

USER MANUAL

WIRELESS N300 / N150 ROUTER



N300 Series ENHWI-2AN4x (with 2 antennas)

N150 Series ENHWI-1AN4x (with 1 antenna)



Note:

The lowercase "x" in the model number represents the antenna type. At the time when this manual was written, Encore offers 2 different types of antenna for Wireless N Router: 2dBi and 5dBi. The antenna shown on the cover is 2dBi. The 5dBi antenna is longer.

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Chapter 1: Introduction

The ENHWI-1AN4x Wireless N150 Router / ENHWI-2AN4x Wireless N300 Router complies with IEEE 802.11n, and provides faster and farther range than 802.11g while being backward compatible with 802.11g and 802.11b mode. This router uses advanced broadband router chipset and wireless LAN chipset solution to let you enjoy high-speed Wired and Wireless connection. Simply connect this device to a Cable or DSL modem and then you can share your high-speed Internet access with multiple PCs at your home with or without wires. It creates a secure Wired and Wireless network for you to share photos, files, video, music, printer and network storage. ENHWI-1AN4x / ENHWI-2AN4x provides maximum transfer rate up to 150Mbps and supports WEP, WPA, WPA2, 802.1x high-level WLAN security features that guarantee the best security for users.

1.1 Package Contents

•	Wireless N300 Router or Wireless N150 Router	x1
•	External Antenna	x2 (for the N300 Series)
		X1 (for the N150 Series)
•	External Power Adapter	x1
•	Setup CD (User Manual in the CD)	x1
•	RJ-45 Ethernet Cable	x1

1.2 System Requirements

- Active broadband connection with cable/DSL modem
- 10/100 Ethernet cables with RJ-45 connector
- Ethernet or wireless enabled computers
- TCP/IP protocol must be installed on the connecting computers
- Web browser: Internet Explorer 7 or later, or Mozilla Firefox 3 or later

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1.3 Front Panel and LED Indicators



LED	Status	Description
	On	The router power is on.
POWER	Off	The router power is off.
	On	The router is starting the system.
SYSTEM	Slow Blinking	The router system is ready to work.
	On	WAN port is successfully connected
WAN	Blinking	The router is sending or receiving data through the WAN (usually is your cable/DSL modem).
WLAN	Slow Blinking	Wireless network is ready.
	Blinking	The router is sending or receiving data over the wireless network.
LAN (1/2/3/4)	On	LAN port is successfully connected.
	Blinking	The router is sending or receiving data over the wired network.
	On	The WPS LED keeps on for around 8 seconds while the system is starting.
WDO	Off	The WPS PBC/PIN function is not running.
VVP5	Slow Blinking	The WPS PBC function is running and last for 2 minutes after pressing and holding
		the WPS button for 3 or more seconds.



1.4 Back Panel and Connectors



Port / Button	Description
Antenna	Attach the external antenna(s) with R-SMA connector here. (The N300 Series has two antenna connectors, while the N150 Series only has one.)
Reset	 The Reset button will restore your router to the default setting. Press and hold the button for 6 seconds to enable the reset function. Note: Before using the reset button, you should try two things: 1. Disconnect and power off both your modem and router. Wait for 30 seconds and turn on your modem FIRST. Wait for another 60 seconds for your modem to boot up. LAST, connect the modem back to the router and turn on the router. Wait for another 60 seconds for the router to boot up. RESTART your web browser to see if you can access the Internet now. 2. If the first solution does not work, restart your computer and open your web browser again. If the above-mentioned two solutions and the reset function cannot solve your problem, contact your Internet service provider to see if there is a problem with you modem or Internet service.
LAN (1/2/3/4)	Connect the 10/100 Ethernet Cable with RJ-45 connector here. Most networking devices should connect to the LAN port, such as computer, NAS, IP camera, print server, switch, and access point.
WAN	Connect the 10/100 Ethernet Cable with RJ-45 connector here. Only connect a Wide Area Network (WAN) device to this port, such as a Cable/DSL modem.
POWER	Connect the bundled DC 12V power adapter here.



Chapter 2: Connecting Your Router



- 1. Attach the antenna to the back of the router.
- 2. Power off your Cable/DSL modem.
- 3. Connect your computer to the LAN port on the router with an Ethernet cable.
- 4. Connect your Cable/DSL modem to the WAN port on the Router with an Ethernet cable.
- 5. Power on the Cable/DSL modem, BEFORE powering on the router. Wait for 60 seconds for your modem to boot up.
- Plug the bundled power adapter to a power outlet. Connect the power adapter to the router. Wait for another 60 seconds for your router to boot up.





- Check the LED lights (see Page 5 for more details). 7.
- 8. The LAN lights should be on for each active LAN connection.
- 9. The WAN lights should be on when the Cable/DSL modem is connected.



Chapter 3: Configuring Your Router

3.1 Accessing the Web-Based Configuration Utility

WAN	Connection Typ	e	
Connection Type Dynamic DNS	Connection Type :	DHCP Client or Fixed IP	
Wireless			
AN	WAN P Address : P Address :	Obtain P Automatically S	ipecity iP
Routing	Subnet Mask :	0.0.0.0	
Access Control	Gateway :	0.0.0.0	
ystem	MTU ;	1500	
Vizard	DNS 1	0.0.0.0	
	DNS 2 :	0.0.0.0	

Screenshot of the Web-Based Configuration Utility

For the initial configuration, we recommend you connecting your computer to the LAN port with an Ethernet cable. If this cannot be done, you have to connect to the router wirelessly.

Before configuring your router through wireless network, make sure that SSID, Channel

and Security are set properly. The default setting of the WLAN Router that you will use:

- SSID: default
- Channel: 11
- 802.11 Mode: 802.11b/g/n mixed mode
- Channel bandwidth: 20/40MHz
- Security: Disable

Note:

Before you configure the router, make sure the host PC is set on the IP subnet that can be accessed by your cable/DSL modem. For example, when the default network address of the cable/DSL modem 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.

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You need a web browser to access the web-based configuration utility.

- 1. Open a web browser.
- 2. Type in the following URL to the address bar:

Blank Page - Windows Internet Explorer Image: Blank Page - Windows Internet Explorer

http://192.168.10.1

3. The web browser will ask you for User Name and Password. The default access information is as follows:

User Name: admin

Password: admin

The login window varies among web browsers. Below is an example from Internet Explore





В.

→ Setup Wizard

Step 6. Restart

Display Wizard next time?
 Yes
 No

👩 🌍 Internet | Protected Mode: On

3.2 **Encore Setup Wizard**

Encore Setup Wizard helps you to configure the router quickly. Simply follow the step-by-step instructions



To access the Setup Wizard, click on "Wizard" at the bottom of the function menu.

• Welcome to Setup Wizard Step 1. Set your New Password Step 2. Choose your Time zone Step 3. Set LAN Connection and DHCP Server Step 4. Set Internet Connection Step 5. Set wireless connection

> NEXT EXIT √a ▼ €100% ▼

This is the Setup Wizard overview page.

