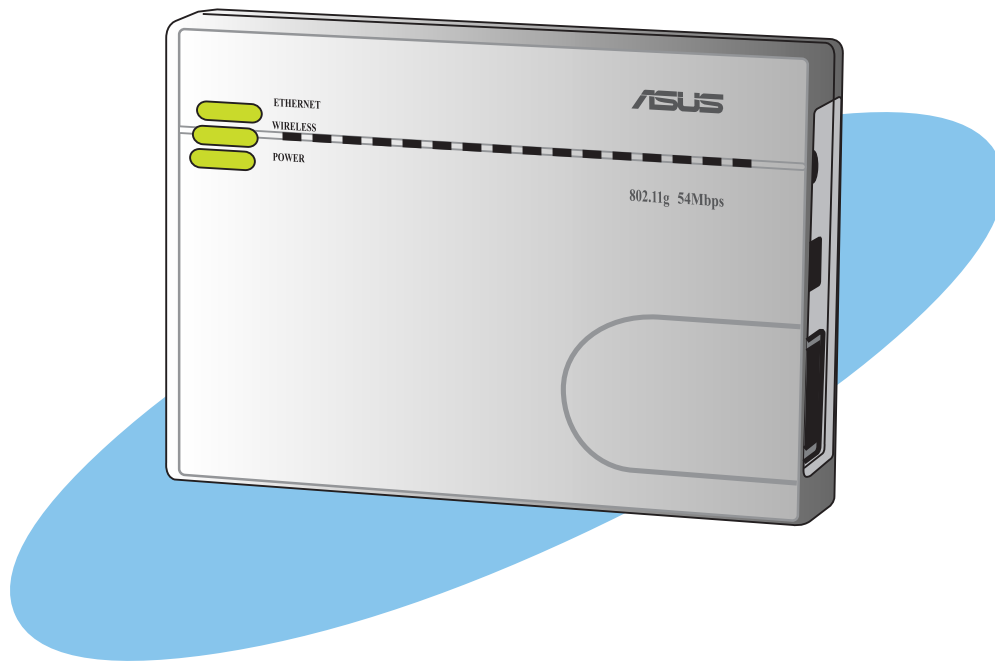


ASUS[®]
54Mbps
Pocket Wireless Access Point
(WL-330g)



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Conventions

To make sure that you perform certain tasks properly, take note of the following symbols used throughout this guide.



WARNING: Information to prevent injury to yourself when trying to complete a task.



CAUTION: Information to prevent damage to the components when trying to complete a task.



IMPORTANT: Information that you **MUST** follow to complete a task.



NOTE: Tips and additional information to aid in completing a task.

Welcome!

Thank you for choosing the ASUS WL-330g Pocket Wireless AP!

The WL-330g is a pocket-size access point and wireless Ethernet adapter in one. Packed with features and latest in wireless technology developed by ASUS, WL-330g is sure to keep you ahead in the world of wireless computing!



Refer to the **User Guide** in the support CD for detailed information on the ASUS WL-330g Pocket Wireless AP.

Package contents

Check the following items in your ASUS WL-330g Pocket Wireless AP package. Contact your retailer if any item is damaged or missing.

- ☒ ASUS Pocket Wireless AP (WL-330g)
- ☒ Compact universal power adapter and plug (100V ~ 240V)
- ☒ USB adapter and plug
- ☒ RJ-45 connector and cable
- ☒ Support CD
- ☒ Quick Start Guide
- ☒ Soft case



Use only the power adapter and plug that came with the package. Using other power adapter and plug may damage the device!

System requirements

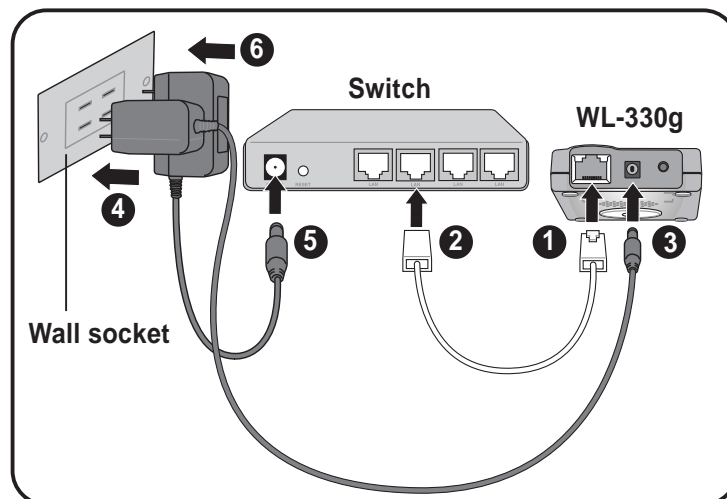
Before installing the ASUS WL-330g Pocket Wireless AP, make sure that your computer meets the following requirements:

- An Ethernet RJ-45 port (10Base-T/100Base-TX)
- At least one IEEE 802.11b/g device with wireless capability
- An installed TCP/IP and Internet browser

Device installation

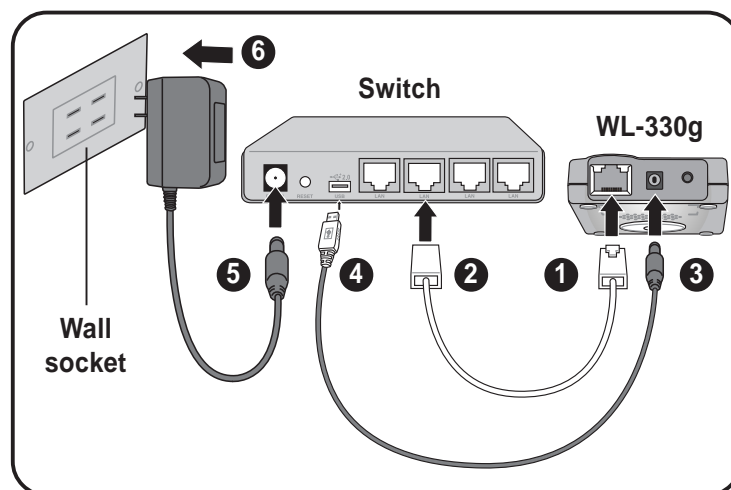
Using DC power

1. Insert one end of the supplied RJ-45 cable to the WL-330g Ethernet port.
2. Insert the other end of the RJ-45 cable to a network hub, switch, router, or wall patch Ethernet port.
3. Connect the power adapter plug to the WL-330g DC-IN socket.
4. Connect the WL-330g power adapter to a wall socket.
5. Connect the network hub, switch, or router power adapter plug to the DC-IN socket of the device.
6. Connect the network hub, switch, or router power adapter to a wall socket.



Using USB bus power

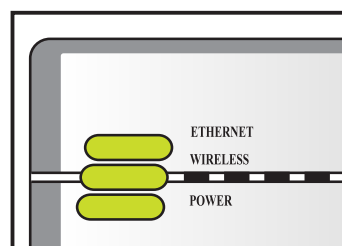
1. Insert one end of the supplied RJ-45 cable to the WL-330g Ethernet port.
2. Insert the other end of the RJ-45 cable to the Ethernet port on your computer, notebook, network hub, switch, router, or wall patch panel.
3. Insert one end of the supplied USB cable to the DC-IN socket of the device.
4. Insert the other end of the USB cable to any available USB port on your computer, notebook, network hub, switch, or router.
5. Turn on your computer/notebook, or connect the network hub, switch, or router power adapter to a wall socket.
6. Connect the power adapter of the network hub, switch, or router to a wall socket.



After installation, check the Power and Ethernet LEDs. These LEDs light up to indicate that the device is on and has physical connection to an Ethernet network. Refer to the LED indications below.

LED indicators

The ASUS WL-330g comes with a Power, Wireless, and Ethernet LED indicators. Refer to the table below for LED indications.

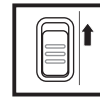


LED	Status	Mode*	Indication
Ethernet	On	AP/EA	The device is connected to an Ethernet network.
	Off	AP/EA	The device is off or not connected to an Ethernet network.
Wireless	On	AP	The device is on and ready.
	On	EA	The device is associated with an AP or other wireless device.
	Off	AP	The device is off.
	Off	EA	The device is not associated with an AP or other wireless device.
	Blinking	AP/EA	The device is transmitting or receiving data.
Power	On	AP/EA	The device in on and ready.
	Off	AP/EA	The device is off or performing boot sequence.
	Blinking	AP/EA	Firmware upgrade failed.

*Modes: AP – Access Point mode EA – Ethernet adapter mode

Mode switch

A mode switch located at the bottom side of the device allows you to change the WL-330g operation mode from access point to Ethernet adapter, or vice versa.



AP mode

Ethernet adapter mode

Utilities installation

To install the device utilities to your computer:

1. Place the WL-330g support CD to the optical drive.
2. Click “**Install ASUS WLAN AP Utilities**” when the ASUS Wireless Access Point WL-330g installation window appears. The device utilities are installed to your computer.



