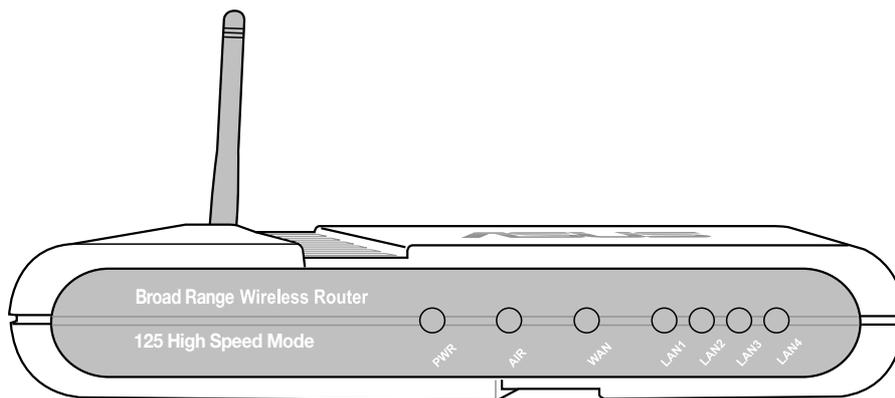




## WL550gE Wireless Router

(With Broad Range® & 125 High Speed Mode Technology)



## User's Manual

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## 1. Package Contents

- WL-550gE wireless router\*1
- Power adaptor\*1
- External antenna\*1
- Utility CD\*1
- RJ45 cable\*1
- Quick Start Guide\*1

## Manufacturer Contact Information

### ASUSTeK COMPUTER INC. (Asia-Pacific)

Company address: 15 Li-Te Road, Beitou, Taipei 11259

General (tel): +886-2-2894-3447      Web site address: [www.asus.com.tw](http://www.asus.com.tw)

General (fax): +886-2-2894-7798      General email: [info@asus.com.tw](mailto:info@asus.com.tw)

### ASUS COMPUTER INTERNATIONAL (America)

Company address: 44370 Nobel Drive, Fremont, CA 94538, USA

General (fax): +1-510-608-4555      Web site address: [usa.asus.com](http://usa.asus.com)

### Technical support

General support: +1-502-995-0883      Support (fax): +1-502-933-8713

Online support: <http://vip.asus.com/eservice/techserv.aspx>

### ASUS COMPUTER GmbH (Germany & Austria)

Company address: Harkort Str. 25, D-40880 Ratingen, Germany

General (tel): +49-2102-95990      Web site address: [www.asuscom.de](http://www.asuscom.de)

General (fax): +49-2102-959911      Online contact: [www.asuscom.de/sales](http://www.asuscom.de/sales)

### Technical support

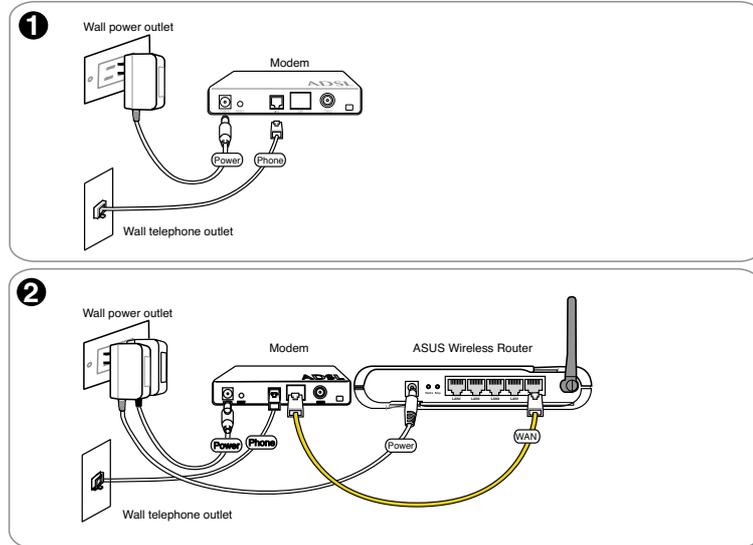
Components: +49-2102-95990      Online support: [www.asuscom.de/support](http://www.asuscom.de/support)

Notebook: +49-2102-959910      Support (fax): +49-2102-959911

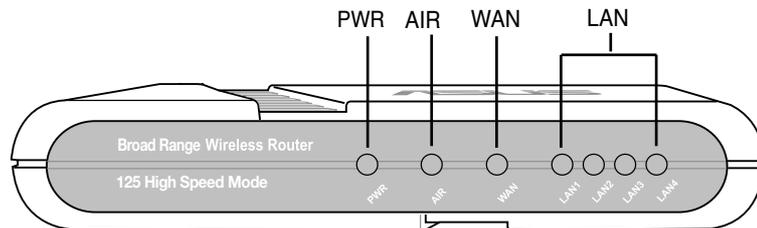


## 2. Connecting ADSL Modem and Wireless Router

### 1) Cable Connection



### 2) Status Indicators



#### PWR (Power)

Off	No power
On	System ready
Flashing-slow	Firmware upgrade failed
Flashing-quick	EZsetup processing

#### AIR (Wireless Network)

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

#### WAN (Wide Area Network)

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

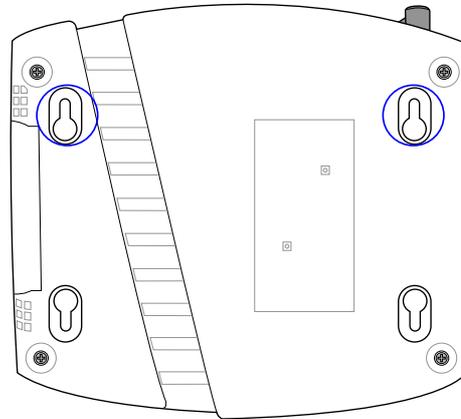


### 3) Wall Mount Option

Out of the box, the ASUS Wireless Router is designed to sit on a raised flat surface like a file cabinet or book shelf. The unit may also be converted for mounting to a wall or ceiling.