Click "Next" to continue.









Chapter 4: Advanced Configuration

4.1 WAN (Wide Area Network)

This section enables users to set up the Wide Area Network (WAN) connection: specifying the WAN IP address, adding DNS numbers, and entering the MAC address.

nection Type : DHCP Clent or Fixed P
P Address : ODD Data P Automatically Specify P P Address ODD D
Subnet Mask: 0.0.0.0
Gateway: 0000
мти: 1500
DNS 1: 0.000 DNS 2: 0.000

4.1.1 Connection Type

There are five connection types to choose:

- DHCP Client or Fixed IP
- PPPoE
- PPTP
- L2TP
- BigPond Cable





A. DHCP Client or Fixed IP

If user has the DHCP server enabled, choose "Obtain IP automatically (DHCP client)" to have the router assign IP addresses automatically.

Connection Type :	DHCP Client or Fixed IP	-
WAN IP Address :	Obtain IP Automatically Specify	IP
IP Address :	0.0.0.0	
Subnet Mask :	0.0.0,0	
Gateway :	0.0.0:0	
MTU :	1500	
DNS 1:	0.0.0.0	
DNS 2 :	0.0.0.0	

WAN IP Address

Select whether you want the router to "*Obtain IP Automatically*" or manually input **Fixed IP** by checking "*Specify IP*."

IP Address

Under the "Specify IP" mode, enter the information provided by your ISP.

Subnet Mask

Under the "Specify IP" mode, enter the information provided by your ISP.

Gateway

Under the "Specify IP" mode, enter the information provided by your ISP.

DNS 1/2

Under the "*Obtain IP Automatically*" mode, the DHCP server will provide DNS server IP automatically if this field is 0.0.0.0.

Under the "Specify IP" mode, manually enter the DNS server IP address.

Clone MAC Address

If your ISP requires you to enter a specific MAC address, please enter it here. The "*Clone MAC Address*" button is used to copy the MAC address of your Ethernet adapter to the Router.



B. PPPoE

If connecting to the Internet using a PPPoE (Dial-up xDSL) Modem, the ISP (Internet Service Provider) will provide a Password and User Name. Choose this option and enter the required information.

Constant Trans			
Connection rype	PPPCE		
WAN IP Address	@ Obtain IP Aut	tomatically	
	C Specify IP	0.0.0	
Service Name			
User Name	8		
Password :			
Varity Passeord			
DNS :	Frimary 0.0.0.0		
	Secondary 0.0.0.0	0 (optional)	
Auto-reconnect :	C Alvays On C	Manual @ Connect	on Demand
Itle Time Out	5 Minutes		
MTG	[1492]		

WAN IP Address

Select whether you want the router to "*Obtain IP Automatically*" or manually input **Fixed IP** by checking "*Specify IP*."

Server Name

Enter the information provided by your ISP (optional).

<u>User Name</u>

Enter the information provided by your ISP.

Password

Enter the information provided by your ISP.

Retype Password

Enter the password again.

DNS

Under the "**Obtain IP Automatically**" mode, the DHCP server will provide DNS server IP automatically if this field is 0.0.0.

Under the "Specify IP" mode, manually enter the DNS server IP address.

Auto-Reconnect

Three options are available: Always-on, Manual or Connect-on Demand.

Idle Time Out

Enter the idle time out for "*Connect-on Demand*," when no Internet access during the idle time, the PPPoE connection will auto disconnect.

<u>MTU</u>

Enter the specified MTU (Maximum Transmission Unit). The default value is 1492 bytes.



C. PPTP/L2TP with Dynamic IP (Obtain IP Automatically)

If connecting to the Internet using a PPTP/L2TP (Dial-up xDSL) protocol with **Dynamic IP**, check "**Obtain IP Automatically.**"

You need to enter the following information provided by your ISP: Server IP/Name, PPTP/L2TP Account, and PPTP/L2TP Password.

If your ISP has provided you a DNS IP address, enter it in the "**DNS**" field. Otherwise, leave it as "0.0.0.0."







D. PPTP/L2TP with Static IP (Specify IP)

If connected to the Internet using a PPTP/L2TP (Dial-up xDSL) with <u>static IP</u> connection, check "Specify IP."

You need to enter the following information: IP Address, Subnet Mask, Gateway IP address, DNS IP address, Server IP/Name, PPTP/L2TP Account, and PPTP/L2TP Password.

nnection Typ	e	Connection Type	a
Connection Type :	рртр 🔻	Connection Type :	L2TP 👻
WAN IP Address :	🛞 Obtain IP Automatically 👻 Specify IP	WAN IP Address	Chine IP Automatically & Casality IP
IP Address	172112	THOM IT POSSIESS .	Outain IP Automatically @ Specify IP
Diment Mark	APP APP APP A	IP Address :	172.1.1.2
Country man	202202000	Subnet Mask :	255.255.255.0
Gateway :	172.1.1.1		
DNS	0.0.0	Gateway :	0.0.0.0
		DNS :	0.0.0.0
Server IP/Name :	172.1.1.1	104000 x	
PPTP Account :		Server IP/Name :	172.1.1.1
PPTP Password :		L2TP Account :	
Verity Password :		L2TP Password :	
Auto-reconnect :	😻 Always On 🙁 Manual 🙁 Connect-on Demand	Verify Password :	
Idle Time Out :	0 Minutes		
MTU:	1468	Auto-reconnect :	💿 Always On 🗇 Manual 💮 Connect-on Deman
MPPE Enable :	(Only for MSCHAPy2)	Idle Time Out :	187 Minutes
MPPE Encryption		MTU :	46093
Length :	40.0%		10 1



E. BigPond Cable

If your ISP is Big Pond Cable, the ISP will provide you a User Name, Password, Authentication Server, and Login Server IP (Optional). Choose this option and enter the required information.

Connection Type :	BigPond Cable 🗸	
User Name :	1	
Password:	******	
Verify Password :	•••••	•••
Server IP/Name :	0.0.0.0	(optional)
Auth Server :	sm-server 🔻	
MTU:	1500	



4.1.2 Dynamic DNS

This synchronizes the DDNS server with your current Public IP address when you are online. First, you need to register your preferred DNS with the DDNS provider. Then, please select the DDNS address in the Server Address and enter the following information: Host Name, User Name, and Password.

	ne Easy — 802.11n Wireless Broadband Rout
WAN	Dynamic DNS
Connection Type Dynamic DNS	DDNS : enabled Disabled
Wireless	DDNS Server Selection List : DynDns.com -
LAN	Host Name : host.dyndns.org User Name : test
Routing	Password :
Access Control	
System	Cancel 🛛 🐼 Apply
Wizard	



4.2 Wireless

This section allows users to configure the wireless network functions.

4.2.1 Basic

This page allows user to enable and disable the wireless LAN function, create a SSID, and

select the channel for wireless communications.