If Autorun is NOT enabled in your computer, browse the contents of the support CD and double click the Setup.exe file to run the CD.

Other support CD options

Uninstall ASUS WLAN AP Utilities. Click this option to uninstall the ASUS Pocket Wireless AP utilities from your system.

Run Wireless Setting Utility. Click this option to run the Wireless Setting Utility.

ReRead/Install Quick Start Guide and User's Manual. Click to view the installation and quick setup guides in PDF format.

Explore this CD. Click this option to explore the support CD contents.

Browse our Web Site. Click this option to visit the ASUS website.

Installation Language. Click the arrow down button to select the installation language.

Click **EXIT** to close the installation window.

Wireless Setting Utility

The Wireless Setting Utility allows you to configure the WL-330g settings. You can launch this utility directly from the support CD or from the Windows® desktop.

Launching the Wireless Setting Utility

From the support CD

To launch the Wireless Setting Utility from the support CD:

1. Insert the support CD to the optical drive.
2. Click the **Run Wireless Setting Utility** option when the installation window appears. Refer to the illustration on the previous page.
3. The Wireless Setting Utility window appears.

From the Windows® desktop

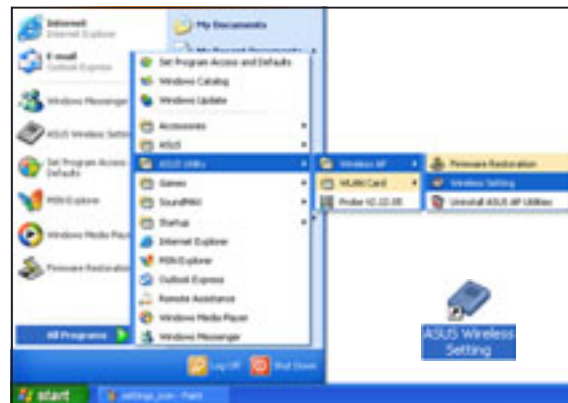
To launch the Wireless Setting Utility from the Windows® desktop:

1. Install the WL-330g utilities following the steps in the previous section.
2. From the Windows® desktop, click **Start > All Programs > ASUS Utility > Wireless AP > Wireless Setting**.

or

Double-click the **ASUS Wireless Setting** icon.

3. The Wireless Setting Utility window appears.



Setting up your access point (AP)

To set up your AP:



1. The utility auto-detects and displays the WL-330g SSID, channel, encryption, MAC, and IP address. Click **Configure** to change these settings.
2. Log on to the configuration window using the default password (**admin**), check the **Remember my password** option, then click **OK**.

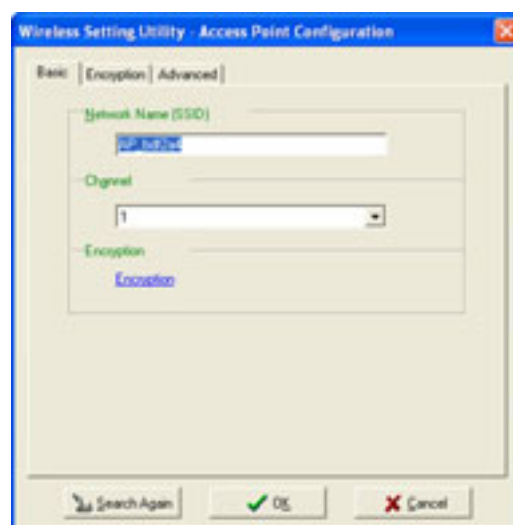


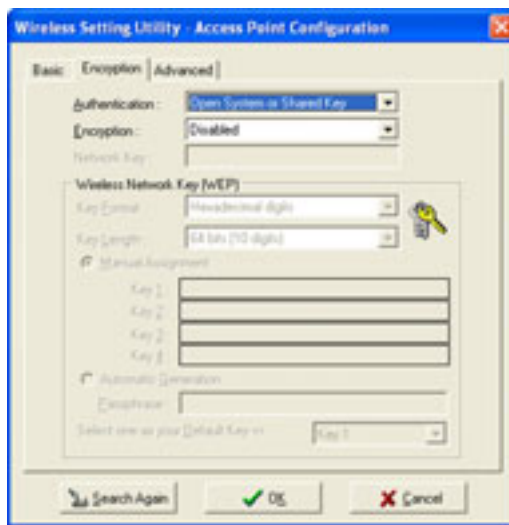
Checking the **Remember my password** option allows the utility to auto-fill the password everytime you enter the Wireless Setting configuration. Refer to page 16 for details on changing the log-on password.