Follow these steps to mount the ASUS Wireless Router to a wall:

1. Look on the underside for the four mounting hooks.
2. Mark two upper holes in a flat surface using the provided hole template.
3. Tighten two screws until only 1/4" is showing.
4. Latch the upper hooks of the ASUS Wireless Router onto the screws.

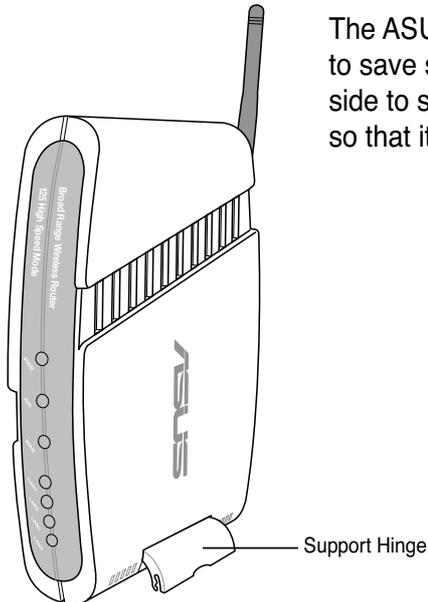


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Note: Readjust the screws if you cannot latch the ASUS Wireless Router onto the screws or if it is too loose.

---

### 4) Vertical Standing Option



The ASUS Wireless Router can also stand on its side to save space. Two hinges can be opened on the right side to support vertical standing. Orientate the antenna so that it points upwards.

### 3. Configuring the Wireless Router

**Note:** 1) Before you start, we recommend using a wired connection for initial configuration, which will avoid possible setup problem due to wireless uncertainty. 2) ASUS also provides an EZSetup button for fast wireless configuration. If you prefer EZSetup to arrange for your wireless network configuration, please refer to chapter 6 for more information.

The ASUS Wireless Router can be configured to meet various usage scenarios. Some of the factory default settings may suit your usage; however, others may need changing. Prior to using the ASUS Wireless Router, you must check the basic settings to guarantee it will work in your environment. Configuring the ASUS Wireless Router is done through a web browser. You need a Notebook PC or desktop PC connected to the ASUS Wireless Router (either directly or through a hub) and running a web browser as a configuration terminal. The connection can be wired or wireless. For the wireless connection, you need an IEEE 802.11g/b compatible device, e.g. ASUS WLAN Card, installed in your Notebook PC. You should also disable WEP and set the SSID to “default” for your wireless LAN device. If you want to configure the ASUS Wireless Router or want to access the Internet through the ASUS Wireless Router, TCP/IP settings must be correct. Normally, the TCP/IP setting should be on the IP subnet of the ASUS Wireless Router.

**Note:** Before rebooting your computer, the ASUS Wireless Router should be switched ON and in ready state.

#### 1) ASUS Wireless Router Wired Connection

One RJ-45 cable is supplied with the ASUS Wireless Router. Auto crossover function is designed into the ASUS Wireless Router so you can use either straight-through or crossover Ethernet cable. Plug one end of the cable into the WAN port on the rear of the ASUS Wireless Router and the other end into the Ethernet port of your ADSL or Cable modem.

#### Wireless-Connection

**Note:** If configuration is done via wired connection, ignore this.

Refer to your wireless adapter user's manual on associating with the ASUS Wireless Router. The default SSID of the ASUS Wireless Router is “default” (lower case), encryption is disabled and open system authentication is used.

#### 2) Setting IP address for Wired or Wireless Connection

##### Get IP Automatically

The ASUS Wireless Router incorporates a DHCP server so the easiest method is to set your PC to get its IP address automatically and reboot your computer. So the correct IP address, gateway, DNS (Domain Name System Server) can be obtained from the ASUS Wireless Router.



**Note:** Before rebooting your PC, the ASUS Wireless Router should be switched ON and in ready state.

### Setting IP Manually

If you want to set your IP address manually, the following default settings of the ASUS Wireless Router should be known:

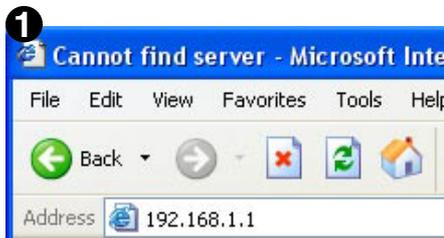
- IP address 192.168.1.1
- Subnet Mask 255.255.255.0.

If you set your computer's IP manually, it needs to be on the same segment. For example:

- IP address 192.168.1.xxx (xxx can be any number between 2 and 254 that is not used by another device)
- Subnet Mask 255.255.255.0 (same as the ASUS Wireless Router)
- Gateway 192.168.1.1 (this is the ASUS Wireless Router)
- DNS 192.168.1.1 (ASUS Wireless Router IP address or your own).



### 3) Configuring the Wireless Router



Enter the following address in your web browser: <http://192.168.1.1>



#### Defaults

User name: **admin** Password: **admin**



After logging in, you will see the ASUS Wireless Router home page. The homepage displays quick links to configurate the main features of the router.



## 4) Quick Setup

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



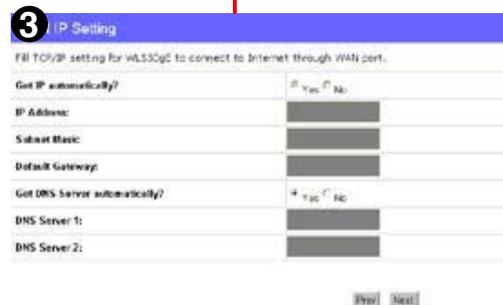
Select your time zone or the closest region. Click **Next** to continue.