	1 Easy		802.11n	Wireless B	roaddband Rou
WAN	Basic				
Wireless	Wireless :	Enable	Disable		
Basic	SSID :	ENHWI-1A	N4		
Security	SSID Broadcast	Enable	Disable		
Advanced Wi-Fi Protected Setup	Channel :	11 •			
LAN					
Routing				× ci	incel 🕢 Apply
Access Control					

Enable/Disable: Enables or disables wireless LAN.

SSID: Type an SSID in the text box. The SSID of any wireless device must match the SSID typed here in order for the wireless device to access the LAN and WAN via the WLAN Router.

SSID Broadcast: When SSID Broadcast is enabled, all wireless clients will be able to view the WLAN Router's SSID.

Channel: Select a transmission channel for wireless communications. The channel of any wireless device must match the channel selected here in order for the wireless device to access the LAN and WAN via the WLAN Router.



4.2.2 Security



Authentication Type: The default authentication type is "open system." There are four options: WEP, WPA, WPA2 and WPA2-Auto.



4.2.2.1 WEP

	Emay 802.11n Wireless Broaddband Rout
WAN	Security
Wireless	Security: @ Enable () Disable
Basic Security	Authentication Type : WEP -
Advanced Wi-Fi Protected Setup	WEP: 💿 Open System 🌑 Share Key 🏶 Auto
LAN	WEP Key Format : HEX -
Routing	WEP Key Langth : 64-bit - WEP Key 1: 000000000
Access Control	WEP Key 2 :
System	WEP Key 3 : 0000000000
attacive.	WEP Key 4 : 0 000000000

WEP: "Open System" and "Shared Key" requires the user to set a WEP key to exchange data with other wireless clients using the same WEP key.

WEP Key Format: Select ASCII or HEX format.

WEP Key Length: Select 64-bit or 128-bit encryption.

Key Length	Hex	ASCII
Туре	characters 0-9, A-F, a-f	alphanumeric format
64-bit	10 characters	5 characters
128-bit	26 characters	13 characters

Key 1: Enables users to create WEP keys with <u>WPS enabled</u>. Manually enter a set of values for Key 1.

Note:

Key 1 ~ Key 4: Enables users to create up to 4 different WEP keys with <u>WPS disabled</u>. Manually enter a set of values for each key. Select a key to use by clicking the radio button next to the key.



4.2.2.2 WPA/WPA2/WPA-Auto with EAP

- waxing connection	
WAN	Security
Wireless	Security : Enable Disable
Basic	Authentication Type : WPA -
Security Advanced Wi-Fi Protected Setup	Encryption Type : TKIP AES AUTO PSK / EAP : PSK
Routing	
Access Control	Radius Server 1 IP Addess : 0.0.0.0 Port : 1812
System	Shared Secret :
140	

If "WPA, WPA2 or WPA2-Auto" with EAP is selected, the screen above will appear.

Please set the length of the encryption key and the parameters for the RADIUS server.

Encryption Type: Select the encryption type for TKIP, AES or AUTO encryption.

Note:

TKIP is available for **B** or **G WLAN Band** only. The WLAN Band setting is under Wireless/Advanced.

RADIUS Server 1: Enter the IP address, Port, and Shared Secret.



4.2.2.3 WPA/WPA2/WPA2-Auto Security with PSK

	Easy - 802.11n Wireless Broaddband Router
WAN	Security
Wireless	Security : 🔘 Enable 🔘 Disable
Basic	Authentication Type : WPA -
Security	
Advanced Wi-Fi Protected Setup	Encryption Type : O TKIP @ AES O AUTO
LAN	PSK/EAP: 💽 PSK 💿 EAP
Routing	
Access Control	Passphrase : •••••••••••••••••••••••••••••••••••
System	
Wizard	Cancel O Apply

If "WPA, WPA2 or WPA2-Auto" with PSK is selected, the screen above will appear.

Encryption Type: Select the encryption type for TKIP, AES or AUTO encryption.

Note:

TKIP is available for **B** or **G WLAN Band** only. The WLAN Band setting is under Wireless/Advanced.

Passphrase: The length should be at least 8 characters.



4.2.3 Advanced

This screen enables users to configure advanced wireless functions.

Advanced		
Beacon Interval :	100	(defaule : 100 msec , range : 25 ~ 1000)
RTS Threshold :	2346	(defaule : 2346 , range : 256 ~ 2346)
Fragmentation Threshold :	2346	(defaule : 2346 , range : 1500 ~ 2346)
DTIM Interval :	1	(default : 1, range : 1 ~ 255)

Beacon Interval: Type the beacon interval in the text box. User can specify a value from 25 to 1000. The default beacon interval is 100.

RTS Threshold: Type the RTS (Request-To-Send) threshold in the text box. This value stabilizes data flow. If data flow is irregular, choose values between 256 and 2346 until data flow is normalized.

Fragmentation Threshold: Type the fragmentation threshold in the text box. If packet transfer error rates are high, choose values between 1500 and 2346 until packet transfer rates are minimized. (NOTE: set this fragmentation threshold value may diminish system performance.)

DTIM Interval: Type a DTIM (Delivery Traffic Indication Message) interval in the text box.



4.2.4 Wi-Fi Protected Setup

This screen enables users to configure the Wi-Fi Protected Setup (WPS) function.

	ROMES no Easy —	802.11n Wi	ireless Broadband Router
WAN	Wi-Fi Protected Setur	2	
Wireless	WPS :	Enable	
Basic Security Advanced Wi-Fi Protected Setup LAN	Status : Self-PIN Number : Client PIN Number : Push Button Configuration :	UnConfigured © Co 28512882 Start PBC	nfigured lant PIN
Routing	Authentication WPA2 PSK	AES	Key test1234
Access Control			
System			Cancel V Apply
Wizard			

WPS: Enable or Disable the WPS (Wi-Fi Protected Setup) function

Status: Display the status (Un-configured State/Configured State) information of WPS.

Self-PIN Number: Display the current PIN number of the WLAN Router.

Client PIN Number: Type Client's PIN number to negotiate with the WLAN Router via WPS connection. A client can be a network card, IP camera, and etc.

Push Button Configuration: Clicking the *Start PBC* button will invoke the Push Button Configuration (PBC) method of WPS. Push the WPS button on the client side when users want their station to join Router's network.



4.3 LAN

This section allows the user to configure LAN and DHCP properties.

	RONICS		802	2.11n Wi	reless E	roadba	and Rout
WAN	Basic						
Wireless		Host Name :	Encore				
LAN		IP Address :	192.168.10.1				
Basic		Subnet Mask :	255.255.255.0)			
DHCP							
Routing							
Access Control					8	ancel	Apply
System							
Winned							

Host Name: Type the host name in the text box. The host name is required by some ISPs. The default host name is "Encore."

IP Address: This is the IP address of the WLAN Router. The default IP address is **192.168.10.1**.

Subnet Mask: Type the subnet mask for the WLAN Router in the text box. The default subnet mask is 255.255.255.0.



4.3.2 DHCP

Enable the DHCP server to allow the WLAN Router to automatically assign IP addresses to devices connecting to the LAN. DHCP is enabled by default.

