



NW725P
User Manual

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Certification

FCC CE.

FCC 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 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.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment 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 transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Caution!

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

Package Contents

The following items should be found in your package:

- One NW725P
- One DC 9v power adapter
- One QIG
- One CD

Please make sure that the package contains the above items, if any of the listed items are damaged or missing, please contact with your distributor.

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1. Introduction

1.1. Product Overview

This NW725P is a cost-effective IP Sharing Router that enables multiple users to share the Internet through an ADSL or cable modem. The NW725P is embedded with a IEEE 802.11b/g/n access point that allows you to build up a wireless LAN. With the support of new emerged 802.11n standard, the access point provides data transfer of up to 300Mbps, up to 6 times faster than 802.11g.

1.2. Main Features

- DHCP Client, PPPoE Client, Static IP, PPTP Client, L2TP Client
- Support wireless mode: AP, Multi-AP(Multi-SSID), WDS, AP+WDS, Repeater, Client Ad-hoc, Client Infrastructure
- Wireless security: Non, WEP, WPA Personal, WPA2 Personal, WPA&WPA2 Personal, WPA Enterprise, WPA2 Enterprise, WPA&WPA2 Enterprise, 802.1x&WEP Radius
- Turbo Mode
- WMM
- 802.11n(IAPP)
- MAC Filter
- IP Access Control
- Time Based IP Access Control
- DNS Filter
- Block WAN Ping DOS
- **QoS**
- Host Based Bandwidth Limit
- Application&Game Based QoS
- Virtual Service
- DMZ
- Port Trigger
- UPnP
- PPTP Pass-through
- L2TP Pass-through
- IPSec Pass-through
- User Setup(user name & password)
- WEB Server Setup(web remote access)
- Time Zone(NTP)

1.3. Supporting Standard and Protocol

- IEEE 802.11b/g/n
- IEEE 802.11e
- IEEE 802.11h,
- IEEE 802.11k
- IEEE 802.11i
- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX

1.4. Working Environment

Temperature

- 0° to 50° C (operating),
- -40° to 70° C (storage)

Humidity

- 10% to 90 % non-condensing (operating),
- 5% to 90% non-condensing (storage)

Power

DC 9V

2. Hardware Installation

2.1. System Requirement

- Broadband Internet Access Service(DSL/Cable/Ethernet)
- 10/100Base-T Ethernet card and TCP/IP protocol installed for each PC
- Internet Explorer 5.0 or higher for Web configuration
- 802.11n , 802.11g or 802.11b compliant wireless adapters (for wireless connection)

2.2. Panel

Front panel

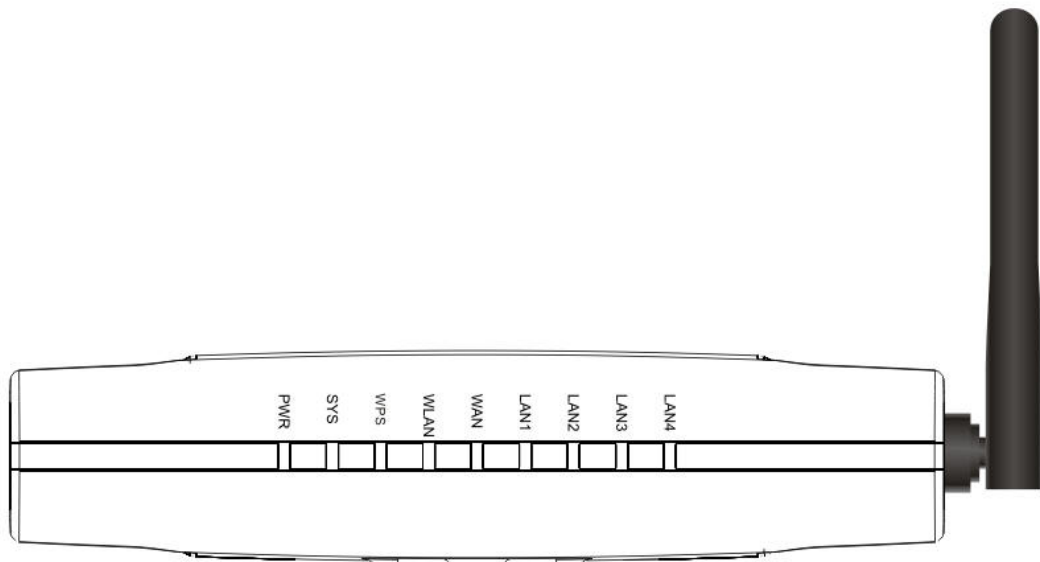


Figure 2-1

LED	Function	
PWR	ON	Power on
	Off	Power off
SYS	ON and Off	Abnormal
	Flashing	Normal
WPS	Flashing slowly	WPS is running
	OFF	WPS is not running

WLAN	Flashing	Wireless data transmitting
	Off	Wireless off
WAN	On	WAN Connection normal
	Flashing	Data transmitting
	Off	WAN Connection abnormal
LAN	On	LAN Connection normal
	Flashing	Data transmitting
	Off	LAN Connection abnormal

Rear panel

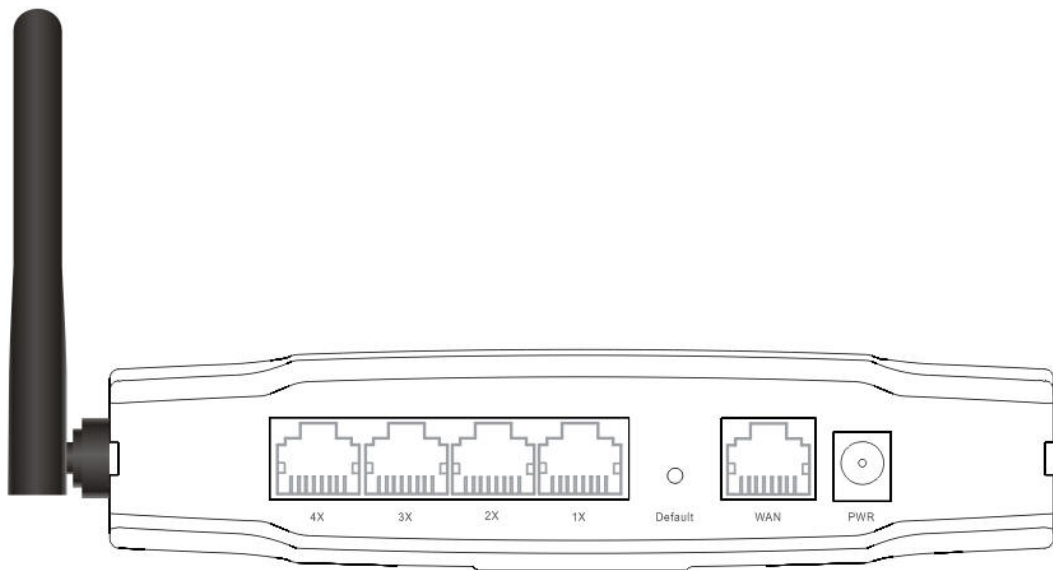


Figure 2-2

Number	Description	Function
1	PWR port	Connect to Power adapter, please don't use the unknown power adapter, otherwise your device may be damaged.
2	LAN port	Connect with computer NIC or Ethernet device
3	WAN port	Internet access
4	Default	Restore settings, please press the button for about 10 seconds, it will restore settings to the factory configuration

2.3. Hardware Installation Procedures

The procedures to install the NW725P please refer to Figure 2-3

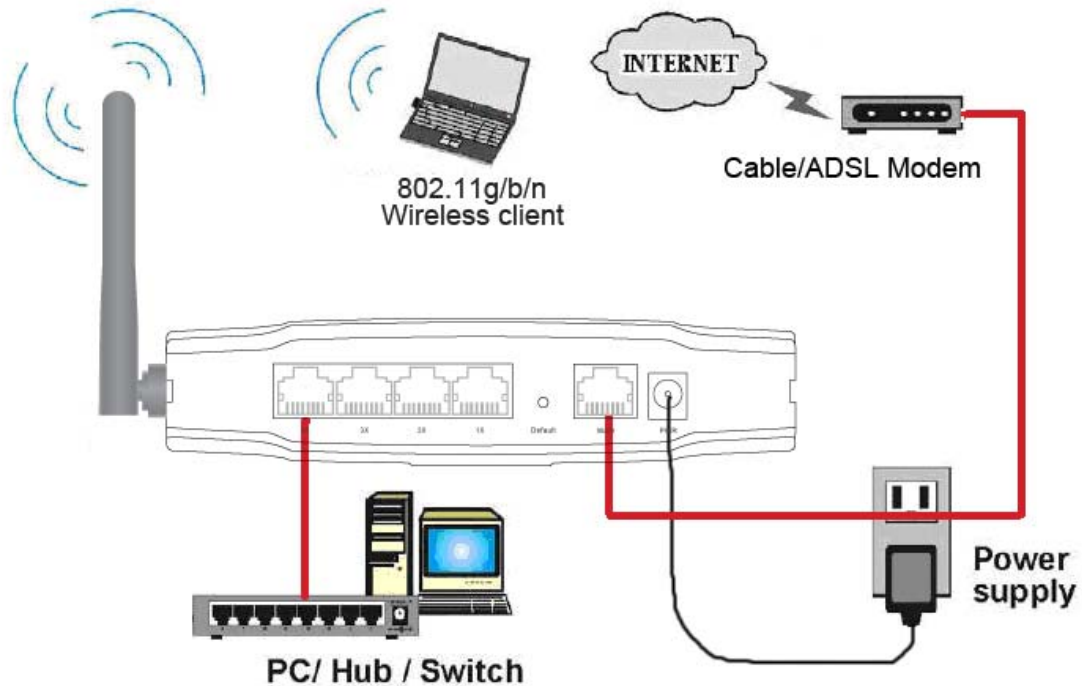


Figure 2-3

- Step 1 connecting your computer to the LAN port.

Attach one end of the Ethernet cable with RJ-45 connector to your hub, switch or a computer's Ethernet port, and the other end to one of the LAN ports of your NW725P.

- Step 2 Connecting Cable/ADSL Modem to the WAN port.

Connect the Ethernet cable attaching to your Cable/ADSL modem to the WAN port of your NW725P.

- Step 3 connecting the power adapter.

Connect the single DC output connector of the power adapter to the power jack on the side of the NW725P. Then plug the Power Adapter into an AC outlet.

- Step 4 Power on the following devices in this order:

Cable/ADSL modem, Router, and PCs

3. Login

You can manage the NW725P through the Web browser-based configuration utility. To configure the device via Web browser, at least one properly configured computer must be connected to the device via Ethernet or wireless network. The NW725P is configured with the **default IP address of 192.168.1.1** and **subnet mask of 255.255.255.0** and its **DHCP server is enabled** by default. Before setting up the Router, make sure your PCs are configured to obtain an IP address automatically from the Router by the steps below.

3.1. Configure computer

3.1.1. Windows 98/Me

1. Go to **Start → Settings → Control Panel**.
2. Find and double-click the Network icon. The Network dialog box appears.
3. Click the Configuration label and ensure that you have network card.
4. Select TCP/IP. If TCP/IP appears more than once, please select the item that has an arrow “→” pointing to the network card installed on your computer. **DO NOT** choose the instance of TCP/IP with the words “Dial Up Adapter” beside it.
5. Click Properties. The TCP/IP Properties dialog box appears.
6. Ensure the Obtain IP Address Automatically is checked.
7. From the WINS Configuration dialog box, Ensure that Disable WINS Resolution is checked.
8. From the Gateway dialog box, remove all entries from the Installed gateways by selecting them and clicking Remove.
9. From the DNS Configuration dialog box, remove all entries from the DNS Server Search Order box by selecting them and clicking Remove. Remove all entries from the Domain Suffix Search Order box by selecting them and clicking Remove. Click Disable DNS.
10. Click OK, back to Network Configuration dialog box
11. Click OK, if prompted to restart, click YES.

