

Configuring Your Macintosh Computer

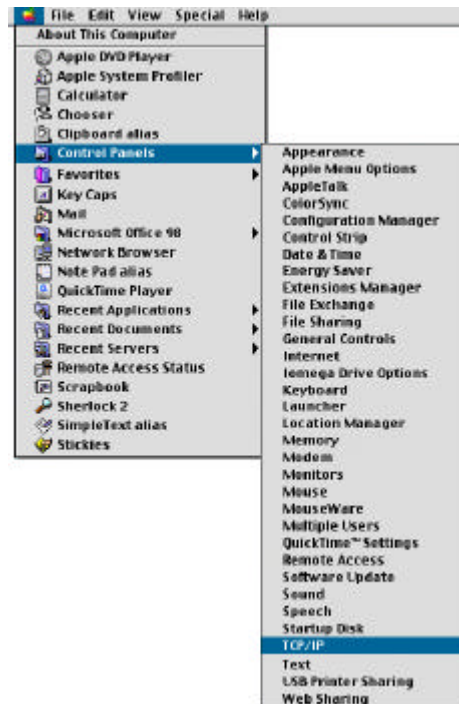
You may find that the instructions here do not exactly match your screen. This is because these steps and screenshots were created using Mac OS 8.5. Mac OS 7.x and above are all very similar, but may not be identical to Mac OS 8.5.

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.

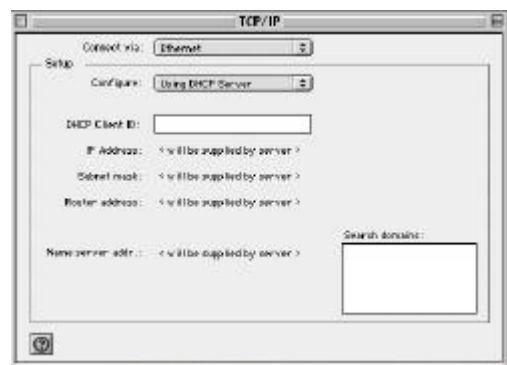
Here is what to do:

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



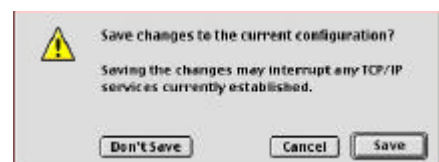
2. In the TCP/IP dialog box, make sure that “Ethernet” is selected in the “Connect Via:” field.

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.



TCP/IP Configuration Setting

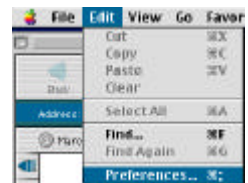
IP Address	____.____.____.____
Subnet Mask	____.____.____.____
Router	____.____.____.____
Name Server	____.____.____.____

Step 2. Disable HTTP Proxy

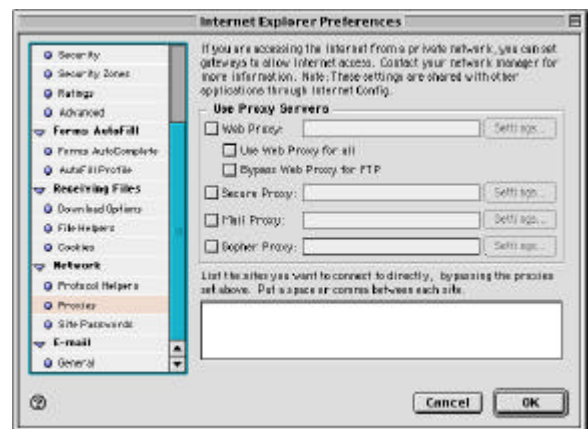
You will need to verify that the “HTTP Proxy” feature of your Web browser is disabled. This is so that your Web browser will be able to view the configuration pages inside your Rhine II. The following steps are for Internet Explorer and for Netscape. Determine which browser you use and follow the appropriate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

Internet Explorer

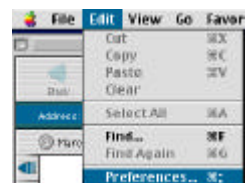
1. Open Internet Explorer and click the stop button. Click “Edit” and select “Preferences.”



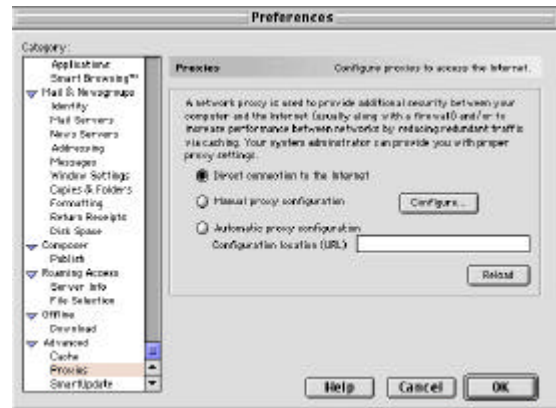
2. In the Internet Explorer Preferences window, under Network, select Proxies.
3. Uncheck all checkboxes and click OK.

