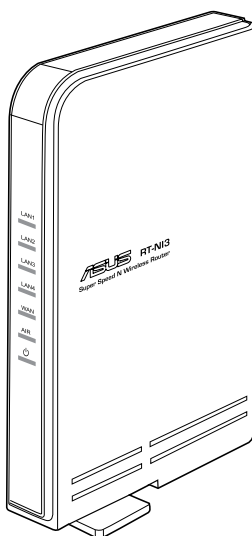




RT-N13 SuperSpeed N Wireless Router



User Manual

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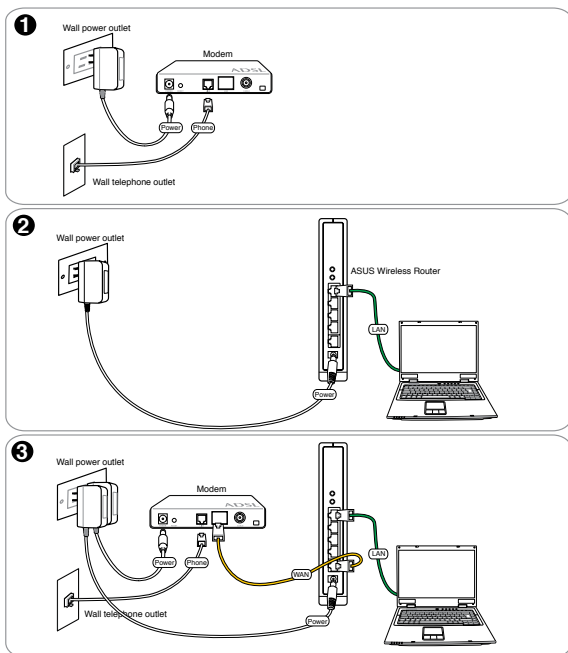


1. Package contents

- RT-N13 wireless router x 1
- Power adapter x 1
- Utility CD x 1
- RJ45 cable x 1
- Quick Start Guide x 1

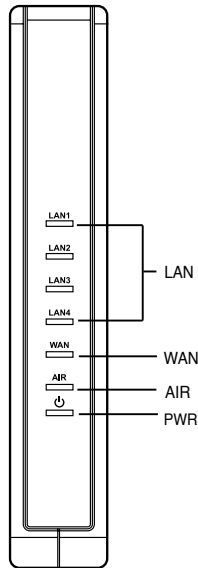
2. Connecting ADSL modem and wireless router

1) Cable connection





2) Status indicators



PWR (Power)

Off	No power
On	System ready
Slow blinking	Firmware upgrade failed
Fast blinking	WPS processing

AIR (Wireless Network)

Off	No power
On	Wireless system ready
Blinking	Transmitting or receiving data (wireless)

WAN (Wide Area Network)

Off	No power or no physical connection
On	Has physical connection to an Ethernet network
Blinking	Transmitting or receiving data (through Ethernet cable)

LAN 1-4 (Local Area Network)

Off	No power or no physical connection
On	Has physical connection to an Ethernet network
Blinking	Transmitting or receiving data (through Ethernet cable)



3. Getting started

The ASUS RT-N13 Wireless Router can meet various working scenarios with proper configuration. The default settings of the wireless router may change to meet your individual needs. Thus, before using the wireless router, check the basic settings to ensure that they all work in your environment.

ASUS provides a utility named WPS for fast wireless configuration. If you would like to use WPS for your router configuration, refer to chapter 5 for details.



Note: Wired connection for initial configuration is recommended to avoid possible setup problems due to wireless uncertainty.

1) Wired connection

The RT-N13 Wireless Router is supplied with an Ethernet cable in the package. The wireless router has an integrated auto-crossover function. Thus, you can either use a straight-through or a crossover cable for wired connection. Plug one end of the cable to the LAN port on the rear panel of the router and the other end to the Ethernet port on your PC.

2) Wireless connection

For establishing wireless connection, you need an IEEE 802.11b/g/n compatible WLAN card. Refer to your wireless adapter user manual for wireless connection procedures. By default, the SSID of the wireless router is “default” (in lower case), encryption is disabled and open system authentication is used.

3) Setting IP address for wired or wireless client

To access the RT-N13 Wireless Router, you must have the correct TCP/IP settings on your wired or wireless clients. Set the IP addresses of the clients within the same subnet of RT-N13.

Getting an IP address automatically

The RT-N13 Wireless Router integrates DHCP server functions, thus, your PC gets an IP address automatically.



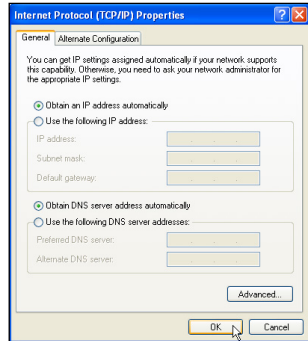
Note: Before rebooting your PC, switch ON the wireless router and ensure that the router is ready.



Setting up the IP address manually

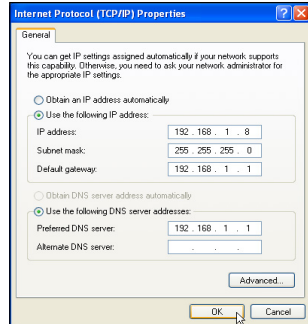
To manually set the IP address, you need to know the default settings of the wireless router:

- IP address 192.168.1.1
- Subnet Mask 255.255.255.0



To set up the connection with a manually assigned IP address, the address of your PC and the wireless router must be within the same subnet:

- IP address: 192.168.1.xxx (xxx can be any number between 2 and 254. Ensure that the IP address is not used by other device)
- Subnet Mask: 255.255.255.0 (same as RT-N13)
- Gateway: 192.168.1.1 (IP address of RT-N13)
- DNS: 192.168.1.1 (RT-N13), or assign a known DNS server in your network.



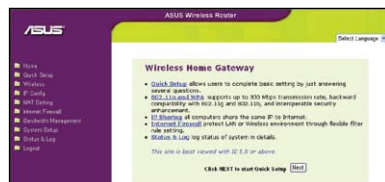
4) Configuring the wireless router

Follow the steps below to enter the Web configuration interface of RT-N13.

1. Enter the following address in your web browser: <http://192.168.1.1>
2. Key in the default user name and password in the login pop-up window, then click **OK**. For your reference, the following are the default login information of your device.
 - User name: admin
 - Password: admin

After logging in, you can see the ASUS Wireless Router home page.

The homepage displays quick links to configure the main features of the wireless router.





5) Quick setup

To start quick setup, click **Next** to enter the "Quick Setup" page. Follow the instructions to setup the ASUS Wireless Router.



1. Select your time zone and click **Next**.

Select Time Zone

Please choose the time zone where you are locating in.

Time Zone:

2. ASUS wireless router supports five types of ISP services: cable, PPPoE, PPTP, static WAN IP, and Telstra BigPond. Select your connection type and click **Next** to continue.