ASUS wireless router WL550gE supports five types of ISP services— cable, ADSL (PPPoE, PPTP, static IP address), and Telstra BigPond. Since each service has its own protocols and standards, therefore, during the setup process, there are different identity settings demanded by WL-550gE. Select the correct connection type. Click **Next** to continue.

### 4-1. Cable User

If you are receiving services from cable or other ISP assigning IP addresses automatically, please select **Cable Modem or other connection that gets IP automatically**. If you are using cable services, your ISP may have provided you with hostname, MAC address, and heartbeat server, if true, please fill these information into the boxes on the setting page; if not, click **Next** to skip this step.





## 4-2. PPPoE User

If you are PPPoE service user, please select the second line. You would be required to input the username and password provided by your ISP.

**1** Internet Connection Type

WL550gE 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 WL550gE's WAN port to your DSL or Cable Modem.

Cable Modem or other connection type that gets IP automatically.

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

ADSL 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.

[Prev](#) [Next](#)

**2** Your Account to ISP

If you apply an account with dynamic IP. You must get user account and password from your ISP. Please fill the data into the following fields carefully. Or, if you apply an ADSL account with static IP, just ignore user name and password information.

User Name:

Password:

[Prev](#) [Next](#)

## 4-3. PPTP User

If you are using PPTP services, you would be asked to input the username, password, as well as IP address provided by your ISP.

**1** Internet Connection Type

WL550gE 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 WL550gE's WAN port to your DSL or Cable Modem.

Cable Modem or other connection type that gets IP automatically.

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

ADSL 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.

[Prev](#) [Next](#)

**2** Your Account to ISP

If you apply an account with dynamic IP. You must get user account and password from your ISP. Please fill the data into the following fields carefully. Or, if you apply an ADSL account with static IP, just ignore user name and password information.

User Name:

Password:

[Prev](#) [Next](#)

**3** IP Setting

Fill TCP/IP setting for WL550gE 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:

[Prev](#) [Next](#)

## 4-4. static IP User

If you are using ADSL or other connection type that uses static IP addresses, please select the fourth line, then input the IP address, subnet mask, and default gateway provided by your ISP. You could choose to specify certain DNS servers, or select to get DNS automatically.

**1** Internet Connection Type

WL550gE 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 WL550gE's WAN port to your DSL or Cable Modem.

Cable Modem or other connection type that gets IP automatically.

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

ADSL 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.

[Prev](#) [Next](#)

**2** IP Setting

Fill TCP/IP setting for WL550gE 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:

[Prev](#) [Next](#)



After setting the connection type, you are to set up your wireless interface,. First, give an SSID (Service Set Identifier), which is a unique identifier attached to packets sent over WLANs. This identifier emulates a password when a wireless device attempts communication on the WLAN. Because an SSID distinguishes WLANs from each other, access points and wireless devices trying to connect to a WLAN must use the same SSID.



Also, if you want to protect transmitted data, select a middle or high Security Level.

**Medium** : only users with the same WEP key are to connect to this access point and to transmit data using 64bits or 128bits WEP key encryption.

**High**: only users with the same WPA pre-shared key are to connect to this access point and to transmit data using TKIP encryption.

Click **Finish** to continue. You are prompted to save the settings. Click **Save&Restart** to save the settings to the ASUS Wireless Router and enable the new settings.



To adjust other settings, click on items on the menu to reveal a submenu and follow the instructions to setup the ASUS Wireless Router. Tips are given when you move your cursor over each item.



## 4. Commonly Used Advanced Features

The following pages are setup examples of commonly used advanced features. You could setup these features in web browser.

### 1) How to Setup Encryption

#### WL-550gE Encryption Setup

Please refer to Page 7 for encryption setup information or to use ASUS EZSetup features which enable a quick encryption setup through several clicks (Page 25-26).

### 2) Setting up a Server in Your LAN



Virtual Server is a kind of technology which enables a computer to receive specialized packets from network. It is to assign a certain host to act as a link between inner LAN and outside Web, FTP server. Virtual DMZ provides an all-port-match function, which grants specified computers unlimited authority to get access to network resources. The difference between Virtual Server and Virtual DMZ lies on the ports they enable respectively: Virtual Server just open several ports while Virtual DMZ open all ports to the network.

1



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

2

**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

Well Known Applications:

Port Range	Local IP	Local Port	Protocol	Description
20:21	192.168.1.100	21	TCP	FTP Server (20:21)

Select **Yes** to enable virtual server. For example, host 192.168.1.100 is set as virtual server with its ports 20,21 (FTP) accessible to outside users. Therefore, FTP requests from outside users would be forwarded to the host.

3

Restore Finish Apply

Click **Finish**.

4

**Save & Restart**

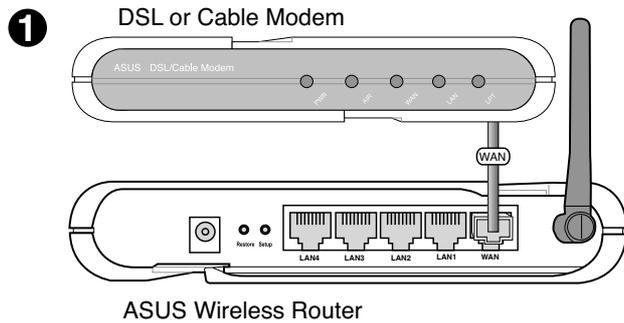
Save&Restart will save all setting you have changed to WL550gE and restart it. Please click **Save&Restart** button to continue.

Save&Restart

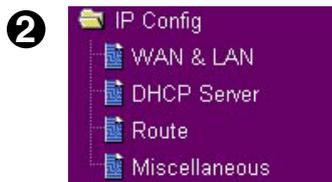
Click **Save & Start** to restart the router and apply the settings.