**Netscape**

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



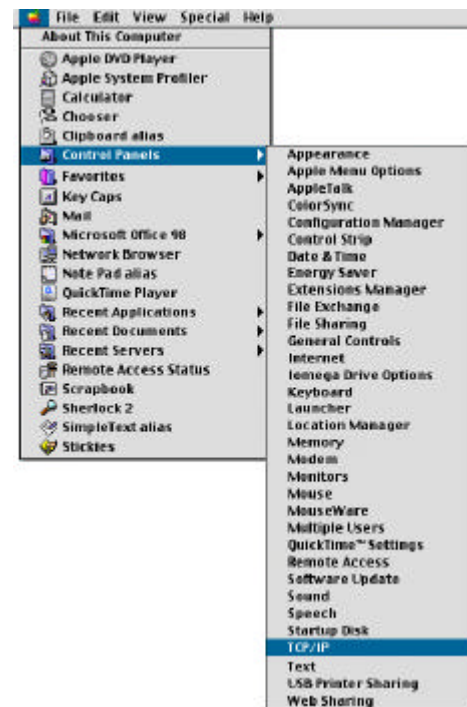
- In the “Preferences” dialog box, In the left-hand column labeled “Category,” select “Advanced.” Under the “Advanced” category, select “Proxies.”
- Select “Direct Connection to the Internet” and click OK



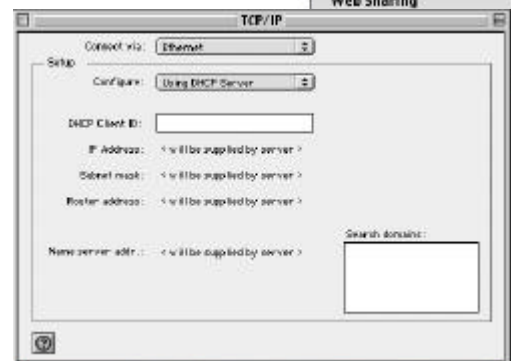
Step 3. Obtain IP Settings From Your Rhine II

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.

- 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.**



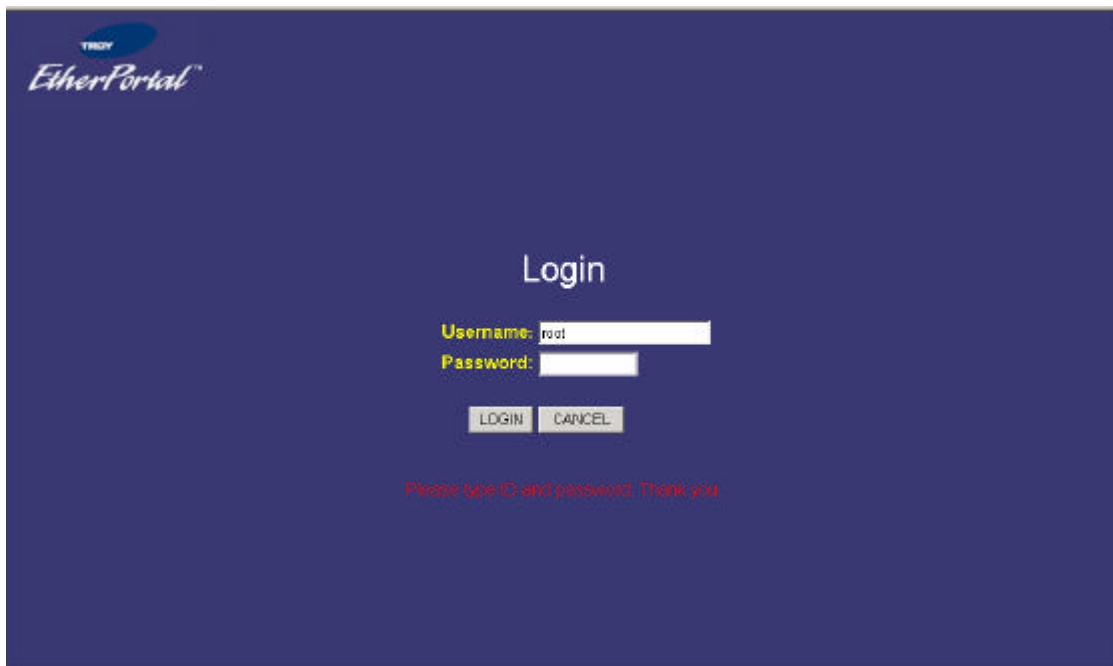
- Close the TCP/IP window.

Now that your computer is configured to connect to your Rhine II, please go to [“Configuring Your Rhine II”](#) on the next page.

