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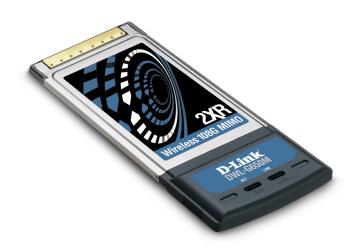
DWL-G650M Wireless 108G MIMO Notebook Adapter

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Package Contents



D-Link DWL-G650M 108G MIMO Wireless Notebook Adapter

- Manual on CD
- Printed Quick Installation Guide

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

Minimum System Requirements

- A computer or laptop with an available 32-bit Cardbus slot
- Windows XP/2000
- At least 64MB of memory and a 500MHz processor
- 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.)

Introduction

The D-Link DWL-G650M 108G MIMO Wireless Notebook Adapter is an 802.11g high-performance, wireless adapter that brings wireless networking to your laptop or desktop PC.

With a maximum wireless signal rate of up to 108Mbps, you can connect to a wireless network at home, at the office or at any wireless hotspot. Now you can stay connected wherever you are and wherever you go.

The DWL-G650M is Wi-Fi compatible, meaning that it can connect and interoperate with other 802.11b and 802.11g Wi-Fi-compliant wireless routers, access points and adapters. The DWL-G650M connects to any available Cardbus slot on a laptop Windows -based computer. A laptop computer with a DWL-G650M can be positioned virtually anywhere at a workstation to achieve the best available wireless signal reception - whether that workstation is in your office, on your deck or patio, by the pool, at the local coffee shop, or in an airport terminal while waiting to board your next flight.

The adapter works with Microsoft Windows XP/2000 operating systems to ensure that you'll be up and running on a wireless network in just a matter of seconds.

The DWL-G650M provides an increased level of security with WPA-PSK. **WPA-Personal** is directed at home users who do not have the server based equipment required for user authentication. The method of authentication is similar to WEP because you define a "Pre-Shared Key" on the wireless router/AP. Once the pre-shared key is confirmed and satisfied on both the client and access point, then access is granted. the encryption method used is referred to as the Temporal Key Integrity Protocol (TKIP), which offers per-packet dynamic hashing. It also includes an integrity checking feature which ensures that the packets were not tampered with during wireless transmission.

*Maximum wireless signal rate derived from IEEE Standard 802.11g specifications. Actual data throughput will vary. Network conditions and evironmental factors lower actual data throughput rate.

Features and Benefits

- Provides maximum wireless signal rate of up to 108Mbps*
- Fully 802.11b/802.11g compatible.
- Better Security with WPA-PSK In addition to 64-,128-bit WEP encryption, you can also securely connect to a wireless network using WPA-PSK.
- Utilizes Smart Antenna technology.
- Supports Infrastructure networks via an access point and Peer-to-Peer communication in Ad-Hoc mode.
- User-friendly configuration and diagnostic utilities.

^{*}Maximum wireless signal rate derived from IEEE Standard 802.11g specifications. Actual data throughput will vary. Network conditions and environmental factors lower actual data throughput rate.

Wireless Basics

D-Link wireless products are based on industry standards to provide easy-to-use and compatible high-speed wireless connectivity within your home, business or public access wireless networks. D-Link wireless products will allow you access to the data you want, when and where you want it. You will be able to enjoy the freedom that wireless networking brings.

A wireless local area network (WLAN) is a computer network that transmits and receives data with radio signals instead of wires. WLANs are used increasingly in both home and office environments, and public areas such as airports, coffee shops and universities. Innovative ways to utilize WLAN technology are helping people to work and communicate more efficiently. Increased mobility and the absence of cabling and other fixed infrastructure have proven to be beneficial to many users.

Wireless users can use the same applications they use on a wired network. Wireless adapter cards used on laptop and desktop systems support the same protocols as Ethernet adapter cards.

People use WLAN technology for many different purposes:

Mobility - Productivity increases when people have access to data in any location within the operating range of the WLAN. Management decisions based on real-time information can significantly improve worker efficiency.

Low Implementation Costs - WLANs are easy to set up, manage, change and relocate. Networks that frequently change can benefit from WLANs ease of implementation. WLANs can operate in locations where installation of wiring may be impractical.

Installation and Network Expansion - Installing a WLAN system can be fast and easy and can eliminate the need to pull cable through walls and ceilings. Wireless technology allows the network to go where wires cannot go - even outside the home or office.

Inexpensive Solution - Wireless network devices are as competitively priced as conventional Ethernet network devices.

Scalability - WLANs can be configured in a variety of ways to meet the needs of specific applications and installations. Configurations are easily changed and range from Peer-to-Peer networks suitable for a small number of users to larger Infrastructure networks to accommodate hundreds or thousands of users, depending on the number of wireless devices deployed.

Standards-Based Technology

The DWL-G650M Wireless Cardbus Adapter utilizes the **802.11g** standard.

The IEEE **802.11g** standard is an extension of the 802.11b standard. It increases the data rate up to 54Mbps within the 2.4GHz band, utilizing **OFDM technology.**

This means that in most environments, within the specified range of this device, you will be able to transfer large files quickly or even watch a movie in MPEG format over your network without noticeable delays. This technology works by transmitting high-speed digital data over a radio wave utilizing **OFDM** (**O**rthogonal **F**requency **D**ivision **M**ultiplexing) technology. **OFDM** works by splitting the radio signal into multiple smaller sub-signals that are then transmitted simultaneously at different frequencies to the receiver. **OFDM** reduces the amount of **crosstalk** (interference) in signal transmissions. The D-Link DWL-G650M will automatically sense the best possible connection speed to ensure the greatest speed and range possible.

802.11g offers the most advanced network security features available today, including: WPA, 802.1x, TKIP, AES and Pre-Shared Key mode. These security features are explained in more detail in the *Introduction* section of this manual.

The DWL-G650M is backwards compatible with 802.11b devices. This means that if you have an existing 802.11b network, the devices in that network will be compatible with 802.11g devices at speeds up to 11Mbps in the 2.4GHz range. Also based on the IEEE **802.11b** standard, the DWL-G650M is interoperable with existing compatible 2.4GHz wireless technology with data transfer speeds of up to 11Mbps.