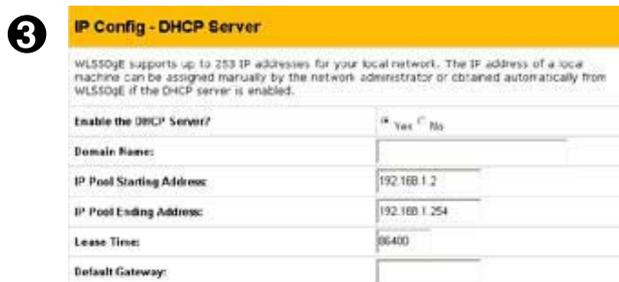
### 3) Setting up Switching Hub & Pure AP (No IP Share NAT)



Connect the LAN port from a DSL or Cable modem to one of the LAN ports on the wireless router.



Select **DHCP Server** in IP Config folder.



Disable the **DHCP Server** function.



Click **Finish**



Click **Save & Restart**.

### 4) Setting up Net Meeting, MSN, Online Gaming, and Remote Control Programs



Virtual DMZ allows you to expose one computer to Internet, so that all inbound packets will be redirected to the computer you set. It is useful while running some applications which using uncertain incoming ports. Please use it carefully.



First we are to get the IP address of the host. Open the Windows® **Start** menu and select **My Network Places**.



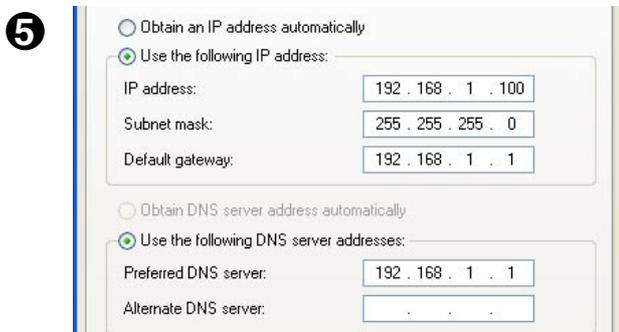
Click **View network connections**.



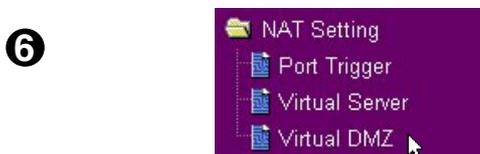
Right click **Local Area Connection** and select **Properties**.



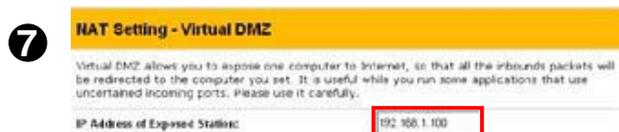
Double-click **Internet Protocol (TCP/IP)**.



Get the current TCP/IP settings.



Click **Virtual DMZ** in the NAT Settings menu.



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



Click **Save & Restart**.



## 5) Setting up DDNS



**Dynamic - DNS (DDNS)** allows user to export host name to Internet through DDNS service provider. Each time the ASUS Wireless Router connect to Internet and get an IP address from ISP, this function will update your IP address to DDNS service provider automatically, so that any user on Internet can access the wireless network or servers behind it through a predefined name registered in DDNS service provider.

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

**2** Enable the DDNS Client. If you have not acquired a DDNS account, click **Free Trial** to apply for one.

**3** After clicking Free Trial, you would be directed to [www.DynDNS.org](http://www.DynDNS.org), where you could register and apply for DDNS services.

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

**4** Enter your user name, e-mail address, password for this account, and then click **Create Account**.

**5** You would see this message informing that you account has been created. You will receive an e-mail to activate the account.

**6** Your DynDNS user account 'WL550gE' has been created. You must visit the confirmation address below within 48 hours of the time this e-mail was sent to complete the account creation process.

To confirm your account, please go to the address below:  
<https://www.dyndns.com/account/confirm/hbNtkWZBNhJaYm4emvCrqk>

Open your e-mail to find the activation letter. Click the hyperlink to activate your account.



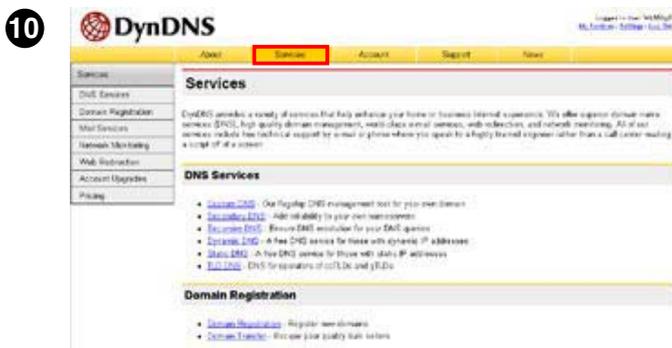
Then press **login**.



Enter your user name and password you have set when you were applying for the account.



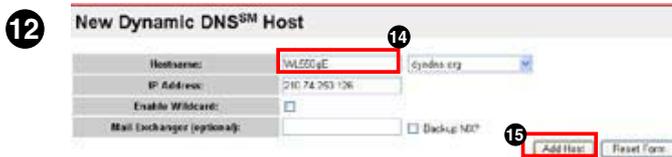
After logging in, you would see the welcome message.



Select **Services** tab.



Click **Add Dynamic DNS Host**.



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



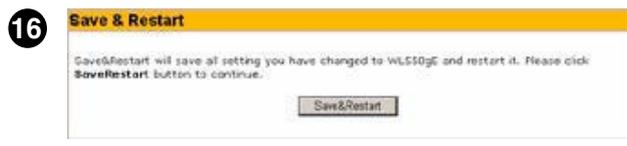
You will see this message when your hostname is successfully created.



Fill your DDNS account data in the DDNS Setting page of your router.