All DHCP client computers are listed in the table at the bottom of the screen, providing the host name, IP address, and MAC address of the clients.

Start IP: Type an IP address to serve as the start of the IP range that DHCP will use to assign IP addresses to all LAN devices connected to the WLAN Router.

End IP: Type an IP address to serve as the end of the IP range that DHCP will use to assign IP addresses to all LAN devices connected to the WLAN Router.

Lease Time: The lease time specifies the amount of connection time a network user is allowed with their current dynamic IP address.



4.4 Routing

4.4.1 Static

This section allows the user to setup Static or Dynamic Routing.

	RONICS	803	11- 11/1-1	Duesdhau	-l D
— Making Connection	ns Easy —	802	. I In wireless	broadban	ακου
WAN	Static				
Wireless	Network Address :				
LAN	Network Mask :				
Routing	Gateway Address : Interface :	LAN -			
Static	Matric :				
Dynamic Routing Table					
Access Control			Add Upo	late Delete	Clear
	Network Address	Network Mask	Network Gateway	Interface	Metric

Network Address: Enter the target's IP Address in the textbox.

Network Mask: Enter the Subnet Mask in the textbox.

Gateway Address: Enter the Gateway IP Address in the textbox.

Interface: Select "LAN" or "WAN" from drop-down list.

Metric: Enter the number of 'hops' in the textbox. Normally you can set the value to '0'.

Click the " $\ensuremath{\text{Add}}\xspace$ " button to save the settings.



4.4.2 Dynamic

Dynamic routing is a technique developed to automatically adjust routing tables in the event of network failures. The most common dynamic routing protocols is RIP (Routing Information Protocol), which is very common on small networks.

	RES ENNES 198 Easy — 802.11n Wireless Broadband Router
WAN	Dynamic
Wireless	NAT :
LAN	Transmit :
Routing	
Static	Cancel Apply
Dynamic Routing Table	
Access Control	
System	
Wizard	

4.4.3 Routing Table

This section shows information of routing table.

	DRE RONIGS	8(02.11n Wir	eless Broa	dbano	d Rout
WAN	Routing Table					
Wireless	Network Address	Network Mask	Network Gateway	Interface	Metric	Туре
LAN	239.255.255.250 192.168.10.0	255.255.255.255 255.255.255.0	0.0.0.0	LAN	0	Dynamic Dynamic
Routing						
Static						
Dynamic						
Routing Table						
Access Control						



4.5 Access Control

This section enables you to define access restrictions, set up protocol and IP filters, create virtual servers, define access for special applications such as games, and set up firewall rules.

4.5.1 Filters

The filters deny or allow users to access the internet. Four types of filters can be select: MAC, IP, URL/Domain Blocking, and Protocol Filters.

	Seasy – 802. I In windows: Broaddband Router
WAN	Filters
Wireless	Filters are used to allow or deny LAN users from accessing the Internet.
	MAC Filters
LAN	IP Filters
Routing	URL/Domain Blocking
Access Control	Protocol Filters
Filter	
Virtual Server	MAC Filter
Special AP	Disabled
DMZ	Only allow computers with MAC address listed below to access the network
Firewall Rule	Only denv computers with MAC address listed below to access the network
System	anniv
Wizard	Арру
	MAC Table





4.5.1.1 MAC Filters

WAN	Filters
Wireless	Filters are used to allow or deny LAN users from accessing the Internet.
LAN	MAC Fitters
Routing	URL/Domain Blocking
Access Control	Protocol Fitters
Filter	
Virtual Server	MAC Filter
Special AP	Disabled
DMZ	Only allow computers with MAC address listed below to access the network
Firewall Rule	
System	Only deny computers with MAC address listed below to access the network Anniv
Wizard	
	MAC Table
	Name :
	MAC Address :
	(Add) [Update] [Delete] [Clear
	Name MAC Address

MAC Filter: Enables you to allow or deny accessing the internet.

- **Disabled:** Disable the MAC Filter function.
- Allow: Only allow network devices with MAC address listed in the MAC Table.
- Deny: Network devices in the MAC Table are denied accessing the Internet.

MAC Table: Use this section to register network devices. According to your choice, the registered network devices can be allowed or denied accessing the Internet. The registered network devices are listed in the table at the bottom of the page. (**Note**: By clicking on the name of a resisted network device in the table at the bottom, you can update the device information.)

Name:Type the name of the user to be permitted/denied access.MAC Address:Type the MAC address of the user's network interface.

- Add: Click to add a network device
- Update: Click to update a saved network device
- **Delete:** Click on a network device from the table at the bottom and then click "Delete" to remove the device

• **Clear**: Click "Clear" to erase all fields and enter new information.



4.5.1.2 IP Filter

	ons Easy — 802.11n Wireless Broaddband Rout
WAN	Filters
Wireless	Filters are used to allow or deny LAN users from accessing the Internet.
LAN	MAC Filters P Filters
Routing	URL/Domain Blocking
Access Control	Protocol Fitters
Fiter Virtual Server Special AP DMZ Firewall Rule	IP Filter Enabled : © Enable © Disabled Range Start : Range End :
System	Add Update Delete Gear
Wizard	

Specify an IP Range by entering "Range Start" and "Range End." If enabled, network devices with IP within the defined ranges are denied accessing the Internet.

- Add: Click to add an IP Range to the table at the bottom
- Update: Click to update information of an IP Range you saved
- Delete: Select a saved IP Range and click "Delete" to remove the item from the list.
- Clear: Click the "Clear" to erase all saved IP ranges

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4.5.1.3 URL/Domain Blocking

You can specify the domains that can be accessed from the Internet or not.

WAN	riters		
Wireless	Filters are used to allow or deny LAN users from accessing the Internet.		
AN	MAC Filters		
	IP Filters		
Routing	URL/Domain Blocking		
Access Control	Protocol Filters		
Filter			
Virtual Server	Domain Blocking		
Special AP	Disabled		
DMZ	Allow users to access all domains except "Blocked Domains"		
Firewall Rule	Denv users to access all domains except "Permitted Domains"		
System			
Alizzand	Apply		
wizard			
	Blocked Domains		
	www.test123.com		
	Delete		

Domain Blocking

- **Disable:** Disable the Domain/URL Blocking function.
- Allow: Allow users to access all domains except "Blocked Domains."
- Deny: Deny users to access all domains except "Permitted Domains."

Note: When "Allow" is checked, the circle area will become "Permitted Domains."

When "Deny" is checked, the circle area will become "Blocked Domains."

Blocked/Permitted Domains:

- Delete: Select a Domain/URL from the table at the bottom and click "Delete" to remove the Domain/URL.
- Add: Click to "Add" to add a Domain/URL to the table at the bottom.
- Cancel: Click the "Cancel" to erase all saved Domain/URL from the table at the bottom.



4.5.1.4 Protocol Filters

You can specify Protocol Filters here.