Select Internet Connection Type

RT-N13 supports several kinds of connection to Internet through its WAN port. Please select connection type you need. In addition, before getting on Internet, please make sure you have connected RT-N13's WAN port to your DSL or Cable Modem.

☒ Cable Modem or other connection type that gets IP automatically.

☐ ADSL or other connection that requires username and password. It is known as PPPoE.

☐ ADSL or other connection that requires username, password and IP address. It is known as PPTP.

☐ ADSL or other connection type that uses static IP address.

☐ Telstra BigPond Cable Modem Service.

☐ ADSL or other connection that requires username, password and IP address. It is known as L2TP.

Cable or dynamic IP user

If you are using services provided by cable ISP, select **Cable Modem or other connection that gets IP automatically**.

If your ISP provides you with the hostname, the MAC address, and the heartbeat server address, fill these information into the boxes on the setting page; if not, click **Next** to skip this step.

Fill Information Required by ISP

Your ISP may require the following information to identify your account. If not, just press Next to ignore it.

Host Name:

MAC Address:

HeartBeat or PPTP/L2TP (PPI) Server:

WAN IP Setting

Fill TCP/IP setting for RT-N13 to connect to Internet through WAN port.

Get IP automatically? ☐ Yes ☒ No

IP Address:

Subnet Mask:

Default Gateway:

Get DNS Server automatically? ☒ Yes ☐ No

DNS Server 1:

DNS Server 2:

PPPoE user

If you are using PPPoE services, select **ADSL connection that requires username and password**. It is known as PPPoE. You need to input the username and password provided by your ISP. Click **Next** to continue.

Set Your Account to ISP

If you apply an account with dynamic IP. You must get user account and password from your ISP. Please fill this data into the following fields carefully.

User Name:

Password:



PPTP user

If you are using PPTP services, select **ADSL connection that requires username, password and IP address**. Fill in the username, password and IP address provided by your ISP into the fields. Click **Next** to continue.

Set Your Account to ISP

If you apply an account with dynamic IP. You must get user account and password from your ISP. Please fill this data into the following fields carefully.

User Name:

Password:

WAN IP Setting

Fill TCP/IP setting for RT-N13 to connect to Internet through WAN port.

Get IP automatically? ☐ Yes ☒ No

IP Address:

Subnet Mask:

Default Gateway:

Get DNS Server automatically? ☐ Yes ☒ No

DNS Server 1:

DNS Server 2:

Static IP user

If you are using ADSL or other connection type that uses static IP address, select **ADSL or other connection type that uses static IP address**. Input the IP address, subnet mask, and default gateway provided by your ISP. You can specify DNS servers, or get DNS information automatically.

WAN IP Setting

Fill TCP/IP setting for RT-N13 to connect to Internet through WAN port.

Get IP automatically? ☐ Yes ☒ No

IP Address:

Subnet Mask:

Default Gateway:

Get DNS Server automatically? ☐ Yes ☒ No

DNS Server 1:

DNS Server 2:

- To set up your wireless interface, specify an SSID (Service Set Identifier), which is a unique identifier attached to packets sent over WLAN. This identifier emulates a password when a device attempts to communicate with your wireless router via WLAN.

Configure Wireless Interface

First step to set your wireless interface is to give it a name, called SSID. In addition, if you would like to protect transmitted data, please select the Security Level and assign a password for authentication and data transmission if it is required.

SSID:

Security Level:

WEP Key Type:

WEP Key 1:

WEP Key 2:

WEP Key 3:

WEP Key 4:

Key Index:

If you want to protect transmitted data, select a **Security Level** to enable encryption methods.

Medium: Only users with the same WEP key settings can connect to your wireless router and transmit data using 64bits or 128bits WEP key encryption.

High: Only users with the same WPA pre-shared key settings can connect to your wireless router and transmit data using TKIP encryption.



4. Input four sets of WEP keys in the WEP Key fields (10 hexadecimal digits for WEP 64bits, 26 hexadecimal digits for WEP 128bits). You can also let the system generate the keys by inputting a Passphrase. Record the Passphrase and the WEP keys in your notebook, then click **Finish**.

For example, if we select WEP 64bits encryption mode and input 11111 as the Passphrase, the WEP Keys are generated automatically.

Configure Wireless Interface

First step to set your wireless interface is to give it a name, called SSID. In addition, if you would like to protect transmitted data, please select the Security Level and assign a password for authentication and data transmission if it is required.

SSID: RT-N13

Security Level: Medium(WEP-64bit)

WEP Key Type: HEX

Passphrase: 11111

WEP Key 1: 07CA306039

WEP Key 2: 6128764C9B

WEP Key 3: 6E2FFC3CB4

WEP Key 4: 15479009EF

Key Index: 1

Prev Finish

5. Click **Save&Restart** to restart the wireless router and activate the new settings.

Save & Restart

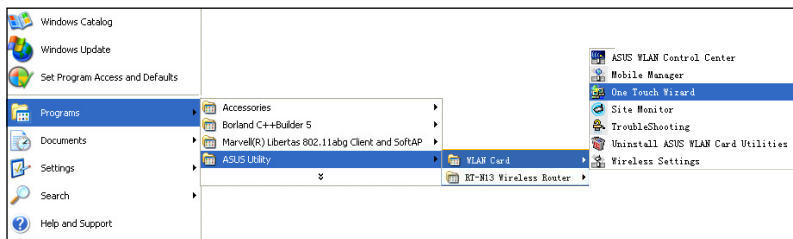
Save&Restart will save all setting you have changed to RT-N13 and restart it. Please click Save&Restart button to continue.

Save&Restart

6. To connect the wireless router from a wireless client, you can use Windows[®] Wireless Zero Configuration service to set up the connection. If you use ASUS Wireless Card on your computer, you can use the One Touch Wizard utility supplied in WLAN Card support CD for wireless connection.

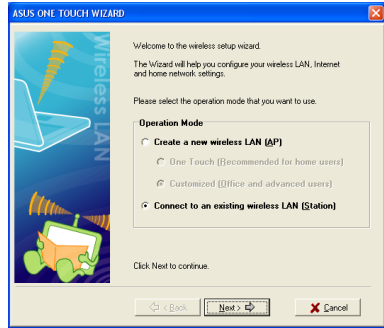
Configuring ASUS WLAN Card with One Touch Wizard

If you have installed ASUS wireless card together with its utilities and drives on your PC, click **Start -> All Programs -> ASUS Utility-> WLAN Card -> One Touch Wizard** to launch the One Touch Wizard utility.

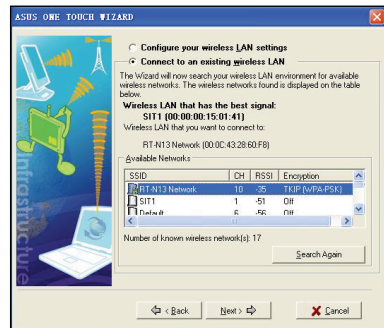




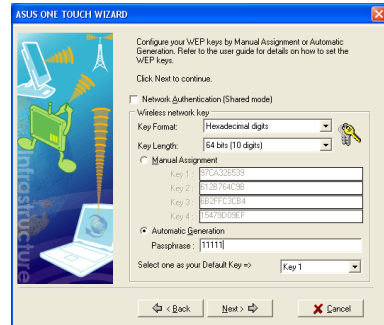
- 1) Select **Connect to an existing wireless LAN (Station)** radio button and click **Next** to continue.