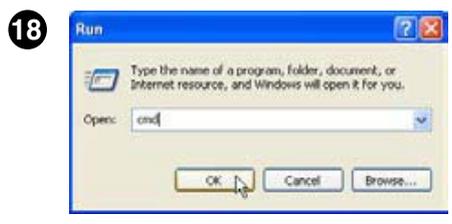
Click **Finish**.



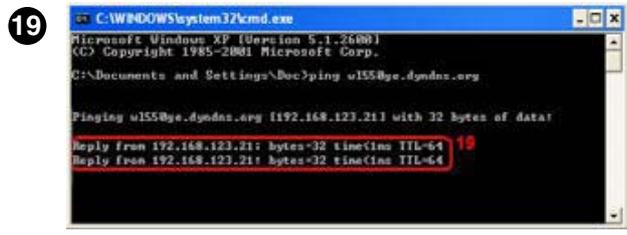
Click **Save & Restart**.



Now we are to verify whether DDNS is working. Click Start menu and select **Run...**



Type in **cmd** and click **OK** to open the DOS console.



Type **ping wl550ge.dyndns.org** (your host name). If reply information is displayed, the DDNS is working correctly.

## 6) Setting up WDS

Wireless bridge, also known as Wireless Distribution System or WDS, allows connection to one or more access points. We now take an example to show how to setup WDS for two APs. In this example, AP1, with MAC address of 00:0E:A6:A1:3F:6E and IP address of 192.168.1.1, will operate in "Hybrid" mode; AP2, with MAC address of 00:0E:A6:A1:3F:87 and IP address of 192.168.1.2, will also be set to "Hybrid" mode, but it would not assign IP addresses to clients. Only one DHCP server in the WDS system is allowed, that is AP1 in this example.

	Access Point A	Access Point B
SSID	WL550gE	WL550gE
LAN IP Address	192.168.1.1	192.168.1.2
Encryption	NONE	NONE
Wireless Bridge	Hybrid Mode	Hybrid Mode
MAC Address	000ea6a13f6e	000ea6a13f87
Allow Anonymous	NO	NO



1 First, we are to set up AP1. Choose Bridge in the Wireless folder.



Set the SSID as WL550gE and WEP Encryption as None. We suggest AP1 and AP2 using the same SSID.



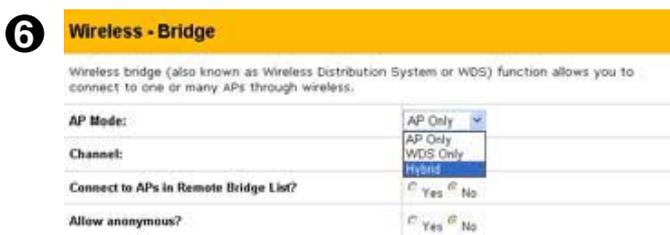
3 Select **WAN & LAN** in the **IP Config** folder.



4 Confirm that the IP address of AP1 is 192.168.1.1.



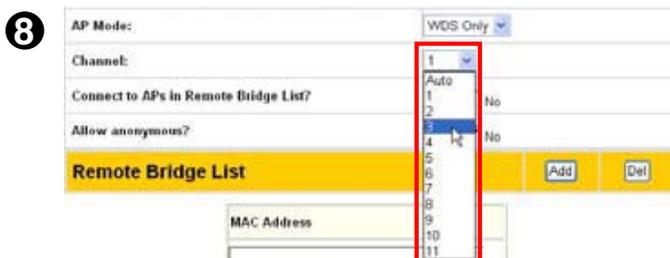
5 Enter the **Bridge** page again.



6 Select **Hybrid** as AP mode. Thus, AP1 will be both AP and WDS. If you want to use wireless function only, please choose **WDS Only**.



7 When you choose WDS or Hybrid mode, you will see a message demanding a fixed channel for WDS.



8 Select a fixed channel for WDS. In this example, we set it as Channel 3.



9

Channel:	3
Connect to APs in Remote Bridge List?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Allow anonymous?	<input type="radio"/> Yes <input checked="" type="radio"/> No

Enable **Connect to APs in Remote Bridge List** to connect to the other APs in your list.

If you want to allow anonymous user to login your network, you can select **Yes** in **Allow anonymous** field. In this example, we do not allow anonymous users.

10

**Remote Bridge List** Add Del

MAC Address	000ea6a13f87
-------------	--------------

Restore Finish Apply

Enter the MAC address of AP2, i.e. 000ea6a13f87.

Press **Add** button to add the MAC address to your list.

11

Restore Finish Apply

Press **Finish** button.

12

**Save & Restart**

Save&Restart will save all setting you have changed to WL550gE and restart it. Please click: **Save&Restart** button to continue.

Save&Restart

Press **Save & Start** button. Then, we are to setup AP2.

13

- IP Config
  - WAN & LAN
  - DHCP Server
  - Route
  - Miscellaneous

Enter the web-based configuration page on AP2. Repeat step 1-2 to setup the same SSID with AP1. Then select **WAN & LAN** page in **IP Config** folder.

14

**LAN IP Setting**

IP Address:	192.168.1.2
Subnet Mask:	255.255.255.0

Set the LAN IP address of AP2 to 192.168.1.2.

15

- IP Config
  - WAN & LAN
  - DHCP Server
  - Route
  - Miscellaneous

Next, we are to disable the DHCP server function of AP2 since AP1 is the only DHCP server in the wireless LAN. Enter the **DHCP Server** page in **IP Config** folder.

16

**IP Config - DHCP Server**

WL550gE supports up to 253 IP addresses for your local network. The IP address of a local machine can be assigned manually by the network administrator or obtained automatically from WL550gE if the DHCP server is enabled.

Enable the DHCP Server?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Domain Name:	
IP Pool Starting Address:	192.168.1.2
IP Pool Ending Address:	192.168.1.254
Lease Time:	86400
Default Gateway:	

Choose **No** to disable DHCP Server and press **Apply** button.



