Wireless Internet Gateway For ADSL/Cable

# **Quick Installation Guide**

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#### FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

### **FCC Statement**

**Note:** This digital equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, usesand can radiate radio frequency energy, and if not installed and used in accordance with the installition manual, may cause harmful interference to radio communications. However, the re is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

- Reorient or relocate the receiving antenna

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circle different from that t o which the receiver is connected.

- Consult the dealer or an experience radio/TV technician for help.

This device complies with part 15 of the FCC rules, Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

#### Warning:

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### **CE Approved**

This digital device has been CE Approved.

# Introduction

This manual details instructions of set-up and functions of the wireless Internet gateway.

This is a breakthrough for SOHO users who need to share a high speed broadband Internet connection to the Internet. The high-powered antenna design assures its wireless connection even in large building.

The wireless Internet gateway enables your network to connect through any ADSL/Cable modem onto the Internet--providing a simple network solution for SMB and SOHO users.

Wireless Internet gateway is equipped with:

- A WAN Ethernet port (to connect to ADSL/Cable modem)
- An Ethernet port (10/100Mpbs)
- One asynchronous port

Once the WAN Ethernet is connected to an ADSL/Cable modem, your ISP will **automatically** activate your account. In this way, the entire LAN can share one high-speed line to the Internet.

The asynchronous port may connect to a 56K modem or to an ISDN TA (to be used as a dialup backup to the ADSL/Cable connection should the ADSL/Cable connection fail). If there is no ADSL/Cable service in your area, the dialup backup can also serve as your Internet access solution.

# PACKAGE CONTENTS

Please inspect your package. The following items should be included:

- 1). Wireless internet gateway (the Device)
- 2). Power adapter
- 3). Quick Installation Guide

If any of the above items are damaged or missing, please contact your dealer immediately.

## PRE-INSTALLATION CHECKLIST

### Before installing the wireless internet gateway, you should:

- Have carefully read the entire manual.
- Be familiar with the terminology and concepts of browsers. (This guide works under the assumption that you are proficient with the browsers you are using).
- Have met all the hardware and software requirements.

### SYSTEM REQUIREMENTS

- Microsoft I.E 4.0 or later version or Netscape Navigator 4.0 or later version
- One computer with an installed 10Mbps, 100Mbps or 10/100Mbps Ethernet card
- One Modem or ISDN TA (if a dialup backup connection is needed)
- One RJ-45 ADSL/Cable Internet connection
- TCP/IP protocol installed
- UTP network Cable with a RJ-45 connection

# FEATURES AND BENEFITS

### High speed for wireless LAN connection

Support up to 11 Mbps data rate by incorporating Direct Sequence Spread Spectrum (DSSS) technology.

**IEEE 802.11b compatible** Fully compatible with the IEEE 802.11b standard

**Wireless AP features** Provides Roaming, Best Access Point Selection

Wireless Encryption Protocol Capable of up to 128 Bit WEP encryption

**IP sharing** Shared Internet Access for up to 253 users

### ADSL/Cable Backup

Supports dialup backup in case ADSL/Cable connection fails

### PPPoE Client

Supports PPPoE client function to connect to the remote PPPoE server

Idle Timer

Let you set a specified idle-time before automatically disconnecting

**Routing Protocol** Supports static route, RIP 1/2

**Built-in NAT function** Allows multiple PCs and devices to share one Internet connection

**Virtual Server** Allows internal workstations (servers) to be accessible from Internet

**New feature Upgradeable** New features are upgradeable in the future

### Web-Based Configuration

Web based configuration

**Firewall Protection** Built-in NAT firewall guarantees network security

**DHCP Server** Automatically assigns IP information to network users

**DHCP Client** Automatically acquires IP information for ADSL/Cable from your ISP

**Dial-on Demand** Eliminates the need for Dial-up and automatically logs in to your ISP

Hacker Attack Logging Supports general hacker attack pattern monitoring and logging

**VPN Support** Support PPTP, L2TP and IPSec pass through function

# ONE - PORT Wireless Internet Gateway ADSL/Cable Router

# The Wireless Internet gateway Front View



### **LED** indicators

	АСТ	(Green)	Green LED will <b>BLINK</b> if packet is transmitting or receiving.
LAN	LNK	(Green))	Green LED will <b>LIGHT</b> when a good link is established.
M/I O	АСТ	(Green)	Green LED will <b>BLINK</b> when data is transmitting or receiving.
WLS	LNK	(Green)	Green LED will LIGHT when Wireless LAN is ready.
Ocuial	АСТ	(Green)	Green LED will <b>BLINK</b> when data is transmitting or receiving.
Serial	LNK	(Green)	Green LED will <b>LIGHT</b> when remote carrier has be been detected.
W/ A NI	АСТ	(Green)	Green LED will <b>BLINK</b> if packet is transmitting or receiving.
	LNK	(Green)	Green LED will <b>LIGHT</b> when a good link is established.
STATUS		(Orange)	Orange LED will <b>BLINK</b> when device boot and upgrade firmware.