- 2) One Touch Wizard searches and displays the available APs in the **Available Networks** list. Select RT-N13 and press **Next** to continue.

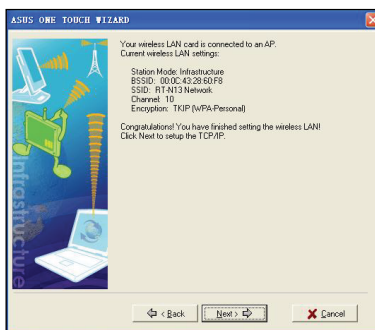


- 3) Set the authentication and encryption of your WLAN card the same with those at RT-N13. In the previous steps the **Key Length** is **64 bits**, **Passphrase** is **11111**. Click **Next** to continue.

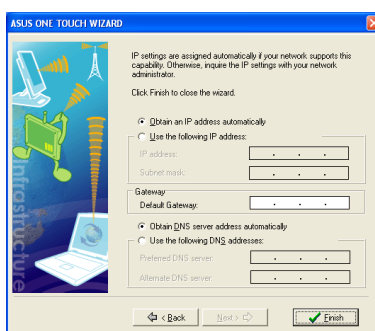




- 4) It takes several seconds for the wireless card to associate with RT-N13. Press **Next** to setup TCP/IP for your WLAN Card.



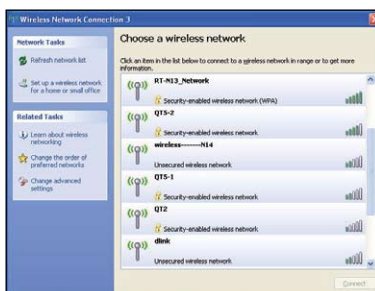
- 5) Setup the IP address of the WLAN Card according to your network condition. After the setup is complete, click **Finish** to exit the One Touch Wizard.



Configuring WLAN card with Windows® WZC service

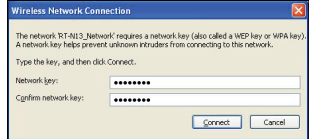
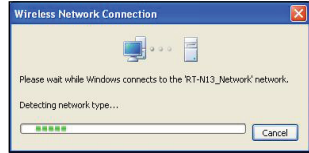
If you use non-ASUS wireless card, you can set up the wireless connection with Windows® Wireless Zero Configuration (WZC) service.

- 1) Double-click the wireless network icon on the task bar to view available networks. Select your wireless router and click **Connect**.



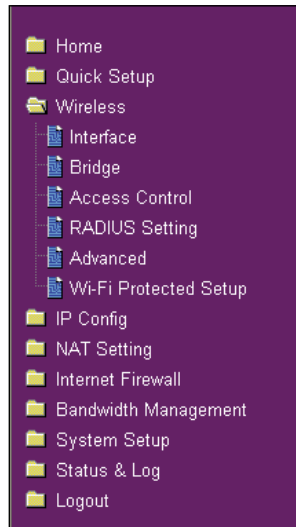


- 2) Input the 10-digit keys you have set on the wireless router and click **Connect**. The connection is complete within several seconds.



7. Configuring advanced features

To view and adjust other settings of the wireless router, enter the Web configuration page of RT-N13. Click on items on the menu to open a submenu and follow the instructions to setup the router. Tips show up when you move your cursor over each item.



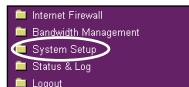


4. Wireless router features

This chapter provides setup examples of some frequently used router features. You can set up these features via your Web browser.

1) Choosing an appropriate operation mode

ASUS RT-N13 Wireless Router supports three operation modes: home gateway, router, and access point. Click **System Setup -> Operation mode** to open the configuration page.



Home gateway mode is for home or SOHO users who want to connect to their ISPs for Internet services. In this operation mode, NAT, WAN connection, Internet firewall functions are supported.

Router mode is for office use where multiple routers and switches co-exist. You can set up routing policies in this mode; however, NAT function is disabled.

Access point mode works when you setup RT-N13 as a wireless bridge. In this mode, all Ethernet ports on RT-N13 (4 LAN ports and 1 WAN port) are recognized as LAN ports. WAN connection, NAT, and Internet firewall functions are disabled in access point mode.

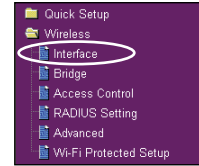
Select a proper mode which complies to your network scenario and press **Apply** button, and then you can continue to set up the advanced features for your RT-N13.

System Setup - Operation Mode	
RT-N13 supports three operation modes to meet different requirements from different group of people. Please select the mode that match your situation.	
<input checked="" type="radio"/> Home Gateway	<p>In this mode, we suppose you use RT-N13 to connect to Internet through ADSL or Cable Modem. And, there are many people in your environment share the same IP to ISP.</p> <p>Explaining with technical terms, gateway mode is, NAT is enabled, WAN connection is allowed by using PPPoE, or DHCP client, or static IP. In addition, some features which are useful for home user, such as UPnP and DDNS, are supported.</p>
<input type="radio"/> Router	<p>In Router mode, we suppose you use RT-N13 to connect to LAN in your company. So, you can set up routing protocol to meet your requirement in office.</p> <p>Explaining with technical terms, router mode is, NAT is disabled, static routing protocol are allowed to set.</p>
<input type="radio"/> Access Point	<p>In Access Point mode, 4 LAN ports and wireless devices are set to locate in the same local area network. Those WAN related functions are not supported here.</p> <p>Explaining with technical terms, access point mode is, NAT is disabled, wireless LAN and four LAN ports of RT-N13 are bridged together.</p>
<div>Apply</div>	



2) Setting up wireless encryption

RT-N13 provides a set of encryption and authentication methods to meet the different demands of home, SOHO, and enterprise users. Before setting up encryption and authentication for RT-N13, contact your network administrator for advice.



Click **Wireless -> Interface** to open the configuration page.

Wireless - Interface	
SSID:	RT-N13
Wireless Mode:	Auto <input type="checkbox"/> WPA by Protection
Channel Bandwidth:	20/40 MHz
Channel:	Auto
Extension Channel:	Auto
Authentication Method:	Open System
WPA Encryption:	TKIP+AES
WPA Pre-Shared Key:	111111
WEP Encryption:	WEP-64
WEP Key Type:	WEP-64
Passphrase:	
WEP Key 1:	
WEP Key 2:	
WEP Key 3:	
WEP Key 4:	
Key Index:	1
Network Key Rotation Interval:	3600



Note: For 802.11n performance, select 40MHz bandwidth. Channel option will depend on the bandwidth that you select.

