cut your connection with your ISP after a specified period of time (Max Idle Time). If you have been disconnected due to inactivity, Connect to Internet manually, It enables the Router to automatically re-establish your connection as soon as you attempt to access the Internet again. If you wish to activate Connect on Demand, click the "Connect" button. If you want your Internet connection to remain on at all times, You can check the Connect to Internet automatically checkbox. The default setting for Router is Connect to Internet automatically.
- Click "Apply" button then finish of setting.

PPPoe Setup	
PPPoE Account	abcd1234
PPPoE Password	•••••
🗖 Physical Address Clone	08-10-17-47-0B-FA
MTU	1492
Primary DNS	1.1.1.1
Secondary DNS	
 Connect to Internet au Auto disconnect when Connect to Internet ma 	tomatically (Default) idle, time out After minutes, if no found the access request then auto-break off!
	Apply

Figure 4-7

When finished making your changes on this screen, click the Save button to save these changes.

4.2.3 For Static IP Setting

- Input the IP Address sub mask ,Primary DNS , Secondary DNS and Gateway provided by your ISP.
- You can check the "Physical Address Clone" checkbox button to copy the MAC Address of your PC to be the MAC address of this device.
- The MTU feature specifies the largest packet size permitted for network transmission. Enter the value desired, for most Router users, it is recommended to use1496. By default, MTU is set at 1496 Primary DNS and Secondary DNS, If your ISP provided at least one DNS Server IP Address, type that IP Address in the Primary DNS address fields. You can type up to another DNS Server IP Addresses. The Router will utilize these for quicker access to functioning DNS Servers.
- Click "Apply" button then finish of setting.

WAN IP Address	10.0.1.2	
Subnet Mask	255.255.255.0	
Default Gateway	10.0.1.1	
Primary DNS	10.0.0.1	
Secondary DNS	10.0.2.1	
Physical Address Clone	08-10-17-47-0B-FA updated	If checked, the Mac address of PC will be
MTU	1496	

Figure 4-8

When finished making your changes on this screen, click the Save button to save these changes.

4.2.4 For PPTP Setting

- User Name and Password. Enter the User Name and Password provided by your ISP.
- Server IP Address, IP address of The PPTP Server IP.
- DHCP, Obtain an IP address automatically, The ISP requires you to obtain an IP address by DHCP before connecting 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).
- Default Gateway, Enter the IP address of the ISP Gateway
- Primary DNS and Secondary DNS, If your ISP provided at least one DNS Server IP Address, type that IP Address in the Primary DNS address fields. You can type up to another DNS Server IP Addresses. The Router will utilize these for quicker access to functioning DNS Servers.

User Name	adcd123
Password	
Server IP Address	X.X.X.X
hose one WAN connection typ	e DHCP or Static IP
C DHCP	
C Static IP	
WAN IP Address	10.0.1.2
Subnet Mask	255.255.255.0
Gateway	10.0.1.1
Primary DNS	10.0.0.1
Secondary DNS	10.0.2.1
🗖 Physical Address Clone	08-10-17-47-0B-FA
MTU	1496
 Connect to Internet auto Connect to Internet on o minutes Connect to Internet mail 	ormatically (Default) demand, Auto break-off when idle.Maximum Idle Time;

Figure 4-9

When finished making your changes on this screen, click the Save button to save these changes.

4.3 LAN Setup

The LAN Setup 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.

System IP Ad	dress 192.	168.10.1		
Subnet Mask	255.	255.255.0		
DHCP Se	erver on			
DHCP IP Poo	I 192.	168.10.2	- 192.168.10.101	
			Apply	
DHCP IP Add	Iress Reserving			
DHCP IP Add	p ress			
DHCP IP Add	p ress			
DHCP IP Add Auto Setu Physical Add IP Address	p ress Ceserving		Add	
Physical Address	Iress Reserving p ress IP Address		Add Physical Address	Delete

Figure 4-10

- **System IP address.** This is the router's LAN port IP address (Your LAN clients default gateway IP address).
- **IP Subnet Mask** Specify a Subnet Mask for your LAN segment.
- **DHCP Server on** 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.
- **DHCP IP Pool** You can select a particular IP address range for your DHCP server to issue IP addresses to your LAN Clients.

By default the IP range is from: Start IP 192.168.10.2 to End IP 192.168.10.101. 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.

