# D-Link

**Building Networks for People**

DWL-G650

**Up to 15x Faster**

- Wireless Signal Rate of up to 108Mbps[1]

- eXtended Range (XR) Technology for Better Wireless Signal Coverage[2]

- Supports WPA and 802.1x for Secure Connections

- Join and Rejoin Networks Quickly with the D-Link Utility

## G
**802.11g**
**108Mbps**

# AirPlusXtremeG®
## 802.11g/2.4GHz Wireless
# 108Mbps[1] Cardbus Adapter

**FOR LAPTOPS**

**Total 802.11 Super G ATHEROS™**

**FREE 24/7 TECH SUPPORT (USA ONLY)†**
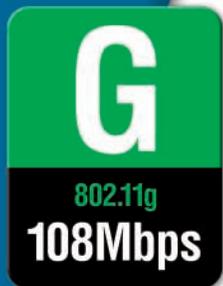
D-Link, an industry leader in networking, introduces another performance breakthrough in wireless connectivity – the AirPlus Xtreme G® series of wireless networking devices. Based on D-Link 108G Technology, these 802.11g compatible devices are capable of delivering maximum wireless signal rates of up to 108Mbps[1] when used together.

This Wi-Fi certified wireless notebook adapter features extremely high performance as well as industry-wide compatibility. Wi-Fi certification ensures that the DWL-G650 will be compatible with more of your existing network hardware.

Using the DWL-G650 to provide wireless connectivity for your notebook allows you to be more mobile. Access available 802.11b/g networks without the restrictions of phone lines or Ethernet cables. When traveling, feel confident that your notebook will be able to work with the ever increasing number of wireless hotspots.

The DWL-G650 also features D-Link's eXtended Range (XR) Technology, designed to provide increased wireless signal range as well as fewer dead spots[2]. When used with XR-enabled access point, experience wireless coverage in areas where you were previously unable to get reception.

With an included configuration utility, setup for your DWL-G650 is a straightforward process. The utility keeps track of your most frequently used networks, so you can rejoin them without hassle. The DWL-G650 also supports the latest security features such as WPA and 802.1x, making your wireless connection secure.

With its speed, security, and range, the DWL-G650 is the ideal wireless client adapter for your most demanding notebook computer users. Experience the freedom of wireless to the Xtreme with the DWL-G650.

# AirPlusXtremeG®
## 802.11g/2.4GHz Wireless
# 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—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, including volume of network traffic, building materials and construction, and network overhead lower actual data throughput rate.
[2] All devices in the wirelss network must be enabled with D-Link Extended Range Technology
[2] Environmental conditions may adversely affect wireless signal range.



**Performance**[1]

- Actual Throughput
- Data Rate

D-Link 108G : Up to 15x — 108Mbps
Frame/Packet Bursting : 8x — 54Mbps
Standard 802.11g : 5x — 54Mbps
Standard 802.11b : 1x — 11Mbps
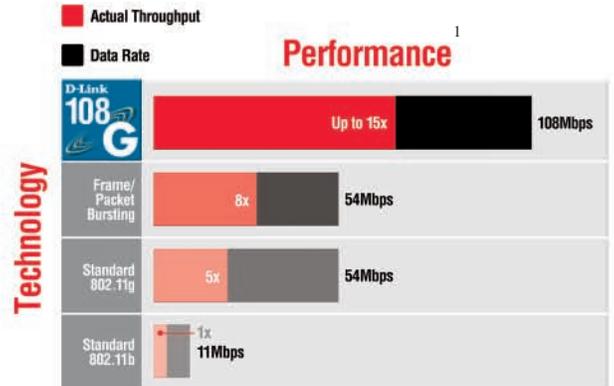
D-Link performance results are based on testing with other D-Link 108G enabled devices utilizing Packet Bursting, FastFrames, Turbo Mode and Compression techniques. Data already compressed may not benefit from the D-Link 108G compression technique.



**DWL-G650** with Laptop Computer

## Faster Wireless Networking from Your Notebook PC

# D-Link®
## Building Networks for People