Installation Considerations

The DWL-G650M lets you access your network using a wireless connection from virtually anywhere within its operating range. Keep in mind, however, that the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through, may limit the range. Typical ranges vary depending on the types of materials and background RF (radio frequency) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines:

- Keep the number of walls and ceilings between the DWL-G650M and other network devices to a minimum each wall or ceiling can reduce your DWL-G650M's range from 3-90 feet (1-30 meters.) Position your devices so that the number of walls or ceilings is minimized.
- Be aware of the direct line between network devices. A wall that is 1.5 feet thick (.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.
- Building materials can impede the wireless signal a solid metal door or aluminum studs may have a negative effect on range. Try to position wireless devices and computers with wireless adapters so that the signal passes through drywall or open doorways and not other materials.
- Keep your product away (at least 3-6 feet or 1-2 meters) from electrical devices or appliances that generate RF noise.

Getting Started

There are basically two modes of networking:

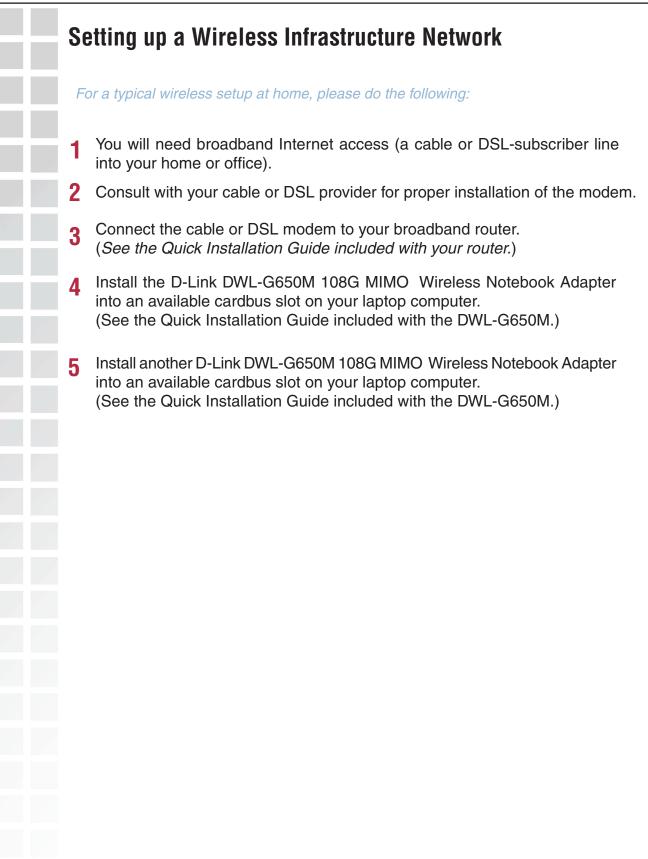
Infrastructure – using an access point or router, such as the DI-624M.

Ad-Hoc – directly connecting to another computer, for Peer-to-Peer communication, using wireless network adapters on each computer, such as two or more DWL-G650M Wireless Network adapters.

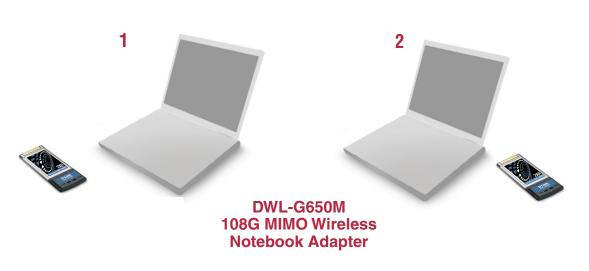
On the following pages we will show you an example of an **Infrastructure Network** and an **Ad-Hoc Network**.

An **Infrastructure** network contains an access point or router. The **Infrastructure network** example shown on the following page contains the following D-Link network devices (your existing network may be comprised of other devices):

- A wireless router D-Link 108G MIMO DI-624M
- Laptop computers with a D-Link 108G MIMO DWL-G650M
- A cable modem D-Link DCM-202



Setting up a Wireless Ad-Hoc Network



For a typical wireless setup at home (as shown above), please do the following:

- 1 Install the **D-Link DWL-G650M 108G MIMO** Wireless Notebook adapter into the laptop computer. (See the Quick Installation Guide included with the product.)
- 2 Install the **D-Link DWL-G650M 108G MIMO** Wireless Notebook adapter into the laptop computer. (See the Quick Installation Guide included with the product.)
- 3 Set the wireless configuration for the adapters to Ad-Hoc mode, set the adapters to the same channel, and assign an IP address to each computer on the Ad-Hoc network.

IP Address

When assigning IP addresses to the computers on the network, please remember that the **IP address for each computer must be in the same IP address range as all the computers in the network**, and the subnet mask must be exactly the same for all the computers in the network.

For example: If the first computer is assigned an IP address of 192.168.0.2 with a subnet mask of 255.255.255.0, then the second computer can be assigned an IP address of 192.168.0.3 with a subnet mask of 255.255.255.0, etc.

IMPORTANT: If computers or other devices are assigned the same IP address, one or more of the devices may not be visible on the network.

Using the Configuration Utility

D-Link DWL-G650M 108G MIMO Wireless Notebook adapter uses the Configuration Utility as the management software. The utility provides the user an easy interface to change any settings related to the wireless adapter. After you have completed the installation of the DWL-G650M (refer to the *Quick Installation Guide* that came with your purchase) whenever you start the computer, the **Configuration Utility** starts automatically and the system tray icon is loaded in the toolbar (see illustration below.*) Clicking on the utility icon will start the **Configuration Utility**. Another way to start the **Configuration Utility** is to click on **Start>Programs>D-Link Technology > D-Link** Wireless Utility.

If you are using Windows XP, you can use either the Zero Configuration Utility or the D-Link Configuration Utility.

To use the D-Link Configuration Utility with XP, right-click on the wireless network icon in the taskbar in the lower right-hand corner of your computer screen.

In the window that appears, select **View Available Wireless Networks** and click the **Advanced** button. The screen at right will appear.

Select the Wireless Networks tab.

Uncheck the box in the properties window that enables windows configuration.

After you have done this, you can then use the D-Link Configuration Utility with XP by clicking on the D-Link Configuration Utility icon.