- **DHCP IP Address Reserving** Reserve some IPs to specific computer. You need to enter the MAC address of the network card installed in computer to assign a particular IP to it. Enter the relative values and then click ADD. Also you can check the "Auto Setup" checkbox button to assign a particular IP to your computer.
- **Current Address Reserving Table:** This display shows the valid reserving IPs in Broadband Router. User can view the information about current address reserving.

Fill in the all of the setting to be added and then click "Add". Then this Special Application setting will be added into the "Current Address Reserving Table" below.

If you want to remove some Special Application settings from the "Current Address Reserving Table", select the Special Application settings you want to remove in the table and then click "Delete ".

When finished making your changes on this screen, click the Save button to save these changes.

4.4 Routing

If the Router is connected to more than one network, it may be necessary to set up a static route between them. A static route is a pre-determined pathway that network information must travel to reach a specific host or network.

Routing Table Management						
Туре	ype Target		Target Mask			
NET	VET 🔽					
	Add					
ID	Туре	Target	Mask	Gateway	Delete	
1	NET	172.16.2.0	255.255.255.0	192.168.10.18	Delete	

Figure 4-11

- **Type / Target / Mask / Gateway:** Fill in these fields required by this Static Routing function.
- Add: Click this button to add a new static routing. When you click this button, the next figure appears.
- **Current Routing Table:** This display shows the valid routing paths in Broadband Router. User can view the information about current routing paths

Fill in the all of the setting to be added and then click "Add". Then this Special Application setting will be added into the "Current Routing Table" below.

If you want to remove some Special Application settings from the "Current Routing Table ", select the Special Application settings you want to remove in the table and then click "Delete ".

When finished making your changes on this screen, click the Save button to save these changes.

4.5 NAT

Network Address Translation (NAT) allows multiple users at your local site to access the Internet through a single Public IP Address. 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.

When finished making your changes on this screen, click the Save button to save these changes.

4.5.1 DMZ Host Setup

The DMZ screen allows one local user to be exposed to the Internet for use of a special-purpose service such as Internet gaming and videoconferencing. DMZ hosting forwards all the ports for one PC at the same time.

DMZ Host Setup		
🗹 DMZ	192.168.10.9	Apply

Figure 4-12

Check DMZ and enter the host IP and then press "Apply" button to setup DMZ host.

When finished making your changes on this screen, click the Save button to save these changes.

4.5.2 FTP Private Port

FTP private port enables user to setup FTP server which is not using the standard port 21.

FTP Private Port		
Port Number	1025	Apply

Figure 4-13

Check port number and enter the number and then press the "Apply" button to setup Private FTP port.

When finished making your changes on this screen, click the Save button to save these changes.

4.5.3 Virtual Server Setup

User can specify some services to be visible from outside users. The router can detect incoming service request and forward it to the specific local computer to handle it. For example, user can assign a PC in LAN acting as WEB server inside and expose it to the outside network. Outside user can browse inside web server directly while it is protected by NAT.

/irtual	Server Setup		~				
Rule N	ame						
Internal Server IP Address			I Server IP Address				
Protocol			TCP				
External Port							
Interna	Internal Port						
			Add				
ID	Rule Name	Internal IP	Protocol	External Port	Internal Port	Delete	
1	FTP	192.168.10.10	TCP	21	21	Delete	
2	2 HTTP 192.168.10.2			80	80	Delete	



- **Rule Name:** The description of this setting.
- **Internal Server IP Address:** This is the LAN client/host IP address that the Public Port number packet will be sent to.
- **Protocol:** Select the protocol type (TCP, UDP, FTP, HTTP).
- **External 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).
- **Internet 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. Click "Add" button after enter the all fields to add the rule.
- **Current Virtual Server Table:** This display shows the valid virtual Servers in Broadband Router. User can view the information about Virtual Server's Table.

Fill in the "Rule Name", "Internet Server IP Address", "Protocol ", "External Port", and "Internet Port" of the setting to be added and then click "Add". Then this Special Application setting will be added into the "Current Virtual Server Table" below.

If you want to remove some Special Application settings from the "Current Virtual Server Table", select the Special Application settings you want to remove in the table and then click "Delete ".

When finished making your changes on this screen, click the Save button to save these changes.

4.5.4 Port Triggering

The Port Triggering screen allows the Router to watch outgoing data for specific port numbers. The IP address of the computer that sends the matching data is remembered by the Router, so that when the requested data returns through the Router, the data is pulled back to the proper computer by way of IP address and port mapping rules.

