D-Link®
Building Networks for People

Even Faster Wireless Networking from your Notebook PC

DWL-G650

- **Now Up to 108Mbps[1] and Backwards Compatible to 11g & 11b**
- **Works with 802.11b devices**
- **Great for Video Streaming**
- **Increased Wireless Security with 802.1X and WPA**

G
802.11g
108Mbps

FOR LAPTOPS

Total 802.11 Super G ATHEROS™

FREE 24/7 TECH SUPPORT (USA ONLY)*

AirPlus XTREME G™

802.11g/2.4GHz Wireless

108Mbps[1] Cardbus Adapter

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

The D-Link *Air*Plus *XtremeG* 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 *Air*Plus *XtremeG* 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 *Air*Plus *XtremeG* 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 *Air*Plus *XtremeG* 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.

[1] 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.

AirPlus XTREME G™

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108Mbps[1] Cardbus Adapter

DWL-G650

SPECIFICATIONS

Standards
- IEEE 802.11
- IEEE 802.11b
- IEEE 802.11g

Bus Type
32-bit Cardbus

Signal Rates[1]
With Automatic Fallback
- D-Link 108G: 108Mbps
- 54Mbps
- 48Mbps
- 36Mbps
- 24Mbps
- 18Mbps
- 12Mbps
- 11Mbps
- 9Mbps
- 6Mbps
- 5.5Mbps
- 2Mbps
- 1Mbps

Security
- 64-, 128-WEP
- 802.1x
- WPA[2]—Wi-Fi Protected Access (64-, 128-WEP with TKIP, MIC, IV Expansion, Shared Key Authentication)

Media Access Control
CSMA/CA with ACK

Frequency Range
2.4GHz to 2.462GHz

Range[3]
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

Transmitter Output Power
15dBm ± 2dB

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)

Internal Antenna Type
Dual Antenna Diversity Switching

Operating Temperature
32°F to 131°F (0°C to 55°C)

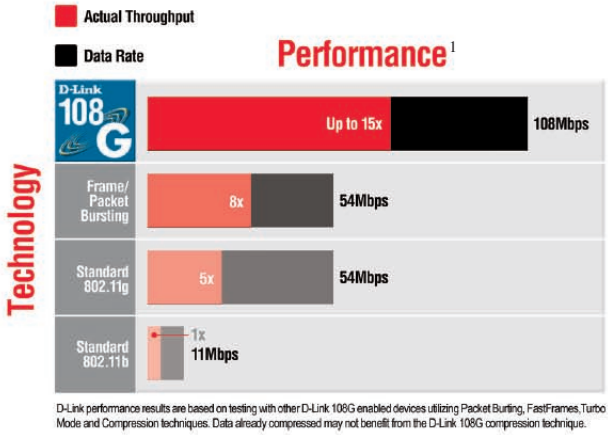
Humidity
95% maximum (non-condensing)

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

Weight
0.12 lb (55g)

Warranty
3 Year

[1] 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.
[3] Driver or firmware upgrade download available Q4 2003.
[4] Environmental conditions may adversely affect wireless signal range.



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

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