If the icon does not display in the taskbar, then click on this icon on your desktop to open.



| | erties 🤶 |
|--|-------------------|
| General Wireless Networks Advanced | |
| Use Windows to configure my wireless netwo Available networks: | rk settings |
| To connect to an available network, click Con | fiaure. |
| 👔 manhattanroom 🔼 | <u>C</u> onfigure |
| i friday624 | R <u>e</u> fresh |
| Automatically connect to available networks in below: | Move up |
| | Move down |
| | Move down |
| Add Remove Propertie | |
| Add <u>Remove</u> Propertie Learn about setting up wireless network configuration. | |



*Configuration Utility icon in the system tray

🛃 🚺 12:20 PM

| Link Info | |
|------------------|---------|
| D DWL | |
| Link In | |
| Configu | |
| Encryp | - i |
| <u>Site Su</u> | |
| About | |
| | |
| | i |
| | - 1 |
| | |
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| | |
| Status: | |
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| | |
| SSID: | |
| - | |
| Tx Rate: | |
| | |
| Channel: | |
| Unanner. | |
| _ | |
| Rescan: | |
| | |
| Link Quality: | |
| | |
| | |
| Signal Strength: | |
| | |
| Data Rate: | |
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| D DWL- | G650M Super G MIM |) Technology V | /ireless U | ility | | \mathbf{X} |
|------------|--|----------------------------------|---|---------------|---------------|--------------|
| Link Inf | Status | Associated BS | SID=00:80:0 | 8:0A:0B:50 | | |
| Configu | ration SSID | default | | | | |
| Encrypt | ion Tx Rate | 54 | Mbps | | | |
| Site Su | rvev Channel | 6 | | Rescan | | |
| About | Link Qu Link G Data Ra Transm | ality/Signal Strength luality | 93 % Kbps 10000 1000 1000 1000 100 100 100 0 | 0 | 93 % | |
| Status: | Displays the MA DWL-G650M is | | f the acc | cess point or | router to wh | ich the |
| SSID: | The Service Se network. The fac | | | • | ed to the w | ireless |
| Tx Rate: | The default set determined for (108Mbps* in Tu | a maximum | | • | | |
| Channel: | The default sett determined by t | • | | annel selecti | on is autom | atically |
| Rescan: | Rescans for the swith that access | 0 0 | | the current S | SID and asso | ociates |
| c Quality: | Displays the Lin to the access p | | | L-G650M's v | vireless con | nection |
| Strength: | Displays the sig wireless connec | 0 | | | | 650M's |
| ata Rate: | Displays the star | atistics of the | e data p | ackets that a | are transmitt | ed and |

| DWL-G650M St | iper G MIMO Tec | hnology Wireless | Utility | |
|----------------------------|---|---|---|---|
| Link Info. | SSID | default | | |
| Encryption | Wireless Mode | Infrastructure | 💌 🔽 SUPER G | |
| SiteSurvey | AdHoc Band | | ₩ 11B ₩ 11G | |
| About | Channel | 6 | × | |
| | Tx Rate | Auto | | |
| | Power Mode | Continuous Access I | Mode 💌 | |
| | | | | |
| SSID: Wireless Mode: | network. The f | factory SSID set tructure or Ad- ng Started sectio | the name assigne ting is default . Hoc will be display on in this manual for | ved here. (Plea |
| | network. The set the <i>Infrast</i> see the <i>Gettin</i> these two mo The channel source of the the channel source of the | factory SSID set tructure or Ad- ng Started section des.) selection is autor | ting is default . Hoc will be display on in this manual for matically determine oc mode, you may | ved here. (Plea an explanatior d by the |
| Wireless Mode: | network. The finite of the channel of the channel of DWL-G650M. The default | factory SSID set tructure or Ad- ng Started section des.) selection is autor . When in Ad-Ho e default channel setting is Auto. | ting is default . Hoc will be display on in this manual for matically determine oc mode, you may | ved here. (Plea an explanation od by the select a chan re automatica |
| Wireless Mode: Channel: | network. The filter infrast see the <i>Gettin</i> these two mo The channel s DWL-G650M, manually. The The default determined for Preamble Typ <i>Preamble</i> . The (Cyclic Redur access point a technique for networks sho | factory SSID set tructure or Ad- ing Started section odes.) selection is autor when in Ad-Ho e default channel setting is Auto. or the maximum pe - By default the preamble defir indancy Check) u and the wireless detecting data the ould use the shor | ting is default . Hoc will be display on in this manual for matically determine oc mode, you may l is 6. | ved here. (Plea an explanation ed by the select a chan are automatica o <i>Short and Lo</i> e CRC block ion between th CRC is a comr High traffic The |

| DWL-G650M S | uper G MIMO Techr | nology Wireless Utility | |
|---------------|---|--|----------------------|
| Link Info | Encryption | None | • |
| Configuration | Auth. Mode | None WEP WPA-PSK | |
| Encryption | | WFAFSN | |
| Site Survey | Default Key Netwo | ork Key | Key Length |
| About | © 1 | | 64 bits 🔽 |
| | | | 64 bits |
| | | | 64 bits 💌 |
| | Key Format | HEX | |
| Encryption: | WPA-PSK or Non | ption mode here. The choi ie. When WPA or WPA-PSK vindows, shown on the follo | is selected, click C |
| Auth. Mode: | on your screen. | ne following modes: | wing pages, win ap |
| | Open Authentic on the network. Shared Authent devices with iden Auto – the DW | tication – the DWL-G650M tication – allows commun ntical WEP settings. /L-G650M will automation ode for your network. | nication only with |
| | Authentication m | odo lor jour notivollu | |

Encryption-WPA-PSK

When you select WPA-PSK in the Encryption window, the screen below will appear. Suitable for the home user, WPA-PSK (WPA Pre-Shared Key) is a superior form of security that does not require a RADIUS server in the network.

By using TKIP (Temporal Key Integrity Protocol), the security keys change at set intervals, creating a network that is more secure than one that utilizes WEP encryption

| fine WPA PSK | |
|---|---------------------------|
| Enter your WPA Passphrase. characters. | . The minimum length is 8 |
| | |
| | Cancel |
| | |

Define WPA PSK: Enter the WPA Passphrase.* All the devices on the network must share this same passphrase in order to communicate on the network.

OK: Click OK to save the passphrase.