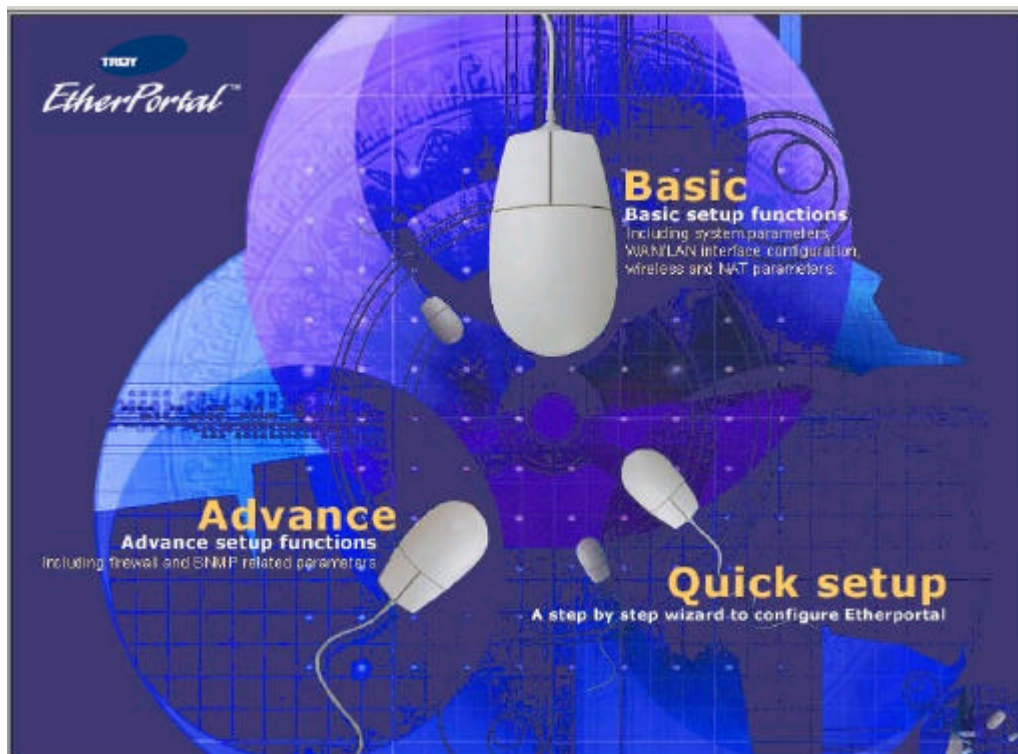
Configuring Your Rhine II – Quick Setup

Now that you have successfully configured your computer and retrieved 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 is case sensitive.



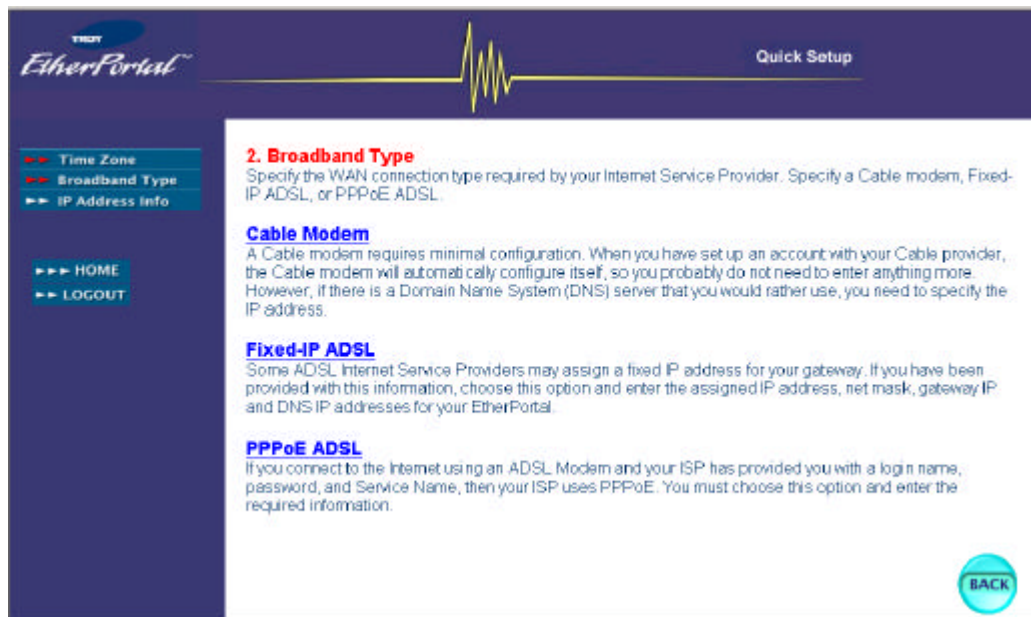
4. Once the user login successfully, the first page will appear as below:



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

The screenshot shows the 'Quick Setup' wizard in the EtherPortal interface. The title bar at the top says 'EtherPortal' and 'Quick Setup'. On the left is a navigation menu with links: 'Time Zone', 'Broadband Type', 'IP Address Info', 'HOME', and 'LOGOUT'. The main content area is titled '1. Time Zone' and contains the following text: 'Set the time zone for the EtherPortal. This information is used for log entries and client filtering.' Below this is a 'Set Time Zone' section with a dropdown menu showing '(GMT-08:00) Pacific Time (US & Canada), Tijuana'. There is an unchecked checkbox for 'Enable Daylight Savings'. Below that are two rows of date pickers: 'Start Daylight Savings Time' and 'End Daylight Savings Time', both set to 'January' and '1'. A green circular button labeled 'NEXT' is in the bottom right corner.

