

# **Configuring Your Macintosh Computer**

You may find that the instructions here do not exactly match your screen. This is because these steps and screenshots were created using Mac OS 8.5. Mac OS 7.x and above are all very similar, but may not be identical to Mac OS 8.5.

## **Step 1. Configure TCP/IP Settings**

After you have completed the hardware setup, you need to configure your computer to connect to your Rhine II. You need to determine how your ISP issues your IP address. Many ISPs issue these numbers automatically using a networking technology known as Dynamic Host Control Protocol, or DHCP. Other ISPs will specify your IP address and associated numbers, which you must enter manually. This is also known as a static IP address. How your ISP assigns your IP address determines how you will configure your computer.

Here is what to do:

1. Pull down the Apple Menu. Click "Control Panels" and select TCP/IP.



2. In the TCP/IP dialog box, make sure that "Ethernet" is selected in the "Connect Via:" field.

If "Using DHCP Server" is already selected in the "Configure" field, your computer is already configured for DHCP. Close the TCP/IP dialog box, and skip to Step 2 "Disable HTTP Proxy."



- 3. All the information that you need to record is on the "TCP/IP" dialog box. Use the space below to record the information.
- 4. After writing down your IP settings, select "Using DHCP Server" in the "Configure" field and close the window.
- 5. Another box will appear asking whether you want to save your TCP/IP settings. Click Save.





<b>TCP/IP Configuration Set</b>	tting
IP Address	·
Subnet Mask	·
Router	·
Name Server	·

### **Step 2. Disable HTTP Proxy**

You will need to verify that the "HTTP Proxy" feature of your Web browser is disabled. This is so that your Web browser will be able to view the configuration pages inside your Rhine II. The following steps are for Internet Explorer and for Netscape. Determine which browser you use and follow the appropriate steps.

### **Internet Explorer**

- 1. Open Internet Explorer and click the stop button. Click "Edit" and select "Preferences."
- 2. In the Internet Explorer Preferences window, under Network, select Proxies.
- 3. Uncheck all checkboxes and click OK.



#### Netscape

1. Open Netscape and click the stop button. Click "Edit" and select "Preferences."

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Or



- In the "Preferences" dialog box, In the left-hand column labeled "Category," select "Advanced." Under the "Advanced" category, select "Proxies."
- 3. Select "Direct Connection to the Internet" and click OK

	Pret	ferences
Category:		
Applications Smart Browning**	Prexies	Configure provides to access the internal
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File Edit View Special Help About This Computer

## Step 3. Obtain IP Settings From Your Rhine II

Now that you have configured your computer to connect to your Rhine II, it needs to obtain new network settings. By releasing any old IP settings and renewing them with settings from your Rhine II, you will also verify that you have configured your computer correctly.

1. Pull down the Apple Menu. Click "Control Panels" and select TCP/IP.



 In the TCP/IP window, your new settings will be shown. Verify that your IP address is now 192.168.0.xxx, your Subnet Mask is 255.255.255.0 and your Default Gateway is 192.168.0.1. These values confirm that your Rhine II is functioning.

3. Close the TCP/IP window.

Now that your computer is configured to connect to your Rhine II, please go to "<u>Configuring Your</u><u>Rhine II</u>" on the next page.



# **Configuring Your Rhine II – Quick Setup**

Now that you have successfully configured your computer and retr ieved your new network settings from your Rhine II, you are ready to configure the Rhine II's settings for your LAN.

- 1. Open your Web browser (i.e., Internet Explorer or Netscape Navigator) and click the stop button.
- 2. In the "Address" field type "http://192.168.0.1" and press <ENTER>.
- 3. The Rhine II login screen will appear. Leave the Password field empty and click on "login". There is no password by default. For security reasons, you should assign a password as soon as possible. Note that the password login in case sensitive.