*Hint: The longer the key, the more secure your network will be.

| DWL-GOJOM J | uper G MIMO Technology Wireless Utility 📃 🗖 🔀 |
|------------------------------|---|
| Link Info | Available Network |
| Configuration | BSS/IBSSID SSID WEP ▲ Refresh |
| Encryption | ▲ 00-03-2F-27-40-79 default ♠ Yes Connect ▲ 00-0F-3D-37-D9-46 pm624 ♠ Yes ▲ ▲ 00-0D-88-EC-81-9A default ♠ No |
| Site Survey | CO-OF-3D-FA-96-77 dsaExtremalAuth |
| About | Profile Add Remove Properties Connect Connect |
| Available Network. | Scroll up and down the list and highlight the network to which yo |
| | wish to connect. Click on the Connect button. |
| Profile: | In the lower half of the screen, you can manage the profiles that yo have created. Scroll up and down and highlight the profile that yo wish to configure. You can Add or Remove a profile, or configure the Properties of the profile in order to connect with an available |
| Profile: Refresh: | In the lower half of the screen, you can manage the profiles that yo have created. Scroll up and down and highlight the profile that yo wish to configure. You can Add or Remove a profile, or configure the Properties of the profile in order to connect with an available network. When you click Add , Properties or Connect , the population screen on the next page will appear for configuration purposes. |
| | In the lower half of the screen, you can manage the profiles that yo have created. Scroll up and down and highlight the profile that yo wish to configure. You can Add or Remove a profile, or configure the Properties of the profile in order to connect with an available network. When you click Add , Properties or Connect , the population of the next page will appear for configuration purposes. Click on Refresh to get the most updated list of available network. |
| Refresh: | In the lower half of the screen, you can manage the profiles that yo have created. Scroll up and down and highlight the profile that yo wish to configure. You can Add or Remove a profile, or configure the Properties of the profile in order to connect with an available network. When you click Add , Properties or Connect , the population of the next page will appear for configuration purposes. Click on Refresh to get the most updated list of available network. |
| Refresh: Connect: | In the lower half of the screen, you can manage the profiles that yo have created. Scroll up and down and highlight the profile that yo wish to configure. You can Add or Remove a profile, or configure the Properties of the profile in order to connect with an availabl network. When you click Add , Properties or Connect , the population on the next page will appear for configuration purposes. Click on Refresh to get the most updated list of available network Highlight a network profile; click Connect to connect to that network Click Add and the screen on the next page will appear. |
| Refresh: Connect: Add: | In the lower half of the screen, you can manage the profiles that yo have created. Scroll up and down and highlight the profile that yo wish to configure. You can Add or Remove a profile, or configur the Properties of the profile in order to connect with an availabl network. When you click Add , Properties or Connect , the populate screen on the next page will appear for configuration purposes. Click on Refresh to get the most updated list of available network. Highlight a network profile; click Connect to connect to that network Click Add and the screen on the next page will appear. Highlight a network profile; click Remove to remove a network from the profile list. |

| Site Survey - | Profile Configuration |
|------------------------------|---|
| When you click Ac | dd, Properties or Connect in the Site Survey or Encryption screen, |
| this popup screen | appears for configuration purposes. |
| | Connect: Default |
| | Profile Name Default |
| | SSID Default |
| | Wireless Mode Infrastructure |
| | Channel 1 |
| | Tx Rate Auto |
| | Power Mode Continuous Access Mode 💌 |
| | Data Encryption WPA OPTION Config |
| | C WPA PSK |
| | Auth Mode Auto |
| | Key Lengur |
| | |
| | |
| | C 4 64 bits ▼ |
| | |
| | Key Format HEX |
| | OK Cancel |
| Profile Name: | Enter a name for the network profile here. |
| 0010- | The Service Set Identifier is the name assigned to the wireless |
| SSID: | network. The factory SSID setting is default . |
| | |
| Wireless Mode: | Either Infrastructure or Ad-Hoc will be displayed here. (Please see the <i>Getting Started</i> section in this manual for an explanation of these two modes.) |
| Channel: | The channel selection is automatically determined by the |
| | DWL-G650M. |
| | |
| Tx Rate: | The default setting is Auto. These settings are automatically |
| | determined for the maximum wireless signal rate. |
| | |
| Power Mode: | 5 |
| | this setting at the default. |
| | |

Site Survey - Profile Configuration

- **Data Encryption:** Select the Encryption mode here. The choices are: WEP, WPA, WPA-PSK. When WPA or WPA-PSK is selected, click **Config** and the pop-up windows, shown on the following pages, will appear on your screen.
 - Auth. Mode:
 Choose one of the following modes:
 Open Authentication the DWL-G650M is visible to all devices on the network.
 Shared Authentication allows communication only with other devices with identical WEP settings.
 Auto the DWL-G650M will automatically select the best Authentication mode for your network.
 - **Config:** When you select WPA or WPA-PSK in the Auth. Mode pulldown menu, click **Config**. The popup windows shown on the previous pages will appear.
 - Auth. Mode: Select Open, Shared or Auto.
 - **Default Key:** Of the four WEP keys entered, select one key as the default key.
 - **Network Key:** Enter the WEP key here.
 - **Key Length:** Select the Key length here, either 64-, 128-bits.
 - **Key Format:** Select Hexadecimal or ASCII format.
 - **OK:** Click OK to save the settings.

| Link Info. Configuration | D-Link | PR |
|---------------------------------------|---|--|
| Encryption SiteSurvey About >>> | МІМО Т | t Antenna ECHNOLOGY Notebook Adapter |
| | Adapter Information | © Copyrig |
| | Utility Version Driver Version | 1.0 1.0.0.28 |
| | | |
| | The About screen displays th Driver version of the DWL-G | |
| | | |

Networking Basics

Using the Network Setup Wizard in Windows XP

In this section you will learn how to establish a network at home or work, using **Microsoft Windows XP.**

Note: Please refer to websites such as <u>http://www.homenethelp.com</u> and <u>http://www.microsoft.com/windows2000</u> for information about networking computers using Windows 2000,/Me/98SE.

Go to Start>Control Panel>Network Connections Select Set up a home or small office network

Network Setup Wizard



Welcome to the Network Setup Wizard

This wizard will help you set up this computer to run on your network. With a network you can:

- · Share an Internet connection
- Set up Internet Connection Firewall
- Share files and folders
- Share a printer

To continue, click Next.

< Back

Next >

When this screen appears, click Next.

Cancel

Please follow all the instructions in this window:

| Before you continue | |
|---|---|
| Before you continue, review the | e checklist for creating a network. |
| Then, complete the following st | reps: |
| Install the network cards, mo Turn on all computers, printer Connect to the Internet. | |
| When you click Next, the wizar | d will search for a shared Internet connection on your network. |
| | |
| | |
| | |
| | |

Click Next.