### **POWER** (Red) Red LED will LIGHT if the gateway is receiving power.

# The Wireless Internet gateway Rear View

The rear panel of the wireless Internet gateway is where all connections are made.



POWER (5 VAC)	The power port is where you will connect the AC power adapter
WAN	The WAN Ethernet port is where you will connect your ASDL/Cable modem
Async	The Async port is where you will connect the 56K modem or ISDN TA
LAN	The LAN port on the rear panel. This is where you will connect networked devices, such as PCs, ftp servers or anything else you want to put on your network.

### NOTE !

### The Reset Button

If you would like to load default settings, press the reset button and hold it for 5 seconds. It will load the factory default settings for the device. **Please be careful**. Do not press the reset button unless you want to clear the current data.

# Connecting Wireless Internet Gateway To The Network

### Preface

In order to install the wireless Internet gateway: you will need to check your PC's settings and the values from your ISP before connecting your gateway to the network.

### The information offered by your ISP

- Dynamic IP settings
- Your fixed IP address for the gateway
- Your subnet mask for the gateway
- Your default gateway IP address
- Your DNS IP address

### NOTE !

If you would like to use PPPoE, you will need the following values from your ISP in order to install your router:

- Username
- Password

### The static IP settings for the PC

- Your PC's fixed IP address
- Your PC's subnet mask
- Your PC's default gateway
- Your PC's primary DNS IP address



The router's default IP address settings is 192.168.2.1

### The dynamic IP settings for the PC

We recommend that you leave your IP settings as automatically assigned. By default, the gateway is a DHCP server, and it will give your PC the necessary IP settings.

### NOTE !

If the gateway assigns your PC's IP address, you have to enable the function that obtains the IP address automatically for your PC. (**please See Page 36**)

### **Confirm Hardware Installation**

After you have the previous values on hand, you can begin to configure your wireless Internet gateway.

- 1. Confirm power of the equipments, on your PCs, your ADSL/Cable modem and the wireless Internet gateway.
- 2. Connect the power-supply cable to the power port at the rear of the wireless Internet gateway. Plug the supplied power cable into a power outlet. Plug the other end into the back of the power adapter.
- Connect a network cable from one of your PCs' Ethernet ports to one of the LAN ports on the back of the wireless Internet gateway. Do the same with all the PCs you wish to connect to the wireless Internet gateway. (If your PCs install with the station cards, you can connect to the device without cabling)
- 4. Connect the network cable from your ADSL/Cable modem to the WAN Ethernet port on the rear of the wireless Internet gateway.

# If everything is done, please continue to configure the wireless Internet gateway's settings on next page......

# **Configuring Your Wireless Router**

Launch your web browser and type the device IP address (http:// 192.168.2.1) in the browser's address box. This IP address is the default value of your gateway. Press Enter

### NOTE !

Please make sure your PC's IP address is in the same network as the router's. In the windows 95/98 you can type **WINIPCFG**, in the windows 2000/NT you can type **IPCONFIG (please see page 38 )** 



The main menu will appear. It displays all the functions that you can browse, as well as setup for the wireless internet gateway.



# SETUP WIZARD

**Setup wizard** is a step-by-step process that will let you input all the basic settings.

	Enter Network Passwart	4 <u>1</u>	XI
CE SETUP AD	Phone type or Sile	aruser name and palmword 192.198.2.1 Login ar advector uner	
US WIZARD SE	Liter Nacion	admin	
	Encount		
Click the SETUP WIZARD	T (Les this	amendinyaa pamendiki DK. Carent	1

A username and password will appear. Leave the password box empty and type **admin** (the default username) in the username box. Click **OK** The setup wizard's page will appear.

**NOTE !** If you would like to change the password please **See Page 26** 

## TIME SETTINGS

Please choose the local time zone. After selecting please click **Next** button to continue to the next step. You can also click the buttons on the left to set up the configuration.



# DEVICE IP SETTINGS

You have to give your internet gateway an IP address on your network. This is not the IP address from your ISP but the local internal LAN IP address. The IP address "192.168.2.1" is the default value of your gateway.

### **Device IP Address**

The internal LAN IP address of your internet gateway

### **Device IP Subnet Mask**

The subnet mask can usually be left as its default entry "255.255.255.0"

EtherRo	uter			Cable/xDSL	Wireless I	Router
Home Internet Gateway	DEVICE INFORMATION	DEVICE	WIZARD	ADVANCED SETTINGS	SYSTEM TOOLS	HELP
Main menu	DEVICE IP SI	TTINGS				
TIME SETTINGS	The device D	P address a	and subnet	mask setting	35	
DEVICE IP SETTINGS	IP	Address:	192 . 168	. 2 . 1		
CABLE'NDSL ISP SETTINGS	IP Sub	net Mask:	255 255	. 255 . 0		
ISP ADDITIONAL SETTINGS						
WIRELESS SETTINGS				< BADK NET	ar >	
MODEM SETTINGS	NOTE: Please	lick <b>Next'</b> to	enter inputter	d data.		
SAVE & RESTART						
Copyright @ 2000	·					

