

## DWL-G550



# **Air Premier**<sup>®</sup> High-Powered Wireless 108G Desktop Adapter

## FEATURES

### High-Powered Wireless Connectivity

- Increased Power Output Improves Signal Wireless Reception
- Up to 108Mbps<sup>1</sup> Using 802.11g Powered by D-Link 108G Technology
- Backward Compatible to 802.11b

### Business-Class WLAN Utility

- Stores Multiple SSID Profiles
- Automatically Connects to Active Wireless Networks When Current Connection is Lost
- One-Click Driver Installation with Silent Installation Feature

### Industry Standard Wireless Network Encryption

- WPA-Personal
- WPA-Enterprise
- WPA2
- 64/128-bit WEP

### Business-class User Authentication

- 802.1x RADIUS
- EAP-TLS, EAP-TTLS, PEAP

### Robust Wireless Data Encryption

- TKIP (Temporal Key Integrity Protocol)
- AES (Advanced Encryption Standard)

### Certifications

- Wi-Fi 802.11b
- Wi-Fi 802.11g
- Microsoft WHQL (Windows Hardware Quality Labs)

D-Link's *AirPremier*<sup>®</sup> line of networking products combine powerful business class features with a high-performance hardware platform specifically designed for corporate environments. The *AirPremier* line of networking products now adds wireless client adapters to its lineup including the DWL-G550 High-Powered Wireless 108G Desktop Adapter.

Powered by D-Link 108G Technology, this High-Powered Desktop Adapter is capable of delivering a maximum wireless signal rate of up to 108Mbps<sup>1</sup> when used with other D-Link Wireless 108G devices. The DWL-G550 is also backward compatible with virtually all 802.11b/g networks and devices.

The high-powered output featured on the DWL-G550 offers extended wireless signal reception while adhering to industry standards. Higher output power allows this client device to receive and maintain strong signals from wireless routers and access points at further distances.

The new business-class wireless LAN utility included with this device displays a management tool consistent with the Windows<sup>®</sup> User Interface guidelines. Key wireless information is displayed in an efficient manner while navigation through the utility is a straightforward and intuitive process. 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.

For accessing secure networks, this Wireless Desktop 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.

The DWL-G550 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 11g, the DWL-G550 is also certified by Microsoft's WHQL, to ensure compatibility with Microsoft Windows<sup>®</sup> XP and 2000. These certifications ensure both wireless compatibility, robust data encryption, and reliable performance.

A perfect complement for your *AirPremier* wireless network, this High-Powered Wireless 108G Desktop Adapter is a convenient solution for providing superior wireless connectivity for your desktop PC.

## Product Data Sheet

## High-Powered Wireless 108G Desktop Adapter

### Specifications

#### Standards

- 802.11b
- 802.11g
- 802.1x

#### Device Management

- D-Link Business Class Utility

#### Wireless Signal Rate<sup>1</sup>

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

#### Security

- WEP 64/128bit
- WPA-Personal
- WPA-Enterprise
- WPA2-Personal
- WPA2-Enterprise

#### Wireless Frequency Range

- 2.4 – 2.5GHz

#### Wireless Signal Range<sup>1</sup>

- 802.11b
- 2400 – 2497MHz ISM Band
- 802.11g
- 2400 – 2483.5MHz ISM Band

#### 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
- Typical 21dBm at 11, 5.5, 2 and 1Mbps
- 802.11g
- Typical +15 - 18dBm for 54Mbps
- Typical +16 - 19dBm for 48Mbps
- Typical +17 - 20dBm for 36Mbps
- Typical +18 - 21dBm for 24, 18, 12, 9, 6Mbps

#### External Antenna Type

- Omni-directional dipole antenna with 5dBi

#### LEDs

- Link
- Activity

#### Power Consumption

- 500mA at continuous transmit mode
- 300mA at continuous receive mode
- 30mA at sleep mode

#### Operating Voltage

- 3.3VDC +/- 10%

#### Operating Temperature

- 0° to +55°C

#### Non Operating Temperature

- -20° to +75°C

#### Operating Humidity

- 10% - 90%, RH, non-condensing

#### Non-Operating Humidity

- 5% - 95%, RH, non-condensing

#### Certifications (US Only)

- FCC part 15.247, 15.205, 15.209
- UL1950-3 for CSA Mark

#### Dimensions

- L – 6.6in (168mm)
- W – 4.2in (107mm)
- H – 0.16in (4mm)

#### Weight

- 0.17 lb (77g)

#### Mean Time Before Failure

- 30,000 Hours

#### Warranty

- 1-Year

<sup>1</sup> 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. Environmental factors will adversely affect wireless signal range.

All references to speed are for comparison purposes only. Product specifications, size and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.

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