**17** **Manually Assigned IP List** Add Del

MAC Address	IP Address
000ea6a13f6e	

Repeat step 5-10. Then enter the MAC address of AP1, i.e., 000ea6a13f6e.

**18** Repeat step 10-12. After reboot, WDS would work.

## 7) Setting up Guest SSID



Guest SSID allows to create a guest account for wireless access while protecting non-shared private files from unauthorized access.

**1**

Enter the **Guest Account** setting page in **Wireless** folder in WL550gE setting page.

**2**

This page allows you to create guest account for wireless access.

Enable Guest Account?  Yes  No

SSID: WL550gE-Guest

Enable Guest Account and name the guest SSID for guest. In this example, we set "WL550gE-Guest" as guest SSID.

**3**

Authentication Method: Open System or Shared Key

WPA Encryption: TKIP

WPA Pre-Shared Key: [Redacted]

WEP Encryption: WEP-64bits

Passphrase: [Empty]

WEP Key 1 (10 or 26 hex digits): 2627F68597

WEP Key 2 (10 or 26 hex digits): 15AD1DD094

WEP Key 3 (10 or 26 hex digits): 0DC4761939

WEP Key 4 (10 or 26 hex digits): 01F1AD8558

Key Index: 1

Network Key Rotation Interval: 0

Set up security rule for guests to get connected to WL550gE with guest SSID.

**4**

IP Address: 192.168.2.1

Subnet Mask: 255.255.255.0

Enable the DHCP Server?  Yes  No

IP Pool Starting Address: 192.168.2.2

IP Pool Ending Address: 192.168.2.254

Lease Time: 36000

Set up LAN IP address which you would like to assign to your guests.

**5**

[Restore] **Finish** [Apply]

Press **Finish** button.

**6** **Save & Restart**

Save&Restart will save all setting you have changed to WL550gE and restart it. Please click Save&Restart button to continue.

[Save&Restart]

Press **Save & Restart** button and wait for system reboot.



While using guest SSID to establish a wireless connection, the guest is just to type the guest SSID to find the wireless router. Take ASUS WLAN Card as example, we are to type the guest SSID in the Network Name box in **Config** page.

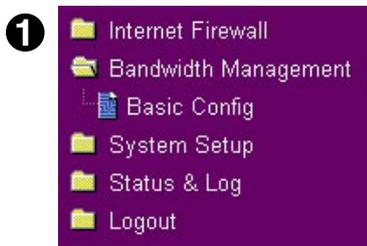


After getting connected to Guest SSID, the guest would get the IP address you have assigned to him.

## 8) Setting up Bandwidth



Bandwidth Management provides a mechanism to setup bandwidths according to different IP address and/or port on WL550gE. You could assign a bandwidth, including minimum bandwidth and maximum bandwidth, to a fixed IP address and/or a fixed port for download streams. You could also define upload bandwidth through proper configuration to NAT settings.



Enter the Basic Config page in Bandwidth Management folder in WL550gE web-based configuration interface.



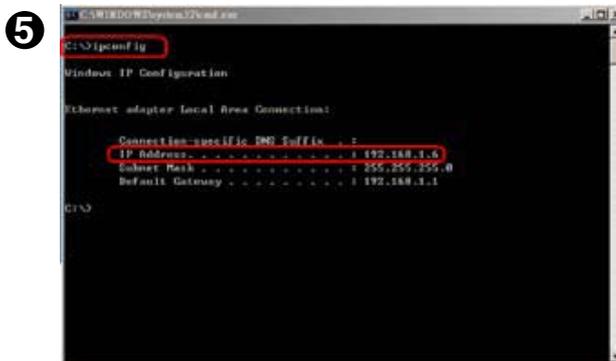
Enable Bandwidth Management function.



Next, we are to take an example to demonstrate the setup process of Bandwidth Management. If you want to limit some client within your LAN, we then have to know his address first. Open Start menu and click Run on the client.



In the command window, type **cmd** and press **OK**.



Type **ipconfig** at the prompt and press **Enter** to send out the command. The IP address of the client will then be displayed. Here we could see the client's IP address is 192.168.1.6.

Then we are to set up bandwidth management on WL550gE.

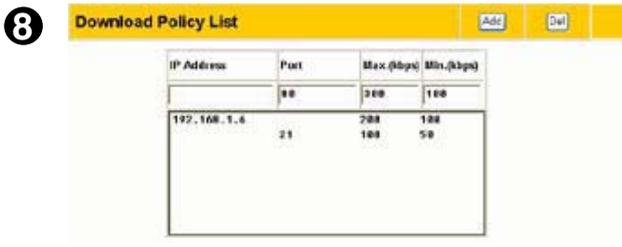
- 1) Download stream. If we want to limit the download bandwidth of 192.168.1.6 within a range from 100 to 200kbps, we just need to fill in the IP address, the maximum and the minimum speeds in the download policy list. The minimum bandwidth applies when the network is crowded with streams of other users. If the minimum speed is defined, the client could, regardless of the network conditions, receive a guarantee of transmit speed of 100kbps at least.



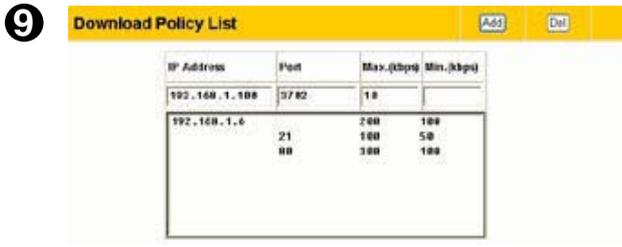
If we are to define the FTP download speed on all clients, we are just to leave IP address box blank, fill the **Port** with "21" and define proper speeds. Port 21 is reserved for FTP downloading.