Encryption

The encryption modes supported by RT-N13 are: WEP (64bits), WEP (128bits), TKIP, AES, and TKIP+AES.

WEP stands for Wired Equivalent Privacy, it uses 64bits or 128bits static keys to encrypt the data for wireless transmission. To setup WEP keys, set **WEP Encryption** to **WEP-64bits** or **WEP-128bits**, then manually type in four sets **WEP Keys** (10 hexadecimal digits for 64-bit key or 26 hexadecimal digits for 128-bit key). You can also let the system generate the keys by entering a **Passphrase**.

TKIP stands for Temporal Key Integrity Protocol. TKIP dynamically generates unique keys to encrypt every data packet in a wireless session.

AES stands for Advanced Encryption Standard. This solution offers stronger protection and increases the complexity of wireless encryption.

TKIP+AES is used when both WPA and WPA2 clients co-exist in the wireless network.



Authentication

The authentication methods supported by RT-N13 include: Open, shared key, WPA-PSK, WPA, and Radius with 80.211x.

Open: This option disables authentication protection for wireless network. Under Open mode, any IEEE802.11b/g client can connect to your wireless network.

Shared: This mode uses the WEP keys currently in use for authentication.

WPA/WPA2 and WPA-PSK/WPA2-PSK: WPA stands for WiFi-Protected Access. WPA provides two security modes: WPA for enterprise network, and WPA-PSK for home and SOHO users. For enterprise network, WPA uses the already existing RADIUS server for authentication; for home and SOHO user, it provides Pre-Shared Key (PSK) for user identification. The Pre-Shared Key consists of 8 to 64 characters.

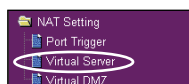
Radius with 802.1X: Similar with WPA, this solution also uses RADIUS server for authentication. The difference lays on the encryption methods: WPA adopts TKIP or AES encryption methods, while Radius with 802.1X does not provide encryption.

When authentication and encryption are set, click **Finish** to save the settings and restart the wireless router.

3) Setting up virtual server in your LAN

Virtual server is a Network Address Translation (NAT) function which turns a computer within a LAN into a server by allowing data packets of certain service, such as HTTP, from Internet.

1. Click **Virtual Server** in NAT Setting folder to open the NAT configuration page.



2. Select **Yes** to enable virtual server. For example, if host 192.168.1.100 is the FTP server that the user will access, it means all packets from Internet with destination port as 21 are to be directed to the host. Set Well-known Application to FTP. Port range to 21, Local IP to the host IP, Local Port to 21, Protocol to TCP.

NAT Setting - Virtual Server

To make services, like WWW, FTP, provided by a server in your local network accessible for outside users, you should specify a local IP address to the server. Then, add the IP address and network protocol type, port number, and name of the service in the following list, based on the list, the gateway will forward service request from outside users to the corresponding local server.

Enable Virtual Server? ☒ Yes ☐ No

Virtual Server List Add Del

Well-Known Applications:					
Port Range	Local IP	Local Port	Protocol	Protocol No.	Description
20:21	192.168.1.100	21	TCP		FTP Server (20:21)

3. Click **Finish**.

Restore Finish Apply

4. Click **Save & Restart** to restart the wireless router and activate the settings.

Save & Restart

Save&Restart will save all setting you have changed to RT-N13 and restart it. Please click Save&Restart button to continue.

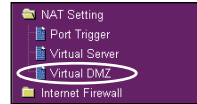
Save&Restart



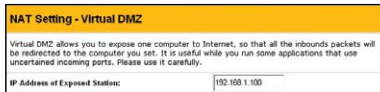
4) Setting up virtual DMZ in your LAN

To expose an internal host to the Internet and make all services provided by this host available to outside users, enable Virtual DMZ function to open all ports of the host. This function is useful when the host plays multiple roles such as HTTP server and FTP server. However, in doing this, your network becomes less secure.

1. Click **Virtual DMZ** in the NAT Setting menu.



2. Enter the IP address of the host and click **Finish**.



3. Click **Save & Restart** to restart the wireless router and activate the settings.



5) Setting up DDNS

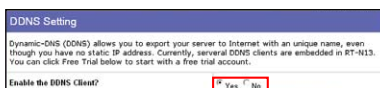
DNS enables host who uses static IP address to associate with a domain name; for dynamic IP user, they can also associate with a domain name via dynamic DNS (DDNS). DDNS requires registering and account-creating at ASUS DDNS service. The ASUS DDNS server has already recorded your IP address information. You just set your domain name and you can access USB Hard Disc Drive that plugged in RT-N13 via Internet.

ASUS DDNS Service

1. Click **DDNS** from IP Config folder.



2. Select **Yes** to enable the DDNS service.





3. Select WWW.ASUS.COM for detail setting. You do not necessary to key in **User Name of E-mail Address** and **Password or DDNS Key** if you select this server. Or you can select another website to register and apply for DDNS service. Please refer to Page 17 to see another service setting.

DDNS Setting

Dynamic-DNS (DDNS) allows you to export your server to Internet with a unique name, even though you have no static IP address. Currently, several DDNS clients are embedded in RT-N13. You can click Free Trial below to start with a free trial account.

Enable the DDNS Client? ☒ Yes ☐ No

Server: WWW.ASUS.COM

User Name or E-mail Address:

Password or DDNS Key:

Host Name:
The format should be 'xxx.asuscomm.com', 'xxx' is your hostname.

Enable wildcard? ☐ Yes ☒ No

Update Manually:

4. Enter the host name then click **Query**. The format should be xxx.asuscomm.com. (xxx is what you want to set up a host name)

DDNS Setting

Dynamic-DNS (DDNS) allows you to export your server to Internet with a unique name, even though you have no static IP address. Currently, several DDNS clients are embedded in RT-N13. You can click Free Trial below to start with a free trial account.

Enable the DDNS Client? ☒ Yes ☐ No

Server: WWW.ASUS.COM

User Name or E-mail Address:

Password or DDNS Key:

Host Name:
The format should be 'xxx.asuscomm.com', 'xxx' is your hostname.

asa.asuscomm.com

Enable wildcard? ☐ Yes ☒ No

Update Manually:

5. You can see this message when your host name is successfully registered.

DDNS Setting

Dynamic-DNS (DDNS) allows you to export your server to Internet with a unique name, even though you have no static IP address. Currently, several DDNS clients are embedded in RT-N13. You can click Free Trial below to start with a free trial account.

Enable the DDNS Client? ☒ Yes ☐ No

Server: WWW.ASUS.COM

User Name or E-mail Address:

Password or DDNS Key:

Host Name:
The format should be 'xxx.asuscomm.com', 'xxx' is your hostname.

asa.asuscomm.com

Enable wildcard? ☐ Yes ☒ No

Update Manually:

Microsoft Internet Explorer: Hostname update success

6. If host name's format does not follow xxx.asuscomm.com, you will see this message. Please re-enter your host name again.

