

Wireless

WL-520G

Quick Start Guide

QE2238



English

Technical Construction file in accordance with R&TTE Annex III

Under the provisions of Annex III point 2 of the **R&TTE directive 1999/5/EC** of the European Parliament and of the Council of 9 March on Radio equipment and Telecommunications Terminal Equipment (R&TTE directive) and the mutual recognition of their conformity,

We, the undersigned,

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Have established a Technical Construction File as specified below to be inspected to any Member States and to be kept available to the relevant national authorities of any Member State for inspection purpose:

Item number	Technical Document description
01	Technical File in accordance with R&TTE directive Annex II point 4
02	Declaration of conformity to specific test suites described in R&TTE directive Annex III

For the following product:

Product Description / Supplementary Info	ASUS Wireless Router
Manufacturer	ASUSTeK COMPUTER INC.
Brand	ASUS
Type	WL-520G

The Technical Construction File as specified above will be kept for a period ending at least 10 years after the last product has been manufactured at the disposal of the relevant national authorities of any Member State for inspection purpose,



Draw up in	Taiwan
Data	2005/03/15
ASUSTek Computer Inc. 4/F, 150, Li-Te Rd., Peitou, Taipei, Taiwan 112	
Signature & company stamp	LawrenceYu / Manager



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1. Package Contents

- WL-520g 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)

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Web site address: www.asus.com.tw

General (fax): +886-2-2894-7798

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ASUS COMPUTER INTERNATIONAL (America)

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

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Web site address: 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

General (fax): +49-2102-959911

Online contact: www.asuscom.de/sales

Technical support

Components: +49-2102-95990

Online support: www.asuscom.de/support

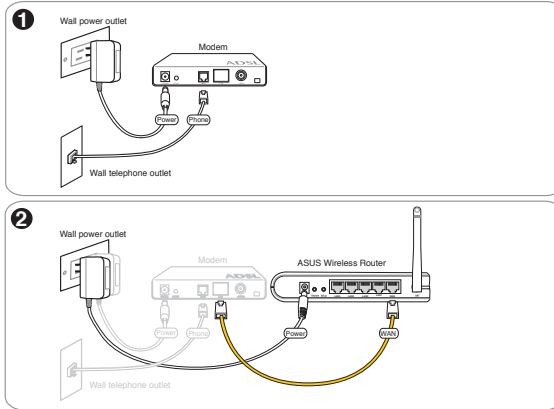
Notebook: +49-2102-959910

Support (fax): +49-2102-959911

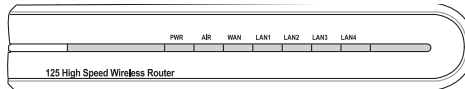


2. Connecting ADSL Modem and Wireless Router

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 wire)

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 wire)



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 of WL520g user's manual included in the support CD.

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



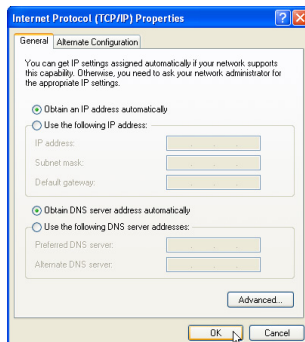
Note: If configuration is done via wired connection, ignore this.

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.

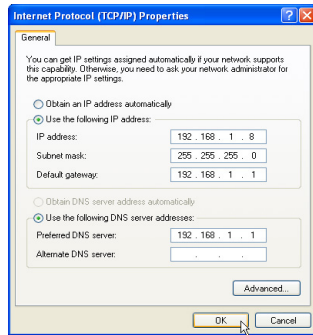
Setting IP Manually

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

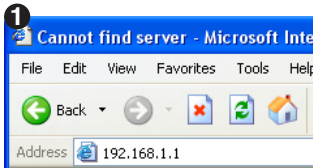
- IP address 192.168.1.1
- Subnet Mask 255.255.255.0.

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

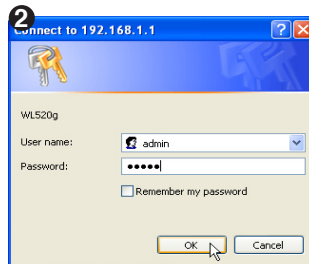
- IP address 192.168.1.xxx (xxx can be any number between 2 and 254 that is not used by another device)
- Subnet Mask 255.255.255.0 (same as the ASUS Wireless Router)
- Gateway 192.168.1.1 (this is the ASUS Wireless Router)
- DNS 192.168.1.1 (ASUS Wireless Router IP address or your own).