3. Enter the Network Name (SSID) and channel you wish to use. Click the **Encryption** link or tab to set the encryption settings. Otherwise, click **OK** to finish setting up the AP.



To establish connection, a wireless client must have the same SSID, channel, and encryption settings as that of the WL-330g.





4. Set the WL-330g encryption settings. Click the **Advanced** tab to adjust the WL-330g network settings. Otherwise, click **OK** to finish setting up the AP.



5. If necessary, adjust the WL-330g network settings, then click **OK** to finish the setup. Otherwise, click the **Web Configuration Utility** button to launch the configuration utility.



6. The WL-330g applies your specified settings.



7. After applying your settings, the utility displays the WL-330g access point information. Click **Finish** to close the utility.

Setting up your Ethernet adapter

Follow these instructions to set up your WL-330g when in Ethernet adapter mode:





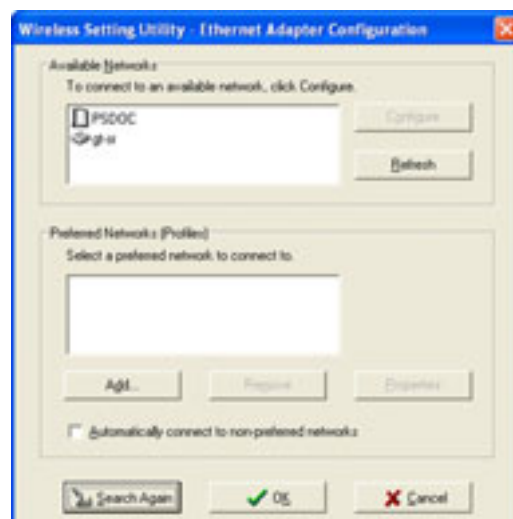
Make sure that you switched the WL-330g to Ethernet adapter mode before launching the Wireless Setting Utility. Use the mode switch to change the device operating mode.

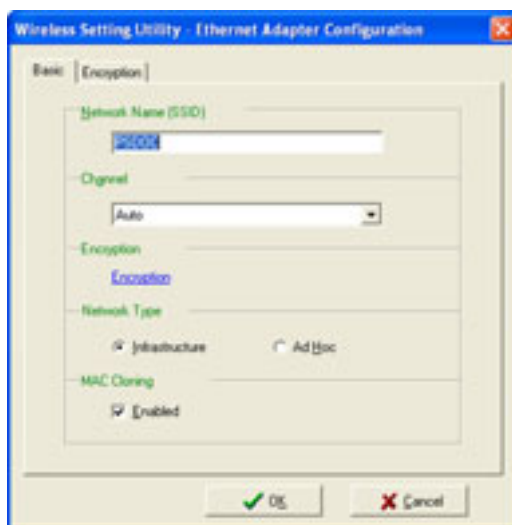


1. The utility auto-detects and displays the WL-330g Ethernet adapter settings. Click **Configure** to continue.
2. Log on to the configuration window using the default password (**admin**), check the **Remember my password** option, then click **OK**.
3. Select a wireless network from the **Available Networks** field, then click **Configure**.

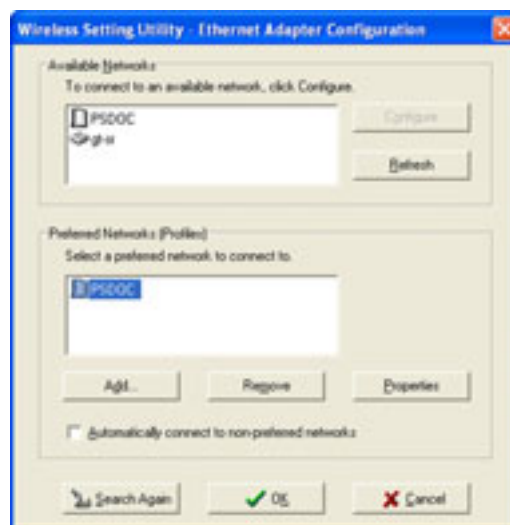


If you intend to connect to an AP (Infrastructure mode), select a network with the AP icon . If you wish to connect to another wireless device (Ad-hoc mode), select a network with the station icon . Click **Add** to connect to another wireless network not listed in the field.