# ADSL/Cable ISP SETTINGS

If you would like to use ADSL/Cable ISP settings, you have to enable this function by configuring this page. Some ISPs may give you Static IP settings. If this is the case for your ISP, then you need to:

Enter the IP address that is provided by your ISP Enter the IP subnet mask Enter the ISP gateway address Enter the DNS IP address

EtherRouter		Cable/xDSL Wireless Route				
Home Internet Gateway	DEVICE	DEVICE STATUS	SETUP WIZARD	ABVANCED SETTINGS	SYSTEM TOOLS	HELP
Main menu	CABLE/x0	SL ISP SET	TINGS			
TIME SETTINGS	Tour 1	SP requires	; you to inp	ut IP setting:	5	
DEVICE IP SETTINOS	10 arri	much bar ser	ur 19D 0		-	-
CABLE/xDSL ISP SETTINGS	11- 0550	ID Suboat	March DEE			-
ISP ADDITIONAL		th another	MOSE: 600	. 699 . 63	- in	
SETTINGS	ISP C	lateway Ad	dress: 0	. 0 . 0	. 0	
SETTINGS	Domain N	ame Serve	(DNS)	. 0 . 0	. 0	
MODEM		10-240	uress.			
SAVE & RESTART				< BACK	NEXT >	
	NOTE: Pleas	ie click 'Next'	10 enter input	tted data.		
Copyright © 2000						

# ISP ADDITIONAL SETTINGS (PPPoE SETTINGS)

If you would like to use ISP additional settings, you have to enable this function and configure this page. Some ISP use this protocol for authentication purposes; if this is the case, you need to enter:

User name: Enter the user name of your ISP account.

Password: Enter the password of your ISP account.

Retype password: Enter the password of your ISP account again to re-confirm. Some ISPs use Host Name to authenticate the user; if this is the case, you need to enter:

Host Name: Enter the name of the gateway.

Some ISP require you input the LAN card Mac address; if this is the case, you need to enter:

Mac Address: Enter this LAN card Mac address.

### NOTE !

Some ISP may recognize your LAN card Mac address as a legal user; In this case, you have to copy the LAN card Mac address in the Mac address field.

For WIN 95/98 you can run **winipcfg** to see the LAN card Mac address For WIN 2000/NT you can run **ipconfig/all** to see the LAN card Mac address

Main menu	ISP ADDITIONAL SETTINGS
TIME SETTINGS	Your ISP requires you to input username/password (PPPoE
DEVICE IP SETTINGS	Settings) User Name:
CABLEIXDEL ISP SETTINGS	Passeord: Retype Passeord:
ISP ADDITIONAL SETTINGS	Idle Times no idle fimeout •
WIRELESS SETTINGS	Your ISP requires you to input Host Computer Name or Domain Name
MODEM	Host Name: Wireless
SAVE & RESTART	Domsain Name:
	Your ISP requires you to input WAN Ethernet Mac
	Mac Address: 00 90 4b 08 02 6e
	NOTE: Please click 'Next' to enter inputted data.
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# WIRELESS SETTINGS

Here allows user to configure ESSID, Channel, WEP Encryption and the level of WEP Encryption.

### ESSID

ESSID is a unique name shared among all points in a wireless network.

### CHANNEL

To avoid interference, user should choose a proper Channel in wireless network.

### WEP

WEP (Wired Equivalent Privacy) is method of encrypting data that is transmitted over your wireless network to ensure data security. If you would like to use this function, you can **Enable Encryption and Select the method of encryption (40 Bit or 128 Bit)**.

If Encryption option is Checked, User has to enter encryption key manually.

EtherRo	uter			Cable/xDSI	. Wireless	Router			
Home Internet Gateway	DEVICE INFORMATION	DEVICE	WIZARD	ADVANCED SETTINGS	SYSTEM TOOLS	HELP			
Main menu	WIRELESS	SETTIN	GS						
TIME SETTINGS	ESSID	Wire	less						
DEVICE IP SETTINGS	Channel	6							
CABLE/xDSL	C Encryption:	€ s	hare key	C Oper	system				
ISP ADDITIONAL	C 40(64) Bit	Key 1:	13 4c	41 59	dc				
SETTINGS	Default Key:	Key 2 Key 3	10  0  0		0				
SETTINGS		Key 4	0 0	0 0	0				
MODEM SETTINGS SAVE & RESTART	@ 128 Bit	J	70 54 36 0	12 cc 3d 4a	f2 21				
	NOTE: Please cli	ck <b>'Next'</b> b	o enter inputt	ed data.					

# MODEM SETTINGS

The modem dialup can be used as a backup for the ADSL/Cable connection. If you would like to use modem backup you need to enable the modem settings function; click on the square shown below and input the ISP account information.

**Note:** If you want to change the baudrate settings, please click on the **"ADVANCED SETTINGS".** Then click on the **MODEM SETTINGS** button.