DDNS Setting

Dynamic-DNS (DDNS) allows you to export your server to Internet with a unique name, even though you have no static IP address. Currently, several DDNS clients are embedded in RT-N13. You can click Free Trial below to start with a free trial account.

Enable the DDNS Client? ☒ Yes ☐ No

Server: WWW.ASUS.COM

User Name or E-mail Address:

Password or DDNS Key:

Host Name:
The format should be 'xxx.asuscomm.com', 'xxx' is your hostname.

asa.asu

Enable wildcard? ☐ Yes ☒ No

Update Manually:

Microsoft Internet Explorer: Should hostnames! The format should be "xxx.asuscomm.com"

7. If you want to change host name, please enter new host name and click **Query**. You can see this message when your host name is successfully updated.

DDNS Setting

Dynamic-DNS (DDNS) allows you to export your server to Internet with a unique name, even though you have no static IP address. Currently, several DDNS clients are embedded in RT-N13. You can click Free Trial below to start with a free trial account.

Enable the DDNS Client? ☒ Yes ☐ No

Server: WWW.ASUS.COM

User Name or E-mail Address:

Password or DDNS Key:

Host Name:
The format should be 'xxx.asuscomm.com', 'xxx' is your hostname.

asa.asuscomm.com

Enable wildcard? ☐ Yes ☒ No

Update Manually:



8. If the host name had been registered, you will see this message. Please re-enter your host name again.

The screenshot shows the 'DDNS Setting' page. A message box from 'Microsoft Internet Explorer' is displayed, stating: 'The hostname "aaa.suscomm.com" had been registered.' The page below the message shows the 'Enable the DDNS Client?' section with 'Server:' set to 'aaa.suscomm.com' and 'Host Name:' set to 'aaa.suscomm.com'. The 'Enable wildcard?' option is set to 'No'.

9. Click **Apply** then click **Finish**.

The screenshot shows the bottom of the 'DDNS Setting' page with two buttons: 'Finish' and 'Apply'.

10. Click **Save & Restart** to restart RT-N13 and activate settings.

The screenshot shows the 'Save & Restart' page. It contains the text: 'Save&Restart will save all setting you have changed to RT-N13 and restart it. Please click Save&Restart button to continue.' Below the text is a button labeled 'Save&Restart'.

11. You can type your host name in the address bar of browser to access your Hard Disk Drive plugged in RT-N13.

DynDNS Service

1. Select **Yes** to enable the DDNS service. If you do not have a DDNS account, click **Free Trial** to register for a trial account.

The screenshot shows the 'DDNS Setting' page. The 'Enable the DDNS Client?' section has 'Yes' selected. The 'Server:' dropdown menu is set to 'WWW.DYNDNS.ORG' with a 'Free Trial' link next to it.

2. After clicking Free Trial, you are directed to the homepage of www.DynDNS.org, where you can register and apply for DDNS service.

Read the policy and select **"I have read..."**.

The screenshot shows the 'DynDNS' 'Create Account' page. The 'Acceptable Use Policy' section is highlighted with a red box, and a red box at the bottom indicates the user must accept the policy.

3. Enter your user name, e-mail address, password, then click **Create Account**.

The screenshot shows the 'DynDNS' 'Create Account' page. The 'Username', 'E-mail Address', and 'Password' fields are highlighted with red boxes. The 'E-mail Address' field is pre-filled with 'account@suscomm.com'.



5. You can find the activation letter in your E-mail box. Click the hyperlink.

Your account, account, has been created. Directions for activating your account have been sent account@ssus.com. To complete registration, please follow the directions that you will receive. You must complete these steps within 48 hours to complete your registration.

You should receive the confirmation e-mail within a few minutes. Please make certain that your spam filter allows messages from support@ssus.com to be delivered. If you have not received this e-mail within an hour or so, request a [password reset](#).

Following the instructions in the password reset e-mail will also confirm your new account. If you don't receive the password reset e-mail, please contact support@ssus.com with your account ID.

<https://www.dyndns.com/account/confirm/hbWtkWZBNhJaYM4envCrqA>

7. Enter the user name and password then click **Login**.

We have a system announcements mailing list you may wish to subscribe to - this list is used for notifications of new services, changes to services, and important system maintenance/status notifications. To subscribe, simply send an e-mail to announce@lists.dyndns.org.

8. After logging in, you can see this welcome message.

the Journal,

9. Select **Services** tab.

You are currently logged in as: account [Logout](#)

[illegible]

10. Click **Add Dynamic DNS Host**.

	Add Host Services
My Account	
My Services	
Account Upgrades	
Waitinglist Outbound	
Precursor DNS	
SMA	
Primary Support	
We Zones	
Add Zone Services	
Add Host Services	
Dynatrace DMS	Add Dynatrace DMS Host
Static DNS	Add Static DNS Host
Webhosting	Add Webhosting
Mailhosting	Add Mailhosting
Network Monitoring	Add Network Monitoring
Account Settings	



11. Enter the host name then click **Add Host**.

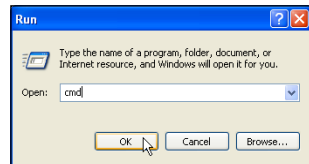
12. You can see this message when your hostname is successfully created.

13. Fill the account information into the DDNS setting fields of your wireless router.

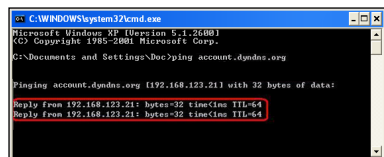
14. Click **Finish**.

15. Click **Save & Restart** to restart the wireless router and activate the settings.

16. Verify whether DDNS is working. Click **Start** menu and select **Run**. Type **cmd** and click **OK** to open the CLI console.



17. Type **ping account.dyndns.org** (your DDNS domain name). If you can see the reply like what is shown in the right picture, DDNS is working correctly.



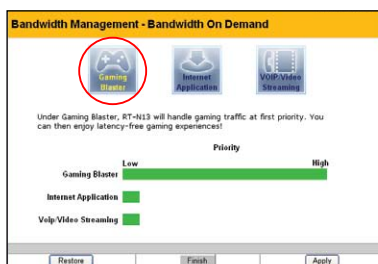


6) Setting up Bandwidth Management

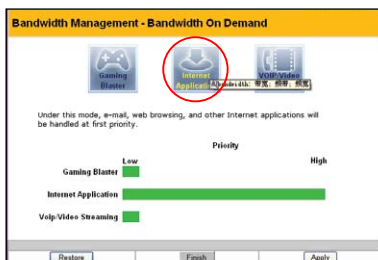
Bandwidth Management provides a mechanism that controls the traffic of your network. To set up bandwidth management:

1. Click **Basic Config** page in Bandwidth Management folder. In this page you can see four buttons including **Gaming Blaster**, **Internet Application**, and **VOIP/Video Streaming**. In this page, you can click each item to set its priority higher. After you click each item, the letters on the button turns yellow (see figures below) and the green bar behind it automatically grows longer, indicating its bandwidth status is the first priority. Click **Finish** and **Apply** to complete the configuration. The following figures shows different bandwidth priority settings:

Gaming Blaster



Internet Application



VOIP/Video Streaming





2. You can also configure the bandwidth manually by clicking "**User Specify Services**". Input the **IP address**, **destination port** and choose the **priority status** from the drop-down list.