3) Configuring the Wireless Router

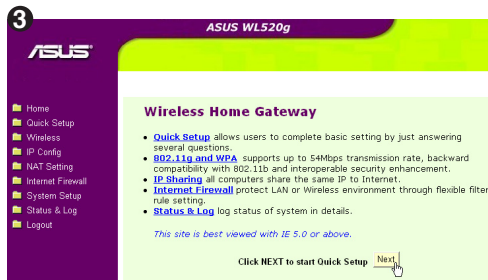


Enter the following address in your web browser: <http://192.168.1.1>



Defaults

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

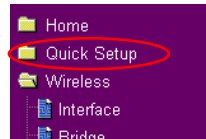


After logging in, you will see the ASUS Wireless Router home page. The homepage displays quick links to configure the main features of the router.



4) Quick Setup

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



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

Select Time Zone

Please choose the time zone where you are locating in.

Time Zone: GMT+08:00 Beijing, Hong Kong

Next



ASUS wireless router WL520g 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-520g. Select the correct connection type. Click **Next** to continue.

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.

Select Internet Connection Type	Fill Information Required by ISP
<p>WL520g 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 WL520g's WAN port to your DSL or Cable Modem.</p> <p><input checked="" type="radio"/> Cable Modem or other connection type that gets IP automatically.</p> <p><input type="radio"/> ADSL connection that requires username and password. It is known as PPPoE.</p> <p><input type="radio"/> ADSL connection that requires username, password and IP address. It is known as PPTP.</p> <p><input type="radio"/> ADSL or other connection type that uses static IP address.</p> <p><input type="radio"/> Telstra BigPond Cable Modem Service.</p> <p>Prev Next</p>	<p>Your ISP may require the following information to identify your account. If not, just press Next to ignore it.</p> <p>Host Name: <input type="text"/></p> <p>MAC Address: <input type="text"/></p> <p>HeartBeat Server: <input type="text"/></p> <p>Prev Next</p> <p>WAN IP Setting</p> <p>Fill TCP/IP setting for WL500gE to connect to Internet through WAN port.</p> <p>Get IP automatically? <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>IP Address: <input type="text"/></p> <p>Subnet Mask: <input type="text"/></p> <p>Default Gateway: <input type="text"/></p> <p>Get DNS Server automatically? <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>DNS Server 1: <input type="text"/></p> <p>DNS Server 2: <input type="text"/></p> <p>Prev Next</p>

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.

Select Internet Connection Type	Set Your Account to ISP
<p>WL520g 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 WL520g's WAN port to your DSL or Cable Modem.</p> <p><input type="radio"/> Cable Modem or other connection type that gets IP automatically.</p> <p><input type="radio"/> ADSL connection that requires username and password. It is known as PPPoE.</p> <p><input checked="" type="radio"/> ADSL connection that requires username, password and IP address. It is known as PPTP.</p> <p><input type="radio"/> ADSL or other connection type that uses static IP address.</p> <p><input type="radio"/> Telstra BigPond Cable Modem Service.</p> <p>Prev Next</p>	<p>If you apply an account with dynamic IP. You must get user account and password from your ISP. Please fill this data into the following fields carefully. Or, if you apply an ADSL account with static IP, just ignore user name and password information.</p> <p>User Name: <input type="text" value="slc@shinet.net"/></p> <p>Password: <input type="password" value="*****"/></p> <p>Prev Next</p>

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.

Select Internet Connection Type	Set Your Account to ISP
<p>WL520g 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 WL520g's WAN port to your DSL or Cable Modem.</p> <p><input type="radio"/> Cable Modem or other connection type that gets IP automatically.</p> <p><input type="radio"/> ADSL connection that requires username and password. It is known as PPPoE.</p> <p><input checked="" type="radio"/> ADSL connection that requires username, password and IP address. It is known as PPTP.</p> <p><input type="radio"/> ADSL or other connection type that uses static IP address.</p> <p><input type="radio"/> Telstra BigPond Cable Modem Service.</p> <p>Prev Next</p>	<p>If you apply an account with dynamic IP. You must get user account and password from your ISP. Please fill this data into the following fields carefully. Or, if you apply an ADSL account with static IP, just ignore user name and password information.</p> <p>User Name: <input type="text" value="netk230@adsl-comfort"/></p> <p>Password: <input type="password" value="*****"/></p> <p>Prev Next</p>