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

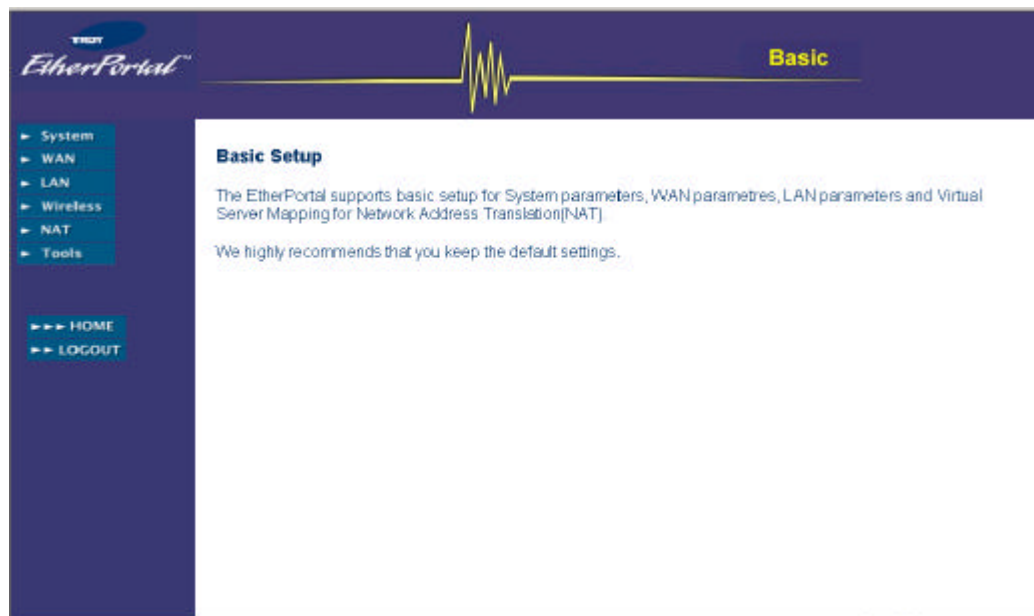


7. In this page, there are three types of broadband WAN connection types – Cable Modem, Fixed-IP ADSL and PPPoE ADSL. Depending on the connection type of your broadband access, select the proper type. For Cable Modem connection, user may not require to configure anything. In the case of Fixed-IP ADSL 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 Name and Password required by your ISP.
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”.

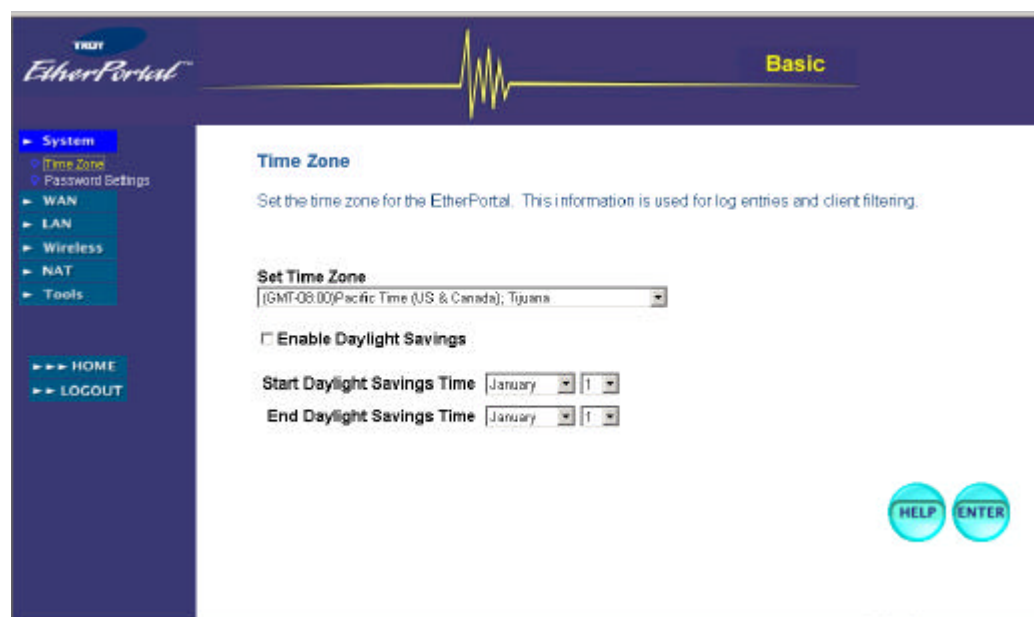
Configuring Your Rhine II – Basic Configuration

The main page of basic configuration is shown below.



System Time Zone

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



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.

Basic

System

- Time Zone
- Password Settings**
- WAN
- LAN
- Wireless
- NAT
- Tools

HOME
LOGOUT

Password Settings

Set a password to restrict management access to the EtherPortal. If you want to manage the EtherPortal from a remote location (outside of the local network), you must also specify the IP address of the remote PC.

- Administrator ID :
- Current Password :
- New Password :
- Re-Enter Password for Verification :
- Idle Time Out : Min

HELP ENTER

WAN Settings

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

Basic

System

- Dynamic IP
- PPPoE
- Static IP
- Bridging
- WAN**
- LAN
- Wireless
- NAT
- Tools

HOME
LOGOUT

WAN Settings

The EtherPortal can be connected to your service provider in any of these ways:

- ☒ **Dynamic IP** : Obtains an IP address automatically from your service provider.
- ☐ **PPPoE** : PPP over Ethernet is a common connection method used for ADSL.
- ☐ **Static IP** : Uses a static IP address. Your service provider gives a static IP address to access Internet services.
- ☐ **Bridging** : Set EtherPortal to Bridging Mode. You can set a IP address to EtherPortal for management.