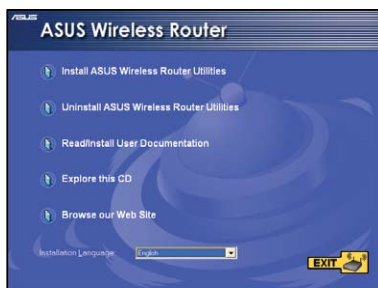
Service Name	Source IP Address	Destination Port	Priority
			1



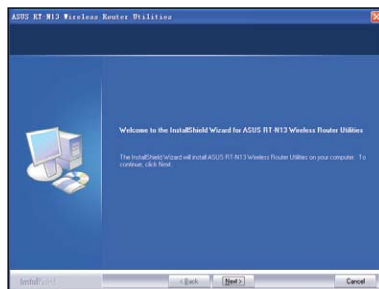
5. Setting up using ASUS utility

1) Utility Installation for RT-N13

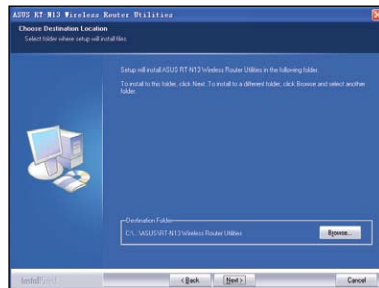
1. Click **Install ASUS Wireless Router Utilities** to run the setup installation program.



2. Click **Next** to continue.



3. Click **Next** to install the utility in the designated location.



-
- ASUS AT 100 Windows Recovery Utilities
- Select Program Folder
- Please select a program folder.
- Select will add program icons to the Program Folder listed below. You may type a new folder name or select one from the existing folders list. Click Next to continue.
- Program Folder
C:\WINDOWS\SYSTEM32\cmd.exe
- Existing Folders
C:\WINDOWS
C:\WINDOWS\WinSxS
C:\WINDOWS\Global CDS Labeling
Microsoft Office
Office\bin
Log Files\Errors
TotalVideo Converter
netstat
解壓壓縮(解壓)
PPT
- Install Back Next Cancel

-
- ASUS RT-M32 Wireless Router Utility
- InstallShield Wizard Complete
- Setup has finished installing ASUS RT-M32 Wireless Router Utility on your computer.
- ☒ Launch WiPS Wizard
- Install WiPS < Back Finish Cancel

-



2) WPS utility



1) To use WPS, you should use a wireless router and a wireless LAN card with WPS function.

2) Operating systems and wireless adapters that support WPS:

OS Support	Wireless Adapter Support
Vista 32/64	Intel wireless LAN card
	ASUS 167gv2 driver v3.0.6.0 or later
	ASUS 160N/130N driver v2.0.0.0 or later
XP SP2	Intel wireless LAN card
	ASUS 167gv2 driver v1.2.2.0 or later
	ASUS 160N/130N driver v1.0.4.0 or later
XP SP1 and 2000	ASUS LAN card with ASUS WLAN Utility
	ASUS 167gv2 driver v1.2.2.0 or later
	ASUS 160N/130N driver v1.0.4.0 or later

1. Follow the instructions to set up your hardware. When done, click **Next**.



Note: Use WPS Wizard with one wireless client at a time. If the wireless client computer cannot discover the wireless router while in WPS mode, shorten the distance between the client and the router.



2. Push the **WPS** button on the wireless router until its power LED is blinking fast. When done, click **Next** to continue.



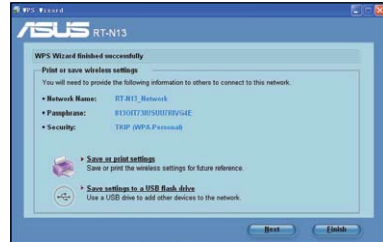
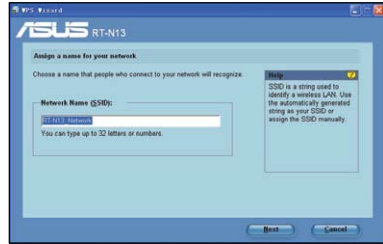
Notes:

- 1) When running WPS, the Internet connection pauses briefly, then reestablishes the connection.
- 2) If the WPS button is pushed without running the WPS Wizard, the PWR indicator flashes, and the Internet connection pauses briefly and then reestablishes the connection.

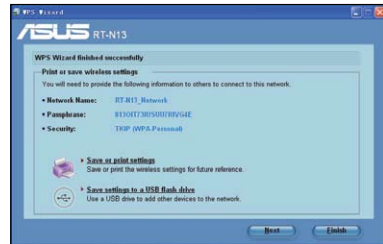




3. Wireless settings, including Network name and passphrase, are generated automatically. You can modify these settings manually. If your wireless router is already configured, select **Preserve original wireless router settings** to use the current value. Click **Next** to continue.

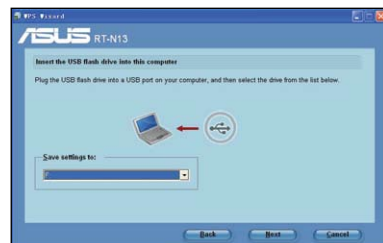


4. Setup is complete, press **Save or print Settings, or Save settings to a USB drive** button for future reference. Click **Next** to connect to the Internet.



If you need to use a USB drive to add other devices to the network, click **Save settings to a USB flash drive**.

- 1) Plug a USB flash drive into a USB port on your computer, and then select the drive from the dropdown list. When done, click **Next** to continue.

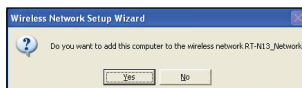




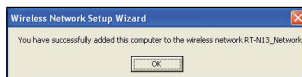
- 2) Remove the USB flash drive from this computer, and then plug to the computer that you want to add to the wireless network.



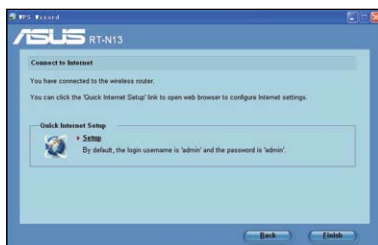
- 3) Locate the **SetupWireless.exe** from the USB drive, and double-click to run it. Click **Yes** to add this computer to the wireless network.



- 4) Click **OK** to exit the **Wireless Network Setup Wizard**.



5. You have connected to the wireless router. If you need to configure the Internet settings, click **Setup** to open the web browser. Click **Finish** to exit the **WPS Wizard**.

