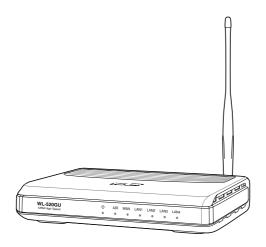


WL-520GU/GC

Broad Range Wireless Family Router



User Manual

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Specification Summary

IEEE 802.11b, IEEE 802.11g, IEEE 802.3, IEEE802.3x, IEEE 802.3u, IEEE 802.1x, IEEE 802.11i, IPv4, IPv6, CSMA/CA, CSMA/CD, ICMP
2.4G ~ 2.5GHz
802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11b: 1, 2, 5.5, 11Mbps
11 for N. America, 14 Japan, 13 Europe (ETSI)
WAN x 1, LAN x 4 RJ45 for 10/100 BaseT, 1 x USB2.0 for Printer Sharing(<i>WL-520GU only</i>)
Support Antenna Diversity, 1 x Reverse-SMA antenna connector
Automatically SSID and WEP or WPA Configuration
WL-520GU: DC: +5V with max. 2A current WL-520GC: DC: +9V with max 1A current
WEP-64bits, WEP-128bits, WPA-Personal, WPA2-Personal, WPA-Auto-Personal (TKIP. AES. TKIP+AES), WPA-Enterprise, WPA2-Enterprise, WPA-Auto-Enterprise (TKIP. AES. TKIP+AES), Radius with 802.1x
MAC-level Access Control, Inbound/Outbound IP Filter
NAT Firewall, SPI (Stateful Package Inspection) Firewall, WAN Ping Control
BOD (WL-520GU only), WMM
Support UPnP, DHCP Server, DNS Proxy, NTP Client, DDNS, Port Trigger, Virtual Server, Virtual DMZ, VPN Pass-Through
Operating: 0~40°C Storage: -30~50°C
Operating : 50~90% Storage : 20~90%

^{*} Use only the adapter included in the package.

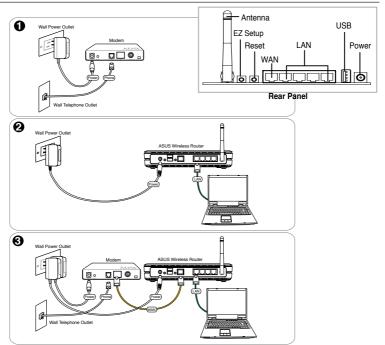


1. Package Contents

- WL-520GU/GC Wireless Router x 1
- Power Adapter x 1
- Utility CD x 1
- · RJ45 Cable x 1
- External Antenna x 1
- · Quick Start Guide x 1

2. Connecting ADSL Modem and Wireless Router

1) Cable connection





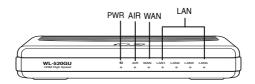
Note: Use only the adapter included in the package. Using other adapters may damage the device.



Note: The device in the above illustration is for your reference only. Please refer to your package for the real product.



2) Status Indicators



PWR (Power)

Off No power On System ready

Flashing-slow Firmware upgrade failed/Rescure Mode Flashing-quick EZsetup processing/Rescure Mode

AIR (Wireless Network)

Off No power

On Wireless system ready/Radio-off

Flashing Transmitting or receiving data (Through 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 Mounting Option

Out of the box, ASUS WL-520GU/GC 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:

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



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



3. Getting Started

The ASUS WL-520GU/GC Wireless Router can meet various working scenarios with proper configuration. The default settings of the wireless router may need change so as to meet your individual needs. Therefore, before using the ASUS Wireless Router, check the basic settings to make sure they all work in your environment.

ASUS provides a utility named EZSetup for fast wireless configuration. If you would like to use EZSetup for your wireless network configuration, refer to chapter 6 for details.



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

1) Wired Connection

The ASUS WL-520GU/GC Wireless Router is supplied with an Ethernet cable in the package. Since the ASUS Wireless Router has integrated auto-crossover function, therefore, you can use either straight-through or 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 compatible WLAN card. Refer to your wireless adapter user manual for wireless connection procedures. By default, the SSID of ASUS Wireless Router is "default" (in lower case), encryption is disabled and open system authentication is used.