EtherRo	outer Gable/xD5. Wireless Router
Home Internet Gateway	DEVICE DEVICE SETUP ADVANCED YSTEM HELP
Main menu	MODEM SETTINGS
TIME SETTINOS	Dialup Modern When Cable/xDSL is not connected
DEVICE IP SETTINGS	ISP Phone Number:
CABLE/xDSL ISP SETTINGS	User Name:
ISP ADDITIONAL SETTINGS	Retype Password:
WIRELESS SETTINGS	Idle Time: 30 minutes
MODEM SETTINGS	< BACK NEXT >
SAVE & RESTART	NOTE 1: Please click "Next" to enter inputted data. NOTE 2: Most moderns are compatible with standard modern strings. But few moderns or ISDN TAs may need special modern string settings. To setup these special modern strings. Please goto Modern Settings in the Advanced Settings.

# SAVE & RESTART

After you have finished making all the changes on the various pages, please **click Save & Restart to save the settings** and **restart the device**. After the restart, the device will function according to the saved settings.



During the startup process the LED of the device will blink. Please **wait** until the blinking of the device stops before proceeding.



# **Device Information**

Device information displays the current settings of the wireless internet gateway.



### **Device Name**

The host name of the wireless internet gateway

### **IP Address**

The IP address of the wireless internet gateway

### Private LAN Mac Address

The Mac address of the wireless internet gateway LAN port

### Public WAN (ADSL/Cable) Mac Address

The Mac Address of the wireless internet gateway WAN Ethernet port

### **Firmware version**

Displays the Firmware Version and its release date

# **DEVICE STATUS**

Device status displays the current connection status of the internet gateway.



### Modem Backup

The modem can be used as a dialup backup for the ADSL/Cable connection. If the current connection is via modem, it will show "**Modem: Active**," otherwise it will show "**Not Active**".

### Device IP

Shows the Device IP address, private LAN Mac address and public WAN Mac address of the wireless internet gateway.

### **Release and Renew**

Click **Release** button, the wireless internet gateway will disconnect with the ADSL/Cable modem.

Click **Renew** button, the wireless internet gateway will connect with the ADSL/Cable modem again.

### DHCP Log

Click **DHCP Log** button, the screen will display the current DHCP client information.

# **Advanced Settings**

Advanced settings include DHCP server, virtual server and password settings.

A username and password dialog will appear. Type "admin" in the user name box, and type the password that you have set for the device (the default is no password) Click OK. Т

-	-	-	-	- /	-							
h	e	ł	٠d٨	/an	ceo	d Set	tings	page	will	app	bear.	

100	East .	152.988.2.1
	Baale	Login ac admin or Low
	Use Nase	adnin
	Earned	

## **DHCP SERVER SETTINGS**

The wireless internet gateway's DHCP server is enabled by default. If you would like to disable the DHCP server, uncheck on the square circled below.

EtherRo	uter			Cable/xD5	iL Wireless I	Router				
Home Internet Gateway	DEVICE	DEVICE STATUS	WIZARD	ADVANCED	SYSTEM TOOLS	HELP				
Main menu	DHCP SERV	ER SETTINGS								
DHCP SERVER SETTINGS	🗵 Enable (	HCP Server	Functions							
VIRTUAL SERVER SETTINGS	IP Address P	IP Address Pool Range								
STATIC ROUTING		From: 192.168.2. 2 Τα: 192.168.2. 100								
DYNAMIC ROUTING	IP Address R	servation								
MODEM STRING	1. Computer N	ame:	IP A	ddress: 192.	168.2 . 0					
	2. Computer N	ame:	IP A/	ddress: 192.	163.2 . 0					
SETTINGS	3. Computer N	ame:	- PA	ddress: 192.	168.2.0					
	4. Computer N	ame:	PA	adress: 192.	168.2.0					
			SUBMI	T						
	NOTE: Please	click 'Submit'	to enter inpu	tted data.						

### **IP Address Pool Range**

The IP address pool contains the range of the IP address that will automatically be assigned to the clients of your network. Default setting is from 192.168.2.2 to 192.168.2.100

### **IP Address Reservation**

You can use IP address reservation option to give particular computers on your network the same static IP address every time the computer is turned on.

# VIRTUAL SERVER SETTINGS

**Virtual server settings** allow clients on the Internet to access your LAN via the Internet. You can use the IP mapping function to access an FTP server or Telnet server etc. remotely through Internet.

EtherRo	uter			Cable/xDSL	. Wireless I	Router
Home Internet Gateway	DEVICE INFORMATION	DEVICE STATUS	WIZARD	ADVANCED SETTINGS	SYSTEM TOOLS	HELP
Main menu	VIRTUAL S	ERVER SET	TINGS			
SETTINGS	1. Internal II	9 192.168.2	0	Service NON	IE 📕	
VIRTUAL SERVER SETTINGS	2. Internal II	9 192,168.2	0	Service NON	IE 🔳	
STATIC	3. Internal II	P 192.168.2	0	Service NON	IE 🔳	
ROUTING	4. Internal II	P 192.168.2	0	Service NON	IE 🔳	
DYNAMIC	5. Internal II	P 192.168.2	0	Service NON	IE 🔳	
ROUTING	6. Internal II	P 192.168.2	0	Service NON	IE 🔳	
MODEM STRING SETTINGS	7. Internal II	P 192.168.2	0	Service NON	IE 🔳	
ADMINISTRATION			BUBMIT)			
	NOTE: Pleas	e click <mark>'Sub</mark> r	niit' to enter in	nputted data.		
Copyright © 2000						

# STATIC ROUTING SETTINGS

**Static routing settings** allow the wireless internet gateway to route IP packets to another network. The routing table stores the routing information so that your network device knows where to redirect the IP packets to the proper network.