3.1.2. Windows 2000

Please follow the steps below to setup your computer:

1. Go to Start → Settings → Control Panel



Figure 3-1

2. Double click the icon Network and Dial-up Connections

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

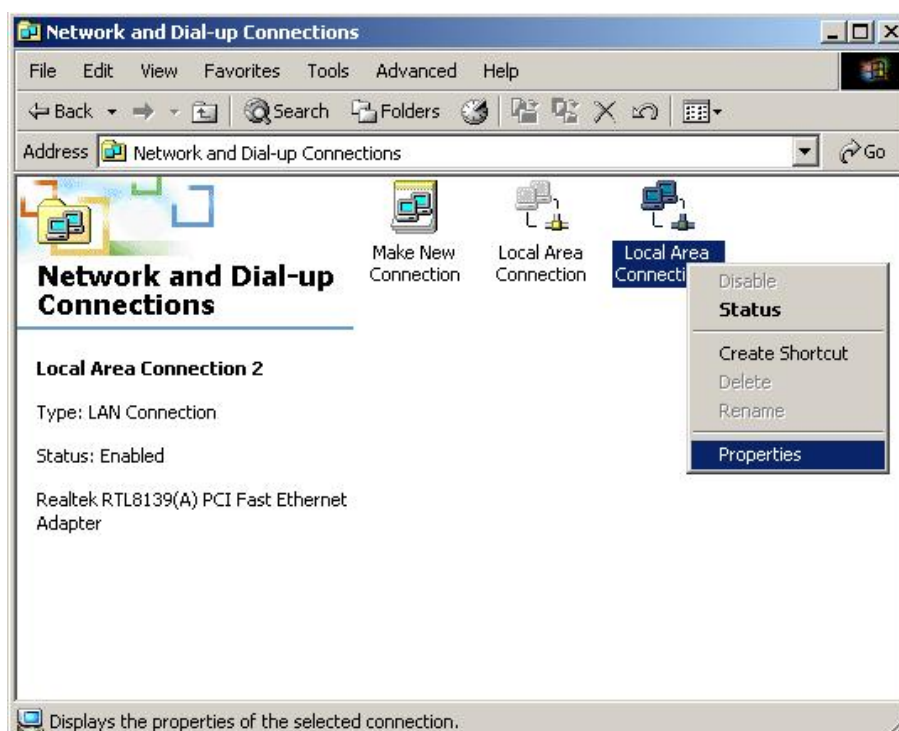


Figure 3-2

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



Figure 3-3

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

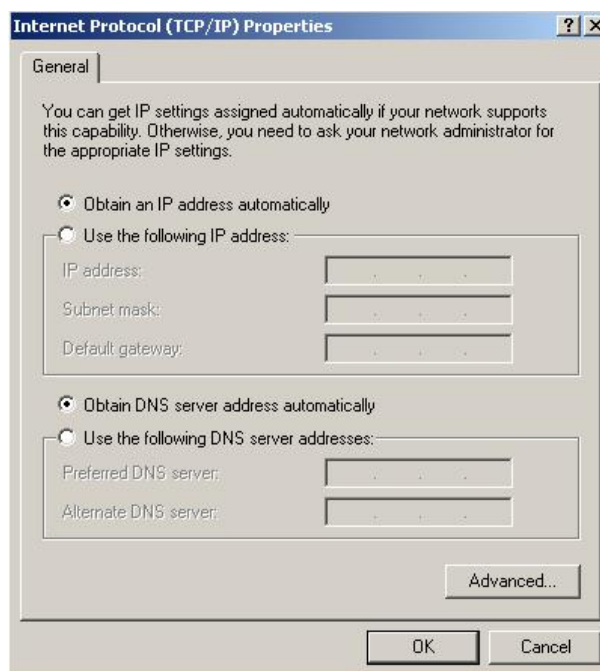


Figure 3-4

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

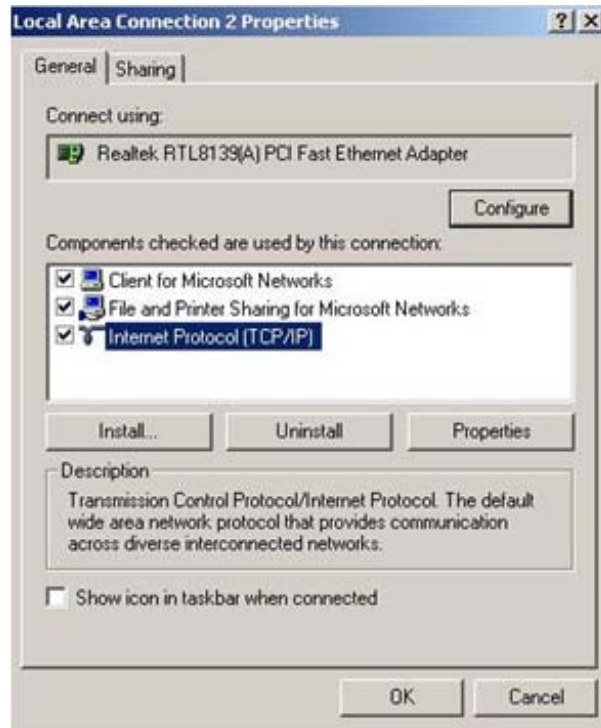


Figure 3-5

3.1.3. Windows XP

Please follow the steps below to setup your computer:

1. Go to Start → Settings → Control Panel
2. Click Network and Internet Connections

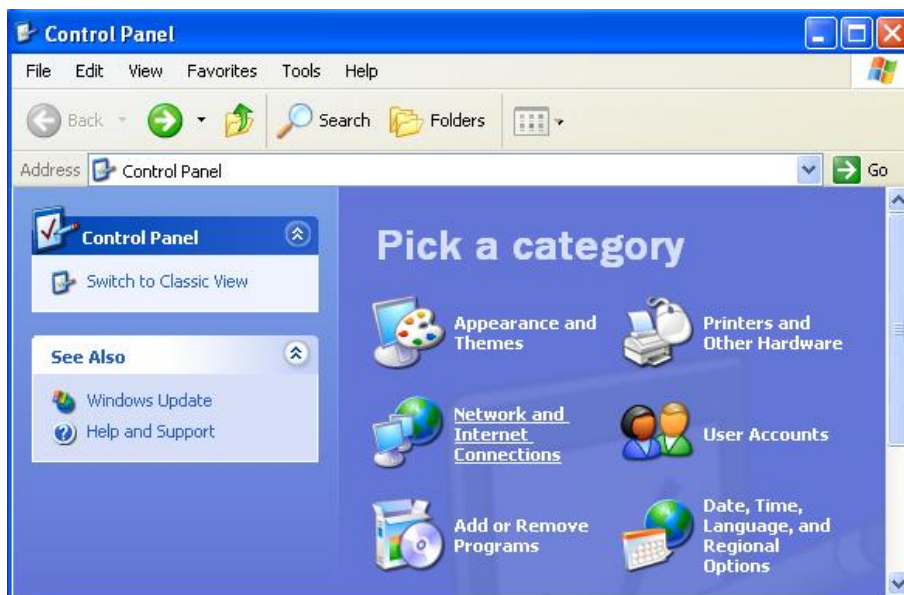


Figure 3-6

3. Click Network Connections



Figure 3-7

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

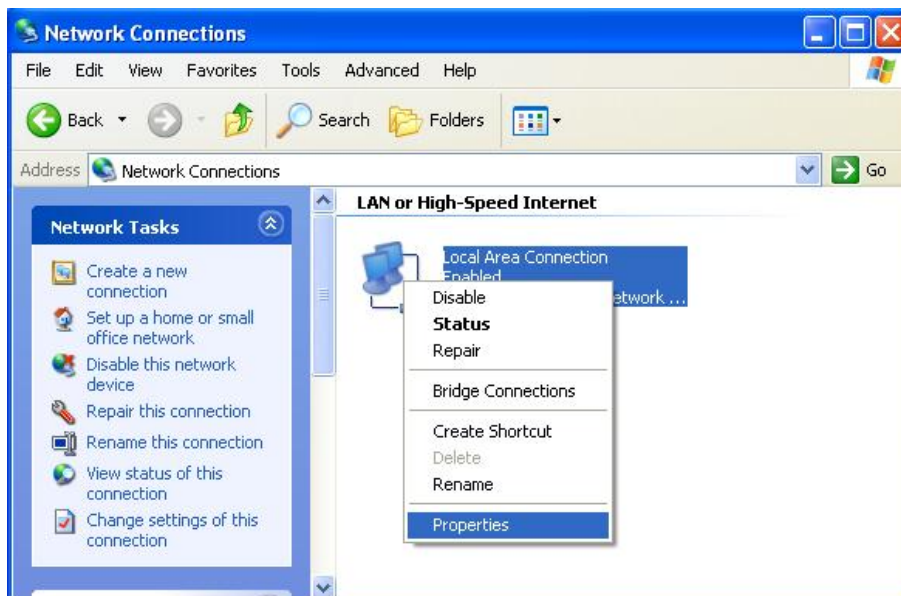


Figure 3-8

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

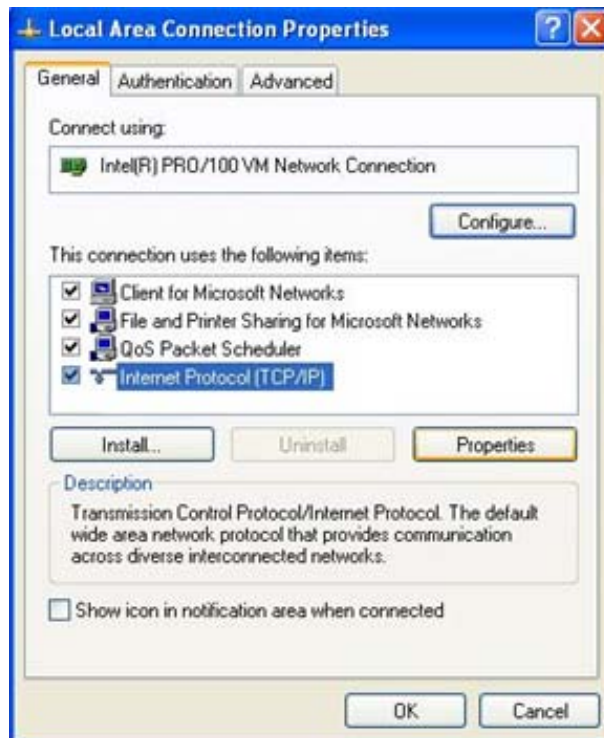


Figure 3-9

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

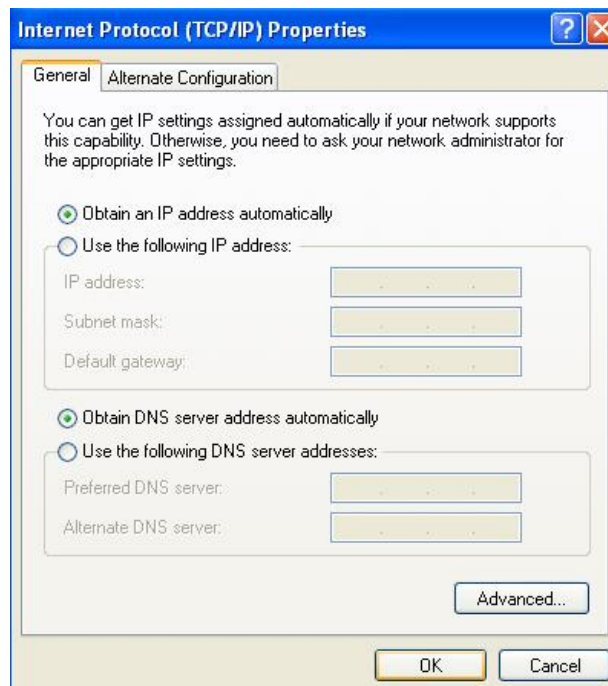


Figure 3-10

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

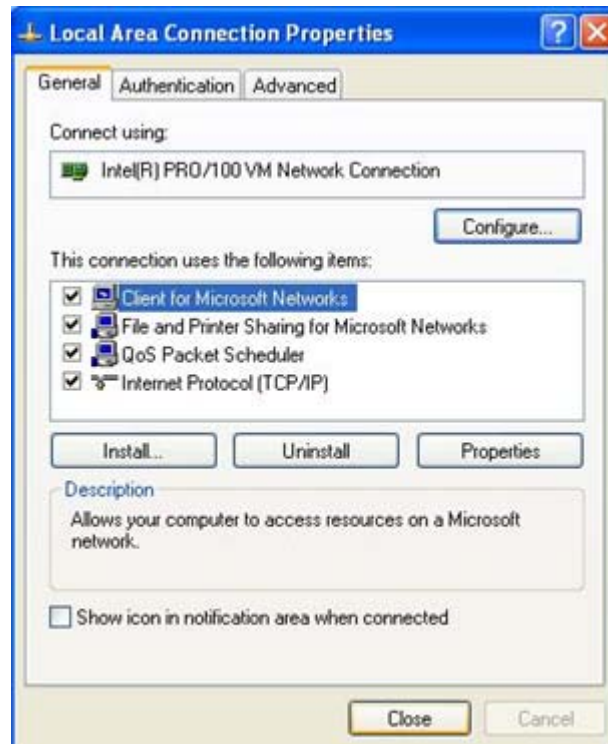


Figure 3-11

3.1.4. Windows Vista

Please follow the steps below to setup your computer:

1. Go to Start → Settings → Control Panel
2. Click Network and Sharing Center

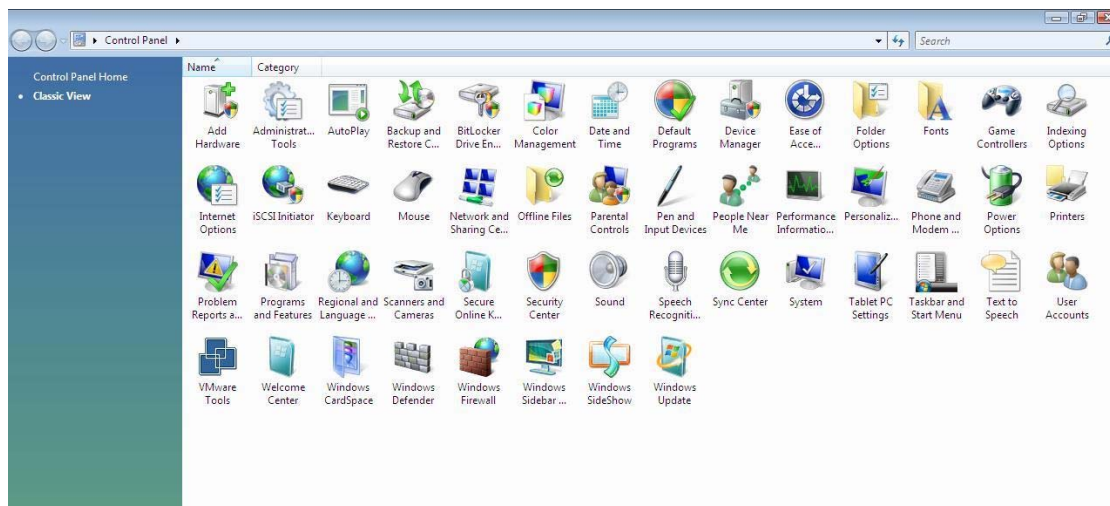


Figure 3-12

3. Click Manage Network Connections

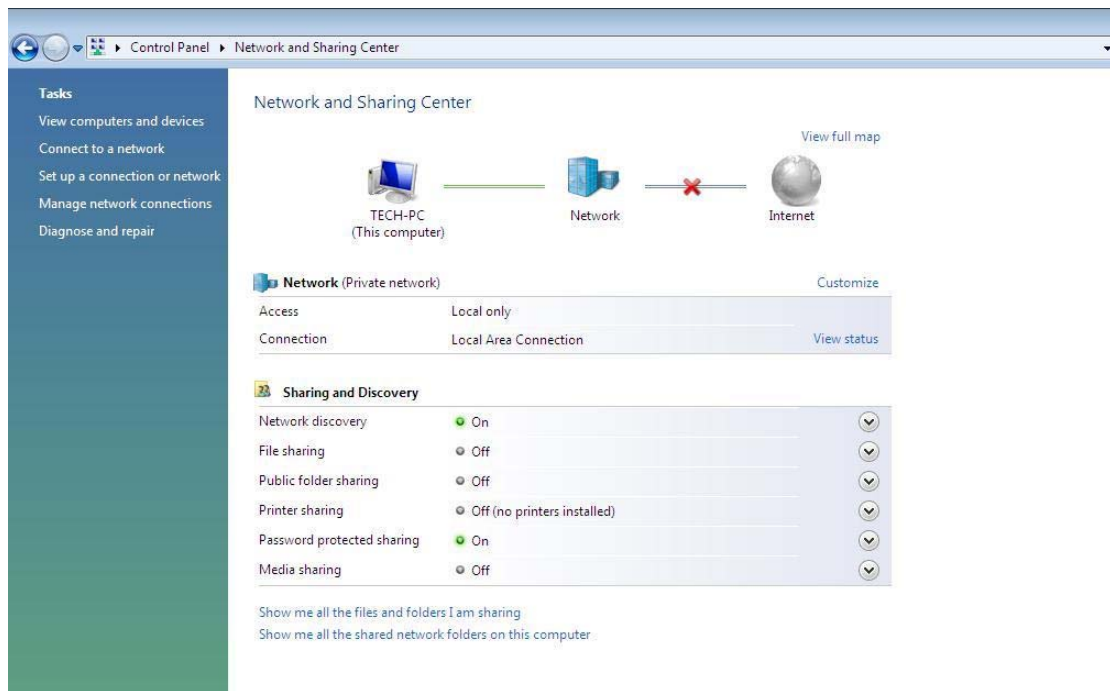


Figure 3-13

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

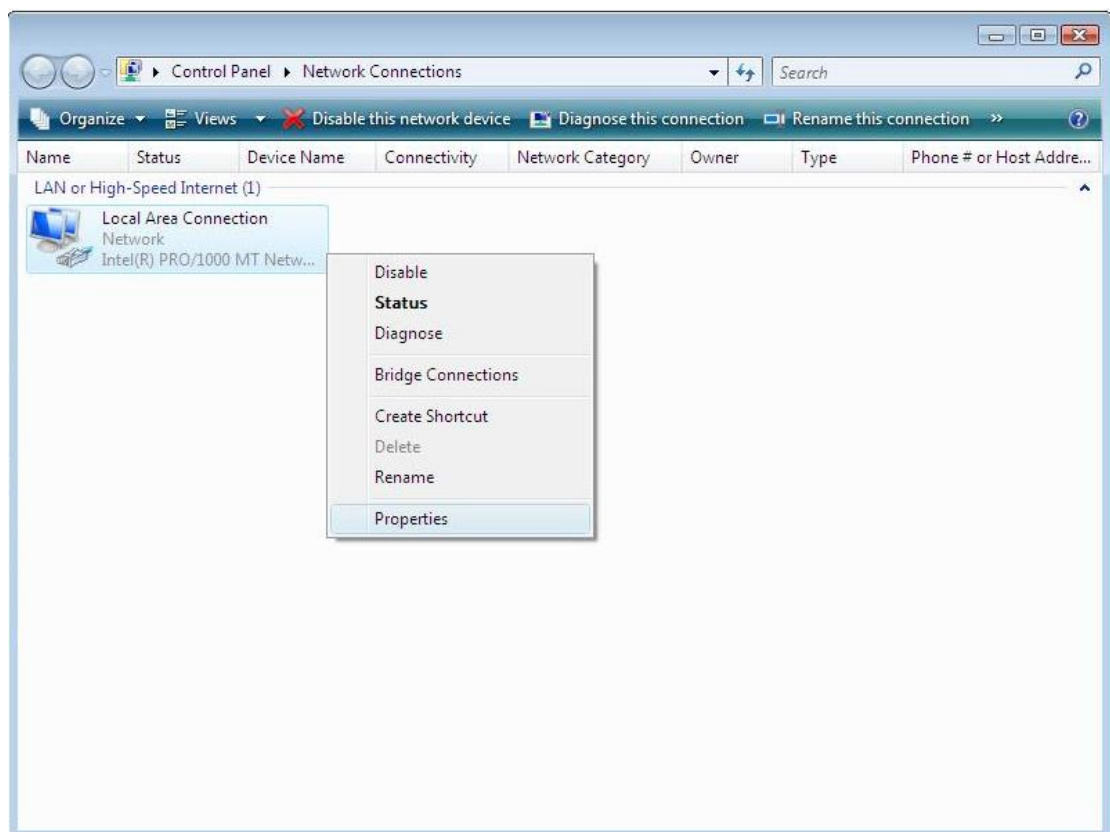


Figure 3-14

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

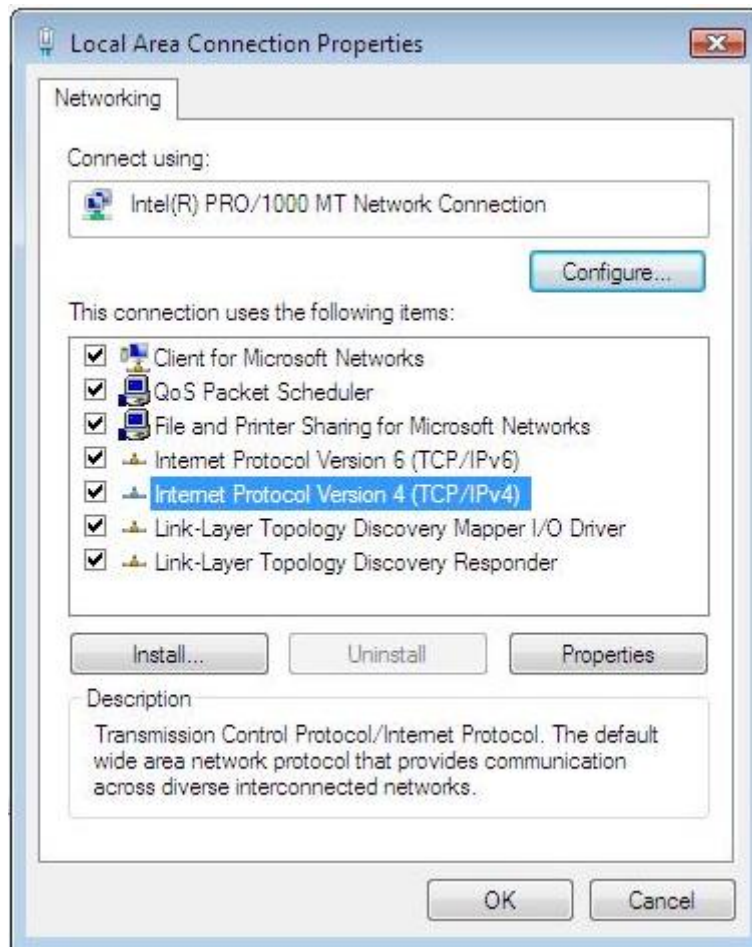


Figure 3-15

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

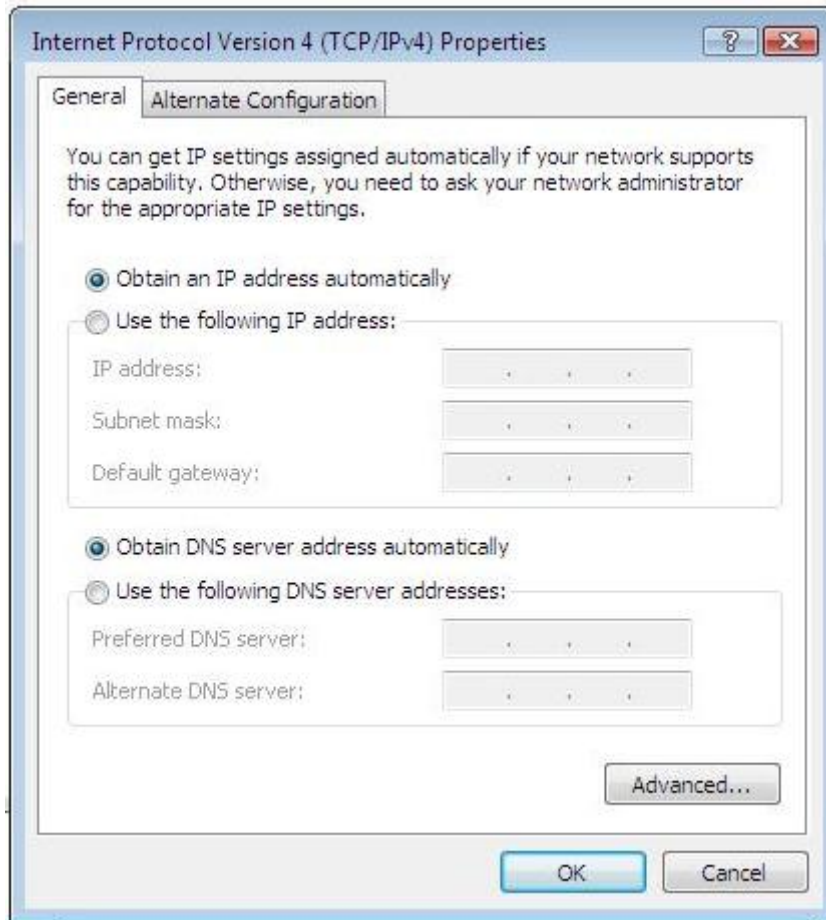


Figure 3-16

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

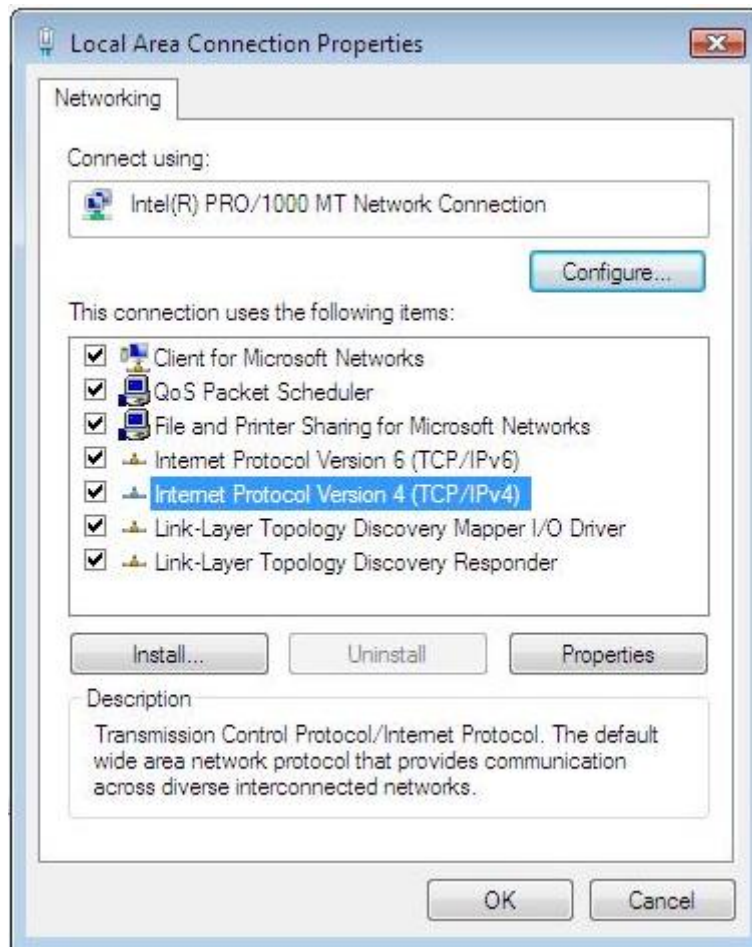


Figure 3-17

3.2. Additional Settings for Wireless Client

If you choose to access the router via a wireless client, also verify the following:

1. Make sure your PC is equipped with 802.11b 802.11g or 802.11n wireless adapter and has appropriate WLAN card driver/utility and TCP/IP installed.

2. Set the wireless adapter to use appropriate TCP/IP settings as described in previous section.

3. Launch the wireless adapter's provided utility and verify that your wireless client is configured with these settings:

- **Operation Mode:** Infrastructure
- **SSID:** default
- **Authentication:** Disabled
- **Encryption:** Off
- **Radio Band:** 802.11B/G/N

3.3. Checking PC's IP and Connection with the Router

After configuring the TCP/IP protocol, use the ping command to verify if the computer can communicate with the Router. To execute the ping command, open the DOS window and ping the IP address of the NW725P at the DOS prompt:

- For Windows 98/Me: **Start** -> **Run**. Type **command** and click OK.
- For Windows 2000/XP: **Start** -> **Run**. Type **cmd** and click OK.

At the DOS prompt, type the following command:

If the Command window returns something similar to the following:

```
C:\Documents and Settings\admin>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time=1ms TTL=64
Reply from 192.168.1.1: bytes=32 time=1ms TTL=64
Reply from 192.168.1.1: bytes=32 time=1ms TTL=64
Reply from 192.168.1.1: bytes=32 time=1ms TTL=64

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 1ms, Average = 1ms
```

