

D-Link Quick Installation Guide

This product works with the following operating system software: **Windows XP, Windows 2000, Windows Me, Windows 98SE**



DWL-G650

Xtreme G 2.4GHz
Wireless Cardbus Adapter

Before You Begin

You must have at least the following:

- A laptop computer with an available 32-bit Cardbus slot
- At least a 300 MHz processor and 32MB of memory
- Cardbus Controller properly installed and working in the laptop computer
- An 802.11g or 802.11b Access Point (for Infrastructure Mode) or another 802.11g or 802.11b wireless adapter (for Ad-Hoc; Peer-to-Peer networking mode.)

Check Your Package Contents

These are the items included with your DWL-G650 purchase:



DWL-G650 Xtreme G 2.4GHz Wireless Cardbus Adapter



CD-ROM (containing Drivers, Manual and Warranty)

If any of the above items are missing, please contact your reseller.

1 Insert the D-Link CD-ROM Into Your Computer

Turn on the computer and **Insert** the **D-Link AirExtreme DWL-G650 Driver CD** in the CD-ROM drive.

The step-by-step instructions that follow are shown in **Windows XP**. The steps and screens are similar for the other Windows operating systems



Do **NOT** install the **DWL-G650** Cardbus Adapter into your computer before installing the driver software from the **D-Link CD!**

1

Continued...

The Install Screen will appear.

If the CD Autorun function does not automatically start on your computer , type "D:\WPA\ageisl2.exe" for Windows ME/98 or "D:\WPA\ageisl5.exe for Windows XP/ 2000. If it does start, proceed to the next screen. **The letter "D" represents the letter of the CD-ROM drive. Your CD-ROM drive may be a different drive letter.**

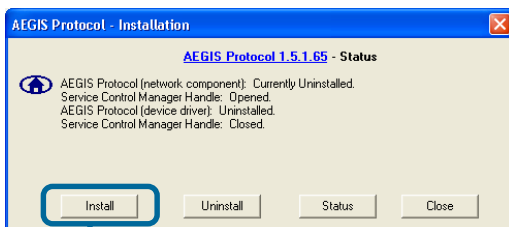
The WPA Supplicant is optional. Install this only if you want to use the WPA security protocol. You may skip this step if you do not plan to implement WPA in your network. (See Appendix, page 6 for more information on WPA)



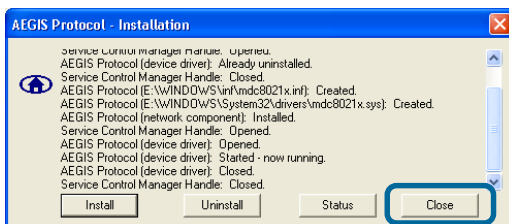
Choose **Windows XP/2000 or Windows ME/98SE**



Click **Install**



Click **Close**



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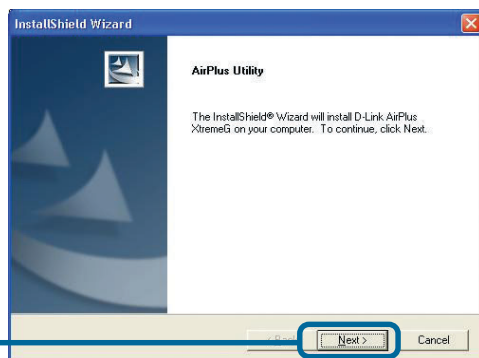
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If the CD Autorun function does not automatically start on your computer , type "D:\Drivers\setup.exe." If it does start, proceed to the next screen.