Predefi	ned Trigger Rules	Select one	Select one of the predefined rules 💌				
Rule N	ame						
Trigger	Protocol	TCP -	TCP				
Trigger	Port	-					
Forwar	d Protocol	TCP -	TCP -				
Forward Port		-					
		A	dd				
ID	Rule Name	Trigger Condition	Forward Condition	Delete			
1	GuruGuru	tcp:31200	tcp:9292	Delete			

Figure 4-15

- **Predefined Trigger Rules:** You can select one of the predefined rules.
- **Rule Name:** Enter any name you want to use for the Application Name.
- Trigger Protocol: Select whether the outbound port protocol is "TCP", "UDP"
- **Trigger Port:** This is the out going (Outbound) range of port numbers for this particular application.

Individual port numbers are separated by a comma (e.g. 47824, 5776, 6581 etc.). To input a port range use a "dash" to separate the two port number range (e.g. 3300-3800)

• **Forward Protocol:** Enter the In-coming (Inbound) port or port range for this type of application (e.g. 2300-2400, 47624).

Individual port numbers are separated by a comma (e.g. 47824, 5776, 6581 etc.).

- Forward Port: Select the Inbound port protocol type: "TCP", "UDP".
- **Current Trigger-Port Table:** This display shows the valid Trigger Rules in Broadband Router. User can view the information about Virtual Server's Table.

Fill in the "Rule Name", "Trigger Protocol", "Trigger Port", "Forward Protocol", and "Forward Port" 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 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 ".

When finished making your changes on this screen, click the Save button to save these changes.

4.6 Fire Wall

The Broadband Router provides extensive firewall protection by restricting connection parameters to limit the risk of hacker attack, and defending against a wide array of common hacker attacks. The Broadband Router provides packet filtering rules by restricting service ports, IP address or MAC address.

When finished making your changes on this screen, click the Save button to save these changes.

4.6.1 MAC Filtering Configuration

You can block certain client PCs accessing the Internet based on MAC addresses.

MAC Filtering	Configuration					
Status	The current status is enabled Stop					
If checked, the undefined item in MAC Address list is allowed to access Internet;Unchecked means reverse Apply						
MAC Address		Permit 💌	Add			
ID	MAC Address	Rule	Delete			
1	08-10-17-47-0B-FA	Permit	Delete			

Figure 4-16

- **Status.** You can choose to turn on or turn off the Mac filtering configuration by click start/stop button.
- If checked, the undefined item in MAC Address list is allowed to access Internet; Unchecked means reverse, Click "Apply" to save the setting.
- **MAC Address.** Enter the toggled physical address that to be allowed or forbidden to access the Internet by select "permit" or "deny" in the drop-down menu. Then click "add" button to finish the setting.

Enter the 12-digit MAC address in this format, XX-XX-XX-XX-XX, with the hyphens.

• **Current MAC filtering Table:** This display shows the valid MAC filtering rules in Broadband Router. User can view the information about MAC filtering Table.

If you want to remove some Special Application settings from the "Current MAC filtering Table", select the Special Application settings you want to remove in the table and then click "Delete ".

When finished making your changes on this screen, click the Save button to save these changes.

4.6.2 Connection Filtering Configuration

To control a certain client PCs accessing the Internet based on time. You can filter Internet access for local clients based on IP addresses, application types, (i.e., HTTP port), and time of day. For example, this screen shows that clients in the address range 192.168.10.20-50 are permanently restricted from using FTP (Port 21), while clients in the address range 192.168.10.60-70 are blocked from browsing the Internet (port 80) from Monday to Friday and from 0:00 AM to 11:00 PM.

Connection Filtering Configuration									
Status		The current status is enabled Stop							Stop
✓ If checked, the undefined item in IP Address list is allowed to access Internet, Unchecked means reverse						Apply			
Rule Name									
Source IP Addre	ess				-				
Protocol		ALL 💌							
Destination Por	t		-						
status		Permit 💌							
Days To Block		Everyda	ay		Bun 🗖 Mor	Tue l	🗆 Wed 🗖 Tr	nu 🗖 Fr	i 🗖 Sat
Times To Block		🔲 All Day		00:0	00: 🔽 - 🛛 00: 1	DO 💌			
					Add				
Rule Name	8	Source IP	Proto	col	Dest Port	Days	Times	Rule	Delete
FTP	192 193	2.168.10.20- 2.168.10.50	тсғ	Ρ	21	Everyday	All Day	Deny	Delete
WEB	192 193	2.168.10.60- 2.168.10.70	тсғ	P	80	Mon Tue Wed Thu Sun	0:1-11:0	Deny	Delete

