D-Link®
Quick Installation Guide

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

DWL-G650
AirPlus 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 AirPlus 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 AirPlus Xtreme 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
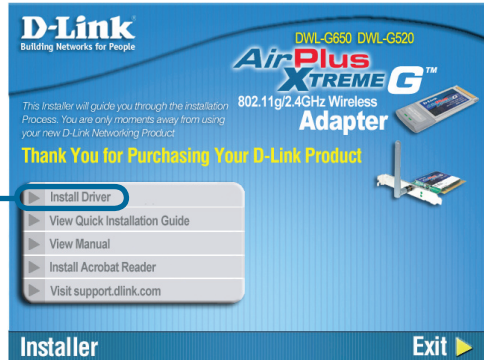
⚠ **Do NOT install the DWL-G650 Cardbus Adapter into your computer before installing the driver software from the D-Link CD!**
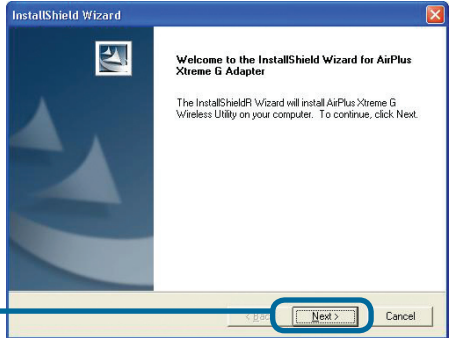
1 Continued...

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.
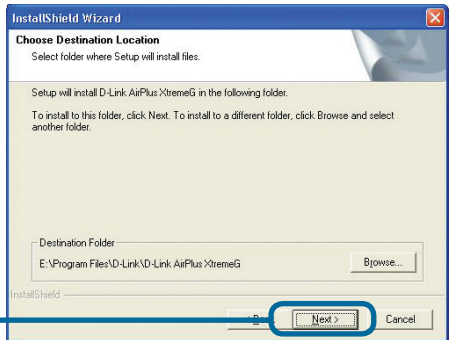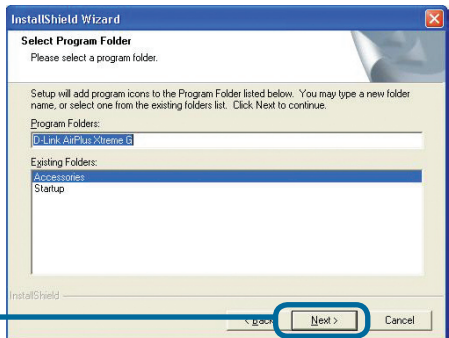
Click Install Driver

Click Next

Click Next

Click Next

① Continued...

Click Finish
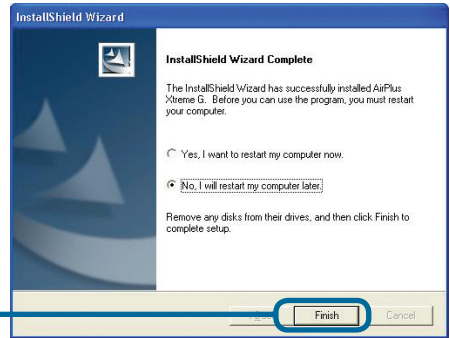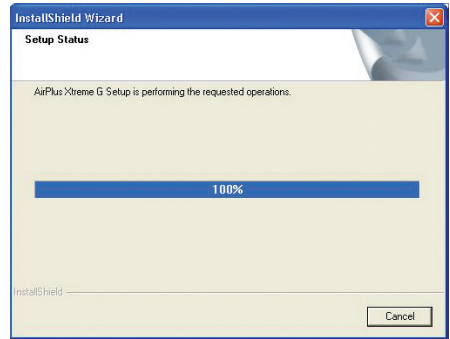
Shut down your computer
Remember to leave the DWL-G650 Driver CD in the CD-ROM drive.

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.)