3) Setting IP Address for Wired or Wireless Connection

To access WL-520GU/GC Wireless Router, you must have correct TCP/IP settings on your wired or wireless clients. Set the IP addresses of the clients within the same subnet of WL-520GU/GC.

Getting IP address Automatically

The ASUS Wireless Router integrates DHCP server functions, therefore, you can make your PC get IP address automatically from the ASUS Wirelesss Router.



Note: Before rebooting your PC, switch ON the wireless router and make sure the router is in ready state.

Setting up IP address Manually

To set IP address manually, you need to know the default settings of the ASUS 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. Make sure the IP address is not used by other device)
- Subnet Mask: 255.255.255.0 (same as WL-520GU/GC)
- Gateway: 192.168.1.1(IP address of WL-520GU/GC)
- DNS: 192.168.1.1 (WL-520GU/GC), or assign a known DNS server in your network.



4) 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 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.



 Select your time zone and click Next.



 ASUS Wireless Router supports five types of ISP services: cable, PPPoE, PPTP, static WAN IP, and Telstra BigPond (only WL-520GU supports this function). Select your connection type and click Next to continue.



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 hostname, MAC address, and heartbeat server address, fill these information into the boxes on the setting page; if not, click Next to skip this step.





PPPoE user

If you use PPPoE service, 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.





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





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.



 After the connection type setting is complete, you are to set up your wireless interface. Specify to your wireless router 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.



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. Configure the settings as Open System/WEP instead of Shared Key/WEP.

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.

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





6. Connect to the wireless router via wireless

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** -> **Programes** -> **ASUS Utility-> WLAN Card** -> **One Touch Wizard** to launch the One Touch Wizard utility.





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



 Set the authentication and encryption of your WLAN card the same with those at WL-520GU/GC. In the previous steps the Key Length is 64 bits, Passphrase is 11111 Click Next to continue.



 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.



 One Touch Wizard searches and displays the available APs in the Available Networks list. Select WL-520GU/GC and press Next to continue.



 It takes several seconds for the wireless card to associate with WL-520GU/GC. Press Next to setup TCP/IP for your WLAN Card.

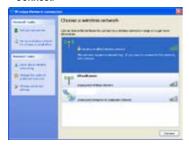




Configuring WLAN card with Windows® WZC service

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

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



 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 WL-520GU/GC. 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 setup these features via your Web browser.

System Setup

Operation Mode

Change Password

Firmware Upgrade

Setting Management

Factory Default

1) Choosing an Appropriate Operation Mode

	supports three operation modes to meet different requirements from ple. Please select the mode that match your situation.
⊙ Home Gateway	In this mode, we suppose you use ASUS Wireless Router to connect to Internet through ADSL or Cable Modem. And, there are many people in your environment share the same IP to ISP. Explaining with technical terms, gateway mode is , NAT is enabed, 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.
Router	In Router mode, we suppose you use ASUS Wireless Router to connect to LAN in your company. So, you can set up routing protocol to meet your requirement in office. Explaining with technical terms, router mode is, NAT is disabled, static routing protocol are allowed to set.
○ Access Point	In Access Point mode, all 5 Ethernet ports and wireless devices are set to locate in the same local area network. Those WAN related functions are not supported here. Explaining with technical terms, access point mode is, NAT is disabled, one wan port and four lan ports of ASUS Wireless Router are bridged together.

1) Setting up Wireless Encryption

WL-520GU/GC 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 WL-520GU/GC, contact your network administrator for advice.

Click Wireless -> Interface to open the configuration page.





Encryption

The encrytion modes supported by WL-520GU/GC are: WEP-64bits, WEP-128bits, WPA-Personal, WPA2-Personal, WPA-Auto-Personal(TKIP. AES. TKIP+AES), WPA-enterprise, WPA2-enterprise, WPA-Auto-Enterprise (TKIP. AES. TKIP+AES), Radius with 802.1x

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 hexadicimal digits for 64-bits key or 26 hexadicimal digits for 128-bits 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.