In the following window, select the best description of your computer. If your computer connects to the Internet through a router, select the second option as shown.

| Network Setup Wizard |
|--|
| Select a connection method. |
| Select the statement that best describes this computer: |
| O This computer connects directly to the Internet. The other computers on my network connect to the Internet through this computer. <u>View an example</u> . |
| This computer connects to the Internet through another computer on my network or through a residential gateway. <u>View an example</u> . |
| |
| Learn more about home or small office network configurations. |
| < <u>Back</u> <u>Next</u> Cancel |
| |

| Network Setup Wizard | 1 |
|-------------------------------|---|
| Give this computer a | a description and name. |
| <u>C</u> omputer description: | Mary's Computer |
| | Examples: Family Room Computer or Monica's Computer |
| Computer name: | Office |
| | Examples: FAMILY or MONICA |
| The current computer na | me is Office |
| Learn more about <u>compu</u> | iter names and descriptions. |
| | < <u>B</u> ack <u>N</u> ext > Car |

Enter a **Workgroup** name. All computers on your network should have the same **Workgroup name**.

| Network Setup Wiza | ra |
|--|--|
| Name your network | |
| Name your network by should have the same | specifying a workgroup name below. All computers on your network workgroup name. |
| Workgroup name: | Accounting |
| | |
| | |

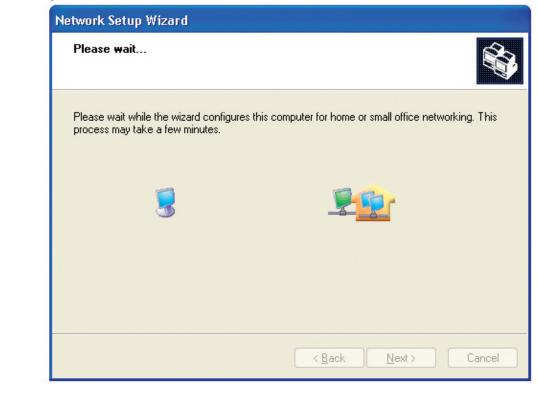
Click Next.

Please wait while the Network Setup Wizard applies the changes.

| Ready to apply netw | ork settings | | |
|---|--|----------------------------|--------------------|
| The wizard will apply the and cannot be interrupte Settings: | | s process may take a few m | inutes to complete |
| Network settings: Computer description: Computer name: Workgroup name: | Mary's Computer Office Accounting folder and any printers | connected to this compute | r have been |
| To apply these settings, o | click Next. | | |
| | | < Back Next | |

When the changes are complete, click **Next**.

Please wait while the **Network Setup Wizard** configures the computer. This may take a few minutes.



In the window below, select the option that fits your needs. In this example, **Create a Network Setup Disk** has been selected. You will run this disk on each of the computers on your network. Click **Next**.

| You're almost done | |
|--------------------------------------|---|
| | k Setup Wizard once on each of the computers on your on computers that are not running Windows XP, you can use etwork Setup Disk. |
| What do you want to do? | |
| Create a Network Setup Disk | |
| O ∐se the Network Setup Disk Ia | lready have |
| ◯ U <u>s</u> e my Windows XP CD | |
| OJust finish the wizard; I don't nee | ed to run the wizard on other computers |
| | |
| | |
| | |
| | < <u>B</u> ack <u>N</u> ext > Cance |

Insert a disk into the Floppy Disk Drive, in this case drive A.

| Network Setup Wizard | | |
|--------------------------------------|----------------------------------|---------------|
| Insert the disk you want to | use. | |
| Insert a disk the into the following | disk drive, and then click Next. | |
| 3兆 Floppy (A:) | | |
| If you want to format the disk, clic | k Format Disk. | |
| <u>F</u> ormat Disk | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | < Back | Next > Cancel |
| | | |

D-Link Systems, Inc.



| Copying | |
|--|--------|
| Dease wait while the wizard copies files | D |
| (| Cancel |

Please read the information under **Here's how** in the screen below. After you complete the **Network Setup Wizard** you will use the **Network Setup Disk** to run the **Network Setup Wizard** once on each of the computers on your network. Click **Next**.

| Network Setup Wizard |
|--|
| To run the wizard with the Network Setup Disk |
| Complete the wizard and restart this computer. Then, use the Network Setup Disk to run the Network Setup Wizard once on each of the other computers on your network. Here's how: 1. Insert the Network Setup Disk into the next computer you want to network. 2. Open My Computer and then open the Network Setup Disk. 3. Double-click "netsetup." |
| < <u>Back</u> Next > Cancel |
| |

Please read the information on this screen, then click **Finish** to complete the **Network Setup Wizard**.

| Network Setup Wizard | |
|----------------------|--|
| | Completing the Network Setup Wizard |
| | You have successfully set up this computer for home or small office networking. |
| 田ろ | For help with home or small office networking, see the following topics in Help and Support Center: |
| | <u>Using the Shared Documents folder</u> Sharing files and folders |
| | To see other computers on your network, click Start, and then click My Network Places. |
| | |
| | To close this wizard, click Finish. |
| | < <u>B</u> ack Finish Cancel |

The new settings will take effect when you restart the computer. Click **Yes** to restart the computer.



You have completed configuring this computer. Next, you will need to run the **Network Setup Disk** on all the other computers on your network. After running the **Network Setup Disk** on all your computers, your new wireless network will be ready to use. Please read the information on this screen, then click **Finish** to complete the **Network Setup Wizard**.

| Network Setup Wizard | |
|----------------------|--|
| | Completing the Network Setup Wizard |
| | You have successfully set up this computer for home or small office networking. |
| 出了 | For help with home or small office networking, see the following topics in Help and Support Center: |
| | <u>Using the Shared Documents folder</u> Sharing files and folders |
| | To see other computers on your network, click Start, and then click My Network Places. |
| | |
| | To close this wizard, click Finish. |
| | < <u>B</u> ack Finish Cancel |

The new settings will take effect when you restart the computer. Click **Yes** to restart the computer.

| System S | Settings Change |
|----------|---|
| ? | You must restart your computer before the new settings will take effect. Do you want to restart your computer now? |
| | Yes <u>N</u> o |

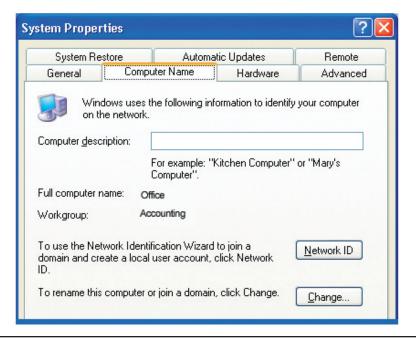
You have completed configuring this computer. Next, you will need to run the **Network Setup Disk** on all the other computers on your network. After running the **Network Setup Disk** on all your computers, your new wireless network will be ready to use. Naming your Computer To name your computer using Windows XP, please follow these directions: Click Start (in the lower left corner of the screen). Right-click on My Computer. Select Properties. Internet My Documents Internet Explorer 沟 My Recent Documents 🕩 E-mail Outlook Express **My Pictures** Command Prompt My Music MSN Explorer My Compute Open **My Network** Explore Windows Media Player Search... Manage Control Panel Windows Movie Maker Map Network Drive... Connect To Disconnect Network Drive... Tour Windows XP 🚔 Printers and F Show on Desktop Rename Files and Settings Transfer Wizard

Select the **Computer Name Tab** in the System Properties window. You may enter a **Computer Description** if you wish; this field is

🕜 Help and Sup

Properties

To rename the computer and join a domain, click Change.