4. The WL-330g automatically adjusts to the SSID and channel settings of the selected wireless network. Click **OK**.



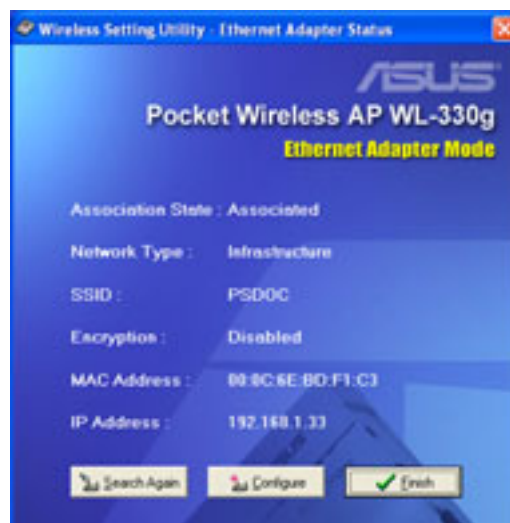
5. The selected wireless network appears in the **Preferred Networks** field. Select the network, then click **OK**.



If the selected network has enabled encryption, use the **Encryption** tab to set the WL-330g encryption settings the same with the selected network. The encryption settings of the network and the WL-330g must be the same to establish connection.



6. The WL-330g connects to the selected wireless network.



7. The utility displays the WL-330g status when connection is established. Click **Finish** to close the utility.

Web Configuration Utility

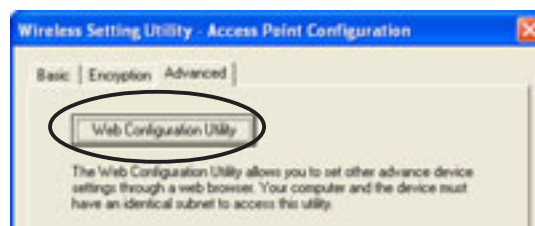
The Web Configuration utility allows you to change the advanced access point and Ethernet adapter settings of the WL-330g through a web browser.

Launching the Web Configuration utility

Using the Wireless Setting Utility

To launch the Web Configuration utility using the Wireless Setting utility:

1. Click **Start > All Programs > ASUS Utility > Wireless AP > Wireless Setting**.
2. Click **Configure** when the Wireless Setting Utility window appears.
3. Log on to the configuration window using the default user name (**admin**) and password (**admin**), then click **OK**.
4. Disable your proxy settings, if any.
5. Click the **Advanced** tab, then click the **Web Configuration Utility** button.



6. A web browser appears. When prompted, enter the default user name (**admin**) and password (**admin**), then click **OK**. The Web Configuration utility page appears.



Using an Internet browser

To launch the Web Configuration utility using an Internet web browser:

1. Open a web browser.
2. Disable your proxy settings, if any.
3. Type **http://192.168.1.1** on the address bar of the browser, then press <Enter>.




This option requires you to change the IP address of the LAN adapter where the WL-330g is connected. Make sure the IP address of the WL-330g and your computer is on the same subnet. Refer to the User Guide in the support CD for details on how to change the IP settings.