WPA-Personal protects unauthorized network access by utilizing a set-up password.

WPA-enterprise verifies network users through a server.



Authentication

The authentication methods supported by WL-520GU/GC include: Open, Shared key, WPA-Personal, WPA2-Personal, WPA-Auto-Personal (TKIP. AES. TKIP+AES), WPA-Enterprise, WPA2-Enterprise, WPA-Auto-Enterprise (TKIP. AES. TKIP+AES), and Radius with 802.1x.

Open: This option disables authentication protection for wireless network. **Shared Key:** This mode uses the WEP keys currently in use for authentication.

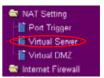
WPA-Enterprise, WPA2-Enterprise, WPA-Personal, WPA2-Personal, WPA-Auto-Personal: WPA stands for WiFi-Protected Access. WPA provides two security modes: WPA for enterprise network, and WPA-PSK for home and SOHO users. For enterprise network, WPA uses the already existing RADIUS server for authentication; 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 mothods: 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.



April

- 1. Click Virtual Server in NAT Setting folder to open the NAT configuration page.
- Select Yes to enable virtual server. For example, if host 192.168.1.100 is FTP server which is to be accessed by Internet user, 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.
- 3. Click Finish.
- Click Save & Restart to restart the wireless router and activate the settings.





Restate



NAT Setting

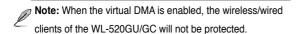
🔯 Port Trigger

Internet Firewall

Virtual Server
✓ Virtual DMZ

4) Setting up Virtual DMZ in Your LAN

To expose an internal host to Internet and make all services provided by this host available to outside users, enable Vitural 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**



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 DDNS service providers' website. The DDNS server updates your IP address information once you are assigned to a new IP address. Therefore, Internet user can always access your network.

1. Click Miscellaneous from IP Config folder.



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





 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...".



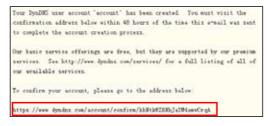
 Enter your user name, e-mail address, password, then click Create Account



 A message prompts out informing that your account has been created.
 An E-mail is sent to your mailbox. Open your mailbox and read the mail.



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



7. The link directs you to a login page. Click **login**.



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





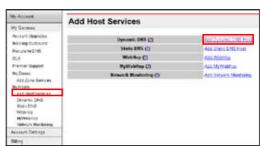
9. After logging in, you can see this welcome message.



10. Select Services tab.



11. Click Add Dynamic DNS
Host



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



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





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



15 Click Finish



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

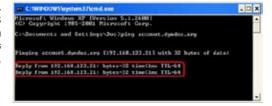


17. Verify whether DDNS is working. Click Start menu and select Run....Type cmd and click OK to open the CLI console



OK Cancel Stower.

18. 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 (for WL-520GU Only)

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 bandwith status is the first priority. Click Finish and Apply to complete the configuration. The following figures shows different bandwith priority settings:

Gaming Blaster





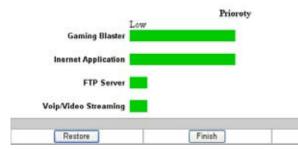
Internet Application

Bandwidth Management -- Bandwidth On Demand





Under this mode, e-mail, web browsing, and other Internet applications will be handled at first priority.



VOIP/Video Streaming

Bandwidth Management -- Bandwidth On Demand

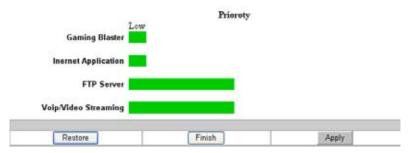






Apply.

Under this mode """ No will firstly manage all the audio/video traffic. No more latency when talking over iP phone or watching movies online!





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



The "FTP Server" mode was enabled! You can use the scroll bar to reserve more upload bandwidth for WL500W's FTP Server Service. If you set "0%", it means that FTP server has only high priority but no reserved bandwidth.



■Long Packet Fragmentation



5. Application Features

ASUS WL-520GU Wireless Router provides one USB2.0 port for printer sharing.

