

DWL-G650



- Now Up to 108Mbps and Backwards Compatible to 11g & 11b
- Works with 802.11b Devices
- Great for Video Streaming
- Increased Wireless Security with 802.1X and WPA



AirPlus Xtreme G[™] 802.11g/2.4GHz Wireless **108Mbps Cardbus Adapter**

D-Link, the industry pioneer in wireless networking, introduces another performance breakthrough in wireless connectivity—the *D-Link AirPlus Xtreme G*[™] series of high-speed devices.

The D-Link *AirPlus Xtreme G* DWL-G650 Cardbus Adapter is a wireless cardbus featuring the very latest in advanced wireless silicon chip technology, including enhanced security to shield and protect your wireless communication from intruders. The DWL-G650 also works with 802.11b standard wireless devices and when used with other D-Link *AirPlus Xtreme G* products delivers throughput speeds capable of handling heavy data payloads.

With the enhancement of D-Link 108G, the DWL-G650 can achieve wireless speeds up to 15x faster than standard 802.11b in a pure D-Link 108G environment through the use of new wireless techniques such as Packet Bursting, FastFrame, Compression & Encryption, and Turbo mode. This provides a bandwidth large enough to handle video/audio streaming and Video on Demand (VoD) applications.

The DWL-G650 features WPA and 802.1X for wireless user authentication, providing you a much higher level of security for your data and communications than has previously been available in a wireless networking solution.

The D-Link *AirPlus Xtreme G* DWL-G650 also includes a configuration utility to discover available wireless networks and create and save detailed connectivity profiles for those networks most often accessed.

The DWL-G650 is a powerful 32-bit cardbus adapter that installs quickly and easily into laptop PCs, and when used with other D-Link *AirPlus Xtreme G* products, automatically connects to the network. Like all D-Link wireless adapters, the DWL-G650 can be used in ad-hoc mode to connect directly with other cards for peer-to-peer file sharing or in infrastructure mode to connect with a wireless access point or router for access to the Internet in your office or home network.

AirPlus Xtreme G™

802.11g/2.4GHz Wireless

108Mbps Cardbus Adapter

DWL-G650



SPECIFICATIONS

Standards

- IEEE 802.11
- IEEE 802.11b
- IEEE 802.11g

Bus Type

32-bit Cardbus

Data Rates

With Automatic Fallback

- **D-Link 108G: 108Mbps¹**
- 54Mbps
- 36Mbps
- 18Mbps
- 11Mbps
- 6Mbps
- 2Mbps
- 48Mbps
- 24Mbps
- 12Mbps
- 9Mbps
- 5.5Mbps
- 1Mbps

Security

- 64-, 128-WEP
- 802.1X
- WPA¹—Wi-Fi Protected Access
- WPA—PSK (Pre-Shared Key)

Media Access Control

CSMA/CA with ACK

Frequency Range

2.4GHz to 2.462GHz

Signal Range²

Indoors: Up to 328 feet
(100 meters)
Outdoors: Up to 1,312 feet
(400 meters)

Power Consumption

- PowerSave mode = 28mA
- Standby mode = 4.66mA
- Transmit mode = 248mA

Modulation Technology

- Orthogonal Frequency Division Multiplexing (OFDM)
- Complementary Code Keying (CCK)

Receiver Sensitivity

- 54Mbps OFDM, 10% PER, -68dBm)
- 48Mbps OFDM, 10% PER, -68dBm)
- 36Mbps OFDM, 10% PER, -75dBm)
- 24Mbps OFDM, 10% PER, -79dBm)
- 18Mbps OFDM, 10% PER, -82dBm)
- 12Mbps OFDM, 10% PER, -84dBm)
- 11Mbps CCK, 8% PER, -82dBm)
- 9Mbps OFDM, 10% PER, -87dBm)
- 6Mbps OFDM, 10% PER, -88dBm)
- 5.5Mbps CCK, 8% PER, -85dBm)
- 2Mbps QPSK, 8% PER, -86dBm)
- 1Mbps BPSK, 8% PER, -89dBm)

Wireless Transmitter Power

15dBm ± 2dB

Internal Antenna Type

Dual Antenna Diversity Switching

Operating Temperature

32°F to 131°F (0°C to 55°C)

Humidity

95% maximum (non-condensing)

Dimensions

- L = 4.64 (114.3mm)
- W = 2.13 (54mm)
- H = 0.34 inches (8.7mm)

Weight

0.12 lb (55g)

Certifications

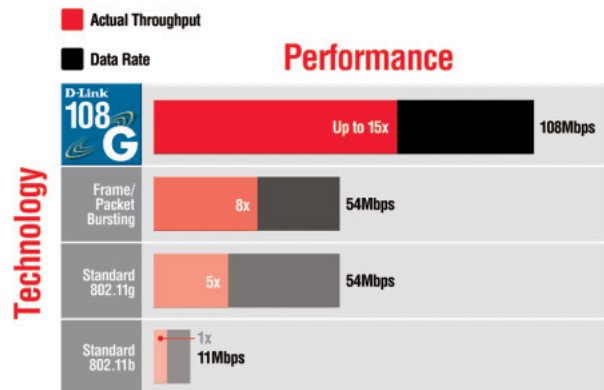
- FCC part 15b

Warranty

3 Year

¹ Driver or firmware upgrade download available.

² Environmental factors may adversely affect wireless signal range.



D-Link 108G performance results are based on testing with other D-Link 108G enabled devices utilizing Packet Bursting, FastFrames, Turbo Mode and Compression techniques. Data already compressed may not benefit from the D-Link 108G compression technique.



*Faster Wireless Networking
from Your Notebook PC*