Naming Your Computer

In this window, enter the Computer name.

Select Workgroup and enter the name of the Workgroup.

All computers on your network must have the same **Workgroup** name. Click **OK**.

| Computer Name Changes |
|---|
| You can change the name and the membership of this computer. Changes may affect access to network resources. |
| Computer name: |
| Office |
| Full computer name: Office <u>M</u> ore |
| Member of |
| O Domain: |
| |
| ⊙ <u>W</u> orkgroup: |
| Accounting |
| |
| OK Cancel |

Checking the IP Address in Windows XP

All wireless adapter-equipped computers in your network must be in the same IP address range (see **Getting Started** in this manual for a definition of IP address range.) To check on the IP address of an adapter, please do the following:

Right-click on the Local Area Connection icon in the task bar.

Click on Status.



| Click the Suppo | ort tab. | |
|-----------------|-------------------------------|------------------|
| | | ection 7 Status |
| | General Support | |
| | - Internet Protocol (TCP/IP)- | |
| | Address Type: | Assigned by DHCP |
| | IP Address: | 192.168.0.114 |
| | Subnet Mask: | 255.255.255.0 |
| | Default Gateway: | 192.168.0.1 |
| | | Details |
| | Regair | |
| | | |
| | | |
| | | Clos |

Assigning a Static IP Address in Windows XP/2000

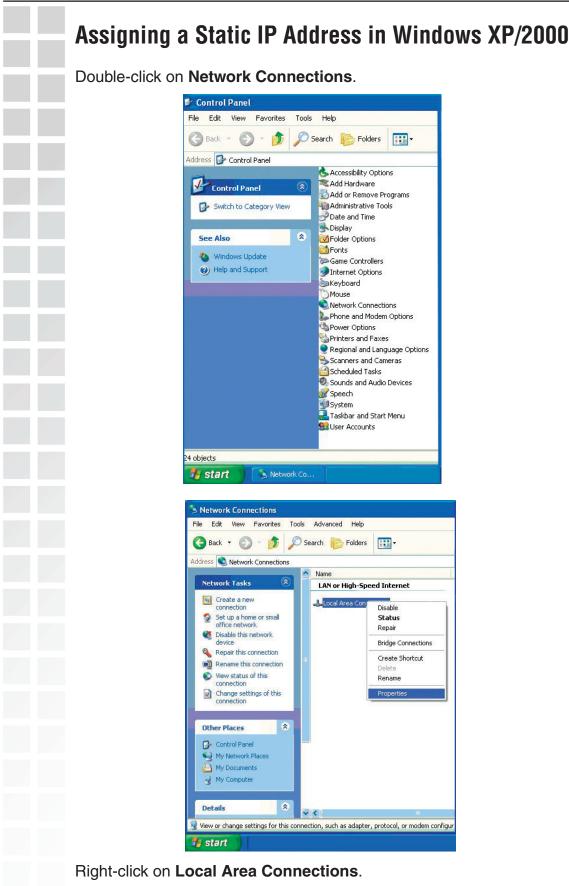
Note: Many broadband routers will automatically assign IP addresses to the computers on the network, using DHCP (Dynamic Host Configuration Protocol) technology. If you are using a DHCP-capable router you will not need to assign static IP addresses.

If you are not using a DHCP capable router, or you need to assign a static IP address, please follow these instructions:

Go to Start.

Click on Control Panel.





Click on **Properties**.

D-Link Systems, Inc.

Assigning a Static IP Address in Windows XP/2000

Click on Internet Protocol (TCP/IP).

| Click Properties. | |
|-------------------|--|
|-------------------|--|

| Local Area Connection 7 Properties | ? 🗙 |
|---|------|
| General Advanced | |
| Connect using: | |
| D-Link DWL-A650 | |
| | |
| This connection uses the following items: | |
| Client for Microsoft Networks | |
| File and Printer Sharing for Microsoft Networks QoS Packet Scheduler | |
| Internet Protocol (TCP/IP) | |
| | |
| Install | |
| Description | |
| Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks. | |
| Show icon in notification area when connected | |
| OK Car | ncel |

Input your **IP address and subnet mask.** (The IP addresses on your network must be within the same range. For example, if one computer has an IP address of 192.168.0.2, the other computers should have IP addresses that are sequential, like 192.168.0.3 and 192.168.0.4. The subnet mask must be the same for all the computers on the network.)

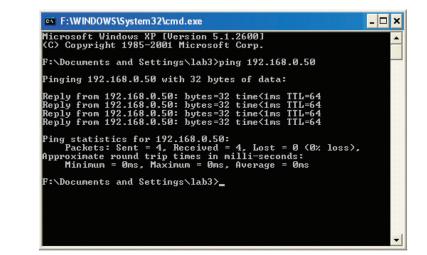
Input your DNS server addresses. (Note: If you are entering a DNS server, you must enter the IP address of the Default Gateway.)

The DNS server information will be supplied by your ISP (Internet Service Provider.)

| nternet Protocol (TCP/IP) Properties 🛛 🔹 💽 | | | | | | |
|--|--|--|--|--|--|--|
| General | | | | | | |
| this cap | n get IP settings assigned autom ability. Otherwise, you need to a ropriate IP settings. | atically if your network supports sk your network administrator for | | | | |
| 00 | otain an IP address automatically | | | | | |
| • U <u>s</u> | e the following IP address: — | | | | | |
| <u>I</u> P ad | ldress: | 192.168.0.2 | | | | |
| Subr | Subnet mask: 255 . 255 . 255 . 0 | | | | | |
| <u>D</u> efa | Default gateway: | | | | | |
| OO | Obtain DNS server address automatically | | | | | |
| O U: | se the following DNS server add | resses: | | | | |
| Prefe | erred DNS server: | | | | | |
| Alter | nate DNS server: | | | | | |
| | | Ad <u>v</u> anced | | | | |

Click OK.

Checking the Wireless Connection by <u>Pinging in Windows XP and 2000</u>



Go to **Start** > **Run** > type **cmd**. A window similar to this one will appear. Type **ping xxx.xxx.xxx**, where **xxx** is the **IP address** of the wireless router or access point. A good wireless connection will show four replies from the wireless router or access point, as shown.

Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DWL-G650M. Read the following descriptions if you are having problems. (The examples below are illustrated in Windows XP. If you have another operating system, these solutions will still apply although the appearance on your computer screen may differ.)