Then the connection between the router and your computer has been successfully established. If the computer fails to connect to the router, the Command window will return the following:

```
C:\Documents and Settings\admin>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

Verify your computer's network settings are correct and check the cable connection between the router and the computer.

In order to make the whole network operate successfully, it is necessary to configure the NW725P through your computer has a WEB browser installed. Please follow up the steps listed below.

3.4. Login

1. Startup Internet Explorer and enter <http://192.168.1.1>, then press Enter

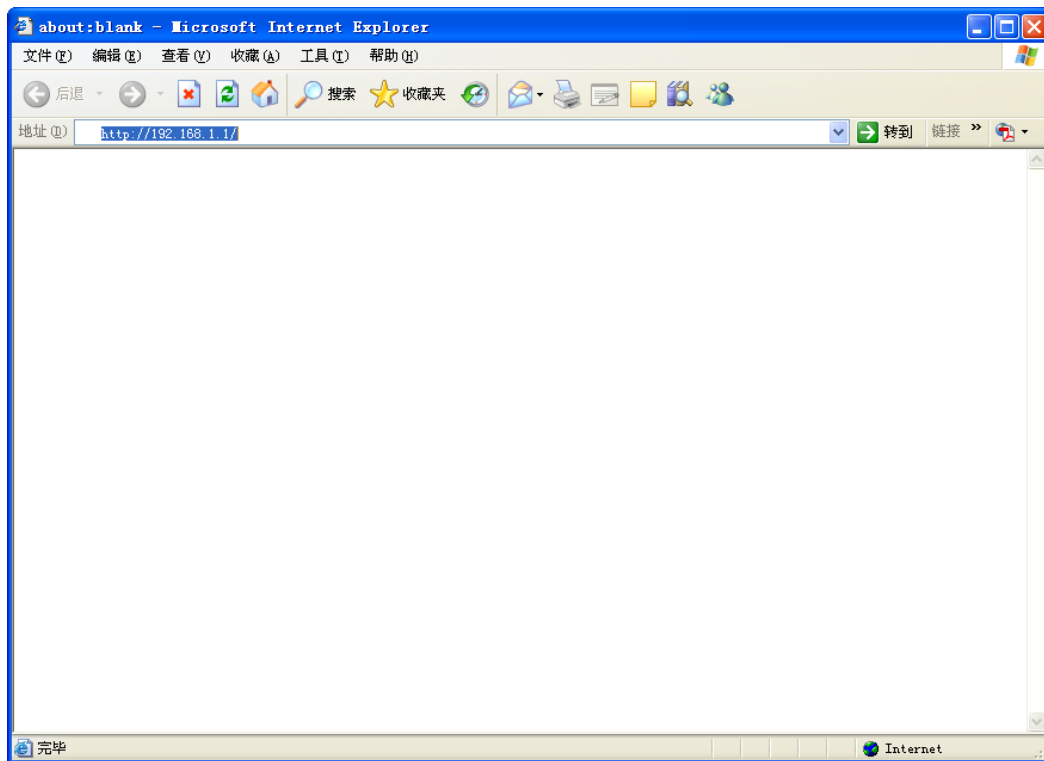


Figure 3-18

2. You will enter the user name and password. The default user name is guest, password is guest, too. You can't modify your user name but can modify your password. You need modify your password when you successfully login, in case anyone else may invade your Internet illegally.

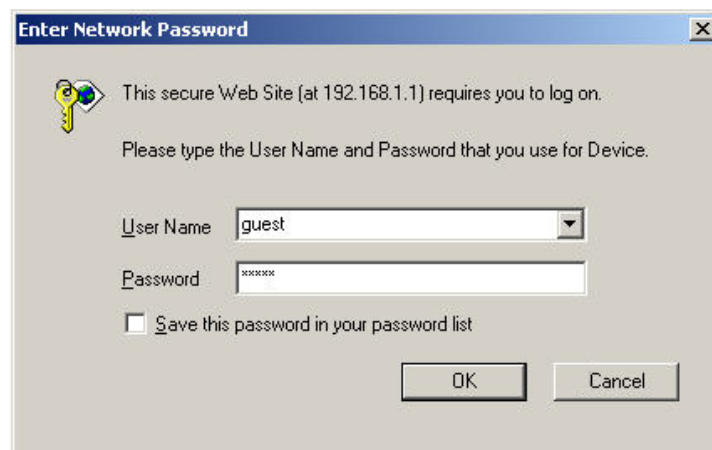


Figure 3-19

3. After successful login, you will be able to see the NW725P's web-based configuration utility refer to Figure 3-20 From now on the NW725P acts as a Web server sending HTML pages/forms at your request. You can click the menu options at the left to start the configuration task.

In the home page of the NW725P, the left navigation bar shows the main options to configure the system. In the right navigation screen is the summary of system status for viewing the configurations.

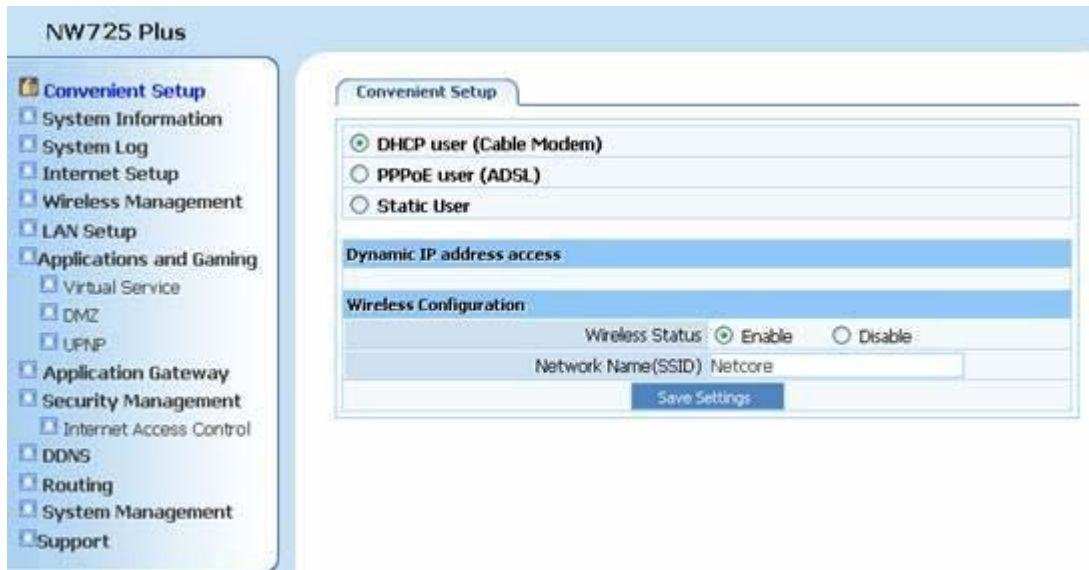


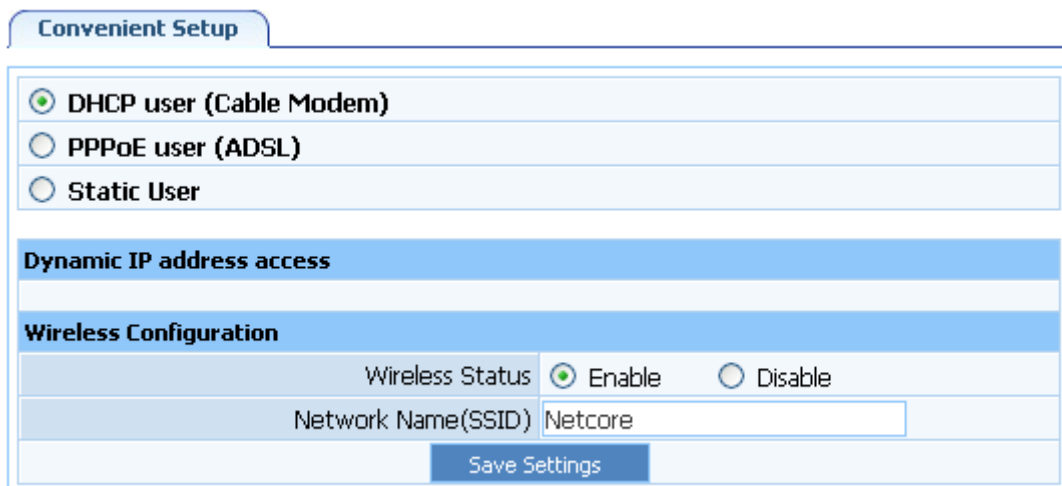
Figure 3-20

4. System configuration

4.1. Convenient Setup

Providing you the convenient and simplest method for configure the router, the purpose of this item is to provide an easy way for you to use it and configure your router to access the Internet quickly; including “DHCP”, ”PPPoE”, ”Static IP” and “Wireless Configuration”. This is the most convenient tool for you to configure router.

4.1.1. DHCP user (Cable Modem)



The screenshot shows a web interface titled "Convenient Setup". It features three radio button options: "DHCP user (Cable Modem)" (selected), "PPPoE user (ADSL)", and "Static User". Below these is a section for "Dynamic IP address access" which is currently empty. The "Wireless Configuration" section includes a "Wireless Status" field with "Enable" selected and "Disable" as an alternative. The "Network Name(SSID)" field contains the text "Netcore". A "Save Settings" button is located at the bottom of the configuration area.

Figure 4-1

After select this item, you will obtain an IP address from your ISP automatically, those ISP who supply Cable modem always use DHCP technology.

4.1.2. PPPoE user (ADSL)

Convenient Setup

DHCP user (Cable Modem)

PPPoE user (ADSL)

Static User

PPPoE Client Access

PPPoE Username

PPPoE Password

Wireless Configuration

Wireless Status Enable Disable

Network Name(SSID)

Figure 4-2

If your ISP provides you the PPPoE service (all ISP with DSL transaction will supply this service, such as the most popular ADSL technique), please select this item. In the “Convenient configuration” You can input your PPPoE username and password to access the Internet.

➤ PPPoE Accounts

Input PPPoE username provided by ISP

➤ PPPoE Password

Input PPPoE password provided by ISP.

4.1.3. Static User

Convenient Setup	
<input type="radio"/> DHCP user (Cable Modem)	
<input type="radio"/> PPPoE user (ADSL)	
<input checked="" type="radio"/> Static User	
Static IP address access	
WAN IP address	<input type="text" value="0.0.0.0"/>
Subnet Mask	<input type="text" value="0.0.0.0"/>
Default Gateway	<input type="text" value="0.0.0.0"/>
Primary DNS	<input type="text"/>
Secondary DNS	<input type="text"/>
Wireless Configuration	
Wireless Status	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Network Name(SSID)	<input type="text" value="Netcore"/>
<input type="button" value="Save Settings"/>	

Figure 4-3

This item should only be used when users use a static IP address to access Internet, you should input your “WAN IP address”, ”subnet mask”, ” default gateway” and “DNS server (domain name server) IP address” according to the information provided by your ISP. And every IP address should be input in appropriate IP field, a IP address only divided into four IP octets by sign”.” is acceptable.

➤ WAN IP address

The IP address that your Internet access into

➤ Subnet mask

Specify a Subnet Mask for your WAN segment

➤ Default gateway

It is provided by your ISP

➤ Primary DNS

DNS server is used for resolve domain name. Your ISP will provides you with at least one DNS IP address, input IP address of your DNS server in this field

➤ Secondary DNS

Input IP address of backup DNS server, or you can leave this field blank.

4.1.4. Wireless Configuration

You can choose “Enable” or “Disable” to enable or disable the wireless function. The default setting is ”enable”. If you chose the “Disable” status, the router will become a wired broadband router without wireless function, so be careful when you choose this status.

➤ SSID

SSID (Service Set Identifier) is your wireless network's name shared among all points in a wireless network. The SSID must be identical for all devices in the wireless network. It is case-sensitive and must not exceed 32 characters. Make sure all points in the wireless network have the same SSID. For added security, you should change the default SSID to a unique name.

4.2. System information

This page indicate current status of the router, including “Internet Access Info”, ”LAN Info” ,”Primary AP Info”, “System Info” and “statistics info” about the bits router send and received .This item is used for monitor the current status of router for administrator, and also supplies help information about judge working situation of router

4.2.1. Internet Access Info

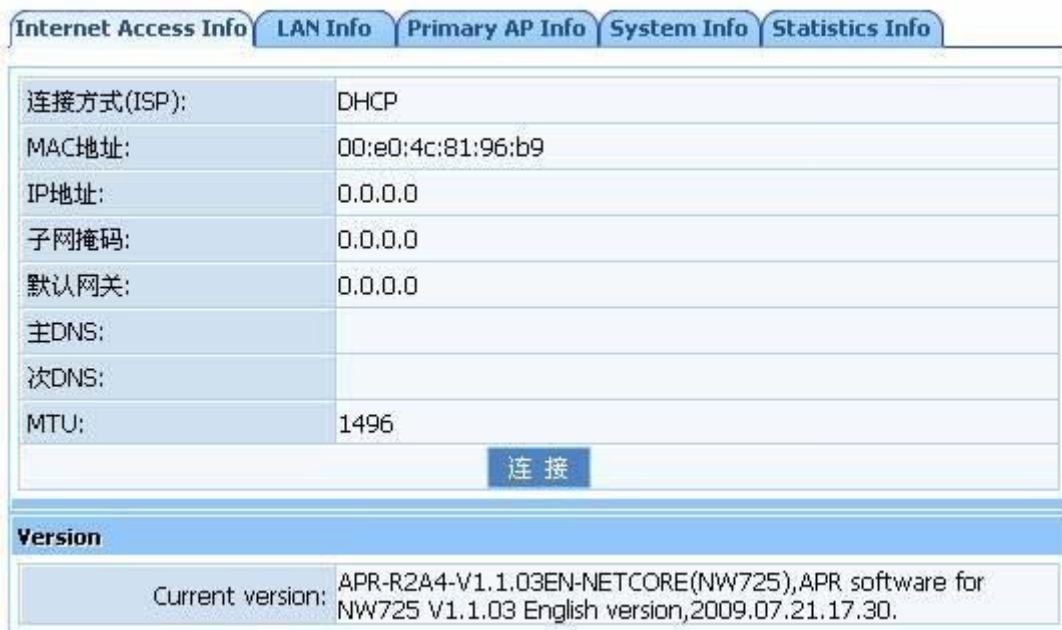


Figure 4-4

This feature provides running status information of the WAN port (the port connect to the Internet)

➤ Connection Type(ISP)

Display router's current connection type, It should be one of “PPPoE”, ”DHCP”, “Static IP”, depending on what kind of connection type your ISP provides.

➤ MAC Address

The MAC address of WAN port, this is a unique address assigned by manufacturer.

➤ IP Address

The IP address you obtained after connect to the Internet, if you haven't connected to the Internet yet, this field is blank.

➤ Subnet Mask

The Subnet mask you obtained after connect to the Internet, if you haven't connected to Internet yet, this field is blank

➤ Default Gateway

The IP address of Default gateway you obtained after connect to the Internet, if you haven't connected to Internet yet, this field is blank.

➤ Primary DNS

The DNS server translates domain or website names into IP address, input the most common DNS server address you used or provided by your ISP.

➤ Secondary DNS

Input IP address of a backup DNS server or you can leave this field blank

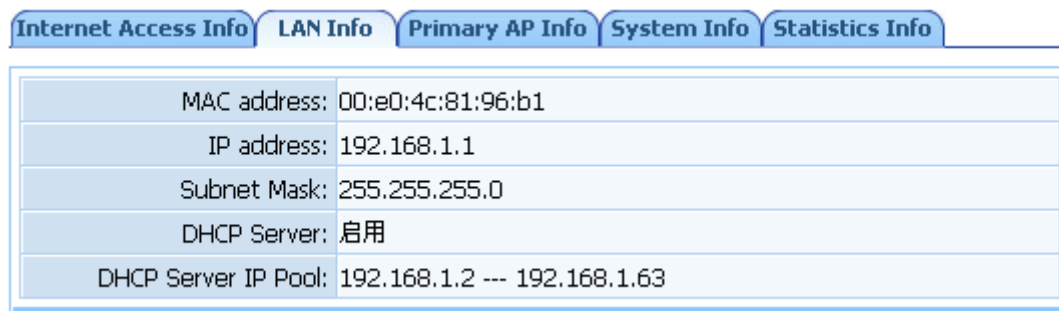
➤ MTU

The MTU (Maximum Transmission Unit) setting specifies the largest packet size permitted for network transmission. Most DSL users should use the value 1492. You can set MTU manually, and you should leave this value in the 1200 to 1500 range. If the value you set is not in accord with the value ISP provide, it may causes some problems, such as fail to send Email, or fail to browse website. So if that happen, you can contact your ISP for more information and correct your router's MTU value

➤ Version

The version information of your current firmware

4.2.2. LAN Info



The screenshot shows a web interface with five tabs: 'Internet Access Info', 'LAN Info', 'Primary AP Info', 'System Info', and 'Statistics Info'. The 'LAN Info' tab is selected. Below the tabs is a table with the following information:

MAC address:	00:e0:4c:81:96:b1
IP address:	192.168.1.1
Subnet Mask:	255.255.255.0
DHCP Server:	启用
DHCP Server IP Pool:	192.168.1.2 --- 192.168.1.63

Figure 4-5

This item provides information about router's LAN port, display LAN port's MAC address, IP address and current situation of DHCP server.

4.2.3. Primary AP Info

Internet Access Info	LAN Info	Primary AP Info	System Info	Statistics Info
Wireless Status:	On			
Number of Wireless Client:	0			
Wireless Mode:	AP			
Channel:	6			
SSID:	Netcore			
Wireless Interface MAC Address:	00:e0:4c:81:96:b1			
SSID Broadcasting:	on			
Security Mode:	None			

Figure 4-6

This item provides current running information of Primary AP

➤ Wireless status

Display wireless interface status is enabled or not

➤ Number of Wireless Client

Display the current number of wireless stations associated with router

➤ Wireless Mode

Current wireless mode of wireless router , the default setting is "AP(Access Point)" mode.

➤ Channel

Display current channel of your wireless router.

➤ SSID

SSID (Service Set Identifier) is your wireless network's name shared among all points in a wireless network. The SSID must be identical for all devices in the wireless network. So make sure all points in the wireless network have the same SSID, I suggested to use the default SSID.

➤ Wireless Interface MAC Address

The MAC address is used for wireless communication

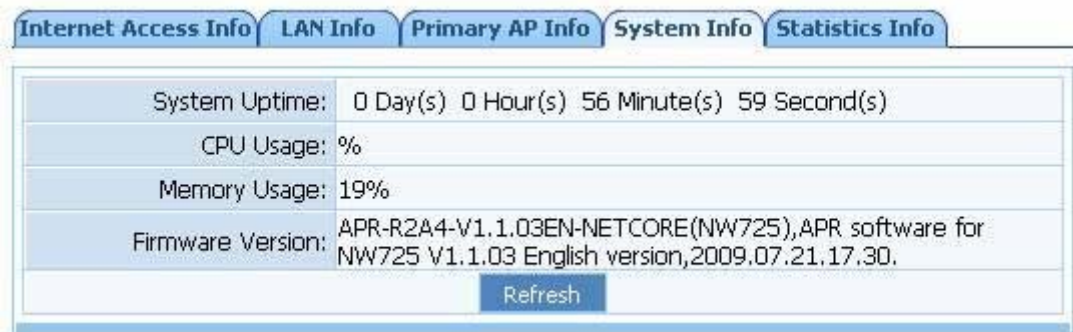
➤ SSID Broadcasting

You can select "enable" or "disable" to enable or disable the broadcast SSID function, If the setting of this field is disable, wireless client can not obtain this SSID to login in, then user have to input the SSID value manually

➤ Security Mode

Display whether your security wireless function have been applied.

4.2.4. System Info



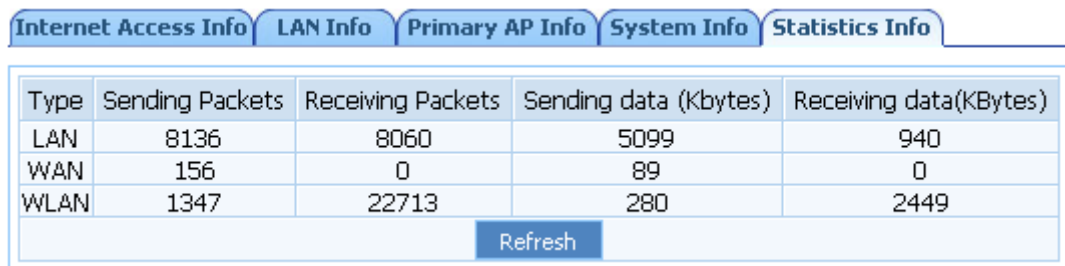
System Uptime:	0 Day(s) 0 Hour(s) 56 Minute(s) 59 Second(s)
CPU Usage:	%
Memory Usage:	19%
Firmware Version:	APR-R2A4-V1.1.03EN-NETCORE(NW725),APR software for NW725 V1.1.03 English version,2009.07.21.17.30.

[Refresh](#)

Figure 4-7

This item provides current running information of System

4.2.5. Statistics Info



Type	Sending Packets	Receiving Packets	Sending data (Kbytes)	Receiving data(KBytes)
LAN	8136	8060	5099	940
WAN	156	0	89	0
WLAN	1347	22713	280	2449

[Refresh](#)

Figure 4-8

This item provides statistics information about the bits router sends and received

4.3. System log

System Logs			
No.	Time	Connection type	Descript
1	klogd started: BusyBox v1.00-pre8 (2009.05.08-19:42+0000)	klogd	undefined
2	Linux version 2.4.18-MIPS-01.00 (root@localhost.localdomain) (gcc version 3.4.6-1.3.6a) #70 Thu Jul 2 00:35:3	klogd	undefined
3	early printk enabled	klogd	undefined
4	Determined physical RAM map:	klogd	undefined
5	memory: 01000000 @ 00000000 (usable)	klogd	undefined
6	On node 0 totalpages: 4096	klogd	undefined
7	zone(0): 4096 pages.	klogd	undefined
8	zone(1): 0 pages.	klogd	undefined
9	zone(2): 0 pages.	klogd	undefined
10	Kernel command line: root=/dev/mtdblock1 console=0 single	klogd	undefined

|< < > >| 1 ▾ 8Pages

Figure 4-9

Examine system log, there are most ten logs can be showed in one Page

4.4. Internet Setup

The purpose of this item is to provide an easy way for you to use it and configure your router to access the Internet quickly,

4.4.1. DHCP User (Cable Modem)

After select this item, you will obtain an IP address from your ISP automatically, those ISP who supply Cable modem always use DHCP

Internet Setup

DHCP user (Cable Modem)
 PPPoE user (ADSL)
 Static user

DHCP Client Access

Clone MAC address	00:e0:4c:81:96:b9	Clone MAC address
Default MAC address	00:e0:4c:81:96:b9	Default MAC address
MTU	1496	
Primary DNS		
Secondary DNS		

Save Settings

Figure 4-10

➤ **Clone MAC address**

The WAN port of router has a unique MAC address assigned by manufacturer; it called as “Default MAC”. The “Clone MAC” is used for some special situations; For example, ISP only allows certain MAC address to access the Internet, thus you can modify your WAN port’s MAC address in accord with the requirement of ISP, avoiding ISP’s detection

➤ **MTU**

The MTU (Maximum Transmission Unit) setting specifies the largest packet size permitted for network transmission. Most DSL users should use the value 1492. You can set MTU manually, and you should leave this value in the 1200 to 1500 range. If the value you set is not in accord with the value ISP provide, it may causes some problems, such as fail to send Email, or fail to browse website. So if that happened, you can contact your ISP for more information and correct your router’s MTU value

➤ **Primary DNS**

DNS server is used for resolve domain name. Your ISP will provide you with at least one DNS IP address, input IP address of your DNS server in this field

➤ **Secondary DNS**

Input IP address of backup DNS server, or you can leave this field blank

4.4.2. PPPoE User(ADSL)

The screenshot shows the 'Internet Setup' configuration window. At the top, there are three radio button options: 'DHCP user (Cable Modem)', 'PPPoE user (ADSL)' (which is selected), and 'Static user'. Below this is the 'PPPoE Client Access' section, which contains several input fields and buttons. The fields are: 'PPPoE Username' (empty), 'PPPoE Password' (empty), 'Clone MAC address' (00:e0:4c:81:96:b9) with a 'Clone MAC address' button, 'Default MAC address' (00:e0:4c:81:96:b9) with a 'Default MAC address' button, 'MTU' (1492), 'Primary DNS' (empty), and 'Secondary DNS' (empty). At the bottom of this section are three radio button options: 'Connect to Internet automatically (Default)' (selected), 'Auto disconnect when idle, time out ,After 5 (1-30) minutes, if no found the access request then auto-break off!' (with a '5' in a box), and 'Connect to Internet manually'. A 'Save Settings' button is located at the bottom right of the window.

Figure 4-11

If your ISP provides you the PPPoE service (all ISP with DSL transaction will supply this service, such as the most popular ADSL technique), please select this item. In the “Convenient Setup” You can input your PPPoE username and password to access the Internet

➤ PPPoE Accounts

Input PPPoE username provided by ISP

➤ PPPoE Password

Input PPPoE password provided by ISP

➤ Default MAC Address

The MAC address of WAN port, this is a fixed, unique address assigned by manufacturer

➤ Primary DNS

DNS server is used for resolve domain name. Your ISP will provide you with at least one DNS IP address, input IP address of your DNS server in this field

➤ Secondary DNS

Input IP address of backup DNS server, or you can leave this field blank

You can select three modes: connect to Internet automatically (Default), auto disconnect when idle or time out, connect to Internet manually

4.4.3. Static user

The screenshot shows the 'Internet Setup' configuration page. At the top, there is a tab labeled 'Internet Setup'. Below it, there are three radio button options: 'DHCP user (Cable Modem)', 'PPPoE user (ADSL)', and 'Static user'. The 'Static user' option is selected. Below these options is a section titled 'Static IP address Access'. This section contains several input fields and buttons:

WAN IP address	0.0.0.0	
Subnet Mask	0.0.0.0	
Default Gateway	0.0.0.0	
Clone MAC address	00:e0:4c:81:96:b9	Clone MAC address
Default MAC address	00:e0:4c:81:96:b9	Default MAC address
MTU	1500	
Primary DNS		
Secondary DNS		

At the bottom of the form, there is a 'Save Settings' button.

Figure 4-12

This should be used only you are connecting through a static IP address. You should input your “WAN IP address”, ”subnet mask”, ” default gateway” and “DNS server (domain name server) IP address” according to the information provided by your ISP. And IP address input should be filled in appropriate IP field, a IP address only divided into four IP octets by sign”.” is acceptable

4.5. Wireless management