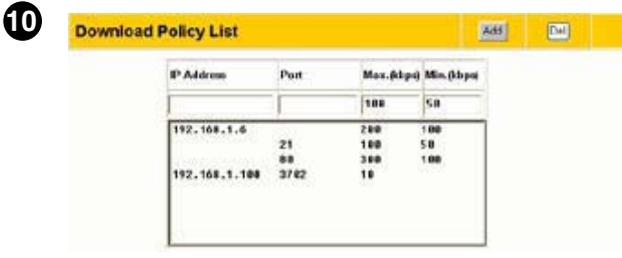
Then click **Add** to apply.



For setting up bandwidth policy for web access, please input "80" as the port number and define proper speeds.



For defining a bandwidth rule for a particular client, please input the IP address of the client and define the service by inputting the port number of the service, then set up proper speeds.



For configuring the rest applications on other clients, please leave IP address and port blank, and fill in proper speed that will apply to all other services.



2) About upload stream control on certain port, for example, we are to limit the upload bandwidth of port 2100 of 192.168.1.2 within 10-80kbps, we shall first set up NAT policy by entering Virtual Server Page in NAT folder.



Enable the Virtual Server and then add the rule to Virtual Server list.



Press **Apply** button.



**14 Upload Policy List** Add Del

Port	Max.(Kbps)	Min.(Kbps)
2100	80	10

Then get back to the Upload Policy List in Bandwidth Management setting page, define the port as "2100", Max. as "80", Min. as "10".

**15**

Restore Finish Apply

Press **Finish** button.

**16 Save & Restart**

Save&Restart will save all setting you have changed to WL550gE and restart it. Please click Save&Restart button to continue.

Save&Restart

Press **Save & Restart** to reboot the system and apply the settings.

## 9) Radio Power Control

Radio Power Control allows to adjust the output power for better sensitivity.

**Wireless - Advanced**

This section allows you to set up additional parameters for wireless. But default values are recommended.

Radio Power:  B: 19 dbm / 0: 19 dbm

Enable AfterBurner?

Hide SSID:  Yes  No

Set AP Isolated?  Yes  No

Data Rate(Mbps):

Basic Rate Set:

Fragmentation Threshold:

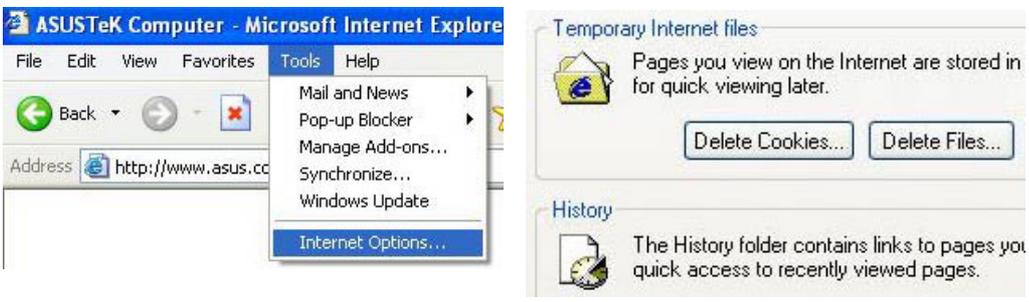
RTS Threshold:

**Note: The quality of wireless signal depends on both the output power and the environment.**

**We recommend using the default value.**

## 5. Trouble Shooting

### 1. Cannot access to web browser for router configuration



1. Open a web browser and open "Internet Options" dialog box.
2. Click on "Delete Cookies" and "Delete Files".

### 2. Cannot Establish Connection via Wireless

**Out of Range:**

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

**Authentication:**

- Can use a wire-connected computer to connect to router.
- Check the wireless security setting,
- Or can do a hard reset on the router.

**Couldn't find the router:**

- Do the hard restore on the router and test again.
- Check the setting in the wireless adapter.
- Such as SSID and encryption setting.

### 3. Cannot get access to the Internet via wireless LAN adapter

- Move the router closer to the 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 cable is plugged to the correct port.
- Retry by another Ethernet cable.



## 4. Internet is not accessible

- Check the lights on ADSL modem and Wireless Router
- Check the "WAN" led on the router is on or not. If the led isn't on, please change the cable to try again.

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

- Restart your computer.
- Reconfigure the settings for ASUS Router and please refer to the Quick Setup Guide of the WL-550gE.
- 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)
- Check whether your Web browser is configured to use the local LAN, and is not configured to use a proxy server.

### 4.2. 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.

- Check that your cables are connected properly.
- Disconnect the power cable from the modem, wait a few minutes, then reconnect the cable.
- If the ADSL light continues to blink or stays off, contact your ADSL service provider.

## 5. Network name or encryption keys are unknown

- Can try to setup the wired connection for setup the wireless encryption again.
- Can do the hard reset on the router.

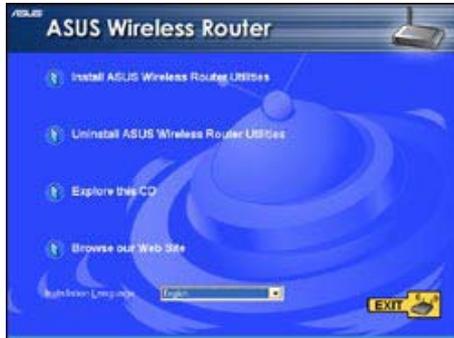
## 6. How to reset to defaults

The following are factory default values. These values will be present when you first receive your ASUS Wireless Router, if you push the restore button on the back of the ASUS Wireless Router over 5 seconds, or if you click the "Restore" button on the "Factory Default" page under "Advanced Setup".