3

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

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

Antenna
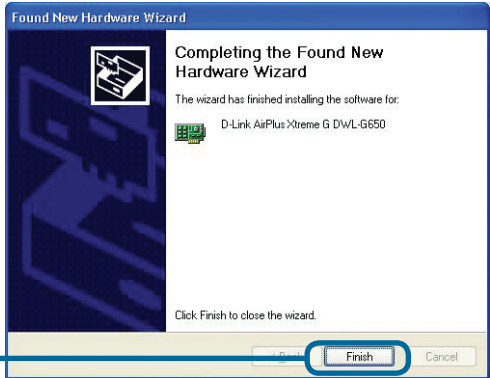Used to wirelessly connect to 802.11g networks.

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

Found New Hardware Wizard

Welcome to the Found New Hardware Wizard

This wizard helps you install software for:

Network Controller

If your hardware came with an installation CD or floppy disk, insert it now.

What do you want the wizard to do?

○ Install the software automatically (Recommended)
○ Install from a list or specific location (Advanced)

Click Next to continue.

[< Back] [Next >] [Cancel]

Found New Hardware Wizard

Completing the Found New Hardware Wizard

The wizard has finished installing the software for:

D-Link AirPlus Xtreme G DWL-G650

Click Finish to close the wizard.

[< Back] [Finish] [Cancel]

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 AirPlus Xtreme G 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.

D-Link AirPlus
XtremeG
Wireless Utility
Utility

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

3:53 PM
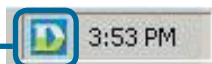
Appendix

Wi-Fi Protected Access (WPA), is 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 exiting 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 a RADIUS server.

Note that WPA is an interm 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 then 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 this mode.
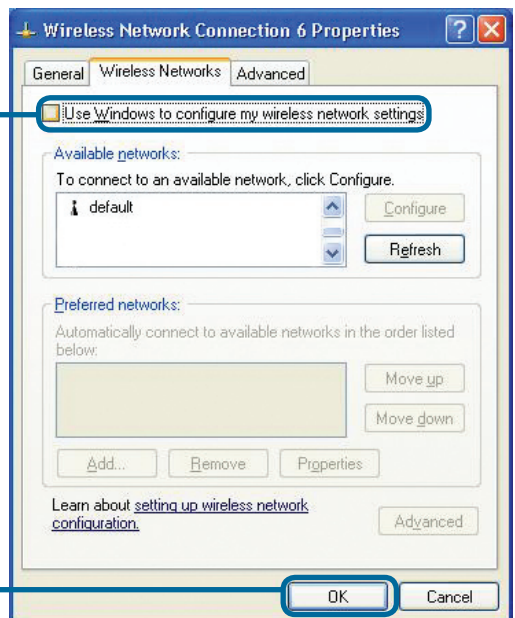
Appendix (Cont.)

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

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

9:15 AM

Wireless Network Connection 6

The following wireless network(s) are available. To access a wireless network, select it from the list, and then click Connect.

Available wireless networks:

- default
- test

⚠ This wireless network is not secure. Because a network key (WEP) is not used for authentication or for data encryption, data sent over this network might be subject to unauthorized access.

☐ Allow me to connect to the selected wireless network, even though it is not secure

If you are having difficulty connecting to a network, click Advanced.

Click Advanced

Advanced...   Connect   Cancel

Wireless Network Connection 6 Properties

General | Wireless Networks | Advanced

Uncheck "Use Windows to configure my wireless network settings.

☐ Use Windows to configure my wireless network settings

Available networks:

To connect to an available network, click Configure.

- default

Configure
Refresh

Preferred networks:

Automatically connect to available networks in the order listed below:

Move up
Move down

Add...   Remove   Properties

Learn about setting up wireless network configuration.

Advanced

Click OK

OK   Cancel

Appendix (Cont.)
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. Frequency: Displays the current frequency used by the current connection to the access point.

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

E. Encryption: Displays the current encryption status of the wireless connection.

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

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

I. Packet Count: Graphically displays the statistics of data transmitted and received.

H. Signal Quality: 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.

Appendix (Cont.)