Changing the access point (AP) configuration

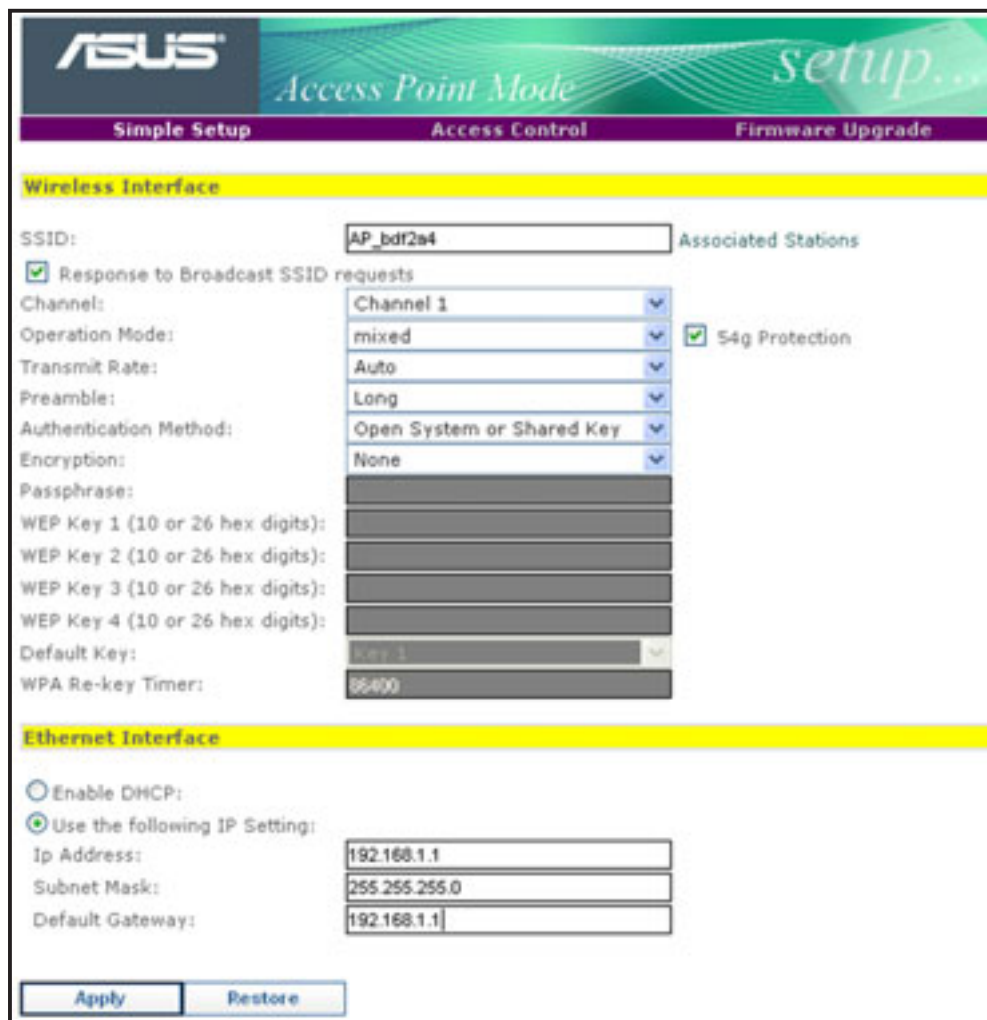
Simple Setup page

The Simple Setup page displays the default AP settings of the WL-330g. Use this page to set the AP channel, operation mode, and security.

You can change a setting by clicking the  button to display available options. If you wish to load the default settings, press the device reset button for more than five seconds, then refresh your browser to display the default values.

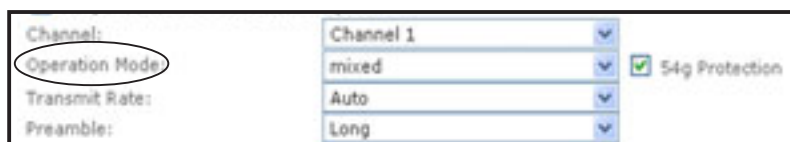


Refer to the User Guide in the support CD for the location of the reset button.



Setting the AP operating mode

You can adjust the WL-330g operating mode to support wireless devices using IEEE 802.11b or IEEE 802.11g standards. Setting the operating mode to **mixed** allows the WL-330g to support both wireless standards.



The screenshot shows a configuration window with several settings. The 'Operation Mode' dropdown menu is highlighted with a red circle and is set to 'mixed'. Other visible settings include 'Channel' set to 'Channel 1', 'Transmit Rate' set to 'Auto', 'Preamble' set to 'Long', and a checked box for '54g Protection'.

Table 1: WL-330g operating modes

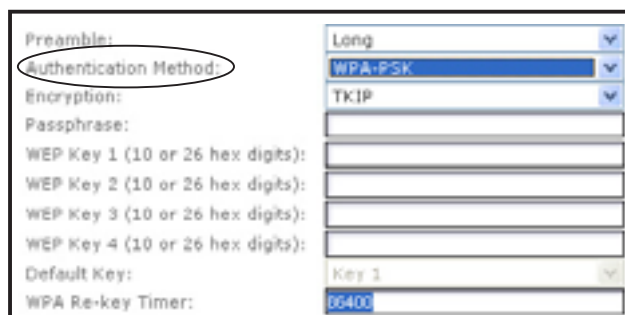
Operation mode	Supported wireless client(s)
B only	IEEE 802.11b client(s) only
G only	IEEE 802.11g client(s) only
Mixed	IEEE 802.11b and IEEE 802.11g clients

Securing your wireless communication

The WL-330g implements the Wi-Fi Protected Access (WPA)-PSK authentication method to secure communication to and from wireless devices. This method uses the Temporal Key Integrity Protocol (TKIP) encryption to enhance the Wired Equivalent Privacy (WEP) encryption.

To enable WPA-PSK:

1. Select **WPA-PSK** as the **Authentication Method**.
2. Type 8 ~ 63 alpha-numeric characters in the **Passphrase** field.
3. Set the **WPA Re-key Timer** (1 ~ 2147483647 seconds). The re-key timer allows you to set the time interval before the WPA group key is changed.