More Configuration

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.

TRIP EtherPortal™ Basic

Dynamic IP

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 EtherPortal. If required by your 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.

Host Name:

MAC Address: - - - - -

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 Auto-reconnect option to automatically re-establish the connection as soon as you attempt to access the Internet again.

TRIP EtherPortal™ Basic

PPPoE

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 Auto-reconnect option to automatically re-establish the connection as soon as you attempt to access the Internet again.

If your Internet Service Provider requires the use of PPPoE, enter the information on below:

Use PPPoE Authentication

User Name:

Password:

Please retype your password:

Service Name:

Maximum Idle Time:

☒ 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.

YIMMY EtherPortal™ Basic

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 server 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?

IP address assigned by your Service Provider:	192 . 0 . 0 . 192
Subnet Mask:	255 . 255 . 255 . 0
Service Provider Gateway Address:	192 . 0 . 0 . 1

Has your service provider given you a DNS address?

Primary DNS Address:	0 . 0 . 0 . 0
Secondary DNS Address (optional):	0 . 0 . 0 . 0

Navigation: System, WAN (selected), Dynamic IP, PPPoE, Static IP, Bridging, LAN, Wireless, NAT, Tools. Buttons: HOME, LOGOUT.

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.

YIMMY EtherPortal™ Basic

Bridging

Set EtherPortal to Bridging Mode. You can set a IP address to EtherPortal for management.

Your IP address and Subnet Mask?

IP address:	192 . 0 . 0 . 192
Subnet Mask:	255 . 255 . 255 . 0

Navigation: System, WAN (selected), Dynamic IP, PPPoE, Static IP, Bridging, LAN, Wireless, NAT, Tools. Buttons: HOME, LOGOUT. Buttons: HELP, ENTER.

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.

The screenshot shows the 'Basic' configuration page for the 'LAN IP' section. The left sidebar contains a menu with 'System', 'WAN', 'LAN', 'Wireless', 'NAT', and 'Tools'. The 'LAN' option is selected. The main content area has a title 'LAN IP' and a yellow background for the input fields. The 'IP address' is set to 192.168.0.1, 'IP Subnet Mask' is 255.255.255.0, and 'DHCP Server' is 'Enabled'. A 'Lease Time' dropdown is set to 'One Week'. Below this is the 'IP Address Pool' section with 'Start IP' 192.168.0.100, 'End IP' 192.168.0.119, and an empty 'Domain Name' field. At the bottom right are 'HOME' and 'LOGOUT' buttons.

IP address:	192	168	0	1
IP Subnet Mask:	255	255	255	0
DHCP Server:	☒ Enabled ☐ Disabled			
Lease Time:	One Week			
Start IP	192	168	0	100
End IP	192	168	0	119
Domain Name				

Wireless Settings

Channel and SSID

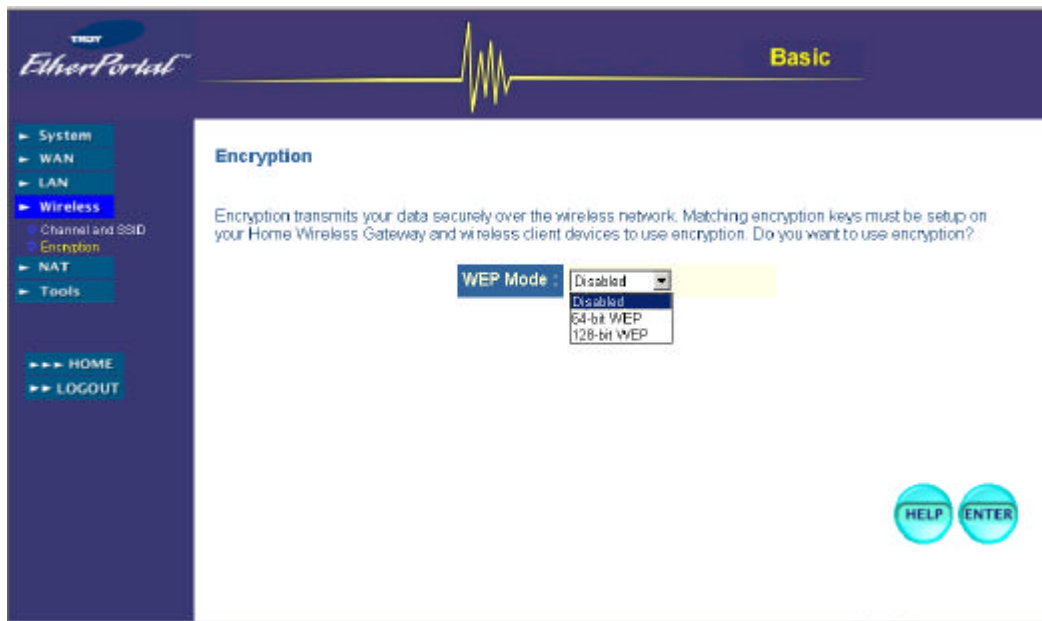
This page allows you to define SSID, Transmission Rate, Basic Rate and Channel ID for wireless connection. In the wireless environment, this gateway can be acting as an wireless access point. These parameters are used for the mobile stations to connect to this access point.