EtherPortal"	
Login	
Username, <sub>root</sub> Password:	
Prease type ICI and protein	

4. Once the user login successfully, the first page will appear as below:





5. Click on <Quick setup> for step by step configuration.

EtherPortal"	Quick Setup
Time Zone  Sroadband Type  Fill Address Info  Fill Address Info  Fill Cocourt	1. Time Zone         Set the time zone for the EtherPortal. This information is used for log entries and client filtering.         Set Time Zone         (GMT-08:00)Pacific Time (US & Canada); Tijuana         Enable Daylight Savings         Start Daylight Savings Time         January       1         End Daylight Savings Time
	NEXT

6. In step 1 of setup wizard, select the proper time zone and click <NEXT> for next page.





- 7. In this page, there are three types of broadband WAN connection types Cable Modem, Fixed-IP ADSL and PPPoE ADSL. Depending on the connection type of your broadband access, select the proper type. For Cable Modem connection, user may not require to configure anything. In the case of Fixed-IP ADSL connection, user needs to enter the IP address, subnet mask, and gateway provided to you by your service provider. In the case of PPPoE ADSL connection, user needs to enter the USER ADSL connection, user needs to enter the USER.
- 8. Click <OK> when all the fields are entered properly.

At this point your Rhine II should be setup properly. The IP address of the LAN port is 192.168.0.1, and the DHCP server is configured starting from 192.168.0.100. The SSID for the wireless LAN card is "Troy".

# **Configuring Your Rhine II – Basic Configuration**

The main page of basic configuration is shown below.

EtherPortal"	Basic
<ul> <li>System</li> <li>WAN</li> <li>LAN</li> <li>Wireless</li> <li>NAT</li> <li>Tools</li> </ul>	Basic Setup The EtherPortal supports basic setup for System parameters, WAN parametres, LAN parameters and Virtual Server Mapping for Network Address Translation[NAT] We highly recommends that you keep the default settings.
► + HOME ► ECCOUT	

### System Time Zone

Set the proper time zone and the daylight savings for the Rhine II.

that EtherPortal	Basic
System     Time Zone     Password Bettings     WAN     LAN     Windexea	Time Zone Set the time zone for the EtherPortal. This information is used for log entries and client filtening.
<ul> <li>NAT</li> <li>Tools</li> </ul>	Set Time Zone (GMT-08.00)Pacific Time (US & Canada); Tijuana 💽 IT Enable Daylight Savings
HOME	Start Daylight Savings Time January  1 End Daylight Savings Time January  1
	HELF

## **Password Settings**

Set the password of the user. The Idle Time Out value is used for Rhine II to log out automatically when no access to the web after this timeout value.



FilserPortal"		WI	Basic
System     Tima Zona     Pastword Softings     WAN     LAN	Password Settings Set a password to restrict manager remote location (outside of the local	nent access to the EtherPortal network), you must also specif	If you want to manage the EtherPortal from a y the IP address of the remote PC.
<ul> <li>MAT</li> <li>Tools</li> </ul>	Administrator ID :     pox     Current Password :	• Ide Time Out	5 Min
HOME LOCOUT	New Password     Re-Enter Password for Verif	ication:	
			HELP

## WAN Settings

The Rhine II supports 4 types of WAN connection – Dynamic IP (DHCP Client), PPPoE, Static IP and Bridging.



### **Dynamic IP**

Under this mode, Rhine II enables DHCP client to get IP address automatically from your service provider. The Host Name is optional, but may be required by some Service Provider's. The default MAC address is set to the WAN's physical interface on the Rhine II. If required by Service Provider, you use the <Clone MAC Address> button to copy the MAC address of the Network Interface Card installed in your PC and replace the WAN MAC address with this MAC address. If necessary, you can use the <Release> and <Renew> buttons to release and renew the WAN IP address.



EtherPortal"		/_M			Basic	L.
System     WAN     Opsame IP     PProc     Static IP     Static IP     Etday     Kireless     NAT     Tools	Dynamic IP The Host Name is opt the WAN's physical in Address' button to co WAN MAC address y release and renew the Host Name WLA MAC Address 00	tional, but may be re terface on the Ether py the MAC address with this MAC address wWAN IP address WAN IP address	quired by som Portal. If requ of the Netwo is. If necessar	ie Service Provi ired by your Sen rk Interface Carr y, you can use th g, you can use th	der's. The default vice Provider, you f installed in your re "Release" and "	MAC address is set to use the "Clone MAC PC and replace the Renew" buttons to
HOME		Clone Mac Address	Release	Renew		HELP ENTER