Figure 4-17

- **Status.** You can choose to turn on or turn off the Connection Filtering Configuration by click start/stop button.
- If checked, the undefined item in IP Address list is allowed to access Internet; Unchecked means reverse.
- **Rule Name:** Enter any name you want to use for the Application Name.
- **Source IP address:** Enter the IP address that you wish to apply this Access Control rule.
- **Protocol.** Select the protocol type (TCP, UDP, FTP, HTTP).
- **Destination Port.** You can assign up to a port number or a port range. The router will block clients from accessing Internet services that use these ports.
- Days To Block, Chose days to block
- **Times To Block,** Chose time to block.
- **Current Access Control Table:** This display shows the valid Current Access Control rules in Broadband Router. User can view the information about Current Access Control Table.

Fill in the all 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 want to remove some Special Application settings from the "Current Access Control Table", select the Special Application settings you want to remove in the table and then click "Delete ".

When finished making your changes on this screen, click the Save button to save these changes.

4.6.3 URL Filtering Configuration

You can enter keywords specific to the site in these fields. The Router will block access to sites that use those keywords.

NOTE:

You can use wildcards (*and?); "*" is the multi-letters; "?" is a letter; For example:*.*sex*.* express that all URL with "sex" will be blocked!

URL Filtering (Configuration	
Note: You can u that all URL with	se wildcards(* and ?),"*"is the multi-letters;"?" is a let "sex" will be blocked!	ter;For example:*.*sex*.* express
Input Filtering K	eyword	Add
ID	Filtering Keyword	Delete
1	*.*SeX*.*	Delete

Figure 4-18

Fill in the all of the setting to be added and then click "Add". Then this Special Application setting will be added into the "Current URL Filtering Table" below.

If you want to remove some Special Application settings from the "Current URL Filtering Table", select the Special Application settings you want to remove in the table and then click "Delete ".

When finished making your changes on this screen, click the Save button to save these changes.

4.7 DDNS Setup

The Router offers a Dynamic Domain Name System (DDNS) feature. DDNS allows you to map the static domain name to a dynamic IP address. It is useful when you are hosting your own website, FTP server, or other server behind the Router. You must get an account, password and your static domain name from the DDNS service providers.

(riee)
 Start Stop
close!

Figure 4-19

- **DynDNS Operation.** Before you can use this feature, you need to sign up for DDNS service the DDNS service currently incorporated,DynDNS.org. If you do not want to use this feature, keep the default setting Stop.
- **User ID.** Enter the User Name of the account you set up with DynDNS.org.
- **Password.** Enter the Password of the account you set up with DynDNS.org.
- **Host Name.** Enter the Host Name of the account you set up with DynDNS.org.
- **Information.** The status of the DDNS service connection is displayed here.

Click "Apply" button to finish the setting, and click "Refresh" button to display newest status.

When finished making your changes on this screen, click the Save button to save these changes.

4.8 MISC Configuration

4.8.1 Login ID & Password Setup

In factory setting, the default password is admin, and that for user is also password. You can change the default password to ensure that someone cannot adjust your settings without your permission. Every time you change your password, please record the password and keep it at a safe place.

Login ID & Password Setup					
Login name is "admin"					
New Password	••••	Apply			
Confirm New Password	••••				



- **New Password.** Enter your new password.
- **Confirmed New Password** Enter your new password again for verification purposes.



If you forget your password, you'll have to reset the router to the factory default (Password is "admin") with the reset button (see router's front panel).

Click "Apply" button to finish the setting

When finished making your changes on this screen, click the Save button to save these changes.

4.8.2 Remote Management

This feature allows you to manage the Router from a remote location, via the Internet. To enable this feature, check the "Management Port" checkbox, and click the Apply button.

Remote Mgmt		
Management Port	8080	Apply

Figure 4-21

• Management Port, Enter the port number.

When you want to access the web-based management from a remote site, enter http://<WAN IP Address>:8080. (e.g. http://192.168.1.8:8080).

http://192.168.1.8:8080

Figure 4-22

When finished making your changes on this screen, click the Save button to save these changes.

4.8.3 UPnP Setup

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.