It contains the following parts: wireless basic, security, host filter, association table, WDS management, advanced

4.5.1. Wireless Basic

Wireless Basic	
Wireless Network Status	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Radio Band	802.11b+g+n
Radio Mode	Access Point
SSID	Netcore
SSID Broadcasting	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Channel Width	<input checked="" type="radio"/> 20MHZ <input type="radio"/> 40MHZ
Channel	Channel 6
<input type="button" value="Save Settings"/>	

Figure 4-13

Providing basic configuration items for wireless router users, including "wireless network status", "Radio Band", "Radio Mode", "SSID", "SSID broadcasting", "Channel width", and "Channel" seven basic configuration items. Wireless basic configuration affects both primary and secondary AP

➤ Wireless network status

You can choose "enable" or "disable" to enable or disable the "Wireless Network Status", if what you choose is "Disable", the AP function of wireless router will be turned off

➤ Radio band

You can select the wireless standards running on your network, If you have Wireless-G, and Wireless-B devices in your network, keep the default setting, 802.11b/g Mixed

➤ Radio mode

You can select radio mode of wireless router, the default setting is AP mode

➤ SSID

The default is Netcore

➤ SSID Broadcasting

You can choose "enable" or "disable" to enable or disable the "SSID broadcasting"

➤ Channel width

➤ This switch allows you to set Router's wireless bandwidth modes:

20MHz: Setting the Router to this mode allows only 20MHz operation. This mode is compatible with router, draft 802.11n, 802.11g and 802.11b compliant devices, but will limit router, draft 802.11n compliant device's bandwidth by half reducing bandwidth to 20MHz operation might solve some wireless problems.

40MHz: Setting the Router to this mode allows only 40MHz operation. This mode is compatible only with router, draft 802.11n compliant devices. It may affect legacy 802.11b/g devices. Use only when you have a pure router, draft 802.11n wireless network

➤ Channel sideband

It controls your wireless router use higher or lower channel when working on 40MHz

➤ Channel

You can select one channel from 1 to 11 manually, which provides a choice of avoiding interference

4.5.2. Security

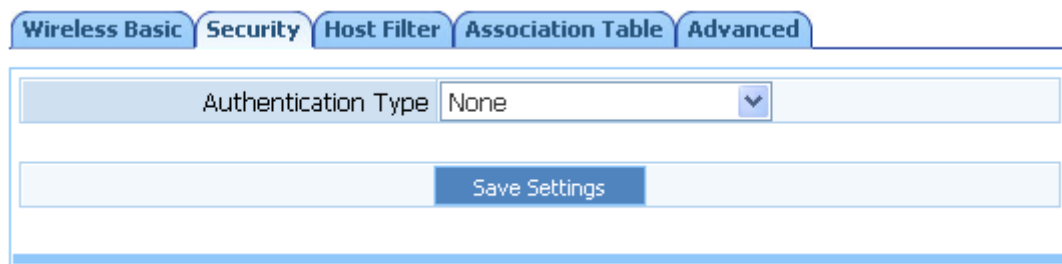


Figure 4-14

The item allows you to encrypt your wireless communication, and you can also protect your wireless network from unauthorized user access

“Security Mode” supplies “None”, “WEP”, “WPA SOHO USER”, “WPA2 SOHO USER” and “WPA&WPA2 SOHO USER” five different encryption modes.

- “None” means do not encrypt wireless data
- WEP

There are two basic levels of WEP encryption, 64 bits and 128 bits, the more bits password have, the better security wireless network is, at the same time the speed of wireless is more slower. If you select WEP to encrypt your data, choose the bits of password, it should be 64 bits or 128 bits. Then choose the format of password; it should be HEX or ASCII. The valid character for HEX format should be numbers from 0 to 9 or letters from A to F. HEX doesn’t support mixed letter and number mode. And ASCII supports mixed both letters and numbers. By default, router provides four fields to input four groups of password, you can input all of them or only one of them, and the client’s password only need to match one group of password

- WPA SOHO USER

You can select the algorithm you want to use, TKIP or AES. TKIP means “Temporal Key Integrity Protocol”, which incorporates Message Integrity Code (MIC) to provide protection against hackers. AES, means “Advanced Encryption System”, which utilizes a symmetric 128-Bit block data

- WPA2 SOHO USER

The WPA2 SOHO USER is similar to WPA SOHO USER and with stronger encryption method than WPA SOHO USER, using WPA2 SOHO USER; you should input password (leave this value in the range of 8 to 63 characters) and key renewal time (leave this value in the range of 60 to 86400 seconds).

- WPA&WPA2 SOHO USER

This item mixed WPA SOHO USER and WPA2 SOHO USER mode, which provides higher security level; you can configure it according with WPA SOHO USER or WPA2 SOHO USER

4.5.3. Host Filter

Wireless Basic Security **Host Filter** Association Table Advanced

Wireless Access Control

Wireless Access Control Status Enable Disable

Save Settings

Rule Description

MAC Address

Add

ID	MAC Address	Delete
----	-------------	--------

Figure 4-15

You can filter wireless users by enabling this function; thus unauthorized users can not access the network. To disable “Wireless Host Filter”, keep the default setting “Disable”. To enable “Wireless Host Filter”, follow these steps to set “Wireless Host Filter”.

1. Add MAC address you want to control in the “MAC address” field (the format is XX-XX-XX-XX-XX-XX), then click “Add” button, and you will see the MAC address has displayed in the MAC list.
2. There are two items supplied, “Permit wireless connection for MAC address listed (others are Denied)” and “Deny wireless connection for MAC address listed (others are Permitted)”, Select the item you want, and click “Save Settings” button

4.5.4. Association table

Wireless Basic Security Host Filter **Association Table** Advanced

MAC Address	Mode	Tx Packet	Rx Packet	Tx Rate (Mbps)	Power Saving	Expired Time (s)
-------------	------	-----------	-----------	----------------	--------------	------------------

Refresh

Figure 4-16

Display current status of the wireless client associate with AP

4.5.5. Advanced

Wireless Basic	Security	Host Filter	Association Table	Advanced
Authentication Type		Auto		▼
Beacon Interval		100	(20-1000)	
RTS Threshold		2347	(256-2347)	
Aggregation		AMPDU+AMSDU		▼
Fragmentation Threshold		2346	(256-2346)	
Transmission Rate		Auto		▼
ShortGi		<input checked="" type="radio"/> Enable	<input type="radio"/> Disable	
Protection		<input checked="" type="radio"/> Enable	<input type="radio"/> Disable	
Preamble Type		<input checked="" type="radio"/> Long	<input type="radio"/> Short	
Save Settings				

Figure 4-17

These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the change will have on your AP

➤ **Authentications type**

The default is set to “Auto Select”, which allows “Open System” or “Shared Key” authentication to be used. Select “Shared Key” if you only want to use “Shared Key” authentication (the sender and recipient use a WEP key for authentication)

➤ **Beacon Interval**

The interval time of this NW725P broadcast a beacon. Beacon is used to synchronize the wireless network. The valid interval is 20-1000, the default is 100

➤ **RTS Threshold**

You can set RTS Threshold value in this field, the valid range should be 256-2347 and default value is 2347. If a network packet is smaller than the preset RTS threshold size, the RTS/CTS mechanism will not be enabled

➤ **Aggregation**

You can accelerate the wireless transmission speed by enabling the aggregation function. The default is AMPDU + AMSDU

➤ **Fragmentation Threshold**

It specifies the maximum size of packet during the fragmentation of data to be transmitted

➤ **Transmission Rate**

Transmit rate indicates the transmission speed of wireless LAN access .The default setting is “Auto” and you can set this value between 1-54Mbps range

➤ **ShortGi**

You can select “Enable” or ”disable” for shortgi

➤ **Protection**

Using 802.11b and 802.11g mixed mode may result in poor network performance. By enabling

802.11 protection, it will ameliorate performance of 802.11g devices in your wireless network

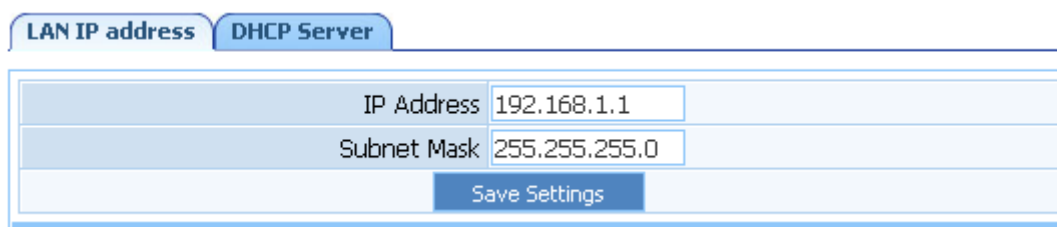
➤ Preamble Type

"Short Preamble" is suitable for heavy traffic wireless network. "Long Preamble" provides much communication reliability; the default setting is "Long Preamble"

4.6. LAN Setup