	Filters			
Wireless	Filters are Internet.	e used to allow or	deny LAN users fron	accessing the
LAN		😸 MAC F	ilters	
Routing		e IP Filte	ers	
Assess Captrol		e URL/E	Iomain Blocking	
Access Control		🤹 Protoc	ol Filters	
Filter				
Virtual Server	Protocol	Filter		
Special AP	110100011	THICT		
DMZ	🖉 Disable	d		
Firewall Rule	🦉 Enabled	d :Deny to access intern	et from LAN when the list	as below item be enable.
System			Apply	
Wirnerd				
wizaru				
Wizard	Edit Proto	col Filter in List		
Wizdi u	Edit Proto	col Filter in List Enabled : 😻 Er	able 🥙 Disabled	
Wizard	Edit Proto	D col Filter in List Enabled : • Er Name :	able 🥙 Disabled	1
Wizaru	Edit Proto	Enabled : W Er Name :	nable 🤨 Disabled	
Wizaru	Edit Proto	Decol Filter in List Enabled : % Er Name : Protocol :	Nable 🤨 Disabled	
TTZ-II U	Edit Proto	Col Filter in List Enabled :	able C Disabled	
WIZERU	Edit Proto	Enabled :	Add	Update Delete (
WILE U	Edit Proto	Name	Add Protocol	Update Delete (
WIZELU	Edit Proto	Cool Filter in List Enabled : W Er Name : Protocol : TCP Port : Name Filter FTP	Add C Protocol	Update Delete (Range 20-21
WIZELU	Edit Prote	Col Filter in List Enabled : • • Er Name : Protocol : TCP Pot : Name Filter FTP Filter HTP	Abbe & Disabled	Update) Delete) (Range 20-21 80

Edit Protocol Filter in List

- Enable: Click to enable or disable a Protocol Filter. •
- Name: Type the name of a Protocol Filter.
- Protocol: Select the protocol (TCP or UDP) of a Protocol Filter.
- Port: Type the port range of a Protocol Filter.



4.5.2 Virtual Server

This section enables user to create a virtual server. If the WLAN Router is set as a virtual server, remote users requesting Web or FTP services through the WAN are directed to local servers in the LAN. The WLAN Router redirects the request via the protocol and port numbers to the correct LAN server.

		and an	
WAII	Virtual Server		
Wireless	Enabled : 🖑 Ena	bled 🖲 Disabled	
LAN	Name :		
Routing	Protocol : TCP -	¥	
Access Control	Public Port :		
Filter	LAN Server		
Virtual Server			
Special AP			
Special AP DMZ	Add Update Del	ete Clear	
Special AP DMZ Firewall Rule	Add Update Del	ete Clear	
Special AP DMZ Firewall Rule	Add Update Del	ete Clear Protocol	LAN Server
Special AP DMZ Firewall Rule System	Add Update Del	ete Clear Protocol	LAN Server
Special AP DMZ Firewall Rule System	Add Update Del Name	Clear Protocol TCP 21/21 TCP 80/80	LAN Server 0.0.0.0 0.0.0.0
Special AP DMZ Firewall Rule System Wizard	Add Update Def Name Virtual Server FTP Virtual Server HTT Virtual Server HTT	ete Clear Protocol P TCP 21/21 TCP 80/80 TCP 443/443	LAN Server 0.0.0.0 0.0.0.0 0.0.0.0
Special AP DMZ Firewall Rule System Wizard	Add Update Del Name Virtual Server FTP Virtual Server HTT Virtual Server TTT Virtual Server DtS	ete Clear Protocol TCP 21/21 Pr TCP 80/80 TCP 443/443 5 UDP 53/53	LAN Server 0.0.0.0 0.0.0.0 0.0.0 0.0.0 0.0.0
Special AP DMZ Firewall Rule System Wizard	Add Update Del Name Virtual Server FTP Virtual Server HTT Virtual Server HTT Virtual Server SMT Virtual Server SMT	eta Clear Protocol TCP 21/21 PTCP 80/80 PS TCP 443/43 DUP 53/53 TCP 25/25	LAN Server 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0
Special AP DMZ Firewall Rule System Wizard	Add Update Del Name Virtual Server FTP Virtual Server HTT Virtual Server DNS Virtual Server DNS Virtual Server POR	etc) Clear Protocol TCP 21/21 TCP 8080 PS TCP 443/443 UDP 53/63 TP TCP 26/25 P3 TCP 110/110	LAN Server 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0
Special AP DMZ Firewall Rule System Wizard	Add Update Del Name Virtual Server FTP Virtual Server HTT Virtual Server HTT Virtual Server SM Virtual Server SM Virtual Server Tof	Clear Protocol TCP 21/21 TCP 80/80 PS TCP 43/443 UCP 53/53 UCP 53/53 TCP 10/110 TCP 25/25 r3 TCP 110/110 ret TCP 23/23	LAN Server 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0
Special AP DMZ Firewall Rule System Wizard	Add Update Del Name Virtual Server FTP Virtual Server HTT Virtual Server TTT Virtual Server POF Virtual Server POF Virtual Server Fof Virtual Server Telf	Clear Protocol TCP 21/21 P TCP 80/80 PS TCP 443/443 0 UP 53/53 TP TCP 25/25 P3 TCP 110/110 NET TCP 23/23 UP 50/500	LAN Server 0.0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0 0.0.0
Special AP DMZ Firewall Rule System Witzard	Add Update Del Name Virtual Server FTP Virtual Server FTT Virtual Server FTT Virtual Server FTT Virtual Server FTT Virtual Server FBT Virtual Server Telr Virtual Server Telr IPSec PFTP	etc) Clear Protocol TCP 21/21 TCP 8080 PS TCP 43/443 UDP 53/83 TP TCP 26/25 P3 TCP 110/110 tCP 23/23 UDP 500/500 TCP 122/1723	LAN Server 0.00.0 0.00.0 0.00.0 0.00.0 0.00.0 0.00.0

Virtual Server

- Enable: Click to enable or disable a Virtual Server.
- Name: Type the name of a Virtual Server.
- Protocol: Select a protocol (TCP or UDP) to use of a Virtual Server.
- **Private Port:** Type the port number of the network device in the LAN that is being used to as a virtual server.
- **Public Port:** Type the port number on the WAN that will be used to provide access to the virtual server.
- LAN Server: Type the LAN IP address that will be assigned to the virtual server.

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WW۱	<i>v</i> .en	cor	e-us	sa.	com	۱



4.5.3 Special AP

This screen enables users to specify special applications (Special AP), such as games which require multiple connections that are blocked by NAT. The special applications profiles are listed in the table at the bottom of the page.

WAII	Special AP		
Wireless	Enabled 0	Enabled * Disabled	
LAN	Name :		3
Routing	Tripper		
Access Control	Pretosof TC	•	
Fitter Virtual Barver	Port Range		
Special AP CM2 Financel Public	Incoming Protocol TO		
System	Pot:		
100 mm	Add Update	Delete Gear	
vinzar u			
VIIZA II	Name	Trigger	personal
witzen.	Name Battle riel	Trigger *8112	+6112

Special AP

- Enable: Click to enable or disable the application profile. When enabled, users will be able to connect to the application via the WLAN Router's WAN connection. Click "Disabled" on a profile to prevent users from accessing the application on the WAN connection.
- Name: Type a descriptive name for the application.