1) Sharing USB Printer (WL-520GU only)

You can connect a comptible USB printer to the USB2.0 port of WL-520GU to share the printer with your LAN users. Follow the procedures below to setup your computers to utilize the printer server function of WL-520GU.

Installing USB Printer

Plug your USB printer to the USB2.0 port on WL-520GU rear panel. To verify whether your printer is properly installed and to WL-520GU Wireless Router, click **Status & Log -> Status**. If **Printer Model** is correct and **Printer Status** is **On-Line**, you can share this printer within your LAN.





Note: Visit ASUS Website for comaptible printer vendor and models



Setting up Printer Client under Windows XP

Follow the steps below to install network printer on your clients.

 Run Add Printer Wizard from Start -> Printers and Faxes -> Add a printer.



Select Local printer attached to this computer and click Next.





Select Create a new port and set Type of port to Standard TCP/IP Port, then click Next.



Input the IP address of WL-520GU in the Printer Name of IP Address field and click Next.



 Set Protocol to LPR and type LPRServer in Queue Name field. Click Next to continue.



4. Click **Next** to setup TCP/IP port for accessing the network printer.



6. Select Custom and click Settings...



Press Next to finish standard TCP/IP port setting.





Press Finish to complete the settings and return to Add Printer Wizard.



11. Click **Next** to accpt the default name for the printer.



13. The installation is complete. Click **Finish** to quit the Add Printer Wizard.



10. Install printer driver from the vendormodel list. If your printer is not in the list, click Have Disk to manually assign the location of driver.



 Select Yes to print a test page. Click Next to print.





Note: If you have already installed the printer locally on your computer, right click the printer icon and select **Property** -> **Port** tab to add a standard TCP/IP port. Click **Add Port** then select **Standard TCP/IP Port** and click **New Port** button. Refer to step 5-8 for setting procedures.



Note: If you use Windows® 98 or ME which does not support Standard TCP/IP port, you need to use Romote Port which is supported by WL-520GU.



6. Setting up Using ASUS utility

1) Utility Installation for WL-520GU/GC

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



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



5. Press Finish to quit the installation program.



2. Click Next to continue.



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





2) EZSetup

Wireless LAN setup will complete in two easy steps. Firstly open the EZSetup utility form Start menu, then push the EZSetup button on the rear panel for 3 seconds.







- 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) To use EZSetup, we recommend using an ASUS wireless adapter such as WL-106gM, WL-100gE, and WL-169gE.



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.





Wireless settings, including network name and network keys, are generated automatically. You can modify these settings manually.

Note: if your wireless router is configured before, select **Preserve original wireless router settings** to use the current value. Click **Next** to continue.







If you need to configure the ISP settings for your wireless router, select **Configure ISP** settings, click **Next** and follow the instructions to complete the settings.



Setup is complete, press **Print/Save Wireless LAN Settings** button for future reference. Click Finish to exit the EZSetup utility.

7. Troubleshooting

Cannot access to web browser for router configuration



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



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



- 3. Click Clear History.
- Click Yes and then click the Connections tab.
- 5. Select the dial-up connection, and then click the **Settings** button.
- Clear the Automatically detect settings and use proxcy server check boxes are not selected.
- 7. Click Ok to close the Internet Options dialog box.

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 Restore 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 Restore button on the rear panal 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).
- Make sure 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.

- · Make sure 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 Restore button on the rear panel for more than 5 seconds.

How to restore 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 "System Setting", the following default settings overwrite the old settings on your wireless router

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

Domain Name: (Blank)



8. Appendix



FC 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.
- (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.

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Configure WL-520GU/GC under Vista OS

The Windows Simple Config function, which is preinstalled in the ASUS WL-520GU/GC, 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 deivce when the device 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. Or you can push Reset button and then begin WCN-NET setup.

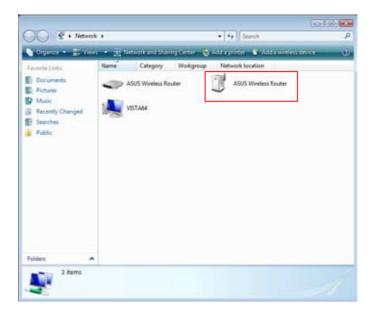


Note: WL-520GC doesn't support WCN setup but can still works well with Vista PC by using WEB config or EZSetup.