### PPPoE

Under this mode, Rhine II is acting as a PPPoE client. Enter the PPPoE user name and password assigned by your Service Provider. The Service Name is normally optional, but may be required by some service providers. Enter a Maximum Idle Time (in seconds) to define a maximum period of time for which the Internet connection is maintained during inactivity. If the connection is inactive for longer than the Maximum Idle Time, then it will be dropped. You can enable the Autoreconnect option to automatically re-establish the connection as soon as you attempt to access the Internet again

EtherPortal"	Basic
► System	PPPoE
WAN     Option R IP     Option     Preas     Style P     Bittging     LAN	Enter the PPPoE user name and password assigned by your Service Provider. The Service Name is normally optional, but may be required by some service providers. Enter a Maximum Ide Time (in seconds) to define a maximum period of time for which the Internet connection is maintained during inactivity. If the connection is inactive for longer than the Maximum Idle Time, then it will be dropped. You can enable the Auto-reconnect option to automatically re-establish the connection as soon as you attempt to access the Internet again.
<ul> <li>Wireless</li> <li>NAT</li> </ul>	If your Internet Service Provider requires the use of PPPoE, enter the information below.
► Tools	
	Use PPPoE Authentication
	User Name :
HOME	Password :
LOCOUT	Please retype your password :
	Service Name :
	Maximum Idle Time in R Auto-reconnect

#### **Static IP**

If your Service Provider has assigned a fixed IP address, enter the assigned IP address, subnet mask and the gateway address provided. Most service providers provide a DNS server for speed and convenience. If there is a DNS server that you would rather use, you need to specify the IP address here.



that EtherPortal	Basic
System     WAN     Opnamic IP     PPPoE     State P     Bridging     LAN     Wireless	Static IP & DNS  If your Service Provider has assigned a fixed IP address; enter the assigned IP address, subnet mask and the gateway address provided. Most service providers provide a DNS servier for speed and convenience. If there is a DNS server that you would rather use, you need to specify the IP address here.  Has your Service Provider given you an IP address and Gateway address?
► NAT ► Tools	Pladdress assigned by your Service Provider . 192 . 0 . 0 . 192 Subnet Mask 233 . 233 . 0 Service Provider Gateway Address 192 . 0 . 0 . 0
HOME	Has your service provider given you a DNS address? Primary DNS Address: P.,

#### Bridging

Under this mode, Rhine II is acting as a layer 2 bridge. In this page, you can enter the IP address for the Rhine II device. This IP address will be used for remote users to access the device. Note that if user select Bridging mode, the default IP in this page will be set to the static IP address in the previous section, the LAN IP address will be set to the same as the IP address in this page, and the DHCP server will be disabled.



### **LAN Settings**

The Rhine II needs to have an IP address of the local network. You can enable DHCP to dynamically allocate IP addresses to your client PCs. When DHCP server is enabled, you need to enter the IP address range for the local hosts.



That EtherPortal			_[	┣		Basic	
- System - WAN - LAN	LAN IP						
NAT	IP address:	192	168	þ	1		
Tools	IP Subnet Mask	256	255	255	lo lo		
	DHCP Server:	@ En	abled C D	isabled			
►► LOCOUT	Lease Ti IP Address Pool	me :	One Wa	ak 💌			
	Start IP	192	163	0	100		
	End IP	192	163	1	119		
	Domain Name	-		-			

## Wireless Settings Channel and SSID

This page allows you to define SSID, Transmission Rate, Basic Rate and Channel ID for wireless connection. In the wireless environment, this gateway can be acting as an wireless access point. These parameters are used for the mobile stations to connect to this access point.



#### Encryption

Rhine II supports 64-bit or 128 bit WEP encryption.



EtherPortal"	Basic
<ul> <li>System</li> <li>WAN</li> <li>LAN</li> <li>Wireless</li> <li>Channel and SSID</li> <li>Encrycton</li> <li>NAT</li> <li>Tools</li> </ul>	Encryption Encryption transmits your data securely over the wireless network. Matching encryption keys must be setup on your Home Wireless Gateway and wireless client devices to use encryption. Do you want to use encryption? WEP Mode : Disabled G4-bit WEP 128-bit WEP
	HELP

When encryption is enabled, user can enter a passphrase to generate the key or simple enter the key. Click <Clear All Keys> button to clear all the key entried.