Trigger: Defines the outgoing communication that determines whether the user has legitimate access to the application.

- **Protocol:** Select the protocol (TCP, UDP, or * for TCP+UDP) that can be used to access the application.
- Port Range: Type the port range that can be used to access the application.

Incoming: Defines which incoming communications users are permitted to connect with.

- Protocol: Select the protocol (TCP, UDP, or * for TCP+UDP) that can be used by the incoming communication.
- **Port**: Type the port number that can be used for the incoming communication.



4.5.4 DMZ

This screen enables users to create a DMZ (demilitarized zone) for those computers that cannot access Internet applications properly through the WLAN Router and associated security settings.

Note: Any client in the DMZ is exposed to security risks such as viruses and unauthorized access.

Making Connectio	ns Easy — 802.11n Wireless Broaddband Re
WAN	DMZ
Wireless	Enabled : Enabled Disabled
LAN	DMZ Host IP : 0.0.0.0
Routing	
Access Control	Apply
Filter	
Virtual Server	
Special AP	
DMZ	
Firewall Rule	
System	
14/2	

Enable: Click to enable or disable the DMZ.

DMZ Host IP: Type a host IP address for the DMZ. The computer with this IP address acts as a DMZ host with unlimited Internet access.

Apply: Click to save the settings.



4.5.5 Firewall Rule

This section enables users to set up the firewall. The WLAN Router provides basic firewall functions, by filtering all the packets that enter the WLAN Router using a set of rules. The rules are listed in sequential order--the smaller a rule number, the higher the priority the rule has.

Making Connection	IRONICS	802.1	11n Wire	less Broad	dband Rou
WAN	Firewall Rule	•			
Wireless	Enabled :	Enabled Disabled			
LAN	Name : [C Allow C Denv			
Routing		e Alow e belly			
Access Control	Source : Interface IP R	tange Start IP Range End			
Filter	LAN 👻				
Virtual Server	Destination :				
Special AP	Interface IP R	tange Start IP Range End	Protoc	ol Port Range	
DMZ	LAN 🔻		TCP	-	
Firewall Rule					
System	Add Update	Delete Clear Priority Up) Priority D	own Update	Priority
Wizard	Action	Name	Source	Destination	Protocol
	Allow	Allow to Ping WAN port	WAN,*	WAN,*	ICMP,
	Deny	Default	WAN,*	LAN,*	·
				Commission of the second	

Firewall Rule

- Enable: Click to enable or disable a firewall rule profile.
- Name: Type a descriptive name of a firewall rule profile.
- Action: Select whether to Allow or Deny packets that conform to the rule.

Source: Defines the source of the incoming packet that the rule is applied to.

- Interface: Select which interface (WAN or LAN) the rule is applied to.
- IP Range Start: Type the start IP address that the rule is applied to.
- IP Range End: Type the end IP address that the rule is applied to.

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Destination: Defines the destination of the incoming packet that the rule is applied to.

- Interface: Select which interface (WAN or LAN) the rule is applied to.
- **IP Range Start:** Type the starting IP address that the rule is applied to.
- IP Range End: Type the ending IP address that the rule is applied to.
- Protocol: Select the protocol (TCP, UDP, or ICMP) of the rule.
- Port Range: Specify the port range.

Bottom Table

- Add: Click to add the rule profile to the table at the bottom of the screen.
- Update: Click to update a saved rule
- Delete: Select a saved rule and click "Delete" to remove the rule from the list.
- Clear: Click "Clear" to erase all saved rules
- **Priority Up:** Select a saved rule and click "Priority Up" to increase the priority of the rule.
- **Priority Down:** Select a saved rule and click "Priority Down" to decrease the priority of the rule.
- **Update Priority:** After increasing or decreasing the priority of a rule, click "Update Priority" to save the changes.





4.6 System

This selection allows users to view the status of the WLAN Router's LAN (Local Area Network/normally your home or office network), WAN (Wide Area Network) and Wireless connections, and view logs and statistics pertaining to connections and packet transfers.

4.6.1 Password

This section allows users to set administrative and user passwords. These passwords are used to gain access to the WLAN Router interface.

	ns Easy — 802,11n Wireless Broaddband Router
WAN	Password
Wireless	Administrator (The login name is "admin")
LAN	New Password :
Routing	
Access Control	USEF (The login name is "user") New Password :
System	Confirm Password :
Password	
Time	
Device Information	Cancel Apply
Log	
Log Setting	

Administrator: Type the password the Administrator will use to log into the system.

User: Type the password the User will use to log in to the system.



4.6.2 Time

This section allows users to set the time and date for the WLAN Router's real-time clock, select time zone, and enable or disable daylight saving.

WAN	Time
Wireless	Local Time : May/26/2010 12:08:55
LAN	Time Zone : (GMT-08:00) Pacific Time (US & Canada)
Routing	Time Setting
Access Control	Synchronize the Clock with NTP Server : Enable Disable NTP Server : (default)
System	
Password	Manually Date and Time Setting
Time	2010 V Month May V Day 20 V Hour 12 V Minute 08 V Second 55 V
Device Information	Cat Computer Tax
Log	Ser Computer Time
Log Setting	
Log Setting Statistic	Daylight Saving
Log Setting Statistic Restart	Daylight Saving Daylight Saving: C Enabled Disabled
Log Setting Statistic Restart Firmware	Daylight Saving Daylight Saving : O Enabled @ Disabled
Log Setting Statistic Restart Firmware Configuration	Daylight Saving © Enabled @ Disabled Start Jan = 01 + End Jan = 01 +

Time

- Local Time: Displays the local time and date.
- Time Zone: Select the time zone from the drop-down list.

Time Setting

• Synchronize the clock with NTP server: Enables or Disable the system time from NTP Server.

Manually Date and Time Setting:After you disabled "Synchronize the Clockwith NTP Server," you can manually set the WLAN Router system time, and then press the"Set Computer Time" to update the system time.

Daylight Saving: Enables or Disable daylight saving time. When enabled, select the Start and End date for daylight saving time.





4.6.3 Device Information

This section allows users to view the WLAN Router's LAN, WAN, and Wireless configurations.

	RONIGS HINS Easy —	802.11n Wireless Broaddband Router
WAN	Device Informatio	n
Wireless	WAN	
LAN	MAC Address :	00-e0-4c-81-96-c9 DHCP Client Disconnected
Routing	IP Address :	DHCP Release DHCP Renew 0.0.0.0
ccess Control	Subnet Mask :	0.0.0.0
ystem	Default Gateway : DNS :	0.0.0.0
Fime	Wireless	
Device Information	Connection :	802.11n AP Enable
og Setting	SSID :	ENHWI-1AN4
Statistic	Channel :	11
Restart	Antenna Power :	Full
Firmware Configuration	Authentication Type :	Disabled

WAN: This section displays the WAN (Wide Are Network) interface configuration including the MAC address, Connection Status, DHCP Client Status, IP Address, Subnet Mask, Default Gateway, and DNS.