EtherRo	uter			Cable/xD3	SL Wireless	Router
Home Internet Gateway	DEVICE	DEVICE STATUS	WIZARD	ADVANCED SETTINGS	SYSTEM TOOLS	HELP
Main menu DHCP SERVER SETTINGS VIRTUAL SERVER SETTINGS STATIC ROUTING DYNAMIC ROUTING	STATIC RC Dest Subr Gateway IP	Address (192 Address (192 Address (192	E . 168 . . 255 . . 168 . Apr	200 . 0 255 . 0 2 . 53		
MODEM STRING SETTINGS	Det Destine 192.16 Det NOTE: Please	teon DAN 19 Ade 18. 100.0 se cick <b>'Subn</b>	dreass Sub 255.25 ett' to enter in	net Mask 5.255.0	Sataway 19 A 192.168.2.254	ddmaaa 4

### **Destination IP Address**

The destination IP is the address of the remote network to which you want to assign a static route.

### Subnet Mask

The subnet mask of your network IP address.

### **Gateway IP Address**

The IP address of the interface used to link to the remote network.

# DYNAMIC ROUTING SETTINGS

**Dynamic routing settings** allow the home internet gateway to route IP packets to another network automatically. The RIP protocol is applied, and broadcasts the routing information to other routers on the network regularly.

EtherRo	uter		1.1	Cable/xDSL	Wireless I	Router
Home Internet Gateway	DEVICE	DEVICE STATUS	WIZARD	ADVANCED SETTINGS	SYSTEM TOOLS	HELP
Main menu DHCP SERVER SETTINGS	DYNAMIC	SETTINGS				
VIRTUAL SERVER SETTINGS STATIC ROUTING	SEND @	Disable (	RIP1	C RIP1 Comp	atible C RIP	2
DYNAMIC ROUTING	RECEIVE 6	Disable (	C RIP1 Only	C RJP2 Only	C Bot	RIP1/2
MODEM SIRING SETTINGS	NOTE: Plea	se click <b>'Sub</b>	<b>Sum</b> il' to enter in	mitt) iputted data.		

For the SEND option choosing the proper protocol by which you transmit the data on the network.

For the RECEIVE option choosing the proper protocol by which the home internet gateway receive the data on the network.

# MODEM STRING SETTINGS

**Modem string settings** allow user to detail settings for the modem. If you want to change the baudrate settings, please check the initial string. (You can refer to your manual of the modem or TA.)

EtherRo	uter		C) [	Cable/xDSI	. Wireless (	Router
Home Internet Gateway	DEVICE INFORMATION	BEVICE STATUS	SETUP WIZARD	ABVANCED SETTINGS	SYSTEM TOOLS	HELP
Main menu DHCP SERVER SETTINGS	MODEM SE	TTINGS				
VIRTUAL SERVER SETTINOS	Baudrate Pre-Initi	Settings : 1 al String: 🖉	15200bps(28 \T	.BK/33/6K/56K.n	nodern or ISD	IN TA) 💌
STATIC ROUTING	lniti Diale	al String: 🖡 .p String: 🛃	NT SO-1			
MODEM STRING				SUBMIT)		
ADMINISTRATION	NOTE: Pleas	e click 'Sub	mit'to enter in	putted data.		
Copyright @ 2000						

# ADMINISTRATION SETTINGS

### **PASSWORD SETTINGS**

You can give your internet gateway a new password. This password is required the next time you configure your internet gateway. To enter a password, type your password in the new password field and type it again in the retype password field.

### NOTE !

**TE!** It is important to remember your password. If for any reason you lose or forget your password, press the small reset button located on the back of the device for 5-6 seconds. Reset action will re-initialize the settings. All configurations, including password, will be reset, and requires re-entering.

EtherRo	outer			Cable/xDSL	Wireless	Router
Home Internal Gateway	DEVICE	STATUS	WIZAND	ABVANCED SETTINGS	SYSTEM TOOLS	HELP
Main menu	PASSWOR	D SETTING	1			
DHCP SERVER SETTINGS	The new p	assword w	ill be used	to authentica	ite the use	ir when
VIRTUAL SERVER SETTINGS	configurin	g the devic	<b>10.</b>			
STATIC ROUTING	New Retype	Password: Password:				
DTNAMIC BOUTING	SYSTEM AI	OMINISTRA	TION			
MODEM STRING SETTINGS	HTTP Port N Telnet Port	lo: Nat	80 23			
	Remote	emote user t odministrati P Address:	o configure t on host 0 0	the device		
	P Allow re	emote user t	a ping the da	ivice		

### SYSTEM ADMINISTRATION

Here allows remote user to configure and administrate the wireless internet gateway through Internet.