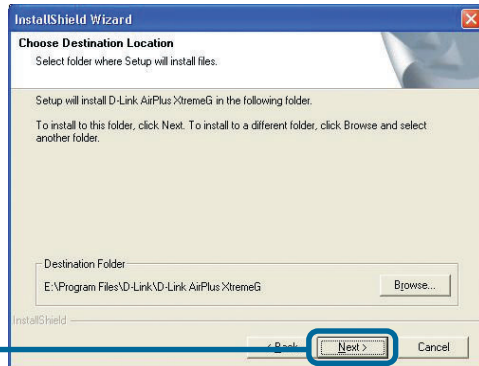
Click Install Drivers



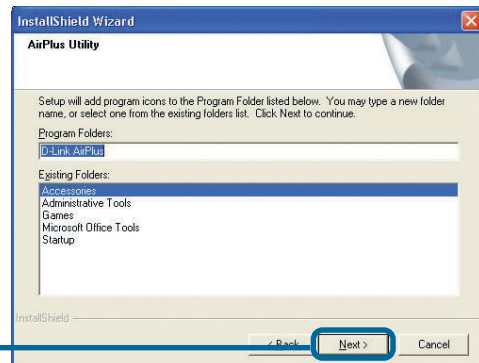
Click Next



Click Next

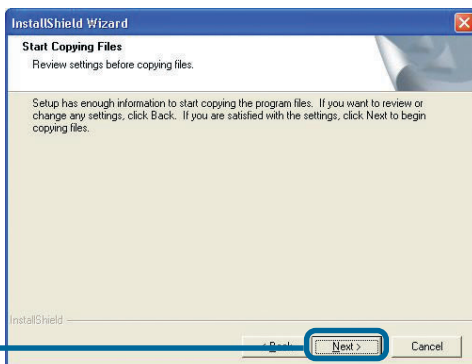
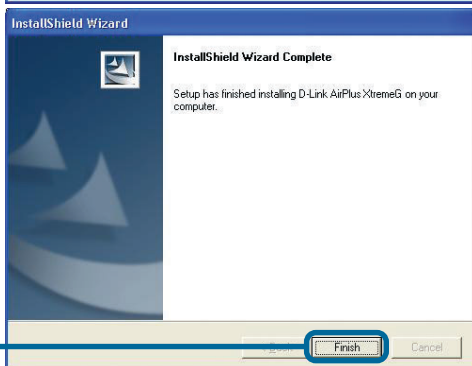


Click Next



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Continued...

Click **Next**Click **Finish****Shut down your computer**

Remember to leave the DWL-G650 Driver CD in the CD-ROM drive.

2

Installing the DWL-G650 Wireless Cardbus Adapter in Your Computer

- A. Make sure to turn off the laptop computer.**
- B. Locate the Cardbus slot on your laptop computer.**



- C. Gently insert the DWL-G650 into the Cardbus slot in your laptop computer (as shown.)**

2 Continued...

Link/Activity LED

Indicates that the DWL-G650 is properly installed when the computer is on and blinks when data is being transmitted

32-bit connector

This is the connector that fits into the Cardbus slot of your laptop.



Antenna

Used to wirelessly connect to 802.11b networks.

3 Restart Your Computer

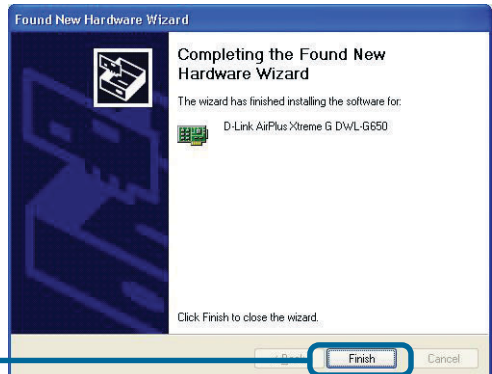
When you restart your computer this **Found New Hardware Wizard** (Windows XP) screen may appear:

Select **Install the software automatically (Recommended)**

Click **Next**



Click **Finish** to finalize the installation.



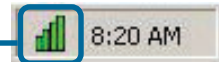
4 Your Installation is Complete!

After you've continued in Windows XP, 2000, ME, or 98SE, the D-Link *AirExtreme* DWL-G650 **Configuration Utility** will automatically start and the utility icon will appear in the bottom right hand corner of the desktop screen (systray). **If this icon appears GREEN, then you have successfully installed the DWL-G650, are connected to a wireless network and are ready to communicate!**

If the utility icon does not appear, double-click the **shortcut icon** that has appeared on your desktop.



Double-click the **utility icon** to use the configuration utility.



Appendix

Wi-Fi Protected Access (WPA), a Wi-Fi standard that was designed to improve upon the security features of WEP. The technology is designed to work with existing Wi-Fi products that have been enabled with WEP (i.e., as a software upgrade to existing hardware), but the technology includes two improvements over WEP:

- 1.) Improved data encryption through Temporal Key Integrity Protocol (TKIP)
- 2.) User authentication using Extensible Authentication Protocol (EAP) via RADIUS

Note that WPA is an interim standard that will be replaced with the IEEE's 802.11i standard upon its completion.