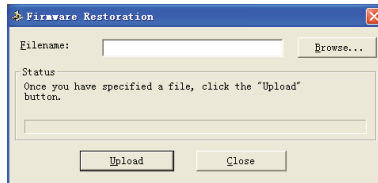




3) Firmware Restoration

This utility will automatically search out failed ASUS Wireless Routers and upload a firmware that you specify. The process takes about 3 to 4 minutes and during this process the PWR, AIR, and WAN LEDs will remain lit while the LAN LED will flash slowly.

The Firmware Restoration utility is an emergency rescue tool to restore a ASUS Wireless Router which has failed during a previous firmware upload. A failed firmware upgrade will cause the ASUS Wireless Router to enter a failure mode, waiting for the user to use the Firmware Restoration utility to find and upload a new firmware. This is not a firmware upgrade utility and cannot be used on a working ASUS Wireless Router. Normal firmware upgrades must be done through the web manager.



Using a Hub

If you have problems upload a firmware while using a network hub, try connecting your computer directly to the LAN port. Either 10Base-T or 100Base-TX connections will work.



6. Configure RT-N13 under Vista OS

The Windows Simple Config function, which is preinstalled in the ASUS RT-N13, enables the device to be configured via WCN Net process of Windows Vista.

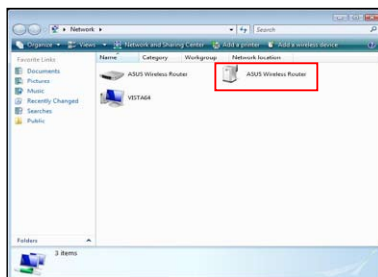


Note: The WCN Net process of Windows Vista can only discover the device when it is not configured and is in the default settings state. If the device is configured, you have to set up the device by WEB or EZsetup. You can also push the Reset button and then begin WCN-NET setup.

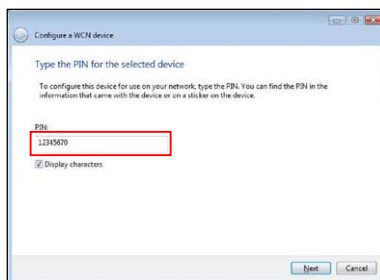
1) Configuring the device

Follow the steps below to configure the device using WCN-Net process of Windows Vista:

1. Connect the device to your PC and power on it.
2. Click **Start > Network** from the Vista desktop. The Network screen appears.
3. Double-click **ASUS Wireless Router**.

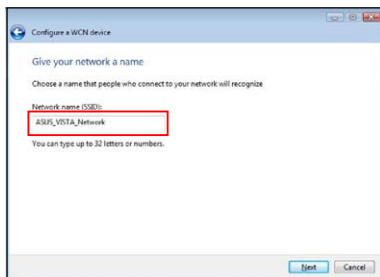


4. A screen prompts you to enter the PIN, which is located on the sticker posted on the device. Enter the PIN in the **PIN** box, then click **Next**.

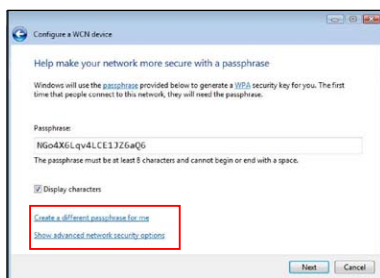




5. Give the network a name and type it in the **Network name** box, then click **Next**.



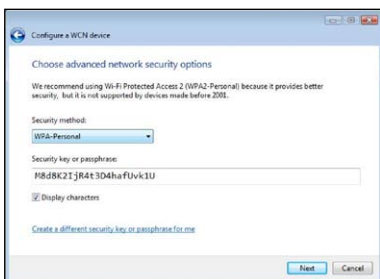
6. A Passphrase is generated for WPA security for the network. Click **Next** from this screen.



If you want to create a different passphrase, click **create a different passphrase for me**. If you want to use security method other than WPA-Personal, click **Show advanced network security options**.

Refer to the following screens for **Create a different passphrase** and **Security methods**.

Create a different passphrase

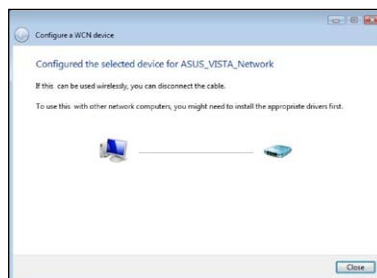




Four security methods



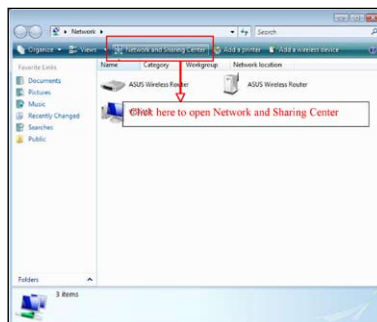
7. Click **Next** from the above screens after the configuration is completed. The complete configuration screen appears as shown below. Click **Close** to finish the process and exit.



2) Setting up the network sharing center

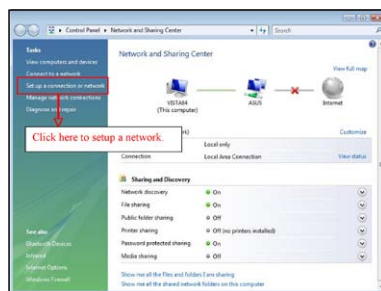
Follow the steps below to set up a sharing center to allow the network users to share printer, file and media.

1. Connect the device to your PC and power it on.
2. Click **Network and Sharing Center** in the navigation bar. The **Network and Sharing Center** screen appears.

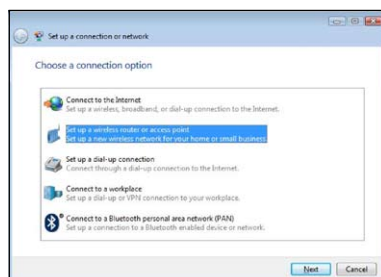




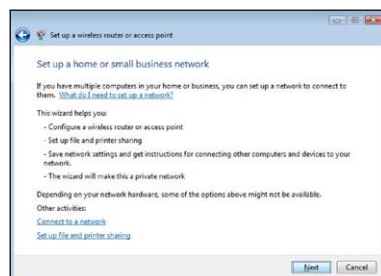
- Click **Set up a wireless router or network**.



- Choose **Set up a wireless router or access point**, then click **Next**.



- Click **Next**.

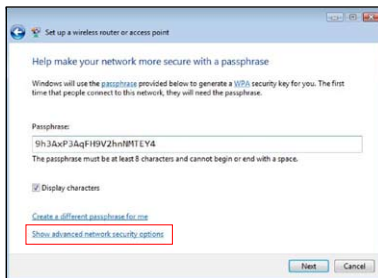


- In the screen that appears, type a network name in the **Network name** box, then click **Next**. A passphrase is generated for the WPA security.