WAN IP Setting
<p>Fill TCP/IP setting for WL520gE to connect to Internet through WAN port.</p> <p>Get IP automatically? <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>IP Address: <input type="text" value="219.31.111.12"/></p> <p>Subnet Mask: <input type="text" value="255.255.255.0"/></p> <p>Default Gateway: <input type="text" value="219.31.111.1"/></p> <p>Get DNS Server automatically? <input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>DNS Server 1: <input type="text" value="168.95.1.1"/></p> <p>DNS Server 2: <input type="text"/></p> <p>Prev Next</p>

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.

Select Internet Connection Type	WAN IP Setting
<p>WL520g 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 WL520g's WAN port to your DSL or Cable Modem.</p> <p><input type="radio"/> Cable Modem or other connection type that gets IP automatically.</p> <p><input type="radio"/> ADSL connection that requires username and password. It is known as PPPoE.</p> <p><input type="radio"/> ADSL connection that requires username, password and IP address. It is known as PPTP.</p> <p><input checked="" type="radio"/> ADSL or other connection type that uses static IP address.</p> <p><input type="radio"/> Telstra BigPond Cable Modem Service.</p> <p>Prev Next</p>	<p>Fill TCP/IP setting for WL520gE to connect to Internet through WAN port.</p> <p>Get IP automatically? <input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>IP Address: <input type="text" value="219.31.111.12"/></p> <p>Subnet Mask: <input type="text" value="255.255.255.0"/></p> <p>Default Gateway: <input type="text" value="219.31.111.1"/></p> <p>Get DNS Server automatically? <input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>DNS Server 1: <input type="text" value="168.95.1.1"/></p> <p>DNS Server 2: <input type="text"/></p> <p>Prev Next</p>



- 2 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.

Configure Wireless Interface

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

SSID:	WL520g
Security Level:	High(WPA-PSK)
Passphrase:	Medium(WEP-64bit)
WEP Key 1 (10 or 26 hex digits):	Medium(WEP-128bit)
WEP Key 2 (10 or 26 hex digits):	High(WPA-PSK)
WEP Key 3 (10 or 26 hex digits):	
WEP Key 4 (10 or 26 hex digits):	
Key Index:	1
<input type="button" value="Prev"/> <input type="button" value="Finish"/>	

- 3 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.



The ASUS wireless router configuration page features a convenient approach to setup the WEP Keys: with only a few taps on your keyboard to define the Passphrase, the system will automatically generate four strings of WEP Keys. For ASUS wireless adaptor users, it is no longer necessary to input long and complicated WEP Keys when connecting the router with the wireless client; the Passphrase provides an easy way for setting up your wireless environment!

For example, if we input select WEP-64bits encryption mode, input 11111 as Passphrase, then the following WEP Keys are generated as shown in the right picture. Record the Passphrase and the WEP keys on your notebook, then click Save.

Configure Wireless Interface

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

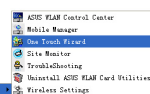
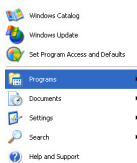
SSID:	WL520g
Security Level:	Medium(WEP-64bit)
Passphrase:	11111
WEP Key 1 (10 or 26 hex digits):	97CA0B63B
WEP Key 2 (10 or 26 hex digits):	612B7643B
WEP Key 3 (10 or 26 hex digits):	820FFC3CB4
WEP Key 4 (10 or 26 hex digits):	154700DEP
Key Index:	1
<input type="button" value="Prev"/> <input type="button" value="Finish"/>	

- 4 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.

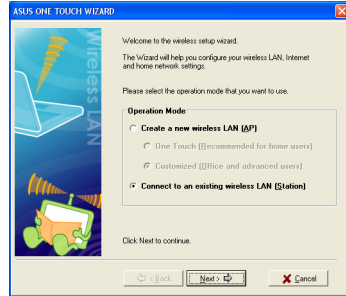
Save & Restart

You have finished the basic setting. You can just press **Save&Restart** button to apply your setting or perform other advanced settings.