J. 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.

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

L. Data Encryption: The default setting is set to Disable. The adapter supports WEP and AES when encryption is enabled.
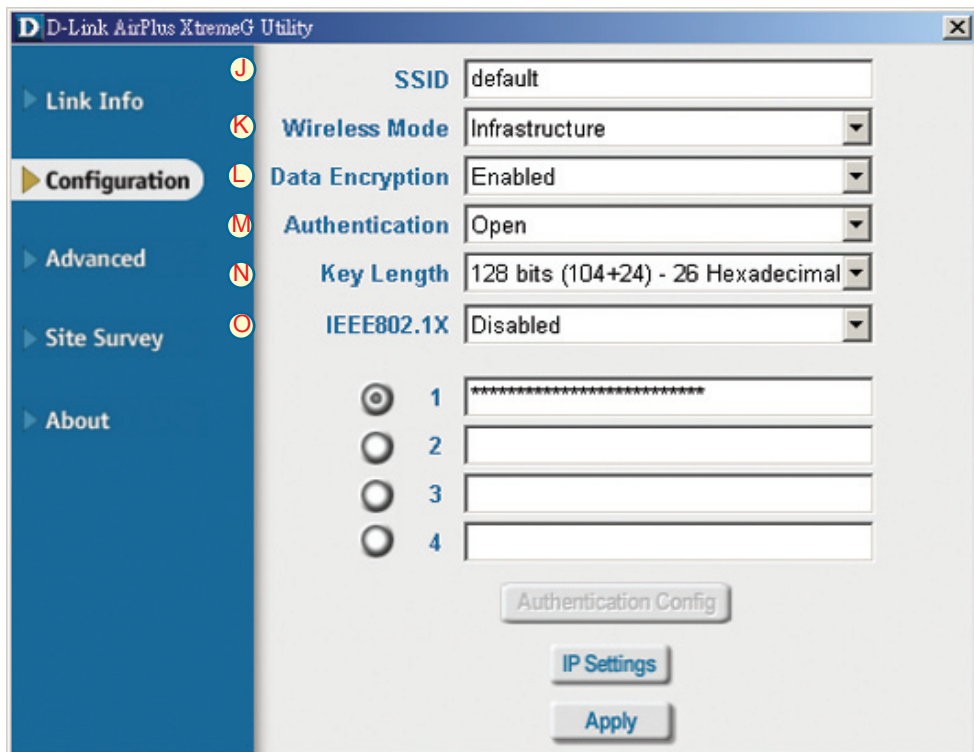
M. Authentication: You can specify the authentication mode for the wireless network. The default setting is set to Open Authentication.

N. Key Length: When encryption is enabled, you will have the option to specify the level and key format of the encryption used. Select the appropriate Key Index: 1-4 and enter ACSII or hexadecimal digits in the appropriate field.

O. IEEE 802.1X: When encryption is enabled, you will have the option to specify the level and key format of the encryption used. Select the appropriate Key Index: 1-4 and enter ACSII or hexadecimal digits in the appropriate field.
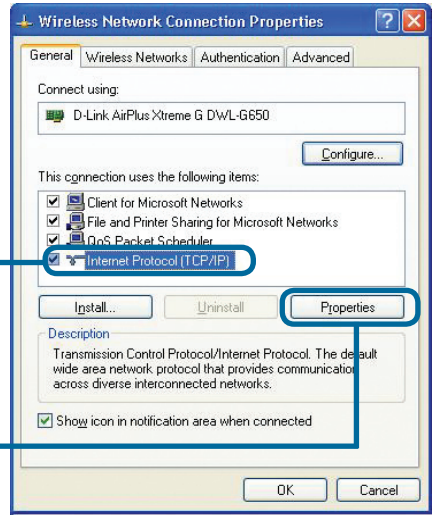
IP Address Configuration