The default port no for **HTTP** and **TELNET** are **80** and **23** respectively. The default IP address of remote administration host is: **0.0.0.0**. (IP address 0.0.0.0 means that any PC on the network can remote access and manage the wireless internet gateway)

If you use this function you have to **enable** the feature "**Allow remote user to configure the device**" first. Once you have enabled this function, type the wireless internet gateway **WAN IP address (http://192.168.100.1:1023)** into the browser of any or specific PC on the network.



Once HTTP port no (NOT PORT 80) have be changed and the sers of LAN terminal want to configure the wireless internet gateway, the users have to type the wireless internet gateway LAN IP address with port no (http://192.168.2.1:1023)

If you finished all the settings, please click Submit button to go to the next page...

# SAVE & RESTART

Here shows all the functions of the **ADVANCED SETTINGS**. If you have finished making all the changes on the various pages, please **click Save & Restart** to save the settings and restart the device. If you want to configure the setting again, you can browse those functions then click them. After the restart, the device will function according to the saved settings.

**Save & Restart** lets you save the input settings to the wireless internet gateway (so as to be retrieved at a later time) and then restart it.



# SYSTEM TOOLS

### System tools

Detects the status of the wireless internet gateway.

# INTRUDER DETECTION LOG

The event messages show the possible hacker attacks that have occurred on your internet gateway. Up to 32 hacker attacks may be logged in this manner.

EtherRo	uter			Cab	e/xDSL Wireless	Router
Home Internet Gateway	INFORMAT	DEVI NON STAT	ICE S	SETUP ADV NIZARD SET	TINGS TOOLS	HELP
Main menu	INTRU	DER DETE	CTION LO	G		
INTRUDER DETECTION LOG			-			
DISPLAY	Index	Time	Protocol	(Port)	Dest IP (Port)	Event
SYSTEM	(1)	2001/5/11 3:35:56	IP	129.6.15.28 (123)	192.168.100.42 (17792)	UDP Intruder
LOAD DEFAULT	(2)	2001/5/11 3:35:56	IP	132.163.4.103 (123)	3 192.168.100.42 (17792)	UDP Intruder
UPGRADE	(3)	2001/5/11 3:35:56	IP	192.43.244.18 (123)	192.168.100.42 (17792)	UDP Intruder
RESET DEVICE	(4)	2001/5/11 3:35:56	IP	131.107.1.10 (123)	192.168.100.42 (17792)	UDP Intruder
	(5)	2001/5/11 3:35:56	IP	129.6.15.29 (123)	192.168.100.42 (17792)	UDP Intruder
	(6)	2001/5/11 3:35:56	IP	132.163.4.10 (123)	192.168.100.42 (17792)	UDP Intruder

# DISPLAY ROUTING TABLE

Here shows the current static routing configuration.

EtherRo	uter		e	able/xDSL Wir	eless Router
Home Internet Gateway	DEVICE	ON STATUS	WIZARD S	ETTINGS T	HELP
Main menu	DISPL	Y ROUTING TAB	LE		
DETECTION LOG	Туре	Destination LAN IP Address	Subnet Na	sk Gatewa Addm	y IP Hop Iso Count
DISPLAY ROUTING TABLE	DVIF	192.168.2.0	255.255.255	0 192.168.2	1 1
SYSTEM DIAGNOSTICS	DVIF	192.168.100.0	255.255.255	.0 192.168.1	00.42 1
LOAD DEFAULT SETTINGS					
UPGRADE					
RESET DEVICE					
Copyright © 2000					(

# SYSTEM DIAGNOSTIC

System diagnosis shows your internet gateway's information. It will perform a check-up on your internet gateway to make sure that everything is functioning properly.