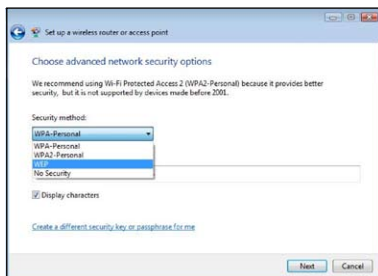




- Click **Next**. If you want to use security methods other than WPA-Personal, click **Show advanced network security options**.



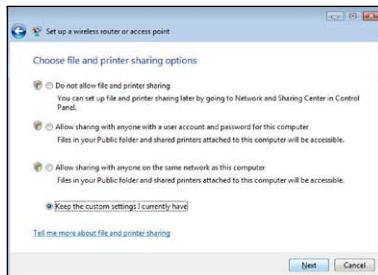
- Choose a security method and click **Next**.



- A screen prompts you to enter the PIN for the device. Enter the PIN, which is located on the sticker posted on the device, then click **Next**.

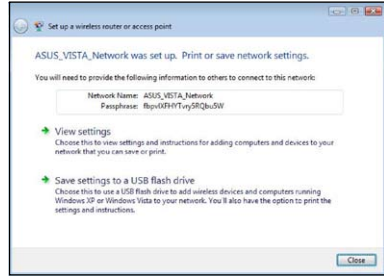


- Choose a file and printer sharing option and click **Next**.



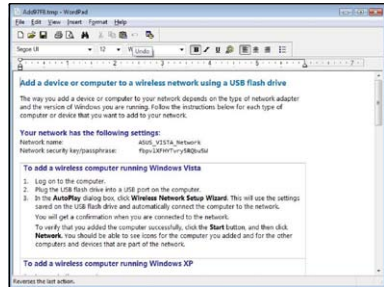


A screen appears showing that the set up is complete as shown below.

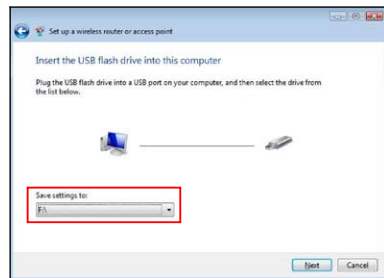


11. From the above screen you can choose to **View settings** or **Save settings to a USB flash drive**. The respective screens are shown below.

View settings screen

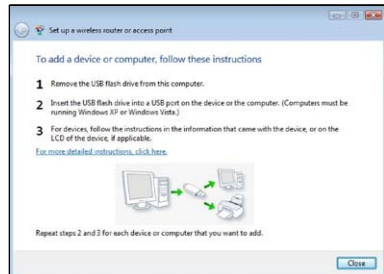


Save settings to a USB flash drive screen



12. When **Save settings to a USB flash drive screen** appears, plug a USB flash drive into your computer, then select the drive from the **Save settings to** box and click **Next**. The settings start to be saved into the USB drive.

After the saving process is completed, a screen appears to instruct you to add computer or other devices into the network. Follow the instructions to add computers and devices into your network.

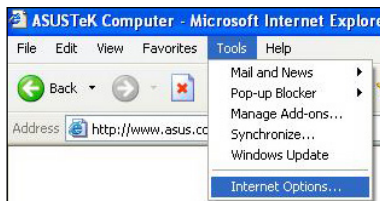




7. Troubleshooting

Cannot access web browser for router configuration

1. Open a web browser and open "Internet Options" dialog box.



2. Click on "Delete Cookies" and "Delete Files".



Cannot Establish Connection via Wireless

Out of Range:

- Put the router closer to the wireless client.
- Try to change the channel setting.

Authentication:

- Use wired connection to connect to router.
- Check the wireless security setting.
- Do the hard reset on the wireless router by pressing the Reset button on the rear panel for more than 5 seconds.

Couldn't find the router:

- Do the hard reset on the wireless router by pressing the Reset button on the rear panel for more than 5 seconds.
- Check the setting in the wireless adapter such as SSID and encryption setting.



Cannot get access to the Internet via wireless LAN adapter

- Move the router closer to the wireless client.
- Check whether the wireless adapter is connected to the correct AP.
- Check whether the wireless channel in use conforms to the channels available in your country/ area.
- Check encryption setting.
- Check whether the ADSL or Cable connection is correct.
- Retry using another Ethernet cable.

Internet is not accessible

- Check the lights on ADSL modem and the Wireless Router.
- Check whether the "WAN" LED on the Wireless Router is ON. If the LED is not ON, change the cable and try again.

When ADSL Modem "Link" light is ON (not blinking), this means Internet Access is Possible.

- Restart your computer.
- Refer to the Quick Setup Guide of the wireless router and reconfigure the settings.
- Check whether the WAN LED on the router is ON or not.
- Check wireless encryption settings.
- Check whether the computer can get the IP address or not (via both wired network and wireless network).
- Ensure that your Web browser is configured to use the local LAN, and is not configured to use a proxy server.

If the ADSL "LINK" light blinks continuously or stays off, Internet access is not possible - the Router is unable to establish a connection with the ADSL network.

- Ensure that your cables are all correctly connected .
- Disconnect the power cord from the ADSL or Cable modem, wait a few minutes, then reconnect the cord.
- If the ADSL light continues to blink or stays OFF, contact your ADSL service provider.



Network name or encryption keys are forgotten

- Try to setup the wired connection for setup the wireless encryption again.
- Do the hard reset on the wireless router by pressing the Reset button on the rear panel for more than 5 seconds.

How to reset to defaults

The following are factory default values. If you push the Restore button on the back of the ASUS Wireless Router for over 5 seconds, or click the “Restore” button on the “Factory Default” page under “Advanced Setup”, the following default settings overwrite the old settings on your wireless router.

User Name:	admin	Subnet Mask:	255.255.255.0
Password:	admin	DNS Server 1:	192.168.1.1
Enable DHCP:	Yes	DNS Server 2:	(Blank)
IP address:	192.168.1.1	SSID:	default
Domain Name:	(Blank)		



8. Appendix



FCC Warning Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This 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.



CAUTION:

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

Prohibition of Co-location

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Safety Information

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use on the supplied antenna.



Declaration of Conformity for R&TTE directive 1999/5/EC

Essential requirements – Article 3

Protection requirements for health and safety – Article 3.1a

Testing for electric safety according to EN 60950-1 has been conducted. These are considered relevant and sufficient.

Protection requirements for electromagnetic compatibility – Article 3.1b

Testing for electromagnetic compatibility according to EN 301 489-1 and EN 301 489-17 has been conducted. These are considered relevant and sufficient.

Effective use of the radio spectrum – Article 3.2

Testing for radio test suites according to EN 300 328- 2 has been conducted. These are considered relevant and sufficient.

CE Mark Warning



This is a Class B product, in a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

GNU general public license

Licensing information

This product includes copyrighted third-party software licensed under the terms of the GNU General Public License. Please see The GNU General Public License for the exact terms and conditions of this license. We include a copy of the GPL with every CD shipped with our product. All future firmware updates will also be accompanied with their respective source code. Please visit our web site for updated information. Note that we do not offer direct support for the distribution.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

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Preamble

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