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.
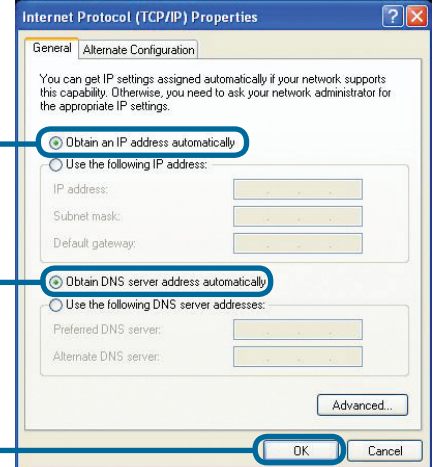
Click Internet Protocol (TCP/IP)

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

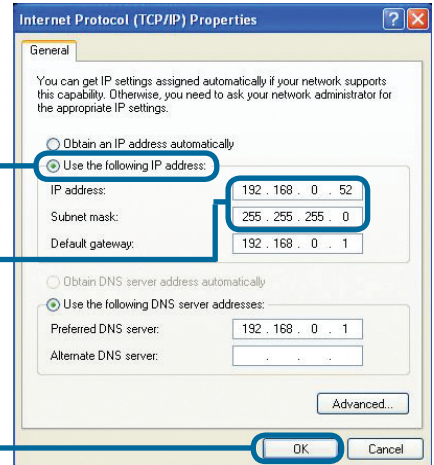**Click OK**

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.
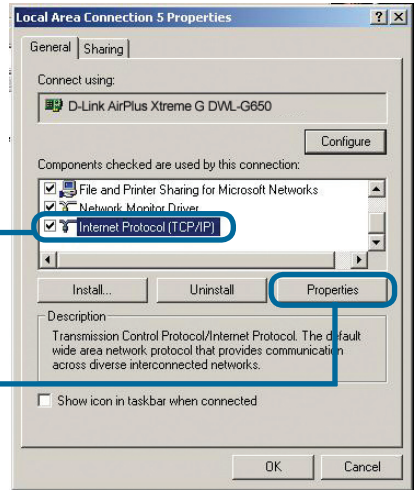
Click OK

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
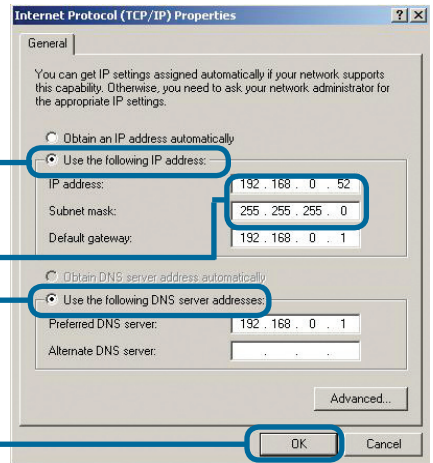
Click OK

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

MEMO
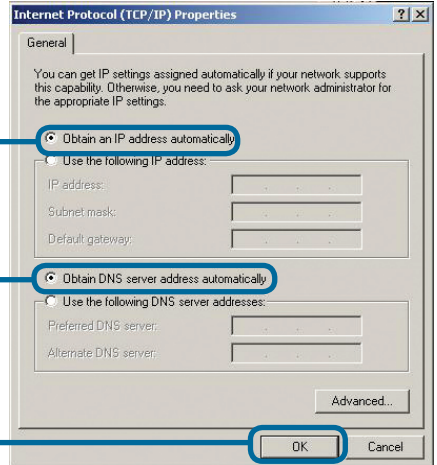
Technical Support

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 7:30am to 12:00am EST
Saturday adn Sunday 11:00am to 7:00pm EST

D-Link Technical Support over the Internet:
http://support.dlink.ca
email:support@dlink.ca

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D-Link UK & Ireland Technical Support over the Telephone:
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+353 (0)12 421 061 (Ireland)
Monday to Friday 8:00 am to 10:00 pm

D-Link Technical Support over the Internet:
http://www.dlink.co.uk

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