EtherRo	uter		e de la compañía de	Cable/xDSL	Wireless Router
Home Internet Gateway	DEVICE	DEVICE STATUS	WIZARD	ADVANCED SETTINGS	TOOLS HELP
Main menu	SYSTEM DI	AGNOSTIC			
INTRUDER DETECTION LOG	Configurat	tion			
DISPLAY ROUTING TABLE	Firmware Ver:	sion: V4.51			
SYSTEM DIAGNOSTICS LOAD DEFAULT SETTINGS UPGRADE FIRMWARE	ISP Setting IP assigned m IP address: 0. Gateway IP a DNS Server IF Host Name: V PPPoE Enabl PPPoE Usern	IS nethod: Assig 0.0.0 ddress: 0.0.0 P address: 0.1 Vireless le : No iame:	gned by ISP ( 1.0 0.0.0	DHCP server	
RESET DEVICE	Modern Set Telephone Nu Dial-up User M Idle Timeout: 3 Pre Initial String: A Dialup String:	ttings mber: Vame: 30 minutes ng: AT AT S0=1 ATDT			
	Device Bett Device IP add Device Networ DHCP Server: Pool from: 192 Pool to: 192.1	tings ress as: 192 k Mask: 255 Enabled 2.168.2.2 68.2.100	168.2.1 .255.255.0		
	Diagnosis				
	ISP Status Cable / xDSL ISP Gateway DNS IP addre Modern (asyn	IP address:1 IP address:1 ss:192.168. c) IP address	92.168.100.4 192.168.100.1 100.1 × 0.0.0.0	2	
	Link Status Cable/xDSL LAN Modem		Connected Connected Modern is Not	Ready	
	Current WA Cable/xDSL	N connect	tion Connected		
	LAN MAC To . LAN IP: 192.	able 168.2.2 . MA	VC: 00:00:64:	94.85.cd	
	WAN MAC T LAN IP 192, LAN IP 192,	able 168.100.108 168.100.44 168.100.42 168.100.91 168.100.95 168.100.95 168.100.25 168.100.25 168.100.50 168.100.50	. MAC: 00:0 MAC: 00:00 MAC: 00:12:2 MAC: 00:12:2 MAC: 00:47 MAC: 00:47 MAC: 00:90 MAC: 00:90 MAC: 00:40 MAC: 00:40 MAC: 00:40	1:08:07:06:05 b4:59:56:c8 4b:08:02:56 58:94:35:01 58:94:35:01 58:94:30:01 rc:0b:80:95 800:00:11:44 c0:7:39:23 95:49:17:46 22:22:22:23	
Copyright © 2000					•

# LOAD DEFAULT SETTINGS

This allows you to load the original default settings of your wireless internet gateway.



# UPGRADE FIRMWARE

The upgrade firmware option allows you to upgrade the latest firmware to your wireless internet gateway.

EtherRo	outer			Cable/xDSL	Wireless R	louter
Home Internet Gateway	DEVICE	DEVICE STATUS	WIZARD	ADVANCED SETTINGS	TOOLS	HELP
Main menu	FIRMWAR	E UPGRADE				
INTRUDER DETECTION LOG	Enter the	firmware fi	le path into	the box and	I click STAR	Tto
DISPLAY ROUTING TABLE	proceed v	with the new	v firmware	upgrade.		
SYSTEM DIAGNOSTICS	F	irmware Upgr	ade File:		Brows	ə
LOAD DEFAULT SETTINGS				BT	ART	
UPGRADE FIRMWARE						
RESET DEVICE						
Copyright © 2000						

# RESET DEVICE

Resetting the device will restart it. Click on the **START** button to restart.

EtherRo	uter			Cable/xDSL	Wireless	Router
Home Internet Gateway	DEVICE	DEVICE	SETUP WIZARD	ADVANCED SETTINGS	SYSTEM TOOLS	HELP
Main menu INTRUDER DETECTION LOG DISPLAY ROUTING TABLE SYSTEM DIAGNOSTICS LOAD DEFAULT SETTINGS UPGRADE FIRMWARE	RESET THE Resetting button to	DEVICE the device proceed.	Will restart	It. Please cli	ck on the s	START
Copyright © 2000						

### How using telnet to configure your Wireless Internet Gateway

Telnet is a telecommunications software utility which allows you to access a remote device. The internet gateway has a built-in telnet server that enables a telnet client to remotely configure the gateway using a menu system.

### NOTE !

To successfully configure your internet gateway using telnet, TCP/IP have to be correctly configured on your PCs and router. And your PCs have to be located on the same subnet.

Launch DOS commend prompt and type **Telnet**, followed by router's IP address (default IP address is 192.168.2.1) then press **Enter**. **NOTE:** If you change **Telnet** port no **(NOT PORT 23)**, you should type:

### <u>192.168.2.1 <Port No></u>.



When prompted to input the router password, press **Enter**. The wireless internet gateway telnet server menu will be shown as below.

💌 Command Prompt - telnet 192.168.2.1 600		
Command Prompt - telnet 192.168.2.1 600 Please input ROUTER password Password: ROUTER SETTINGS a>. ROUTER IP ADDRESS b>. ROUTER SUBNET MASK c>. ROUTER NAME d>. ROUTER NAME d>. ROUTER PASSWORD e>. WAN ETHERNET MAC ADDR. f>. WAN ETHERNET SETTINGS g>. ASYNC PORT SETTINGS h>. ROUTER DNS IP ADDRESS i>. LAN DHCP SERVER j>. VIRTUAL SERVER	<pre>&lt;192.168.2.1&gt; &lt;255.255.255.0&gt; <etherrouter> &lt;&gt; &lt;00:08:00:C0:2B:23&gt; <internet access=""> <remote access=""> &lt;0.0.0&gt; <enable> <disable></disable></enable></remote></internet></etherrouter></pre>	
k). ROUTING TABLE 1). CLIENT FILTER SETTINGS m). LOAD DEFAULT SETTINGS n). SAVE AND RESTART SERVER o). DIAGNOSTIC q). QUIT Select ?		

Define the **Router IP Address**, **Router Subnet Mask**, **Router Name** and **Password** by selecting menu letter corresponding to each item. (item a~d)

### WAN Ethernet Mac Address

Displays the hardware address of the board. You may change the Mac address if required by your ISP.