The screenshot shows the 'Basic' configuration page for the 'Channel and SSID' section. The left sidebar menu has 'Wireless' selected, with sub-options 'Channel and SSID' and 'Encryption'. The main content area has a title 'Channel and SSID' and a descriptive paragraph. Below is a table for configuration. At the bottom right are 'HELP' and 'ENTER' buttons.

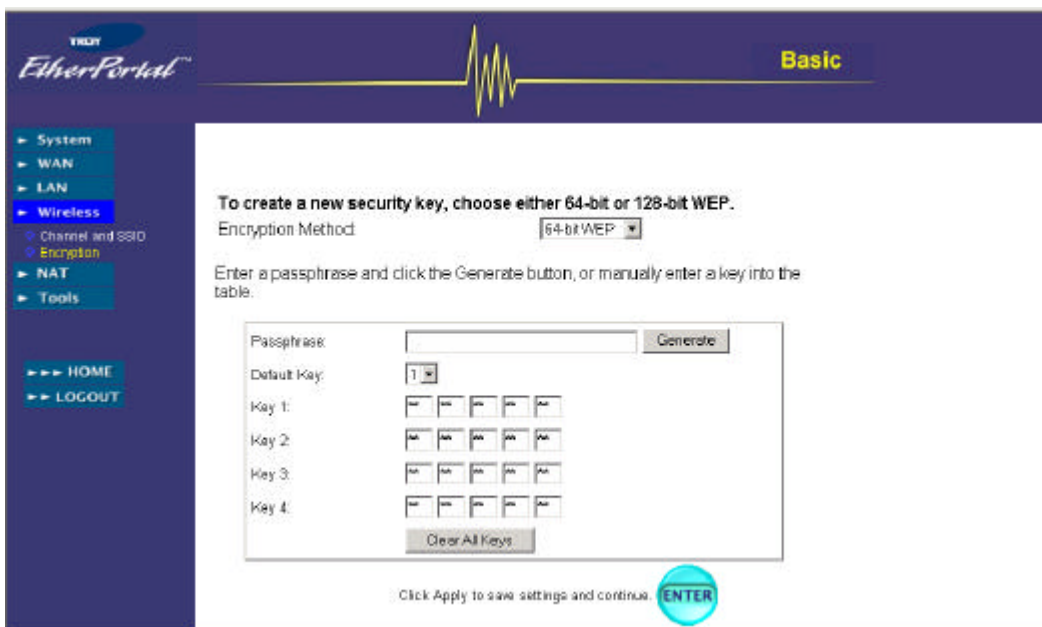
ESSID:	Tray
Transmission Rate:	11Mbps
Basic Rate:	All (1, 2, 5.5, 11Mbps)
Channel:	1

Encryption

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



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.



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.

YHUY

EtherPortal™

Basic

System

WAN

LAN

Wireless

NAT

Virtual Server

Tools

HOME

LOGOUT

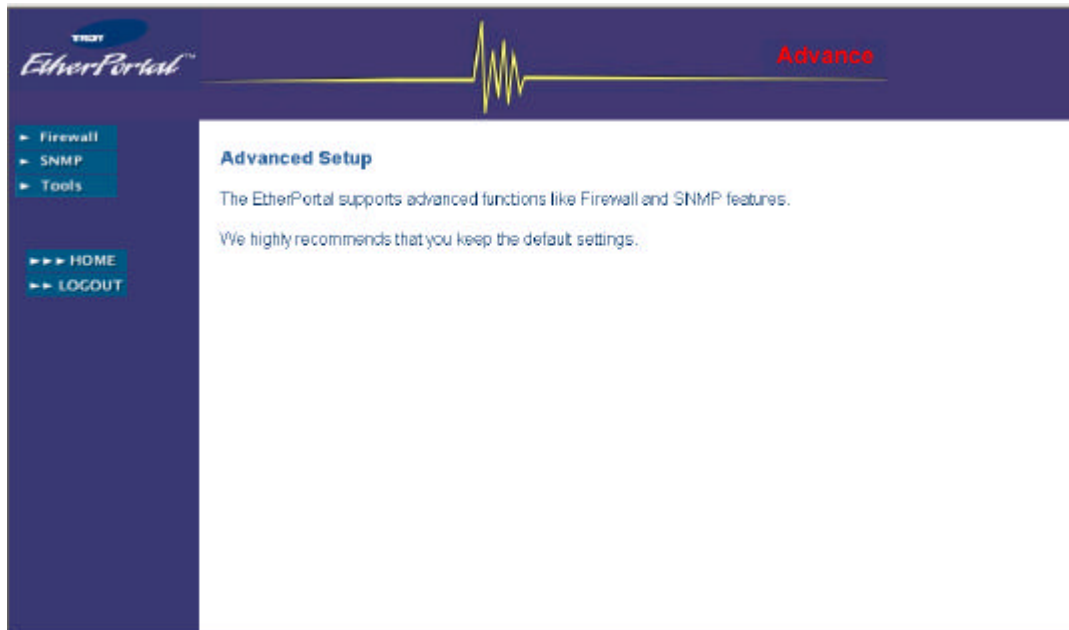
Virtual Server

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/UDP) port number, the EtherPortal redirects the external service request to the appropriate server (located at another internal IP address).