1) Configuring the device

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

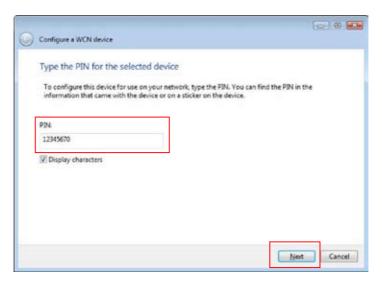
- 1. Connect the device to your PC and power on it.
- Click Start >Network from the Vista desktop. The Network screen appears (as shown below).
- 3. Double click ASUS Wireless Router.



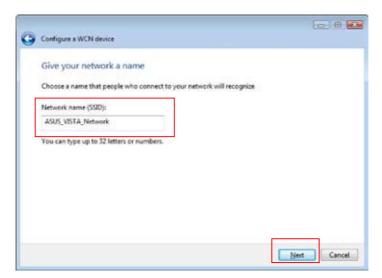


A screen prompts you to enter the PIN of your device. The PIN is located on the sticker posted on the device.

4. Enter the PIN in the PIN box, then click Next.



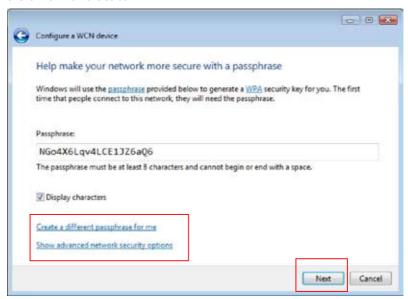
4. Give the network a name and type it in the Network name box, then click Next.





A Passphrase is generated for WPA security for the network.

5. Click Next from this screen.

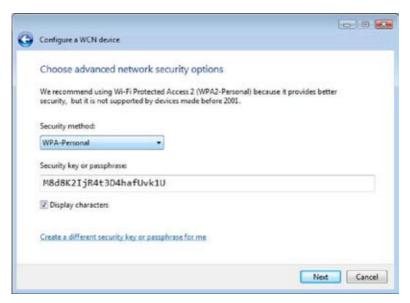


If you want to create a different passphrase, click **create a different passphrase for me**. If you want to use security method other than WPA-Personal, click **Show advanced network security options**.

The "Create a different passphrase" and "Security methods" screens are shown below.



Create a different passphrase

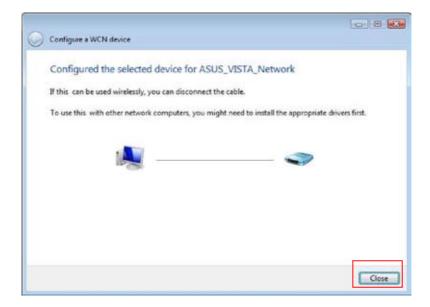


Four security methods





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

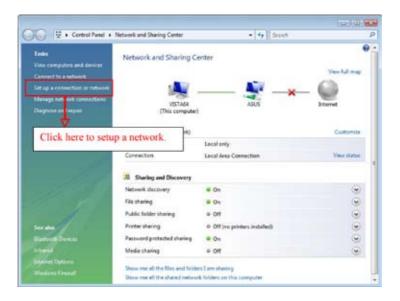
Follow the steps below to set up a sharing center to allow the network users to share printer, file and media.