The screenshot shows the WPA-PSK configuration window. The 'Authentication Method' dropdown is highlighted with a red circle and set to 'WPA-PSK'. The 'Encryption' dropdown is set to 'TKIP'. There are input fields for 'Passphrase', 'WEP Key 1', 'WEP Key 2', 'WEP Key 3', 'WEP Key 4', 'Default Key' (set to 'Key 1'), and 'WPA Re-key Timer' (set to '00400').



A shorter re-key interval provides a more secure wireless network.


Access Control page

Controlling the wireless network traffic

The MAC Access Control page allows you to control the wireless network traffic by specifying the MAC addresses of wireless clients allowed to establish connection to the WL-330g.

Number	MAC Address
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

To specify the wireless clients allowed to establish connection to the WL-330g:

1. Click , then select the option **“Only allow Stations with MAC listed below to access this device”** from the drop-down menu. The MAC Address fields are activated.
2. Type the MAC address(es) of the wireless clients allowed to establish connection to the WL-330g, then click **Apply**.

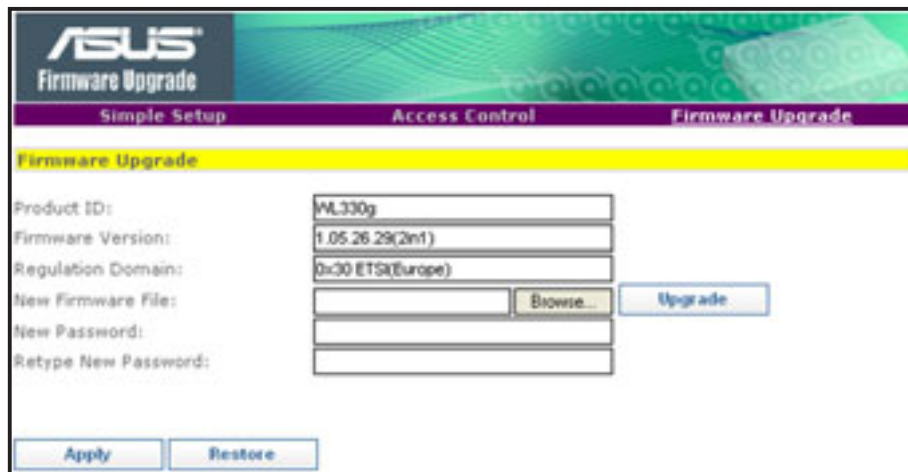


Selecting **“Accept association requests from any station”** allows all wireless clients operating within the WL-330g range to establish connection.

Firmware Upgrade page

The **Firmware Upgrade** page displays the product ID, firmware version, and regulation domain. This page also allows you to:

1. upgrade the WL-330g firmware when it becomes outdated or corrupted, and
2. change the log on password.

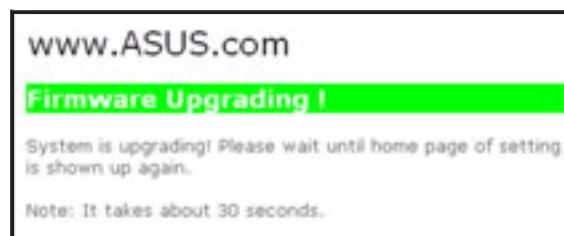


- The Power LED blinks continuously when the firmware is corrupted or when the firmware upgrade fails.
- Visit the ASUS website to download the latest firmware for this device.

To upgrade the WL-330g firmware:

1. Download and save the latest firmware from the ASUS website.
2. Launch the Web Configuration Utility, then go to the **Firmware Upgrade** page.
3. Click the **Browse** button to locate the new firmware file.
4. Click **Upgrade**. A **Firmware Upgrading!** message appears.

The browser refreshes after the firmware upgrade process is completed.



Changing the Ethernet adapter configuration



You must switch the device to Ethernet adapter mode using the mode switch before changing any Ethernet adapter settings.

Simple Setup page

The Simple Setup page allows you to change the basic Ethernet adapter settings. You can use this page when setting the WL-330g SSID, station mode, transmission rate, security, and MAC cloning feature.

You can also use the Simple Setup page to enable the Button Scan Mode feature. This feature allows the WL-330g to automatically connect to a specified wireless network using the device reset button.



Refer to the User Guide in the support CD for detailed description of the Ethernet adapter settings.

Site Survey page

The Site Survey page allows you to scan and connect to available wireless networks within the WL-330g range. This page also allows you to save a wireless network as profile for the Button Scan Mode feature.



Refer to the User Guide in the support CD for details on the Button Scan Mode feature.