	Private IP	Private Port	Type	Public Port
1.	192.168.0. 		☒ TCP ☐ UDP	
2.	192.168.0. 		☒ TCP ☐ UDP	
3.	192.168.0. 		☒ TCP ☐ UDP	
4.	192.168.0. 		☒ TCP ☐ UDP	
5.	192.168.0. 		☒ TCP ☐ UDP	

Configuring Your Rhine II – Advanced Configuration

The main page of advanced configuration is shown below.

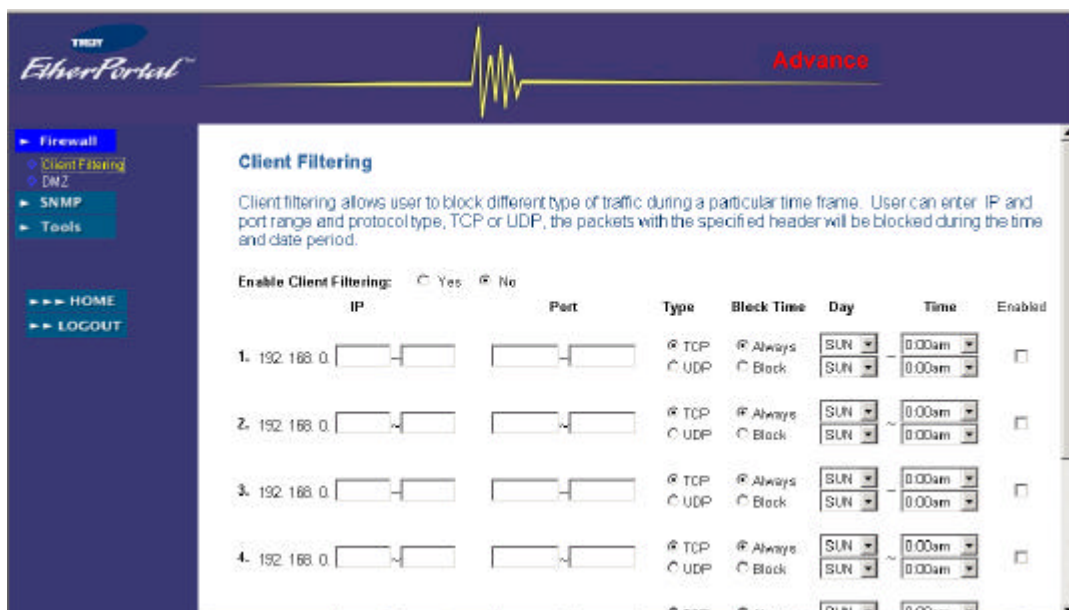


Firewall

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.



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.

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.

Enable DMZ: ☐ Yes ☒ No

Multiple PCs can be exposed to the Internet for two-way communications e.g. Internet gaming, video conferencing, or VPN connections. To use 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]	192.168.0.0
3. [0][0][0][0]	192.168.0.0
4. [0][0][0][0]	192.168.0.0
5. [0][0][0][0]	192.168.0.0
6. [0][0][0][0]	192.168.0.0
7. [0][0][0][0]	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.

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No.	Community	Access	Valid
1	public	Read	☒
2	private	Write	☒
3		Read	☐
4		Read	☐
5		Read	☐

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.

SNMP Trap

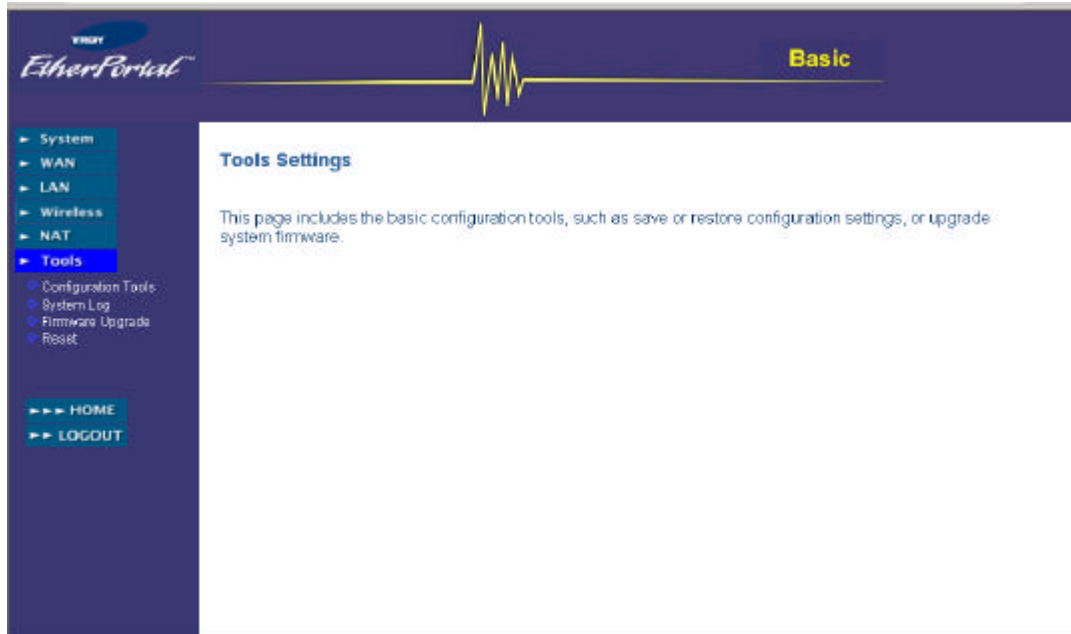
In the context of SNMP, an unsolicited message can be sent by an agent to management station. The purpose is to notify the management station of some unusual event.