THON EthserPortal		/	Basic	
System     WAN     LAN     Unreless     Charnel and SSID     Encyclan     NAT     Tools	To create a new se Encryption Method Enter a passphrase a table.	<b>curity key, choose either 64-t</b> 64-bit W and click the Generate button, or	It or 128-bit WEP.	
+++ HOME ++ LOCOUT	Passphrase Default Kay Kay 1: Kay 2 Hey 3 Key 4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Generate	
		Click Apply to save settings and		

### **NAT Settings**

Rhine II is a NAT router. All the IP addresses coming in and going out to Rhine II can be converted between public and private IP addresses. You can configure Rhine II as a virtual server so that remote users accessing services such as the Web or FTP at your local sites via public IP address can be automatically redirected to local servers configured with private IP address. In other words, depending on the requested service (TCP/UDP), the Rhine II redirects the external service request to the appropriate server.



EtherPortal	Basic	
<ul> <li>System</li> <li>WAN</li> <li>LAN</li> <li>Wireless</li> <li>NAT</li> <li>Must Servet</li> <li>Tools</li> </ul>	Virtual Server You can configure the EtherPortal as a virtual server so that remote users accessing services such as the Web or FTP at your local site via public IP addresses can be automatically redirected to local servers configured with private IP addresses. In other words, depending on the requested service (TCP/LOP) port number), the EtherPortal redirects the external service request to the appropriate server (located at another internal IP address).	- (k
+++ HOME	Private IP         Private Part         Type         Public Part           1         192 168.0.         © TCP         © UOP           2         192 168.0.         © TCP         © UOP           3         192 168.0.         © TCP         © UOP           4.         192 168.0.         © TCP         © UOP           4.         192 168.0.         © TCP         ©	



# **Configuring Your Rhine II – Advanced Configuration**

The main page of advanced configuration is shown below.



## Firewall

The EtherPortal provides firewall for client filtering. However, for applications that require unrestricted access to the Internet, you can configure a specific client/server as a demilitarized zone (DMZ).

#### **Client Filtering**

Client filtering allows user to block different type of traffic during a particular time frame. When this feature is enabled, user can enter IP address, port range and protocol type, TCP or UDP, the packets with the specified header will be blocked during the time and date period. When block time <Always> is checked, the specified traffic will be blocked all the time; when <Block> is checked, the specified traffic will be blocked only during the time and date specified in the right hand side. When the right most <Enabled> check box is checked, the entry is activated.

EtherPortal			_			Adv			
<ul> <li>Firewall</li> <li>Cliant Faminal</li> <li>DN2</li> <li>SNMP</li> <li>Tools</li> </ul>	Client Filterin Client litering all port range and pr and date period.	9 ows user to b rotocol type,	block differ TCP or UI	ent type of tra DP, the packe	iffic during a p ats with the sp	articular time acified heade	i frame. Us sr will be bli	er can enter ocked during	P and the time
	Enable Client Filte IF	ning: ⊂ Y a	es 🖻 No	Pert	Туре	Bleck Time	Day	Time	Enabled
	1. 192.188.0			Ч	C UDP	C Block	SUN .	0.00am -	ात
	Z 192 168 0	4		4		IF Always C Black	SUN 💌	0.00am 💌	п
	3, 192 168 0			-1	© TCP C UDP	@ Always © Block	SUN .	0.00am •	e.
	4. 192 168 0	4		4		€ Always C Block	SUN .	0.00am • 0.00am •	п
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## **DMZ (Demilitarized Zone)**

If you have a local client PC that cannot run an Internet application properly from behind the NAT firewall or after configuring a Special Applications trigger port, then you can open the client up to unrestricted two-way Internet access by defining a Virtual DMZ Host.