 Click "DHCP Release" to release all IP addresses assigned to client network devices connected to the WAN via the WLAN Router. Click "DHCP Renew" to reassign IP addresses to client stations connected to the WAN.

Wireless: This section displays the wireless configuration information, including the MAC Address, the Connection Status, SSID, Channel, and Authentication Type.

LAN: This section displays the LAN (Local Are Network) interface configuration including the MAC Address, IP Address, Subnet Mask, and DHCP Server Status. Click "DHCP Table" to view a list of client networking devices currently connected to the WLAN Router's LAN interface.



4.6.4 Log

This screen enables users to view the on-going log of Router system's statistics, events, and activities. The log displays up to 200 entries. Older entries are overwritten by new entries. The Log screen commands are as follows:

- Click "First Page" to view the first page of the log
- Click "Last Page" to view the final page of the log
- Click "Previous Page" to view the page just before the current page
- Click "Next Page" to view the page just after the current page
- Click "Clear Log" to delete the contents of the log and begin a new log
- Click "Refresh" to renew log statistics

	RE [®] RONIGE ns Easy —	802	.11n Wire	eless Broad	idband I
WAN	Log				
Vireless	Page 1 of 20				
.AN	First Page Refresh	LastPage Previ	ious Page	Next Page	Clear Log
Routing	Time	Message	Source	Destination	Note
ccess Control	May/26/2010 12:27:16	DHCP Discover			
	May/26/2010 12:27:06	DHCP Discover no response			
System	May/26/2010 12:27:02	DHCP Discover			
Password Time	May/26/2010 12:26:59	DHCP Discover			
Device Information	May/26/2010	DHCP Discover			
.og	May/26/2010	DHCP Discover no			
Statistic	May/26/2010	DHCP Discover			
Restart	May/26/2010	DHCP Discover			
Firmware	May/26/2010	DHCP Discover			



4.6.5 Log Setting

This section allows users to set the Router Log's parameters.

Making Connection	s Easy —	802.11n Wireless Broaddband Ro
WAN	Log Setting	
Wireless	SMTP Authentication :	🔿 Enabled 🖲 Disabled
LAN	SMTP Account :	
	SMTP Password :	
Routing	SMTP Server / IP Address :	
Access Control	Send From :	(email address)
System	Send to :	(email address)
Password	Sution Server	0.0.0.0
Time	cystog Derver .	0.0.0.0
Device Information		
Log	Log Type	
Log Setting		System Activity
Statistic		Debug Information
Restart		
Firmware	(<u>)</u>	Attacks
Configuration	E	Dropped Packets
UPnP		Notice
Ping Test		

Log Setting

- SMTP Authentication: Selected Enabled if the SMTP server needs authentication
- **SMTP Account:** If the SMTP Authentication is enabled, fill in the SMTP account name here.
- SMTP Password: If the SMTP Authentication is enabled, fill in the password here.
- SMTP Server / IP Address: Type your SMTP server address here.
- Send From: Type an email address for the log to be sent from.
- Send to: Type an email address for the log to be sent to. Click "*Email Log Now*" to send the current log immediately.
- **Syslog Server:** Type the IP address of the Syslog Server if user wants the WLAN Router to receive incoming Syslog messages.



E-mail Logs: Email the logs to specified email receiver.

- When log is full When the time is "When log is full," the log will be sent when the log is full
- Every day, Every Monday ... The log is sent on the interval specified.
 - o If "Every day" is selected, the log is sent everyday.
 - o If the day is specified, the log is sent once per week, on the specified day.
 - Select the time of day you wish the E-mail to be sent.
 - \circ $\$ If the log is full before the time specified to send it, it will be sent regardless.

Log Type: Enables users to select which items will be included in the log:

- System Activity: Displays information related to WLAN Router operation.
- Debug Information: Displays information related to errors and system malfunctions.
- Attacks: Displays information about any malicious activity on the network.
- **Dropped Packets:** Displays information about packets that have not been transferred successfully.
- Notice: Displays important notices by the system administrator.

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4.6.6 Statistic

This section displays a table that shows the rate of packet transmission via the WLAN Router's LAN, Wireless and WAN ports (in bytes per second).

	RONIG Na Easy —		802.11	n Wireless B	roaddband Router
WAN	Statistic				
Wireless	TUtilization	(Kbytes/sec)	LAN	WAN	Wireless
LAN	Send	Average :	0	0	2
Routing	Receive	Peak : Average : Peak :	34 0 8	0	2 5 5
Access Control					
System			Ret	set	
Password					
Time					
Device Information					
Log					
Log Setting					
Statistic					
Restart					
Firmware					
Configuration					

Click " $\ensuremath{\text{Reset}}$ " to erase all statistics and to begin logging statistics again.



4.6.7 Restart

Click "Restart" to restart the WLAN Router in the event the router is not performing correctly.

	RE [®] SNG	802.11n Wireless Broadband Router
WAN	Restart	
Wireless		Restart
LAN		
Access Control		
System		
Password		
Time		
Device Information		
Log		
Log Setting		
Statistic		
Restart		
Firmware		
Configuration		
UPnP		
Pina Test		



4.6.8 Firmware

This screen enables users to update the WLAN Router's firmware.

	ne Easy — 802.11n Wireless Broadband Router
WAN	Firmware
Wireless	Firmware Version : 3.00.14 , Fri, 15 Oct 2010
LAN	Upgrade Firmware
Routing	Browse
Access Control	
System	Upgrade
Password	
Time	
Device Information	
Log	
Log Setting	
Statistic	
Restart	
Firmware	

Please follow the instructions below:

- 1. Download the latest firmware from the Encore's web site, and save it to your HDD or a disc.
- 2. Click "Browse" and go to the location of the saved firmware file.
- 3. Select the file and click "**Upgrade**" to update the firmware.



4.6.9 Configuration

This section allows users to save and load different settings, and restore the setting to factory default.

— Making Connection	802.11n Wireless Broadband Ro
	Constant of the second s
WAN	Configuration
Wireless	Save Settings
LAN	Save
Routing	
Access Control	Load Settings Browse
System	(a) Load
Password	
Time	Desters Factory Default Cottings
Device Information	Restore Factory Default Settings
Log	Restore
Log Setting	
Statistic	
Restart	
Firmware	
Configuration	
UPnP	
Ping Test	
Remote Management	

Save Settings: Click the "Save" button to back up your setting.

Load Settings: Click "Browse" to find your backup settings file. Then, click "load" to restore your configuration to the backup setting.

Restore Factory Default Settings: Click this button for restore your setting to factory default settings.



4.6.10UPnP

UPnP (Universal Plug and Play) is a networking architecture that provides compatibility among networking equipment, software, and peripherals. The WLAN Router is an UPnP-compatible ROUTER and will with other UPnP devices/software. Check "Enable" if you want to use the UPnP function.