It includes LAN IP address and DHCP Server. You can change the default IP address of LAN port by using this item, after changing IP address of LAN port, the router will restarted automatically. You can also choose enable or disable of the DHCP server, set the range of DHCP address pools

4.6.1. LAN IP address

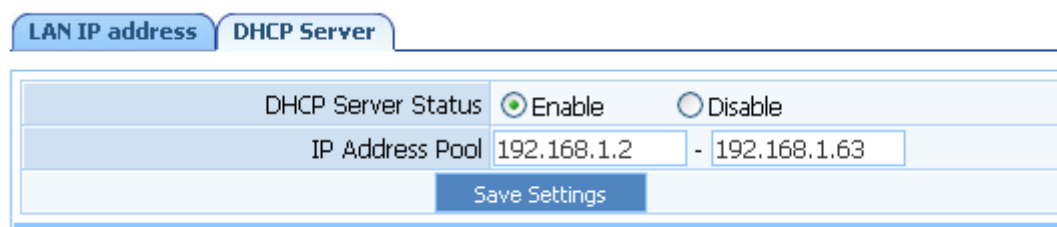


LAN IP address		DHCP Server	
IP Address	192.168.1.1		
Subnet Mask	255.255.255.0		
Save Settings			

Figure 4-18

The IP address of LAN port is used for access router itself by computers that connect to the router directly; here you can set IP address you need. The IP address format is like X.X.X.X, and default IP address is 192.168.1.1, the default subnet mask is 255.255.255.0.

4.6.2. DHCP Server



LAN IP address		DHCP Server	
DHCP Server Status	<input checked="" type="radio"/> Enable <input type="radio"/> Disable		
IP Address Pool	192.168.1.2 - 192.168.1.63		
Save Settings			

Figure 4-19

➤ DHCP Server Status

Keep the default setting "Enable", so router is able to use DHCP function. If a DHCP server has already existed in the network, please select "Disable".

➤ IP Address Pool

The IP Address pool is used for allocate IP address by DHCP server; The IP Address pool range is also changeable

4.7. Applications and Gaming

This item provides configuration items and related templates about optimize games and applications, including “Virtual server”, “DMZ”, and “UPNP”.

4.7.1. Virtual Server

ID	Description	Internal host IP address	Protocol	External Port	Internal Port	Delete
----	-------------	--------------------------	----------	---------------	---------------	--------

Figure 4-20

Some games, servers, and applications (such as BT, QQ video, Edunkey, Web server) are no longer effect when behind the NAT router, so this item provides function of port mapping from LAN to WAN.

➤ Description

Describe current virtual server item

➤ Internal Host IP Address

The “Internal Host IP Address” indicates IP address of the internal host using virtual server

➤ Protocol

The protocol item supplies several protocols. For example, if you have web server within LAN, you can select the HTTP template then the router will input port number 80 automatically

➤ External Port

Input an extranet port number(the users in Internet can see these ports)

➤ Internal Port

Input an intranet port number

4.7.2. DMZ

DMZ SETTING	
DMZ Status	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
DMZ Host IP Address	<input type="text" value="0.0.0.0"/>
<input type="button" value="Save Settings"/>	

Figure 4-21

DMZ opens all the ports of one computer, exposing the computer to the Internet. So it should only be used for some special-purpose, especial for Internet online games. Using this function you can select "DMZ" item and input IP address of DMZ host, then click "Save Setting". For the purpose of security, we suggested that using "Virtual server" instead of "DMZ"

4.7.3. UPNP

UPNP	
UPNP Status	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
<input type="button" value="Save Settings"/>	

Figure 4-22

The UPnP function supports load Application's port forward record automatically. Select "Enable" to enable this function

4.8. Application gateway

VPN is commonly used for encapsulate and encrypt data across the public network. For VPN tunnel, the router supports IPSEC pass-through, PPTP pass-through and L2TP pass-through

VPN Pass-through	
PPTP Pass-through	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
L2TP Pass-through	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
IPSEC Pass-through	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
<input type="button" value="Save Settings"/>	

Figure 4-23

➤ PPTP Pass-through

PPTP means the "Point to Point Tunneling Protocol", you can select "enable" to allow PPTP

pass-through the router

➤ L2TP Pass-through

L2TP means the “Layer 2 Tunneling Protocol”, you can select “enable” to allow L2TP pass-through the router

➤ IPSEC Pass-through

IPSEC (Internet Protocol Security) is a suite of protocols used to implement secure exchange; you can select “enable” to allow IPSEC pass-through the router

4.9. Security management

This feature provides security and network protection by using “Internet access control”, “Firewall” and some other options

4.9.1. MAC Filter

ID	MAC Address	Description	Rule	Delete
----	-------------	-------------	------	--------

Figure 4-24

You can filter wired users by enabling this function; thus unauthorized users can not access the network. Follow these steps to set MAC filter:

1. Add MAC address you want to control in the “MAC address” field (the format is XX-XX-XX-XX-XX-XX), then click “Add” button, and you will see the MAC address has displayed in the MAC list.
2. There are two items supplied, “Permit wireless connection for MAC address listed (others are Denied)” and “Deny wireless connection for MAC address listed (others are Permitted)”, Select the item you want, and click “Save Settings” button.

4.9.2. Internet Access Control

IP Filter Parameter						
IP Firewall Status	<input type="radio"/> Enable <input checked="" type="radio"/> Disable					
Default IP Firewall Rule	<input type="radio"/> Deny through the router for IP address listed, others are permitted <input checked="" type="radio"/> Permit through the router for IP address listed, others are denied					
Save Settings						
IP Filter List Management						
Description	<input type="text"/>					
Rule	Enable <input type="button" value="v"/>					
Source IP Address	<input type="text"/>					
Protocol and Port	ALL <input type="button" value="v"/> - <input type="text"/>					
Save Settings						
ID	Description	Source IP	Protocol	Destination Port	Rule	Delete

Figure 4-25

The rules of “Internet access control” based on source IP, port number and protocol. Follow these steps to set Internet Access Control:

1. You can select “Default IP Firewall Rule” and click “Save Settings” to enable “Internet Access Control” function. This is only the first step, you should continued to create appropriate rules for “Internet Access Control”.
2. Input description information for current access control rule in the “Description” field. Input IP address of host you want to restrict .If the rule has already existed in “Protocol Template”. You can select appropriate item and apply it. Or you can input protocol type and port number manually, click “add” button, then the item will displayed in the list.
3. There are two items supplied, “Permit wireless connection for MAC address listed (others are Denied)” and “Deny wireless connection for MAC address listed (others are Permitted)”, Select the item you want, and click “Save Settings” button
4. If you want to delete certain item on the list, select appropriate item on the list, click “delete” to delete it

4.9.3. DNS Filter

DNS Filter Parameter			
DNS Filter Status	<input type="radio"/> Enable	<input checked="" type="radio"/> Disable	
Default DNS Filter Rule	<input type="radio"/> Deny through the router for DNS Key words listed, others are Permitted <input checked="" type="radio"/> Permit through the router for DNS Key words listed, others are Denied		
<input type="button" value="Save Settings"/>			
DNS Filter List Management			
Rule	Enable ▼		
DNS Filter Key words	<input type="text"/>		
<input type="button" value="Add"/>			
ID	DNS Filter Key words	Rule	Delete

Figure 4-26

“DNS filter” is able to filter certain domain name such as www.sina.com. Follow these steps to set DNS filter:

1. You can select “Default DNS filter rule” and click “Save Settings” to enable “DNS Filter” function. This is only the first step, you should continued to create appropriate rules for “DNS Filter”.
2. Input website name or Domain name in the “DNS Key Words” field, such as www.163.com.
3. There are two items supplied, “Permit wireless connection for MAC address listed (others are Denied)” and “Deny wireless connection for MAC address listed (others are Permitted)”, Select the item you want, and click “Save Settings” button