The screenshot shows the 'ASUS Site Survey' web interface. At the top, there are three tabs: 'Simple Setup', 'Site Survey' (which is selected), and 'Firmware Upgrade'. Below the tabs, there is a 'Station Status' section with the following information: Connected SSID: ANY, Operating Mode: Infrastructure, Association: Scanning..., and Using Wep Key: Open System : No Wep Key Lock. Below this is a 'Save to Profile: Profile Table' section with a 'Save' button. The 'Site Survey' section contains a table with the following data:

No	BSSID	SSID	CH	RSSI	Type
1	02:40:20:10:78:88	gl-ir	10	1	STA

Below the table is a 'Select a Site to join:' dropdown menu with '1' selected, and a 'Join' button. At the bottom left, there is a 'Survey' button.

Firmware Upgrade page

The screenshot shows the 'ASUS Firmware Upgrade' web interface. At the top, there are three tabs: 'Simple Setup', 'Access Control', and 'Firmware Upgrade' (which is selected). Below the tabs, there is a 'Firmware Upgrade' section with the following fields: Product ID: WL330g, Firmware Version: 1.05.26.29(2in1), Regulation Domain: 0x30 ETS(Europe), New Firmware File: (with a 'Browse...' button), New Password: (with a text input field), and Retype New Password: (with a text input field). Below these fields are 'Apply' and 'Restore' buttons. To the right of the 'New Password' and 'Retype New Password' fields is an 'Upgrade' button.



Refer to page 16 for details on the Firmware Upgrade page.

Device setup

Using the device in a local network

You can use the WL-330g to connect a WLAN-enabled computer to a local network with or without a DHCP server.

To connect a WLAN-enabled computer to a local network:

1. Switch the WL-330g to AP mode. (Default SSID: AP_XXXXXX), then turn on the device.
2. Connect one end of the supplied RJ-45 cable to the Ethernet port of the device and the other end to the Ethernet port of the local network.
3. Use the WLAN adapter software in the WLAN-enabled computer to perform a **Site Survey**. Make sure the computer's WLAN adapter is set to **Infrastructure mode**.
4. Establish connection with the WL-330g.
5. Set the IP configuration of the computer to establish connection to the local network. Verify your connection.



Use the Wireless Setting Utility to change the WL-330g SSID or encryption settings.

Replacing the computer Ethernet cables

You can use the WL-330g to replace your WLAN-enabled computer cable connection to an ADSL or cable modem.

To do this:

1. Switch the WL-330g to AP mode. (Default SSID: AP_XXXXXX), then turn on the device.
2. Connect one end of the supplied RJ-45 cable to the Ethernet port of the device and the other end to the Ethernet port of the ADSL or cable modem.
3. Use the WLAN adapter software in the WLAN-enabled computer to perform a **Site Survey**. Make sure the computer's WLAN adapter is set to **Infrastructure mode**.
4. Establish connection with the WL-330g.
5. Set the IP configuration of the computer to establish connection to the local network. Verify your connection.

Replacing the cable connections of other devices

You can also use the WL-330g to replace your Xbox, PlayStation® 2, or set-top box network cable connection.

To do this:

1. Switch the WL-330g to Ethernet adapter mode using the mode switch.
(Default SSID: ANY)
2. Place the WL-330g nearest the AP you wish to connect, then turn on the device.
3. Connect one end of the supplied RJ-45 cable to the Ethernet port of the device and the other end to the Xbox, PlayStation® 2, or set-top box Ethernet port.
4. Set the IP address of the Xbox, PlayStation® 2, or set-top box to establish connection to the local network. Verify your connection.



Make sure the WL-330g MAC cloning feature is enabled when using the device in this setup. Use the Wireless Setting Utility to enable MAC cloning. Refer to the User Guide in the support CD for details.

Sharing Internet access with other computers

Refer to the typical network configuration and table below for information on sharing an Internet access with other computers in your office or home network.



Use the mode switch to set the WL-330g to AP mode before sharing an Internet connection with other computers in your network.



If your Internet connection is	Then set the IP of other computer(s)	Number of allowed Internet connections
xDSL ¹ with dynamic IP (PPPoE ² account)	ISP automatically assigns the IP (using PPPoE dial-up)	Depends on the Internet Service Provider (ISP)
xDSL with static IP	to the provided static IP	Depends on the Internet Service Provider (ISP)
xDSL/Cable with a router and enable DHCP ³ server	No need; the DHCP server automatically assigns the IP	Depends on the DHCP server, usually about 253

¹**xDSL** – **ADSL** (Asymmetric Digital Subscriber Line) or **DSL** (Digital Subscriber Line)

²**PPPoE** – Point-to-Point over Ethernet

³**DHCP** – Dynamic Host Configuration Protocol