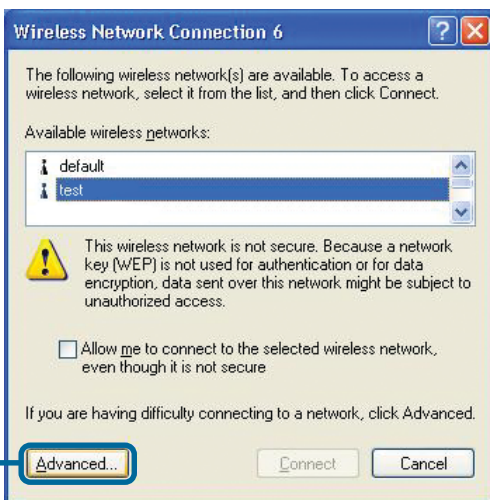
WPA - Wi-Fi Protected Access authorizes and authenticates users onto the wireless network. WPA uses stronger security than WEP and is based on a key that changes automatically at a regular interval. This mode requires a RADIUS server in the network.

WPA-PSK - Pre-Shared Key mode means that the wireless client and the router must have the same passphrase in order to establish the wireless connection. A RADIUS server is **not** required with PSK.

Appendix

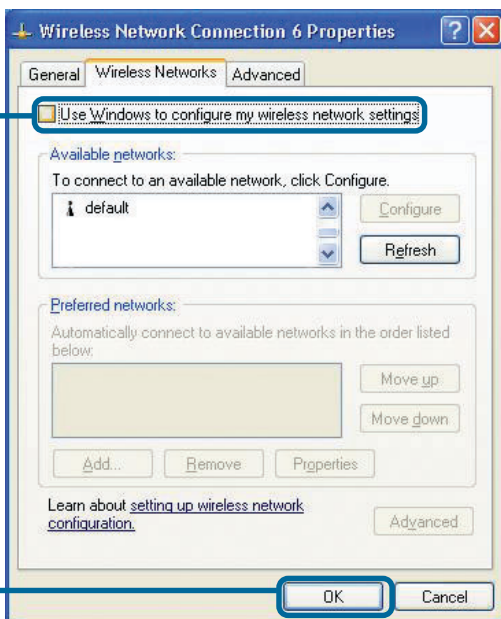
For Windows XP, if you wish to use the Xtreme G utility, please do the following steps.

Click the **XP Networking icon** to use the Zero Configuration Wireless Settings.



Click **Advanced**

Uncheck "Use Windows to configure my wireless network settings."



Click **OK**

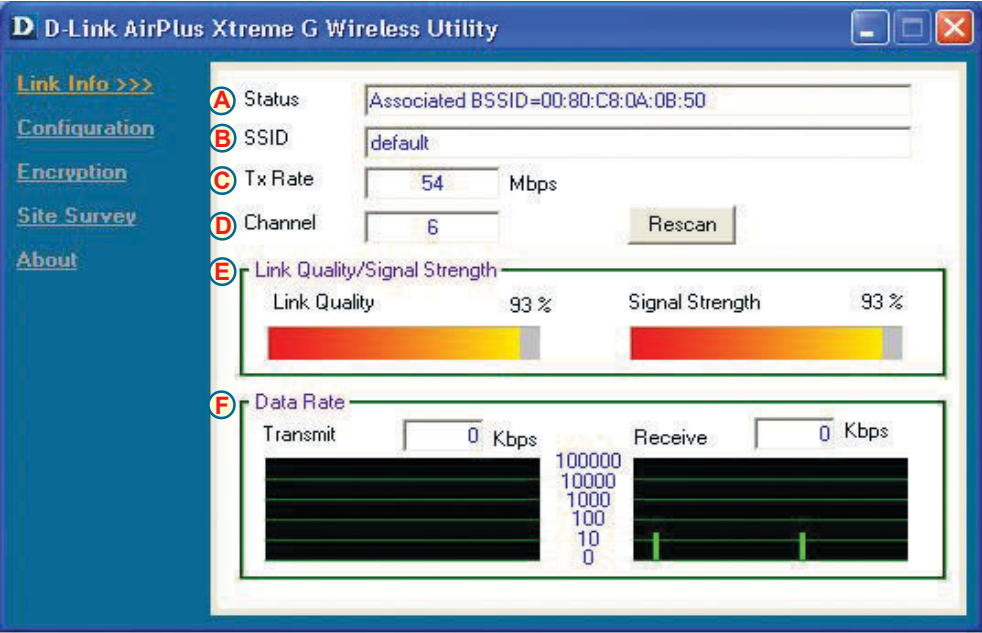
Appendix (Continued)

Using the Configuration Utility

A. Status: Displays the MAC Address of the Access Point that is associated with the DWL-G650.

B. SSID: The Service Set Identifier is the name assigned to the wireless network. The factory SSID setting is set to **default**.