	Easy — 802.11n Wireless Broadband Router
WAN	UPnP
Wireless	UPnP: 🔿 Enable 🖲 Disable
LAN	
Routing	Cancel Cancel
Access Control	
System	
Password	
ïme	
evice Information	
.og	
og Setting	
Statistic	
Restart	
Firmware	
Configuration	
UPnP	
Ping Test	
Remote Management	





4.6.11 Ping Test

The Ping Test enables users to determine whether an IP address or host is present on the Internet. Type the host name or IP address in the text box and click "Ping."

	Reference 802.11r	Wireless Broadband Router
WAN	Ping Test	
Wireless	Host Name or IP address :	Ping
LAN		
Access Control		
System		
Password		
lime		
Device Information		
Log		
Log Setting		
Statistic		
Restart		
Firmware		
Configuration		
UPnP		
Pinn Test		



4.6.12 Remote Management

This section allows users to set up remote management. Using remote management, the WLAN Router can be configured through the WAN via a Web browser. A user name and password are required to perform remote management.

Making Connectio	RONICS Ins Easy 802,11n Wireless Broaddband Route
WAN	Remote Management
Wireless	нттр
LAN	© Enable © Disable Port
Routing	Remote IP Range : From To
Access Control	Allow to Ping WAN port
System	🖷 Enable 💿 Disable
Password Time	Remote IP Range From * To
Device Information	PPTP: 🛞 Enabled 🔿 Disabled
Log Setting	IPSec: Enabled Disabled
Statistic	IDENT Stealth Closed
Prestan	

HTTP: Enables users to set up HTTP access by the Port number, and Remote IP Range for remote management.

Allow to Ping WAN Port: Type a range of Router IP addresses that can be pinged from remote locations

- PPTP: Enables users to set up PPTP access for remote management.
- IPSec: Enables users to set up IPSec access for remote management.

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Chapter 5: Configure the Device as an Access Point

- 1. Connect your Ethernet cable between the WLAN Router and your main router (normally a wired router) with Internet connection and enabled DHCP Server.
- 2. Login to the WLAN Router's web-based configuration page
- 3. **Disable the "DHCP Server,"** and then click the "Apply."

WAN	DHCP
Wireless	DHCP Server :
LAN	DHCP Server Start IP 102,168,10.100
Basic	DHCP Server End IP : 192.168.10.200
OHCP	Lease Time : 1 Week -
Routing	
Assass (Canton)	Add Static DHCP
Access Control	Static DHCP : O Enable O Disable
System	Name :
Wizard	MAC address :
	P address :

4. Wait for few second to save change. Please click the "BACK" button if the WLAN Router does not go back to the previously screen.

Making Connections Easy	802.11n Wireless Broadband Router
	The device is restarting



5. Disable "NAT," and then click the "Apply,"



6. Wait for a few seconds for new setting to active. Click "Back" if router does not go back to the previously screen automatically.







Appendix A. Regulatory Information

A1. Federal Communication Commission Interference Statement

This 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 in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there 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 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 circuit different from that to which the receiver is connected.

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

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

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

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.



A2. Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

EN 60 950-1: 2001 +A11: 2004

Safety of Information Technology Equipment

EN 50385: 2002

Product standard to demonstrate the compliance of radio base stations and fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to human exposure to radio frequency electromagnetic fields (110MHz - 40 GHz) - General public

EN 300 328 V1.7.1 (2006-10)

Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 301 489-1 V1.6.1 (2005-09)

Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-17 V1.2.1 (2002-08)

Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 - 2483.5 MHz. For detailed information the end-user should contact the national spectrum authority in France.



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Cs Česky [Czech]	Encore Electronics Inc. tímto prohlašuje, že tento ENHWI-1AN4X / ENHWI-2AN4X je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.	
da Dansk [Danish]	Undertegnede Encore Electronics Inc erklærer herved, at følgende udstyr ENHWI-1AN4X / ENHWI-2AN4X overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.	
de Deutsch [German]	Hiermit erklärt Encore Electronics Inc, dass sich das Gerät ENHWI-1AN4X / ENHWI-2AN4X in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.	
et Eesti [Estonian]	Käesolevaga kinnitab Encore Electronics Inc seadme ENHWI-1AN4X / ENHWI-2AN4X vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.	
en English	Hereby, Encore Electronics Inc, declares that this ENHWI-1AN4X / ENHWI-2AN4X is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.	
es Español [Spanish]	Por medio de la presente Encore Electronics Inc declara que el ENHWI-1AN4X / ENHWI-2AN4X cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.	
el Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Encore Electronics Inc ΔΗΛΩΝΕΙ ΟΤΙ ΕΝΗΨΙ-1ΑΝ4Χ / ΕΝΗΨΙ-2ΑΝ4Χ ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.	
fr Français [French]	Par la présente Encore Electronics Inc déclare que l'appareil ENHWI-1AN4X / ENHWI-2AN4X est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.	
Italiano [Italian]	Con la presente Encore Electronics Inc dichiara che questo ENHWI-1AN4X / ENHWI-2AN4X è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.	
Latviski [Latvian]	Ar šo Encore Electronics Inc deklarē, ka ENHWI-1AN4X / ENHWI-2AN4X atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.	
Lietuvių [Lithuanian]	Šiuo Encore Electronics Inc deklaruoja, kad šis ENHWI-1AN4X / ENHWI-2AN4X atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.	
Nederlands [Dutch]	Hierbij verklaart Encore Electronics Inc dat het toestel ENHWI-1AN4X / ENHWI-2AN4X in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.	
mt Malti [Maltese]	Hawnhekk, Encore Electronics Inc, jiddikjara li dan ENHWI-1AN4X / ENHWI-2AN4X jikkonforma mal-ħtiģijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.	
hu Magyar [Hungarian]	Alulírott, Encore Electronics Inc nyilatkozom, hogy a ENHWI-1AN4X / ENHWI-2AN4X megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.	
Pl Polski [Polish]	Niniejszym Encore Electronics Inc oświadcza, że ENHWI-1AN4X / ENHWI-2AN4X jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.	
Pt Português [Portuguese]	Encore Electronics Inc declara que este ENHWI-1AN4X / ENHWI-2AN4X está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.	
Slovensko [Slovenian]	Encore Electronics Inc izjavlja, da je ta ENHWI-1AN4X / ENHWI-2AN4X v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.	
Slovensky [Slovak]	Encore Electronics Inc týmto vyhlasuje, že ENHWI-1AN4X / ENHWI-2AN4X spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.	
fi Suomi [Finnish]	Encore Electronics Inc vakuuttaa täten että ENHWI-1AN4X / ENHWI-2AN4X tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.	
۶۷ Svenska [Swedish]	Härmed intygar Encore Electronics Inc att denna ENHWI-1AN4X / ENHWI-2AN4X står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta	

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bestämmelser som framgår av direktiv 1999/5/EG.



Appendix B. Software End User License Agreement

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FCC WARNING

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.

This device must be installed to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

NOTE 1: This 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 in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there 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 circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

NOTE 3: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.







Our local tech support specialists are ready to help 24/7.



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