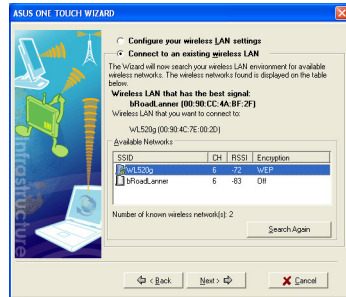
- 5 Next we are to setup encrypted wireless connection for wireless router and wireless client. If you have installed ASUS wireless adaptor as well as the utility, click **Start** -> **Programes** -> **ASUS Utility** -> **WLAN Card** -> **One Touch Wizard** to open the connection setup utility on the client end.



- 6 Select **Connect to an existing wireless LAN (Station)** when the welcome window appears, then click **Next**.



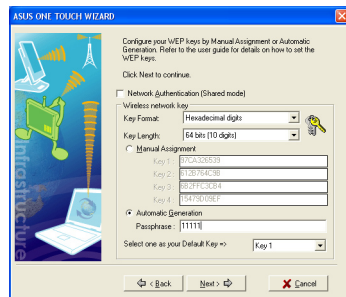
- 7 ASUS ONE TOUCH WIZARD searches and displays all the available stations as shown in the picture. Select WL520g and press **Next** to continue.



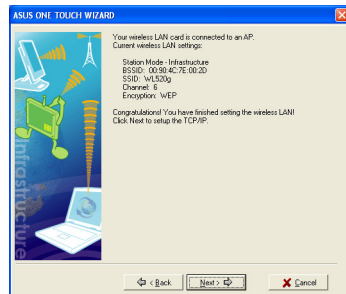
- 8 The setup wizard then asks for encryption setup. Set Key Length as **64 bits (10digits)** as we have previously set on WL-520g, then select **Automatic Generation** and input **11111** into the Passphrase box.



Note: The encryption mode on your client must be the same with that on your wireless router.

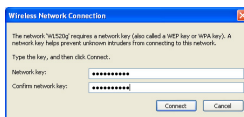
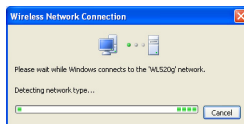
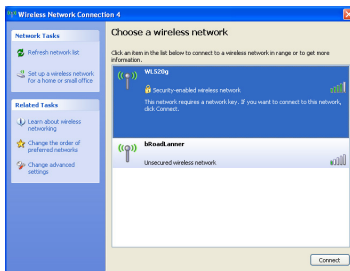


- 9 Wait for several seconds to get the client connected to the wireless router. Then a screen informing the result of the connection would appear. Press **Next** to continue.
- 10 Then you will see the IP configuration screen. Setup the client IP address according to your network condition. After the setup is completed, Click **Finish**.





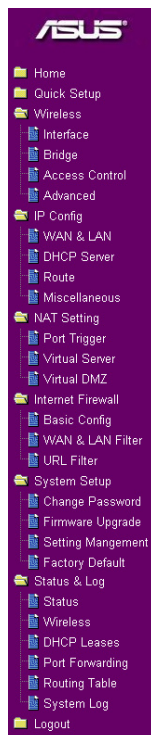
- 5 For non-ASUS wireless adaptor users, you can set up the wireless connection between your computer and the wireless router with Windows® Zero-Configure function. Right click the **Network Neighbour** on the desktop of your client and click **Property**, then in the Network Connection window, double-click **Wireless Network Connection** icon, a window with all available stations appears. Select WL520g and click **Connect**.
- 6 The connection process would take about several seconds.
- 7 Then a window prompts out asking you to input the network keys, input the 10-digit key you have previously recorded in your notebook, then click connect to complete connection.



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.



Note: To setup your wireless router, please refer to the user's manual in the support CD.



Federal Communications Commission
Declaration of Conformity (DoC)

for the following equipment:

Product name : 125 High Speed Wireless Router
Model name : WL-520G
Trade name : ASUS

Is herewith confirmed and found to comply with the requirements of CFR 47 part15 Subpart B - Unintentional Radiators regulation. The results of electromagnetic mission evaluation are shown in the report number : A5415050105

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

<i>Manufacturer</i>	<i>USA local representative</i>
Company name: ASUSTeK Computer Inc.	To be determined
Computer address: 4/F, 150, Li-Te Rd., Peitou, Taipei, Taiwan	
ZIP / Postal code 112	
Contact person: Lawrence Yu	
Title: Manager	
Internet e-mail address: lawrence_yu@asus.com.tw	
Tel / Fax: 886-2-28943447 / 886-2-28950113	

Report No.: A5415050105, FCC Part 15.247

Training Research Co., Ltd., TEL: 886-2-26935155, Fax: 886-2-26934440