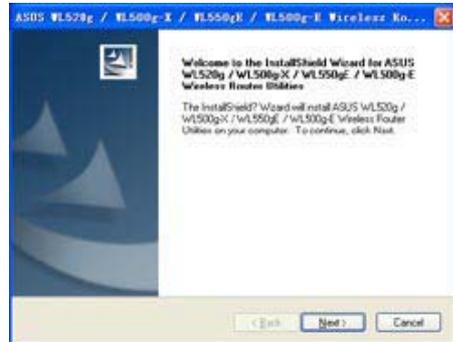
User Name:	admin	Subnet Mask:	255.255.255.0
Password:	admin	DNS Server 1:	192.168.1.1
Enable DHCP:	Yes (if plug in Wan cable)	DNS Server 2:	(Blank)
IP address:	192.168.1.1	SSID:	default
Domain Name:	(Blank)		

## 6. Additional Information: Router and Client Wireless Connection Setup

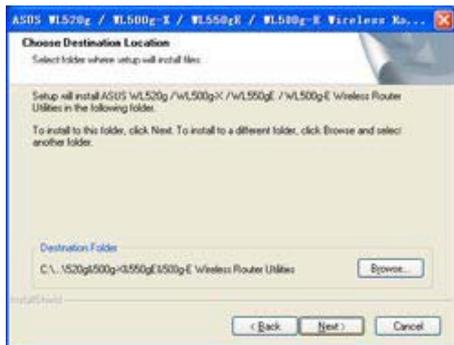
### 1) Utility Installation for WL-550gE



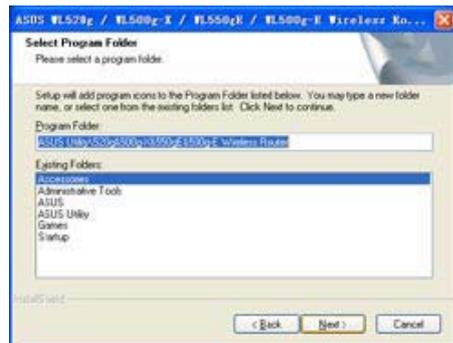
1. Click the first line **Install ASUS Wireless Router Utilities** to run the setup installation program.



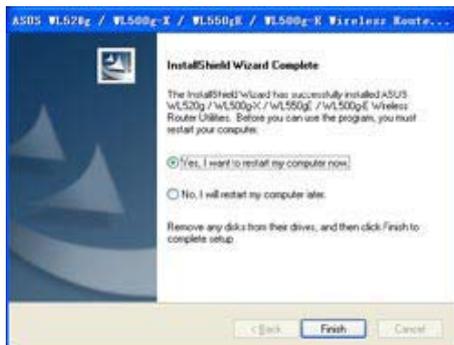
2. Click **Next** to continue.



3. Click **Next** to confirm the designated location for installation.



4. Select a program folder and click **Next**.



5. After completing installation, Restart Computer dialog box will appear. Select **Yes** and press **Finish** to restart your computer.

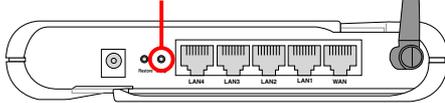


6. Open the **EZSetup Wizard**.

## 2) EZSetup (Default)

Wireless LAN setup will complete in two easy steps.

- 1) Push **EZSetup** over 3 sec. and release.



- 1) If the setup button is pushed without running the EZsetup wizard utility, the PWR indicator will flash and Internet connections will pause for a short period but will then return to normal operation without change.
- 2) You must have **ASUS** wireless clients such as WL-100gE, WL-100g Deluxe and WL-167g to use WL-550gE EZSetup.



Click the **EZSetup** button in the utility.

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



Security-enabled wireless LAN environment is built now. You can print your key and your other network settings for your reference.

Wireless LAN setup is complete. Click **Next** to make Internet connection settings.



Choose the time zone where you are located in.



Select the connection type (Cable or ADSL) you use. (Example: Cable modem or other connection type that gets IP automatically )

(ISP requirements depend on selection in the connection type.)

Depending on the connection type you selected, you may require additional information from your ISP. Some fields are optional and may be left blank.

**7** Depending on the service level you applied for with your ISP, your IP may be random (automatic) or fixed (enter manually).

Example 1: Cable Modem or other connection type that gets IP address automatically

Example 2: ADSL or other connection type that uses static IP address.



### 3) EZSetup (Customized)



Only differences between the default setup will be shown below. Select the **Customization** check box for advanced wireless LAN functions.



You can check for automatic or uncheck for manual wireless network naming.

You must enter a name if unchecked.



You can choose to use automatic or manual security key.

If all your clients are using ASUS WPA capable wireless network adapters, you can select **WPA** for extra strength security. (This selection will only be available for ASUS WPA adapters.)

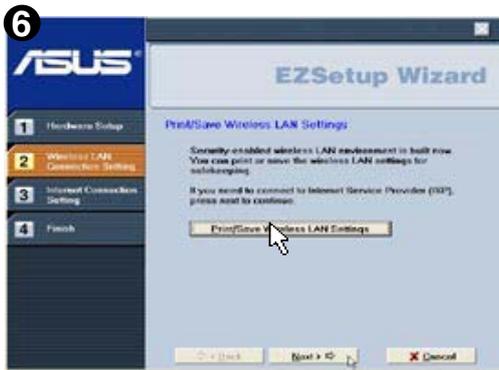
(WEP or WPA encryption depends on security selection in the previous screen.)



If you chose "Manually assign", enter a WEP (Wired Equivalent Privacy) key following the guideline as shown.



If you chose “Manually assign” and selected the WPA check box , enter a WPA (Wi-Fi Protected Access) key following the guideline as shown.



Security-enabled wireless LAN environment is built now. You can print your key and your other network settings for your reference.

Wireless LAN setup is complete. Click **Next** to make Internet connection settings.

\*For the following steps of Internet settings, please refer to P14~P15 Step 4~8.



## 7. 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 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.