4. If you want to delete certain item on the list, select appropriate item on the list, click “delete” to delete it

4.10. DDNS

The DDNS feature allows you using domain name (not IP address) to access Internet. Before you can use this feature, you need to register an account for DDNS service at DDNS service providers, such as “roay.cn”, “TZO.com”, “DynDNS”. For more information, you can visit <http://www.oray.net/Help>

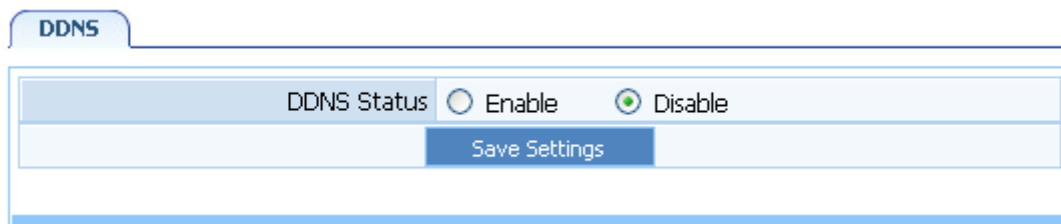


Figure 4-27

➤ DDNS Status

Current status of DDNS server

➤ DDNS Server Provider

For example, if you want to use service of “roay.cn”, you have to first register and accounts for it. Other DDNS service providers as the same

➤ Username, Password, Dynamic Domain Name

After register an DDNS account from DDNS service providers, you will get “User Name”, “Password”, ”Dynamic Domain Name”, Input information in appropriate field

4.11. Routing

Most of broadband router and wireless router are using NAT mode, so this feature is designed for most common network environment

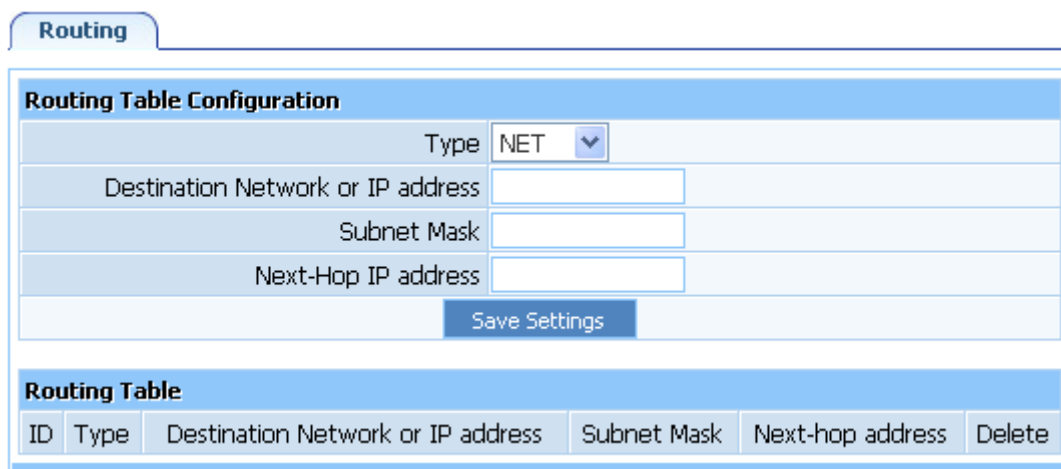


Figure 4-28

➤ Destination Network or IP Address

Specify a certain destination Network or IP address which static route forward to

➤ Subnet Mask

Subnet mask is used for distinguish Network portion and Host portion for an IP address

➤ Next-hop IP Address

This is an IP address of the next-hop device (and also is the gateway address for local host) that allows forwarding data between router and remote network or host

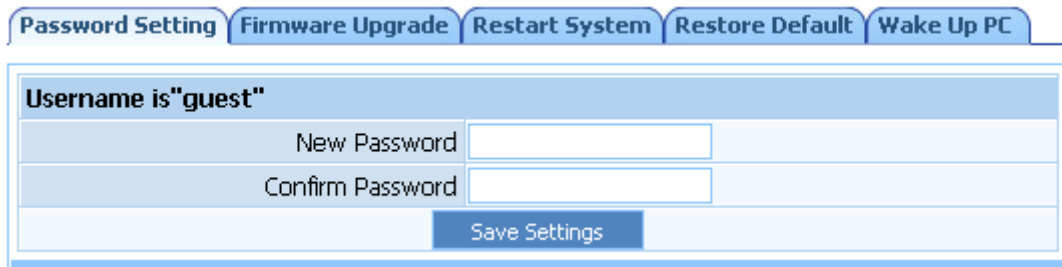
➤ Routing Table

You can check out all current route items , click “delete” button to delete an route item existed in routing table

4.12. System management

System management includes password setting, firmware update, restart system, restore default and wake up PC

4.12.1. Password setting

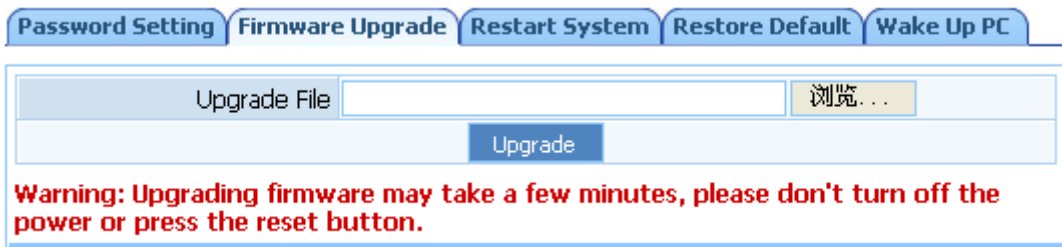


The screenshot shows a web management interface with five tabs: Password Setting, Firmware Upgrade, Restart System, Restore Default, and Wake Up PC. The Password Setting tab is active. Below the tabs, there is a header that reads "Username is 'guest'". Underneath, there are two input fields: "New Password" and "Confirm Password". A blue "Save Settings" button is located at the bottom right of the form area.

Figure 4-29

The default username/password is guest/guest. To ensure the Router's security, It is suggested that you change the default password to one of your choice, here enter a new password and then Re-enter it again to Confirm your new password. Click "Save Settings" button to save settings

4.12.2. Firmware upgrade

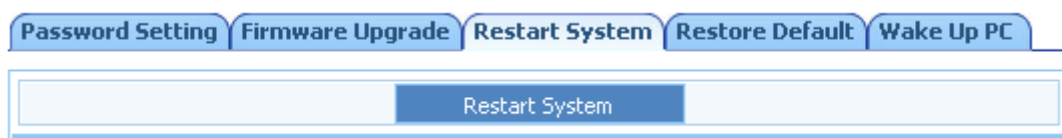


The screenshot shows the same web management interface with the Firmware Upgrade tab selected. There is an "Upgrade File" input field followed by a "浏览..." (Browse...) button. Below the input field is a blue "Upgrade" button. A red warning message is displayed below the form: "Warning: Upgrading firmware may take a few minutes, please don't turn off the power or press the reset button."

Figure 4-30

Click "Browse..." button and select a File to upgrade, after you have selected the appropriate file, click "Upgrade" button to execute upgrade procedure. Do not cut off the power supply during the process of upgrading

4.12.3. Restart system



The screenshot shows the same web management interface with the Restart System tab selected. A large blue "Restart System" button is centered in the main content area.

Figure 4-31

Click "Restart System" button to restart the router

4.12.4. Restore default



Figure 4-32

Click "Restore Default" button, the Router will erase all of your settings and replace them with the factory defaults, make sure you have backup current settings before click this button

4.12.5. Wake up PC

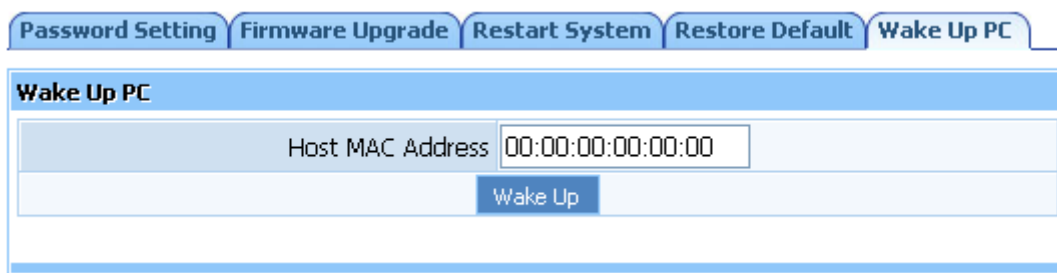


Figure 4-33

Input host MAC address, and then click button of "Wake up" to wake up the target host which in the LAN

4.13. Support

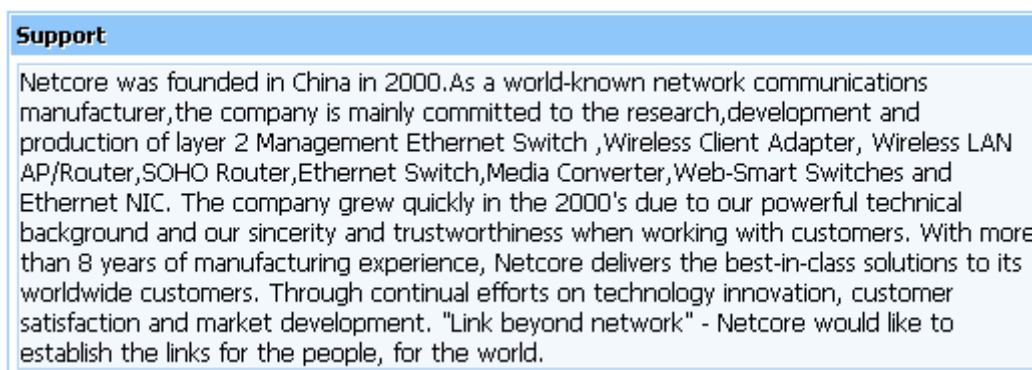


Figure 4-34

Thanks for your support

5. FAQ

1. I cannot access the Web-based Configuration Utility from the Ethernet computer used to configure the router.

- Check that the LAN LED is on. If the LED is not on, verify that the cable for the LAN connection is firmly connected.
- Check whether the computer resides on the same subnet with the router's LAN IP address.
- If the computer acts as a DHCP client, check whether the computer has been assigned an IP address from the DHCP server. If not, you will need to renew the IP address.
- Use the ping command to ping the router's LAN IP address to verify the connection.
- Make sure your browser is not configured to use a proxy server.
- Check that the IP address you entered is correct. If the router's LAN IP address has been changed, you should enter the reassigned IP address instead.

2. I forget Password (Reset the Router without Login)

- Plug out the power of the Router.
- Use a pencil to press and hold the default button on the back panel of the Router. Then plug in the power of the Router.
- Press and hold the default button wait for a few seconds until the CPU LED indicator stays green.
- Reboot the AP.
- After the above those steps, the manufacture's parameters will be restored in the Router. The default password is **guest**.

3. I have some problems related to Connection with Cable Modem

Please follow the following steps to check the problems:

- Check whether the DSL modem works well or the signal is stable. Normally there will be some indicator lights on the modem, users can check whether the signal is ok or the modem works well from those lights. If not, please contact the ISP.
- Check the front panel of the Router, there are also some indicator lights there. When the physical connection is correct, the Power light and the CPU light should be solid; the WAN light should be blinking. If you use your computer, the corresponding LAN port light should be blinking too. If not, please check whether the cables work or not.
- Repeat the steps in **WAN Setup** Connect with Internet through DSL Modem.

4. I can browse the router's Web-based Configuration Utility but cannot access the Internet.

- Check if the WAN LED is ON. If not, verify that the physical connection between the router and the DSL/Cable modem is firmly connected. Also ensure the DSL/Cable modem is working properly.
- If WAN LED is ON, open the System Overview page of the Web configuration utility and check the status group to see if the router's WAN port has successfully obtained an IP address.
- Make sure you are using the correction method (Dynamic IP Address, PPPoE, or Static IP)

as required by the ISP. Also ensure you have entered the correct settings provided by the ISP.

- For cable users, if your ISP requires a registered Ethernet card MAC address, make sure you have cloned the network adapter's MAC address to the WAN port of the router. (See the **MAC Address** field in **WAN Setup**.)

5. My wireless client cannot communicate with another Ethernet computer.

- Ensure the wireless adapter functions properly. You may open the Device Manager in Windows to see if the adapter is properly installed.
- Make sure the wireless client uses the same SSID and security settings (if enabled) as the NW725P.
- Ensure that the wireless adapter's TCP/IP settings are correct as required by your network administrator.
- If you are using a 802.11b wireless adapter, and check that the **802.11G Mode** item in **Wireless Basic Setting** page, is not configured to use 802.11G Performance.
- Use the ping command to verify that the wireless client is able to communicate with the router's LAN port and with the remote computer. If the wireless client can successfully ping the router's LAN port but fails to ping the remote computer, then verify the TCP/IP settings of the remote computer.