C. TxRate: The default setting is **Auto**; meaning, TxRate settings are automatically determined by the DWL-G650 depending on the distance from the access point.



D. Channel: Displays the channel information. By default, the channel is set to 6 and selection is automatically determined by the DWL-G650.

E. Link Quality / Signal Strength: Displays the Link Quality for the DWL-G650 wireless connection to the access point. The Signal Strength represents the wireless signal between the access point and the DWL-G650. The percentage coincides with the graphical bar.

F. Data Rate: Graphically displays the statistics of data transmitted and received.

G. SSID: The Service Set Identifier is the name assigned to the wireless network. The factory SSID setting is set to **default**. Make changes here to match the SSID on existing Wireless Router or Access Point.

H. Wireless Mode: The factory setting is set to **Infrastructure**. Ad-Hoc mode is used for peer-to-peer networking.

I. Channel: By default, the channel is set to **6**. Channel selection is automatically determined by the DWL-G650 depending on the channel setting of the access point selected for association. To change the channel settings, the **Wireless Mode** must be set to **Ad-hoc**.

The screenshot shows the 'D-Link AirPlus Xtreme G Wireless Utility' window. On the left is a blue sidebar with navigation links: 'Link Info.', 'Configuration >>>', 'Encryption', 'SiteSurvey', and 'About'. The 'Configuration >>>' link is highlighted. The main area displays five configuration settings, each with a lettered icon in a circle: 'G' for SSID (text field with 'default'), 'H' for Wireless Mode (dropdown menu with 'Infrastructure'), 'I' for Channel (dropdown menu with '8'), 'J' for Tx Rate (dropdown menu with 'Auto'), and 'K' for Power Mode (dropdown menu with 'Continuous Access Mode'). At the bottom are 'Apply' and 'Cancel' buttons.

Setting	Value
G. SSID	default
H. Wireless Mode	Infrastructure
I. Channel	8
J. Tx Rate	Auto
K. Power Mode	Continuous Access Mode

J. TxRate: You can adjust the transmission rate to get the best signal possible depending on your usage and your environment.

K. Power Mode: By default, Power Mode is set to Continuous Access Mode. **Continuous Access Mode** — this default setting consumes the most power. **Maximum Power Save** — this setting consumes the least power. **Power Save** — this setting consumes a moderate amount of power.

IP Address Configuration

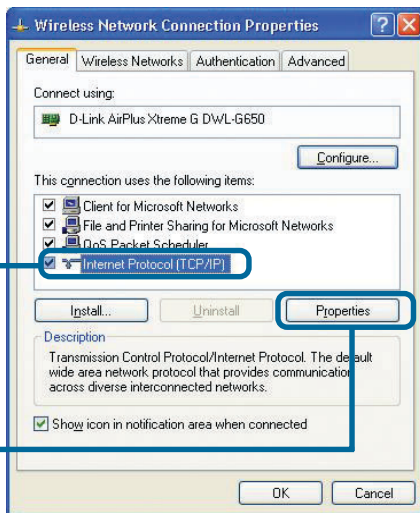
To connect to a network, **make sure the proper network settings are configured for DWL-G650.**

For Microsoft Windows XP:

Go to **Start > right click on My Network Places >** select **Properties > Double-click on the Network Connection** associated with the DWL-G650.

Click **Internet Protocol (TCP/IP)**

Click **Properties**



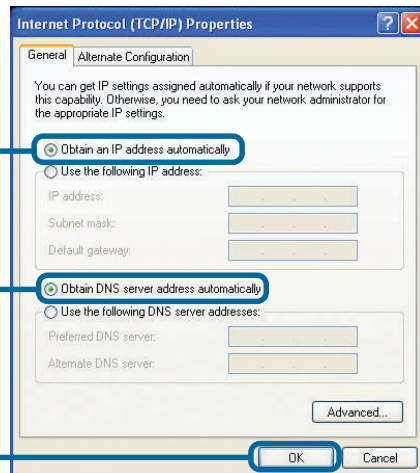
Dynamic IP address setup

Used when a **DHCP server** is available on the local network. (i.e. Router)

Select **Obtain an IP address automatically** (if the Wireless Router or Access Point has DHCP server enabled)