No.	IP Address	Community	Version
1	192.168.1.192	public	v1
2	192.168.1.192	private	v2c
3			Disabled
4			Disabled
5			Disabled

HELP ENTER

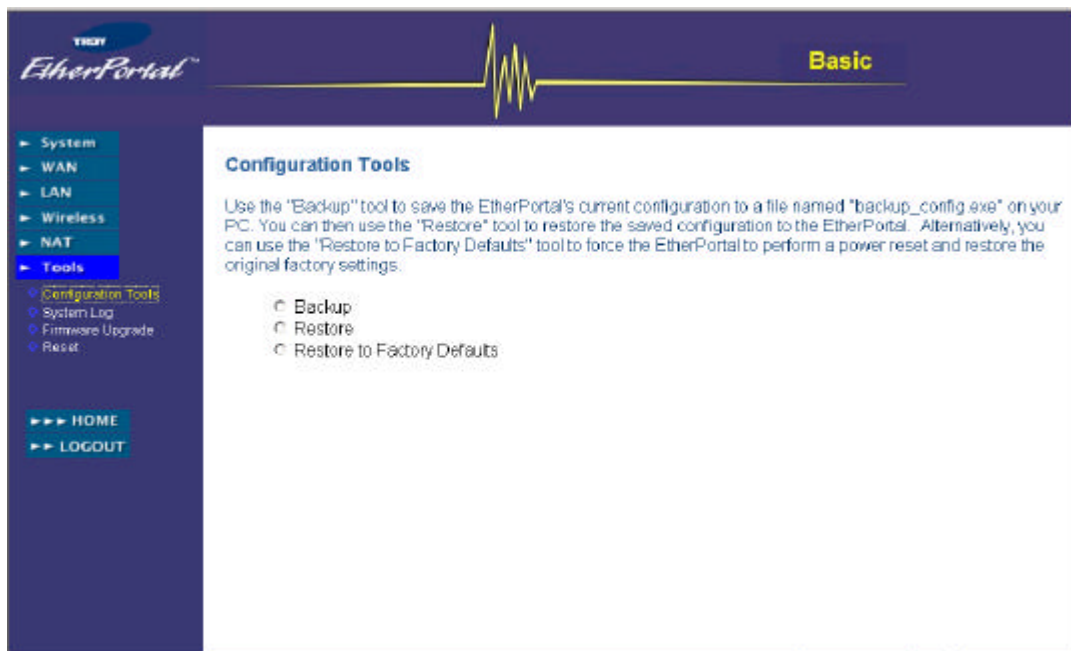
Configuring Your Rhine II – Tools

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.

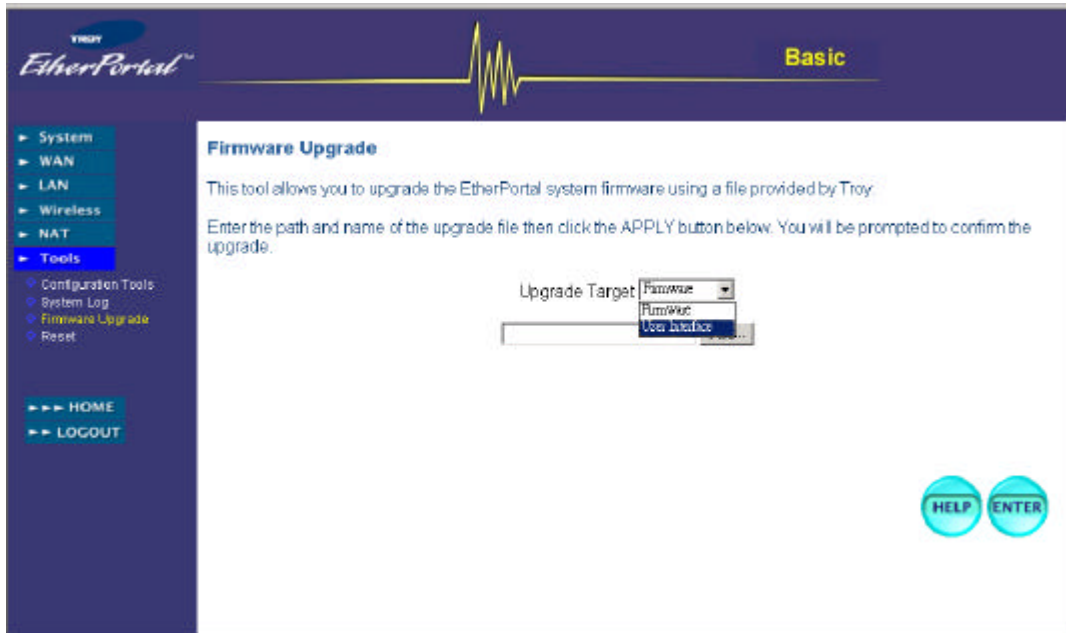


System Log

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