### **WAN Ethernet Settings**

Selects the function of the WAN Ethernet port as **Internet Access**. Complete the **External IP Port Address**, **External IP Port Netmask**, **Gateway IP Address** and **DNS IP Address** fields using the IP address provided by your ISP.

### **Async Port Settings**

Selects the function of the async port as **IP Routing** if you have an analog modem or ISDN TA connected to the async port. Complete the **Telephone number**, **User name** and **Password** needed to make the connection to your ISP. Use the menu options to provide specific information about your modem's **Serial baudrate (speed), Modem Pre-initial, initial, dial-up and hangup strings.** You may also use the menu options to create or edit **Login Scripts.** 

### **Router DNS IP Address**

Enter the IP address of your ISP system's DNS as provided by your ISP.

### LAN DHCP Server

You can enable or disable the DHCP function on the internet gateway. If you select enable, you will be prompted to enter the address range from which the router will issue IP address.

### Virtual Server (IP Mapping)

Define the list of mapped internal and external IP address. For example, you may want to use IP mapping to access an FTP server on your LAN via the internet.

### Load default Settings

Sets the router back to its original factory settings.

### Apply and Save Changes

Saves the current configurations into the internet gateway's memory. **NOTE:** you must select **Apply and Save Changes** before leaving the menu or your configuration changes will be lost when the gateway is powered off.

### Diagnostic

Select Diagnostic to perform basic hardware checking and display the gateway's firmware version. You may also use this option to assign WAN and LAN Mac address if required by your ISP.

When all options have been configured and after you have selected **Apply and Save Changes**, select **q.) Quit.** 

## How Configuring Your PCs Connect To The Wireless Router

If you **do not** wish to set a static IP address on your PC, you will need to configure your PC to accept the IP address that your gateway will provide.

- 1. Click Start button, select Settings, then Control Panel
- 2. Double-click the Network Icon
- 3. In the **configuration** windows, select the **TCP/IP protocol line** that has been associated with your network card/adapter. If there is no TCP/IP line listed, you will need to install the TCP/IP now.

Network 😤 🗶
Configuration Identification Access Control
The following getwork components are installed:
Microsoft Network Monitor Driver -> Dial-Up Adapter
Microsoft Network Monitor Driver      PCI 10/100 Fast Ethe     TCP 4P > Distilla Adverter
TCP/IP -> Diarop Adapter
File and printer sharing for Microsoft Networks
édd Remove Pjoperties
Primary Network Logon:
Client for Microsoft Networks
Ele and Print Sharing
Description TCP/IP is the protocol you use to connect to the Internet and wide-area networks.
OK Cancel

4. Click the **Properties** button, then choose the **IP ADDRESS** tab. Select **Obtain an IP address automatically**.

TCP/IP Properties	2 ×
Bindings Advanced DNS Configuration Gateway WINS Confi	NetBIDS guration IP Address
An IP address can be automatically assigner. If your network does not automatically assign your network administrator for an address, and the space below.	d to this computer. IP addresses, ask nd then type it in
C Dtain an IP address automatically	
C Specify an IP address	
Póden .	
Dytext Waste	
	Canad
04	Carta

- 5. Then select **DNS configuration** tab to add **DNS IP address**. If you do not wish to add DNS you can **Disable DNS function**. Press **OK**. You have completed the client settings.
- 6. After clicking **OK**, windows will ask you to restart the PC. Click **Yes**.

TCP/IP Properties
Bindings Advanced NetBIDS DNS Configuration Gateway WINS Configuration IP Addess
Disable DNS     Enable DNS
Eat.
DNG Server Search Older
ASS Remove
Domen Softe Serech Order
Age
Regore
OK. Cancel

# CONFIRM YOUR PC's IP CONFIGURATION

There are two tools which are great for finding out a computer's IP configuration: MAC address and default gateway.

### • WINIPCFG (for windows 95/98)

Inside the windows 95/98 **Start** button, select Run and type **winipcfg**. In the example below this computer has a IP address of 192.168.2.100 and the default gateway is 192.168.2.1. The default gateway should be the network device IP address. The MAC address in windows 95/98 is called the Adapter Address.

**NOTE !** You can also type **winipcfg** in the DOS command.

P Configuration Ethernet Adapter Information	on—			
		PCI 10/10	0 Fast Ethernet /	dapte
Adapter Ado	Adapter Address 00-90-C		CC-A2-F6-04	
IP Add	dress	192.168.2.100		
Subnet M	bnet Mask 255,255,255,0		255.255.0	
Default Gates	way	192.168.2.1		
OK	Re	elea <u>s</u> e	Re <u>n</u> ew	
Rele <u>a</u> se All	Rei	ne <u>w</u> All	More Info >>	

### • IPCONFIG (for windows 2000/NT)

In the DOS command type **IPCONFIG** and press **Enter**. Your PC IP information will be displayed as shown below.



### This concludes the user manual.

Should you require further assistance or have other inquires please contact your distributor.