1. How do I check to see that the drivers for the DWL-G650M are installed properly?

Go to Start > My Computer > Properties.



Select the Hardware Tab.

Click Device Manager.

| System R | estore | Automa | tic Updates | Remote |
|------------|--|---|--|------------------|
| General | Com | Computer Name Hardware | | Advances |
| Add Hardw | | | | |
| | | rdware Wizard h | elps you install hards | ware |
| × . | | | apo you monut maru | 19.9 |
| | | | · · · · · · · · · | |
| | | | Add Hardwar | e Wizard |
| | | | | |
| Device Ma | aner | | | |
| | | Manager livin all | ika kanturna daria | as installed |
| 5 | he Device n your com | puter. Use the D | the hardware device evice Manager to cl | |
| 5 | he Device n your com | | | |
| 5 | he Device n your com roperties of | puter. Use the D | | hange the |
| . | he Device n your com roperties of Drive | puter. Use the D any device. | evice Manager to cl | hange the |
| Hardware F | he Device n your com roperties of Drive Trofiles | puter. Use the D any device. r <u>Sig</u> ning | evice Manager to cl | hange the |
| Hardware F | he Device n your com roperties of Drive Tofiles lardware pr | puter, Use the D any device. r <u>Signing</u> ofiles provide a v | evice Manager to cl | hange the |
| Hardware F | he Device n your com roperties of Drive Tofiles lardware pr | puter. Use the D any device. r <u>Sig</u> ning | evice Manager to cl | hange the |
| Hardware F | he Device n your com roperties of Drive Tofiles lardware pr | puter, Use the D any device. r <u>Signing</u> ofiles provide a v | evice Manager to cl | anager and store |

| Double-click on Network Adapters. |
|---|
| Right-click on D-Link DWL-G650M 108G MIMO Wireless Notebook Adapter. |
| Select Properties to check that the drivers are installed properly. |
| Image: |
| Image: Include shoot Image: Image: Include shoot Image: Im |

2. What variables may cause my wireless products to lose reception?

D-Link products let you access your network from virtually anywhere you want. However, the positioning of the products within your environment will affect the wireless range. Please refer to **Installation Considerations** in the **Wireless Basics** section of this manual for further information about the most advantageous placement of your D-Link wireless products.

3. Why does my wireless connection keep dropping?

If you are using 2.4GHz cordless phones, X-10 equipment or other home security systems, ceiling fans, and lights, your wireless connection will degrade dramatically or drop altogether. Try changing the channel on your router, access point and wireless adapter to a different channel to avoid interference.

Keep your product away (at least 3-6 feet) from electrical devices that generate RF noise, like microwaves, monitors, electric motors, etc.

4. Why can't I get a wireless connection?

If you have enabled encryption on the DWL-G650M, you must also enable encryption on all wireless devices in the network in order to establish a wireless connection.

The encryption settings are: 64-,128- bit. Make sure that the encryption bit level is the same on the router and the DWL-G650M.

Make sure that the SSID on the wireless router (if you have one in your network) and the DWL-G650M are exactly the same. If they are not, wireless connection will not be established. The default SSID is **default**.

Technical Specifications

| IEEE 802.11g | IEEE 802.11b | IEEE 802.11 |
|--------------------------------------|--|--|
| Power Activity | | |
| Operating: 0°C | to 55°C (32°F to 1 | 31°F) |
| 95% maximum, non-condensing | | |
| Diversity | | |
| 32-bit Cardbus | | |
| 64-, 128-bit WE WPA-PSK | ĒP | |
| 54, 48, 36,24, | 18, 11, 9, 6 5.5, 2, ⁻ | 1Mbps (with Automatic Fallback) |
| Indoors: Up to 328 feet (100 meters) | | |
| Outdoors: Up to | o 1,312 feet (400 m | eters) |
| CSMA/CA with | ACK | |
| | Power Activity Operating: 0°C 95% maximum Diversity 32-bit Cardbus 64-, 128-bit WE WPA-PSK 54, 48, 36,24, Indoors: Up to 5 Outdoors: Up to 5 | Power Activity Operating: 0°C to 55°C (32°F to 1 95% maximum, non-condensing Diversity 32-bit Cardbus 64-, 128-bit WEP WPA-PSK 54, 48, 36,24, 18, 11, 9, 6 5.5, 2, 7 |

1 - Environmental factors may adversely affect wireless signal range

| Receiver54Mbps OFDM 38Mbps OFDM 24Mbps OFDM 18Mbps OFDM 14Mbps OFDM 11Mbps OFDM 6Mbps OFDM 5.5Mbps CCK 2Mbps QPSK 1Mbps BPSKTransmitter Output PowerL = 4.64 inches 14dBm \pm 2dBWeight0.12 lb. (4.4g)Weight0.12 lb. (4.4g)Warranty1 year | | | reennear opeennear |
|---|----------|--|--------------------|
| Image: | Receiver | 54Mbps OFDM 48Mbps OFDM 36Mbps OFDM 24Mbps OFDM 18Mbps OFDM 12Mbps OFDM 11Mbps OFDM 9Mbps OFDM 6Mbps OFDM 5.5Mbps CCK | |
| Physical W = 2.13 inches Dimensions H = 0.34 inches Weight 0.12 lb. (4.4g) Warranty 1 year | | 1Mbps BPSK | |
| Warranty 1 year | | W = 2.13 inches | |
| | Weight | 0.12 lb. (4.4g) | |
| | Warranty | 1 year | |
| | | | |
| | | | |

Contacting 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 web site, or by phone.

Tech Support for customers within the United States:

D-Link Technical Support over the Telephone: (877) 453-5465 Monday through Friday 8:00am to 5:00pm (PST). 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 *D-Link Technical Support over the Internet:* http://support.dlink.ca email:support@dlink.ca

When contacting technical support, please provide the following information: Serial number of the unit Model number or product name

Warranty

Subject to the terms and conditions set forth herein, D-Link Systems, Inc. ("D-Link") provides this Limited warranty for its product only to the person or entity that originally purchased the product from:

D-Link or its authorized reseller or distributor and

 Products purchased and delivered within the fifty states of the United States, the District of Columbia, U.S. Possessions or Protectorates, U.S. Military Installations, addresses with an APO or FPO.

Limited Warranty: D-Link warrants that the hardware portion of the D-Link products described below will be free from material defects in workmanship and materials from the date of original retail purchase of the product, for the period set forth below applicable to the product type ("Warranty Period"), except as otherwise stated herein.

