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> D-Link DWL-G520 Wireless PCI Adapter User Manual

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Model: DWL-G520

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the D-Link DWL-G520 Wireless PCI Adapter. The DWL-G520 is designed to provide high-speed wireless connectivity for desktop computers, leveraging 802.11g technology for data transfer rates up to 108Mbps. It is also backward compatible with 802.11b devices.



Image: The D-Link DWL-G520 Wireless PCI Adapter, showing the green circuit board, the D-Link AirPlus Xtreme G label, and the attached grey antenna. The card is designed to be inserted into a PCI slot.

PRODUCT FEATURES

- **High-Speed Wireless Connectivity:** Supports 802.11g standard for speeds up to 108Mbps with AirPlus Xtreme G products.
- **Backward Compatibility:** Fully compatible with 802.11b-compliant devices.
- **Enhanced Security:** Features 802.1x and Wi-Fi Protected Access (WPA) for secure wireless communication.
- **Optimized for Streaming:** Capable of handling heavy data payloads, including real-time MPEG video streaming.
- **Configuration Utility:** Includes a utility for discovering available wireless networks and managing connectivity profiles.
- **PCI Interface:** Designed for easy installation into a standard PCI slot on desktop computers.

SETUP AND INSTALLATION

System Requirements

- Available PCI slot
- Windows operating system (Windows XP, 2000, etc.)
- CD-ROM drive for driver installation

Hardware Installation

1. **Power Off:** Ensure your computer is completely powered off and unplugged from the power outlet.
2. **Open Case:** Open the computer case to access the motherboard and PCI slots.
3. **Insert Adapter:** Locate an available PCI slot. Carefully align the DWL-G520 adapter with the slot and press firmly until it is securely seated.
4. **Secure Adapter:** Secure the adapter with the screw provided with your computer case, if applicable.
5. **Close Case:** Close the computer case and reconnect all cables.
6. **Power On:** Power on your computer.

Driver Installation

1. Upon booting, the operating system may detect new hardware. Cancel any "Found New Hardware Wizard" prompts.
2. Insert the D-Link driver CD into your CD-ROM drive.
3. Follow the on-screen instructions to install the drivers and the D-Link Wireless Utility.
4. Alternatively, download the latest drivers from the official D-Link support website for optimal performance and compatibility.

OPERATING THE ADAPTER

Connecting to a Wireless Network

1. After driver installation, launch the D-Link Wireless Utility from your desktop or system tray.
2. The utility will scan for available wireless networks. A list of detected networks will be displayed.
3. Select your desired network (SSID) from the list.
4. If the network is secured (WEP, WPA, WPA2), enter the correct security key or passphrase when prompted.
5. Click "Connect" to establish a connection. The utility will indicate the connection status and signal strength.

Using the Configuration Utility

The D-Link Wireless Utility allows you to:

- View detailed information about connected networks.
- Create and save multiple network profiles for easy switching between frequently accessed networks.
- Configure advanced wireless settings, such as ad-hoc mode or power management.
- Monitor signal quality and data transfer rates.

MAINTENANCE

- **Driver Updates:** Periodically check the official D-Link website for updated drivers. Keeping drivers current can improve performance and resolve compatibility issues.
- **Physical Inspection:** Ensure the adapter is securely seated in its PCI slot. Dust accumulation can affect performance; gently clean the computer's interior and the adapter with compressed air if necessary.
- **Antenna Position:** Adjust the antenna for optimal signal reception. Experiment with different orientations to find the best signal strength.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No wireless networks detected.	Drivers not installed or corrupted; adapter not seated correctly; wireless network disabled.	Reinstall drivers; reseal the adapter; ensure your wireless router/access point is on and broadcasting.
Cannot connect to a specific network.	Incorrect security key; MAC filtering enabled on router; out of range.	Verify security key; check router's MAC filter settings; move closer to the access point.
Slow connection speed or frequent disconnections.	Interference; weak signal; outdated drivers; network congestion.	Adjust antenna; reduce interference sources; update drivers; try a different wireless channel on your router.
Computer freezes or crashes after installation.	Driver conflict or incompatibility; hardware conflict.	Ensure latest drivers are installed; try installing the adapter in a different PCI slot; check for conflicts with other PCI cards.

SPECIFICATIONS

Model: DWL-G520

Brand: D-Link

Hardware Interface: PCI

Wireless Standard: IEEE 802.11g, backward compatible with 802.11b

Data Transfer Rate: Up to 108 Mbps (with AirPlus Xtreme G products)

Frequency Band: 2.4 GHz

Security: 802.1x, Wi-Fi Protected Access (WPA)

Dimensions: Approximately 2.13 x 4.49 x 0.34 inches

Weight: Approximately 7 ounces (0.2 Kilograms)

Manufacturer: D-Link Systems, Inc.

First Available Date: December 10, 2002

WARRANTY AND SUPPORT

The D-Link DWL-G520 Wireless PCI Adapter typically comes with a **3-Year Limited Warranty**. For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official D-Link support website.

For technical support, driver downloads, and frequently asked questions, please visit the D-Link support portal:

[D-Link Official Support Website](#)

You may also find additional resources and community forums helpful for troubleshooting and optimizing your device.