User enables this feature by select <Yes> in the top of this page. Rhine II supports multiple (up to 8) public IP addresses. The first one is the WAN port address assigned to Rhine II. When an entry is defined, Rhine II maps private client IP address to the public IP address, and vice versa, to provide a 1-to-1 address mapping between private host and public IP address.

van EthverPortal		Advance	
Firewall     Ottent Filening     bit2     SNMP     Toology	DMZ (Demilitarized Zone) If you have a local client PC that car	not run an Internet application properly from behind	Î
- HOME	the NAT frewal or after computing open the client up to unrestricted tw Host.	a Special Applications trigger port, then you can o-way Internet access by defining a Virtual DMZ	
LOCOUT	Enable DMZ: C Yes @ No Multiple PCs can be exposed to the Intern conferencing, or VPN connections. To us	et for two-way communications e.g. Internal garning, video e the DMZ, you must set a static IP address for that PC.	
	Public IP Address	Client PC IP Address	
	1. 192.168.1.66	192.168.0.0	
	2. 0, 0, 0, 0	192.168.0.	
	<b>3</b> . 0 0 0 0	192.168.0.	
	4. 0 0 0	192.168.0.0	1
	5. 0 . 0 . 0	192.168.0.	
	6. 0 0 0	192.168.0.0	
	7. a ja ja ja	192.168.0.0	

### SNMP

The Rhine II supports SNMP feature and standard MIB II alone with some proprietary MIB for configuration. It provides SNMP settings for community and trap information.

#### Community

In the context of SNMP, a relationship between an agent and a set of SNMP managers defines security characteristics. The community concept is a local one, defined at the agent. The agent establishes one community for each desired combination of authentication, access control, and proxy characteristics. Each community is given a unique (within this agent) community name, and the management stations within that community are provided with and must employ the community name in all get operations. The agent may establish a number of communities, with overlapping management station membership.



EtherPortal"	/	₩		Advance
Firewall     SNMP     Dommania     Top     Tools	SNMP Community In the context of SNMP, a relationship b characteristics. The community concep for each desired combination of authen given a unique (within this agent) comm- provided with and must employ the con- communities, with overlapping manage	between an agent and a t is a local one, defined tication, access control unity name, and the ma munity name in all get ment station members!	set of SNN at the age , and proxy inagement operations. hip.	AP managers defines security nt. The agent establishes one community characteristics. Each community is stations within that community are The agent may establish a number of
► LOCOUT	No. 1 2 3 4 5	Community [public [prhote	Access Read • Write • Read • Read •	Vəld R R C
				HELP ENTER

#### Trap

In the context of SNMP, an unsolicited message can be sent by an agent to management station. The purpose is to notify the management station of some unusual event.

	<i>1</i>			NIC.			
Firewall     SNMP	SNMP Trap						
<ul> <li>Community</li> <li>Trail</li> <li>Tools</li> </ul>	in the context of SN to notify the manage	VIP, an u ement st	insolicited ation of s	d message ome unusi	can be se al event.	nt by an agent to ma	nagement station. The
	No.	P Addre	299			Community	Version
HOME	ា	192	D.	- lo	. 192	public	V1 •
LOGOUT	2	192	þ	- p	. 192	private	V2c •
	3	p .	- P	- [P	. p	10	Disabled ·
	34 C	0	0	0	. lo		Disabled •
	5	0	jū -	p	. 0		Disabled 💌



# **Configuring Your Rhine II – Tools**

The tools feature provided for Rhine II include configuration tools – save /restore configuration and restore to factory defaults, system log, firmware upgrade and reset. The main page is shown below.



## **Configuration Tools**

The configuration tools includes backup, restore and restore to factory defaults. The "Backup" tool save the Rhine II's current configuration to a file named "backup\_config.exe" on your PC. You can then use "Restore" tool to restore the saved configuration to the Rhine II. The "Reset to Factory Deafults" tool will force the configuration of Rhine II back to the original factory setting and perform a power reset.



## System Log

You can use the System Log to see the connection status for the Rhine II's WAN/LAN interfaces, firmware and hardware version numbers, any illegal attempts to access your network, as well as information on all DHCP client PCs currently connected to your network.



## **Firmware Upgrade**

The firmware upgrade tool allows you to upgrade the Rhine II system firmware. You need to download the file to your local PC first, and select the target to load. The firmware of Rhine II is divided into two files, one for core firmware, one for the user interface.



## Reset

In the event that the system stops responding correctly or in some way stops functioning, you can perform a reset. Your settings will not be changed. To perform the reset, click on the APPLY button below. You will be asked to confirm your decision. The reset will be complete when the power light stops blinking