1-Year Limited Warranty for the Product(s) is defined as follows:

- Hardware (excluding power supplies and fans) One (1) Year
- Power Supplies and Fans One (1) Year
 - Spare parts and spare kits Ninety (90) days

D-Link's sole obligation shall be to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund at D-Link's sole discretion. Such repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement Hardware need not be new or have an identical make, model or part. D-Link may in its sole discretion replace the defective Hardware (or any part thereof) with any reconditioned product that D-Link reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. Repaired or replacement Hardware will be warranted for the remainder of the original Warranty Period from the date of original retail purchase. If a material defect is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to repair or replace the defective Hardware, the price paid by the original purchaser for the defective Hardware will be refunded by D-Link upon return to D-Link of the defective Hardware. All Hardware (or part thereof) that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

Limited Software Warranty: D-Link warrants that the software portion of the product ("Software") will substantially conform to D-Link's then current functional specifications for the Software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of ninety (90) days ("Warranty Period"), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. D-Link's sole obligation shall be to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link's functional specifications for the Software or to refund at D-Link's sole discretion. Except as otherwise agreed by D-Link in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by D-Link for the Software. Software will be warranted for the remainder of the original Warranty Period from the date or original retail purchase. If a material non-conformance is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to replace the non-conforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by D-Link; provided that the non-conforming Software (and all copies thereof) is first returned to D-Link. The license granted respecting any Software for which a refund is given automatically terminates.

Non-Applicability of Warranty: The Limited Warranty provided hereunder for hardware and software of D-Link's products will not be applied to and does not cover any refurbished product and any product

purchased through the inventory clearance or liquidation sale or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product and in that case, the product is being sold "As-Is" without any warranty whatsoever including, without limitation, the Limited Warranty as described herein, notwithstanding anything stated herein to the contrary.

Submitting A Claim: The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the customer shall submit a claim to D-Link as outlined below:

• The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow D-Link to confirm the same.

• The original product owner must obtain a Return Material Authorization ("RMA") number from the Authorized D-Link Service Office and, if requested, provide written proof of purchase of the product (such as a copy of the dated purchase invoice for the product) before the warranty service is provided.

After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Do not include any manuals or accessories in the shipping package. D-Link will only replace the defective portion of the Product and will not ship back any accessories.

• The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery ("COD") is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link, with shipping charges prepaid. Expedited shipping is available if shipping charges are prepaid by the customer and upon request.

Return Merchandise Ship-To Address

USA: 17595 Mt. Herrmann, Fountain Valley, CA 92708

Canada: 2180 Winston Park Drive, Oakville, ON, L6H 5W1 (Visit <u>http://www.dlink.ca</u> for detailed warranty information within Canada)

D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link's reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

What Is Not Covered: This limited warranty provided by D-Link does not cover: Products, if in D-Link's judgment, have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; Initial installation, installation and removal of the product for repair, and shipping costs; Operational adjustments covered in the operating manual for the product, and normal maintenance; Damage that occurs in shipment, due to act of God, failures due to power surge, and cosmetic damage; Any hardware, software, firmware or other products or services provided by anyone other than D-Link; Products that have been purchased from inventory clearance or liquidation sales or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product. Repair by anyone other than D-Link or an Authorized D-Link Service Office will void this Warranty.

Disclaimer of Other Warranties: EXCEPT FOR THE LIMITED WARRANTY SPECIFIED HEREIN, THE PRODUCT IS PROVIDED "AS-IS" WITHOUT ANY WARRANTY OF ANY KIND WHATSOEVER INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IF ANY IMPLIED WARRANTY CANNOT BE DISCLAIMED IN ANY TERRITORY WHERE A PRODUCT IS SOLD, THE DURATION OF SUCH IMPLIED WARRANTY SHALL BE LIMITED TO NINETY (90) DAYS. EXCEPT AS EXPRESSLY COVERED UNDER THE LIMITED WARRANTY PROVIDED HEREIN, THE ENTIRE RISK AS TO THE QUALITY, SELECTION AND PERFORMANCE OF THE PRODUCT IS WITH THE PURCHASER OF THE PRODUCT.

Limitation of Liability: TO THE MAXIMUM EXTENT PERMITTED BY LAW, D-LINK IS NOT LIABLE UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE OR DAMAGES OF ANY CHARACTER, WHETHER DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF GOODWILL, LOSS OF REVENUE OR PROFIT. WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, FAILURE OF OTHER EQUIPMENT OR COMPUTER PROGRAMS TO WHICH D-LINK'S PRODUCT IS CONNECTED WITH, LOSS OF INFORMATION OR DATA CONTAINED IN, STORED ON, OR INTEGRATED WITH ANY PRODUCT RETURNED TO D-LINK FOR WARRANTY SERVICE) RESULTING FROM THE USE OF THE PRODUCT, RELATING TO WARRANTY SERVICE, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY, EVEN IF D-LINK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE SOLE REMEDY FOR A BREACH OF THE FOREGOING LIMITED WARRANTY IS REPAIR, REPLACEMENT OR REFUND OF THE DEFECTIVE OR NON-CONFORMING PRODUCT. THE MAXIMUM LIABILITY OF D-LINK UNDER THIS WARRANTY IS LIMITED TO THE PURCHASE PRICE OF THE PRODUCT COVERED BY THE WARRANTY. THE FOREGOING EXPRESS WRITTEN WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ANY OTHER WARRANTIES OR REMEDIES, EXPRESS, IMPLIED OR STATUTORY.

Governing Law: This Limited Warranty shall be governed by the laws of the State of California. Some states do not allow exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the foregoing limitations and exclusions may not apply. This limited warranty provides specific legal rights and the product owner may also have other rights which vary from state to state.

Trademarks: D-Link is a registered trademark of D-Link Systems, Inc. Other trademarks or registered trademarks are the property of their respective manufacturers or owners.

Copyright Statement: No part of this publication or documentation accompanying this Product may be reproduced in any form or by any means or used to make any derivative such as translation, transformation, or adaptation without permission from D-Link Corporation/D-Link Systems, Inc., as stipulated by the United States Copyright Act of 1976. Contents are subject to change without prior notice. Copyright[®] 2002 by D-Link Corporation/D-Link Systems, Inc. All rights reserved.

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.

FCC Statement: 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 communication. 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.

FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

D-Link declares that the DWL-G650M (FCC ID: KA2DWLG650MB1) is limited in CH1~CH11 by specified firmware controlled in the USA. Highest SAR test value: 0.222W/kg

Registration



Product registration is entirely voluntary and failure to complete or return this form will not diminish your warranty rights.

041405