

Wireless G PCI Adapter

High-Powered Wireless Connection for Desktop PC

- Up to 108Mbps Wireless Speed *
- Multi-Path Antenna for Extended Wireless Signal Reception
- Personal/Enterprise WPA/WPA2 Security
- Business-Class WLAN Utility
- Wi-Fi & Microsoft WHQL Certified

FEATURES

High Performance

- Up to 54Mbps and 108Mbps Turbo Mode Wireless Speed *
- 5dBi High Gain Multi-Path Antenna for Extended Wireless Signal Reception
- 32-Bit Bus Master Interface to PC Host

Connectivity/Interoperability

- Multiple SSID Per Profile & Silent Installation Feature
- Wi-Fi & Microsoft WHQL Certified
- Supports DFS/TPC for European Operation
- Backward Compatible With 802.11b Wireless Devices
- Operates in Windows 98SE, ME, 2000, XP

Enhanced Security

- Personal/Enterprise WPA/WPA2 (AES) Security
- 64/128/152-Bit WEP Data Encryption

* Maximum wireless signal rate derived from IEEE standard 802.11g specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. 108Mbps Turbo speed when operating with other D-Link AirPremier, AirPremierAG, AirPlusXtremeG and GamerLounge wireless devices.

The D-Link AirPremier DWL-G550 wireless G PCI adapter combines powerful business class features with a high-performance hardware platform specifically designed for corporate environments. A perfect complement for your AirPremier wireless network, this high-powered adapter is a convenient solution for providing superior wireless connectivity for your desktop PC.

High Performance. The DWL-G550 adapter is capable of delivering a maximum wireless signal rate of up to 108Mbps when used with other D-Link wireless 108G devices. The high-powered output featured on the DWL-G550 offers extended wireless signal reception while adhering to industry standards. Higher output power allows your computer to receive and maintain strong signals from wireless routers and access points at further distances. This translates into more useable, real-world throughput from virtually anywhere in your wireless network.

Versatile Utility. The new business-class wireless LAN utility included with this adapter is capable of storing multiple SSIDs per profile. What this means to the computer user is a hassle-free and automatic process when transitioning between or changing networks. Each time a user enters an area under a different SSID, the adapter will automatically connect to the respective SSID to ensure a positive roaming experience. IT managers will also appreciate the Silent Installation feature of the DWL-G550. With this feature, the drivers can be configured to automatically install on the backend, reducing the time needed to process and configure wireless network settings.

Enhanced Security. For accessing secure networks, this adapter supports both Personal and Enterprise versions of WPA and WPA2. Now you can utilize EAP-TLS, EAP-TTLS and PEAP for secure user authentication through an 802.1x RADIUS server. Data traversing the wireless network is encrypted using either TKIP or AES.

Compatibility. The DWL-G550 adapter is backward compatible with virtually all 802.11b/g networks and devices. It can be used in peer-to-peer mode (ad-hoc) to directly connect to other 802.11b/g wirelessly enabled computers for direct file sharing, or in client mode (infrastructure) to connect with wireless access points or routers.

In addition to Wi-Fi™ certification for 802.11b and 802.11g, the DWL-G550 is also certified by Microsoft's WHQL, to ensure compatibility with Microsoft Windows XP and 2000. These certifications ensure wireless compatibility, robust data encryption, and reliable performance.

AirPremier™



DWL-G550

Technical Specifications

Standards

- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.1x

Bus Type

PCI Bus 2.2

Network Data Transfer Rate

(With auto-fall back) *

- For 802.11g: 108 (Turbo), 54, 48, 36, 24, 18, 12, 9 and 6Mbps
- For 802.11b: 11, 5.5, 2, and 1Mbps

Security

- WEP 64/128/152-bit data encryption
- WPA-Personal
- WPA-Enterprise
- WPA2-Personal
- WPA2-Enterprise

Wireless Frequency Range

- 802.11b: 2400 to 2497MHz
- 802.11g: 2400 to 2483.5MHz

Modulation Technology

- 802.11b: DQPSK, DBPSK, DSSS, CCK
- 802.11g: BPSK, QPSK, 16QAM, OFDM

Receiver Sensitivity

- 802.11b: Typical -84dBm for 11Mbps @ 8% PER, Typical -90dBm for 2Mbps @ 8% PER
- 802.11g: Typical -87dBm for 6Mbps @ 10% PER, Typical -86dBm for 9Mbps @ 10% PER, Typical -85dBm for 12Mbps @ 10% PER, Typical -83dBm for 18Mbps @ 10% PER, Typical -80dBm for 24Mbps @ 10% PER, Typical -76dBm for 36Mbps @ 10% PER, Typical -71dBm for 48Mbps @ 10% PER, Typical -66dBm for 54Mbps @ 10% PER

Wireless Transmit Power*

- 802.11b: 15dBm at 11, 5.5, 2, and 1Mbps, EIRP 20dBm (100mW) - ETSI (EIRP max.)
- 802.11g: Typical +15dBm at 54, 48, 36, 24, 18, 12, 9 and 6Mbps, EIRP 20dBm (100mW) - ETSI (EIRP max.)

* Maximum power setting will vary according to individual country regulations.

Antenna

High Gain 5dBi external detachable diversity antenna with reverse SMA connector

Device Management

D-Link Business Class Utility

Diagnostic LEDs

- Activity
- Power

Driver Support

Microsoft Windows 98SE, ME, 2000, XP

Physical & Environmental

Power Consumption

- 450mA at continuous transmit mode
- 260mA at continuous receive mode
- 15mA at sleep mode

Operating Voltage

5VDC +/- 10%

Dimensions

168 (L) x 107 (W) x 5 (H) mm
(6.6 x 4.2 x 0.16 inches)

Weight

77 grams (0.17 lb)

Operating Temperature

0° to 55° C

Storage Temperature

-20° to 75° C

Operating Humidity

10% to 90%, RH non-condensing

Storage Humidity

5% to 95%, RH non-condensing

Certifications

- FCC Class B
- CE
- C-Tick

MTBF

30,000 Hours

* Maximum wireless signal rate derived from IEEE standard

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