Select **Obtain DNS server address automatically**

Click **OK**



Static IP address setup

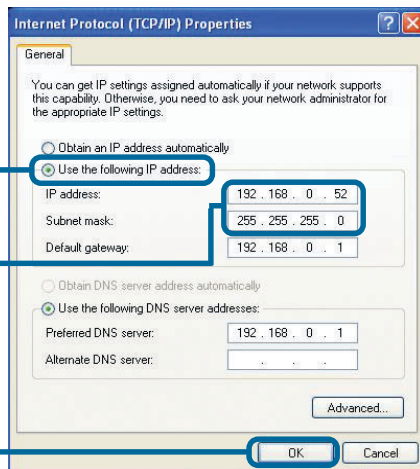
Used when a **DHCP server** is not available on the local network.

Select **Use the following IP address**

IP address: **192.168.0.52**
Subnet mask: **255.255.255.0**

Input a static IP address in the same range as the Wireless Router or Access Point.

Click **OK**

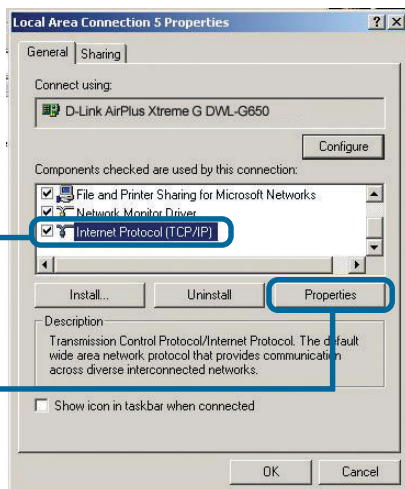


For Windows 2000 users:

Go to **Start > Settings > Network and Dial-up Connections** > Double-click on the **Local Area Connection** associated with the DWL-G650 > select **Properties**

Click **Internet Protocol (TCP/IP)**

Click **Properties**



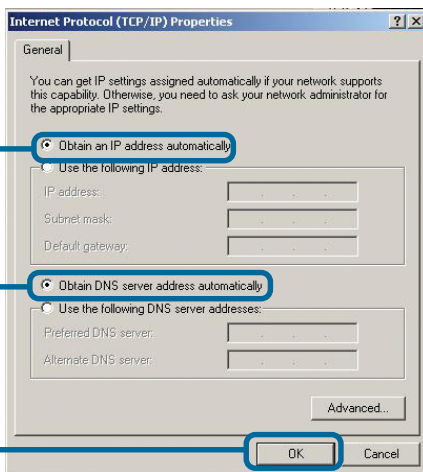
Dynamic IP address setup

Used when a **DHCP server** is available on the local network. (i.e. Router)

Select **Obtain an IP address automatically** (if the Wireless Router or Access Point has DHCP server enabled)

Select **Obtain DNS server address automatically**

Click **OK**



Static IP address setup

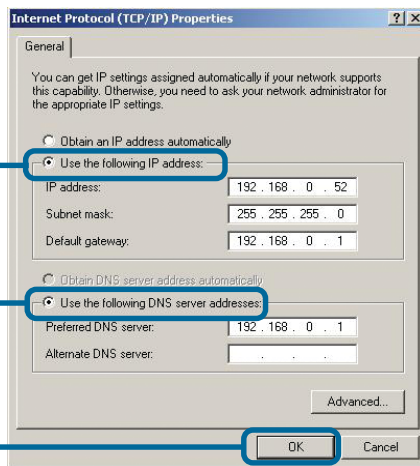
Used when a **DHCP server** is not available on the local network.

Select **Use the following IP address**

IP address: 192.168.0.52
Subnet mask: 255.255.255.0

Input a static IP address in the same range as the Wireless Router or Access Point.

Click **OK**



Technical Support

You can find software updates and user documentation on the D-Link website.

D-Link provides free technical support for customers within the United States and within Canada for the duration of the warranty period on this product.

U.S. and Canadian customers can contact D-Link technical support through our website, or by phone.

Tech Support for customers within the United States:

D-Link Technical Support over the Telephone:

(877) 453-5465

24 hours a day, seven days a week.

D-Link Technical Support over the Internet:

<http://support.dlink.com>

email:support@dlink.com

Tech Support for customers within Canada:

D-Link Technical Support over the Telephone:

(800) 361-5265

Monday to Friday 8:30am to 9:00pm EST

D-Link Technical Support over the Internet:

<http://support.dlink.ca>

email:support@dlink.ca