UPnP Setup	
Enable UPnP Server	Apply

Figure 4-23

Check the "Enable UPnP Server" checkbox, and click the Apply button. When finished making your changes on this screen, click the Save button to save these changes.

4.8.4 System Time Setup

System Time Setup allows your router to base its time on the settings configured here, this will affect functions such as Firewall settings.

System Time	Setup	
System Time	Feb 27 2004 7:17:54	
GMT	(GMT+08:00) Beijing, Hongkong, KualaLumpur, Singapore 💌	Apply

Figure 4-24

Select the time zone of the country you are currently in from the drop-down menu. The router will set its time based on your selection. When finished making your changes on this screen, click the Save button to save these changes.

4.8.5 WAN Link Status & Setup

Setup Wan Link mode, Select the mode from the drop-down menu, the default setting is "Auto".

WAN Link Status	& Setup			
WAN Link Status	100Mbps-Full	WAN Link Setup	Auto 💌	Apply
		— ; 4	25	

Figure 4-25

Click the Apply button to finish the setting

When finished making your changes on this screen, click the Save button to save these changes.

4.8.6 Restore Default / Restart System

Restore Default / Restart System	
Restore Default	Restart System

Figure 4-26

4.8.6.1 Restore Default

Restore the Router's configuration to its factory default settings. Restore Factory Defaults. To clear all of the Router's settings and reset them to its factory defaults, click the Restore Default button. Router will restart automatically.

Factory Default Setting Restored	_
The restore default process has been completed successfully.Please wait a few seconds for the router to reboot before trying to access the route again.	

Figure 4-27

4.8.6.2 Restart System

Click "Restart System" button to reboot router.

REBOOT

Please wait a few seconds.The router is rebooting......

Figure 4-28

4.8.7 Firmware Upgrade

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.

Firmware Upgrade

New Firmware File:	Browse	Apply

Figure 4-29

5. Troubleshooting

Q1 Forget Password (Reset the Router without Login)

- 1. Use a pencil to press and hold the default button on the front panel of the Router for 3~5 seconds.
- 2. Plug out the power of the Router, wait for 5 seconds, and then plug in again.

After the above two steps, the manufacture's parameters will be restored in the Router. The default password is admin.

Q2 Problems Related to Connection with Cable Modem

Please follow the following steps to check the problems:

- 1. Check whether the Cable modem works well or the signal is stable. Normally there will be some indicator lights on the modem, users can check whether the signal is ok or the modem works well from those lights. If not, please contact the ISP.
- 2. Check the front panel of the Router, there are also 7 indicator lights there. When the physical connection is correct, the Power light and the CPU light should be solid, the WAN light should be blinking. If you use your computer, the corresponding LAN port light should be blinking too. If not, please check whether the cables work or not. If cables work, please follow the steps in 11.1 Forget Password (Reset the Router without Login) to reset the Router. Check whether you can access the Internet, if not, go to step 3.
- 3. Open an Internet Explorer (or other web browser), type "192.168.10.1" in the address bar, and then press "Enter".
- 4. Input "admin" for the User Name, and "admin" for the Password, and then press OK.

🕗 about:blank - Micros	oft Internet Explorer	
File Edit View Fa	vorites Tools Help	
] 🖛 Back 👻 🌩 👻 🙆	😰 🚮 🔞 Search 🚯 Favorites 🎯 History 🗏	4- <i>4</i>
Address Address http://192.3	168.10.1	▼ 🖗 GO
Enter Net	work Password	<u>? × </u>
?	Please type your user name and password.	
3	Site: 192.168.10.1	
	Realm 192.168.10.1	
	User Name admin	
	Password *****	
	Save this password in your password list	
Web site fo	OK	Cancel

Figure 5-1

5. Click LAN Setup at the left hand side, check DHCP Server on at the right hand side, and then press Apply.

System IP Add	dress 192.16	8.10.1	
Pubnet Meek		15 DEE 0	
oupriet wask	1200.20	0.200.0	
DHCP Se	rver on		
DHCP IP Pool	192.16	68.10.2 - 192.168.10.101	
		Apply	
HCP IP Add	ress Reserving		
DHCP IP Add	pess Reserving		
DHCP IP Add	ress Reserving		
Physical Address	ress Reserving	Add	
DHCP IP Add	ress Reserving p ess IP Address	Add Physical Address	Delete

Figure 5-2

6. Close the Internet Explorer window.

Q3 Problems Related to Connection with DSL Modem

Please follow the following steps to check the problems:

- 1. Check whether the DSL modem works well or the signal is stable. Normally there will be some indicator lights on the modem, users can check whether the signal is ok or the modem works well from those lights. If not, please contact the ISP.
- 2. Check the front panel of the Router, there are also 7 indicator lights there. When the physical connection is correct, the Power light and the CPU light should be solid, the WAN light should be blinking. If you use your computer, the corresponding LAN port light should be blinking too. If not, please check whether the cables work or not. If cables work, please follow the steps in 11.1 Forget Password (Reset the Router without Login) to reset the Router.
- 3. Repeat the steps in 9.2 Connect with Internet Through DSL Modem.