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



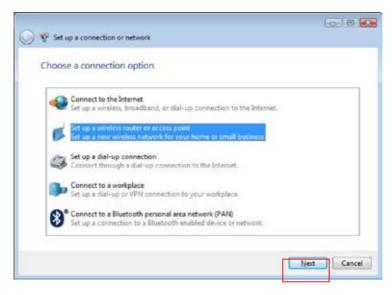


3. Click Set up a wireless router or network.

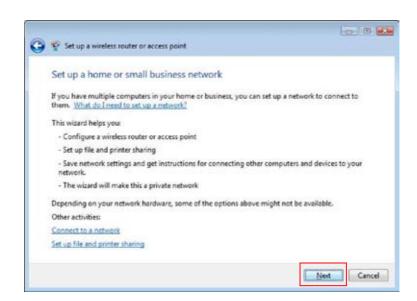




3. Choose Set up a wireless router or access point, then click Next.

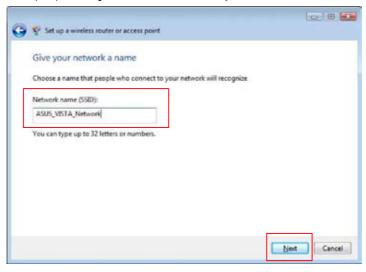


4. Click Next.

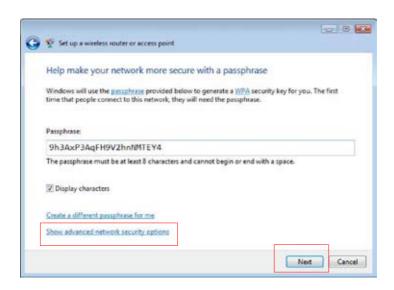




 In the screen that appears, type a network name in the Network name box, then click Next. A passphrase is generated for the WPA security.

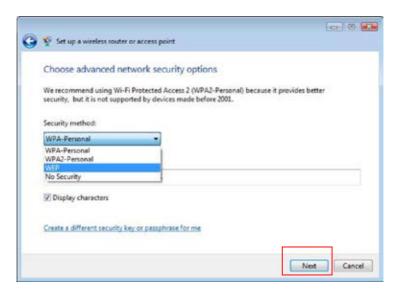


Click Next. If you want to use security methods other than WPA-Personal, click Show advanced network security options.

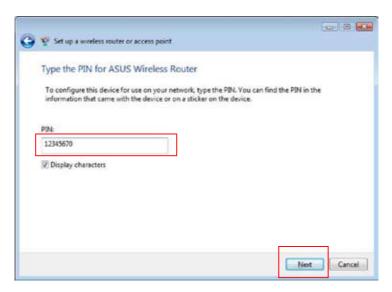




7. Choose a security method and click Next.

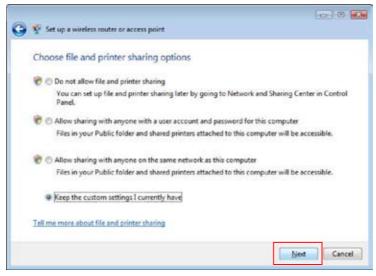


A screen prompts you to enter the PIN for the device. Enter the PIN, which is located on the sticker posted on the device, then click **Next**.





9. Choose a file and printer sharing option and click Next.



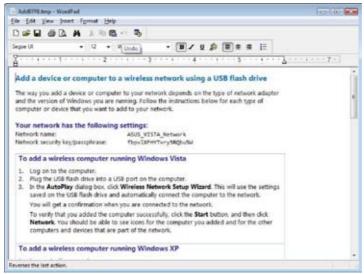
A screen appears showing that the set up is complete as shown below.



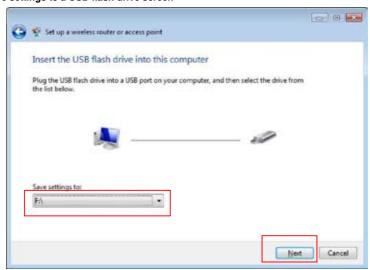


10. From the above screen you can choose to View settings or, Save settings to a USB flash drive. The respective screens are shown below.

View settings screen



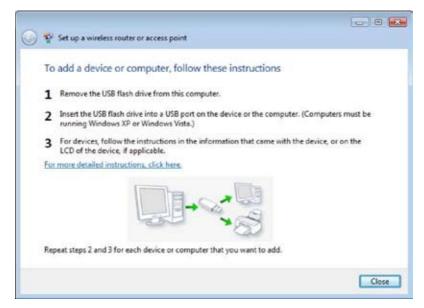
Save settings to a USB flash drive screen





11. 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 starts 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.



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