Q4 How to Setup Your Computer to Get IP Address Manually

We only introduce how to do so in Windows XP here, for the other operating systems, please refer to related materials.

- **1.** Go to Start \rightarrow Settings \rightarrow Control Panel
- 2. Click Network and Internet Connections



Figure 5-3

3. Click Network Connections



Figure 5-4

4. Highlight the icon Local Area Connection, right click your mouse, click Properties



Figure 5-5

5. Highlight Internet Protocol (TCP/IP), and then press Properties button

aeneral	Authentication	Advanced		
Connec	t using:			
-	ntel(R) PRO/100	VM Network Con	nection	
			Configure	e
This co	nnection uses the	e following items:		_
	Client for Micros	soft Networks		
	File and Printer	Sharing for Micros	oft Networks	
	OoS Packet Se	hadder		
	gigus Facket sc	ane guiler		
	Internet Protoco	d (TCP/IP)		
	Internet Protoco	SI (TCP/IP)		
	Internet Protoco	Uninstall	Propertie	\$
	Internet Protoco	Uninstal	Propertie	5
Desc Tran wide acro	Internet Protoco Install iption smission Control F area network pro ss diverse interco	Uninstall Uninstall Protocol/Internet F ptocol that provide nnected networks	Propertie Protocol. The defau s communication	s
Desc Tran wide acro	Internet Protoco Install iption smission Control F area network pro ss diverse interco w icon in notificat	Uninstall Uninstall Protocol/Internet F tocol that provide nnected networks	Propertie Protocol. The defau s communication	s

Figure 5-6

- 6. Choose Use the following IP address and Use the following DNS server addresses, and then
 - **IP address:** 192.168.10.XXX, the "XXX" shown here is a number between 2 and 253
 - Subnet mask: 255.255.255.0
 - **Default gateway:** 192.168.10.1
 - **Preferred DNS server:** 192.168.10.1
 - Alternate DNS server: leave it blank

ieneral You can get IP settings assigned this capability. Otherwise, you nee the appropriate IP settings.	automatically if your network supports ed to ask your network administrator for
O Obtain an IP address autom	atically
• Use the following IP address	E
IP address:	192 . 168 . 10 . 30
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192 . 168 . 10 . 1
Obtain DNS server address	automatically
O Use the following DNS serve	er addresses:
Preferred DNS server:	192 . 168 . 10 . 1
Alternate DNS server	
	Advanced

Figure 5-7

7. Press OK to close the Local Area Connection Properties window

Connec	Authentication Advanced
119	ntel(R) PR0/100 VM Network Connection
This co	Configure
	Client for Microsoft Networks File and Printer Sharing for Microsoft Networks QoS Packet Scheduler Internet Protocol (TCP/IP)
	nstall Uninstall Properties
Allov	is your computer to access resources on a Microsoft ork.
-	w icon in notification area when connected

Figure 5-8

6.Technical Specifications

- Standards: IEEE802.3 10Base-T, IEEE802.3u 100Base-TX
- Network Media: 10BASE –T: UTP Cat. 3 or up, 100BASE-TX: UTP Cat. 5 or up
- Management Interface: web-based
- Maximum Users: 50 Computers
- NAT Table Entries: 4096
- Average Latency: <=300 µs
- Interface Speed: WAN: 10/100Mbps auto-negotiation, LAN: 10/100Mbps auto-negotiation
- LED Indicators: Power, CPU, Link/Activity
- **Temperature:** 0° to 50° C (operating), -40° to 70° C (storage)
- **Humidity:** 20% to 95 % non-condensing (operating), 20% to 95% non-condensing (storage)
- **Dimension:** 159mm (L)*100mm(W)*28mm(H)
- Weight: 350g
- **Power:** DC 9V, 500mA
- Certifications: FCC Part 15 Class A, CE