



— DWL-G630

802.11g Wireless LAN CardBus Adapter

The D-Link AirPlusG DWL-G630 CardBus Adapter is a wireless network adapter for laptop/notebook computers featuring the latest advanced wireless silicon chip technology with enhanced security to shield and protect your wireless communication from intruders. This 802.11g wireless network adapter provides high network speeds of up to 54Mbps when used with other 802.11g standard wireless products, delivering throughput speeds capable of handling heavy data payloads.

Up to 54Mbps Wireless Speed

The DWL-G630 adapter provides speeds of up to 54Mbps when used with other 802.11g equipment. This enhanced speed and adoption of 2.4GHz frequency, now available for public use in most countries, plus the mobility and convenience inherent in a wireless LAN, make this adapter an ideal solution for bandwidth intensive wireless applications for your notebook/laptop computer.

Easy Migration to Higher Bandwidth

The DWL-G630 adapter is backward compatible with 802.11b standard wireless devices, providing seamless interoperability with the earlier standard equipment. By maintaining compatibility with your existing wireless network equipment, this adapter lets you upgrade to a higher speed while protecting your past investments in networking.

Powerful Performance

To take full advantage of the high 54Mbps network bandwidth, this adapter uses the 32-bit high-speed CardBus design to transfer network data with your computer host. This ensures that no bottlenecks take place between your computer's CPU and your network wireless frequency.

Network Security

The DWL-G630 adapter features WPA (Wi-Fi™ Protected Access) and 802.1x for wireless user authentication, providing you a much higher level of security for your data and communications. It also includes a configuration utility to let your computer discover available wireless networks and create and save detailed connectivity profiles for the networks most often accessed.

Easy Installation

With hot swap and plug-and-play capabilities, this adapter can be easily installed into your PC for direct connection to any wireless network computer in the ad-hoc mode or through an wireless access point or router in the infra-structure mode. When used with other D-Link AirPlusG products, the adapter automatically connects to the network.

Key Features

- 32-bit high-performance CardBus adapter for laptop/notebook computer wireless network connection
- 802.11g wireless LAN standard
- Uses popular 2.4GHz frequency band
- Up to 54Mbps network data transfer
- User-selectable 64/128/152-bit WEP data encryption security
- WPA network security
- Compatible with 802.11b wireless devices
- Dual diversity integrated antennas
- Easy configuration, plug-and-play installation
- Operates on Windows 98SE, 2000, ME, XP

DWL-G630

Technical Specifications

2.4GHz Wireless LAN

Wireless Standards

- 802.11g wireless LAN
- 802.11b wireless LAN

Adapter Type

PC Card Type II CardBus

Media Access Control Protocol

CSMA/CA with ACK

Network Architecture Types

- Ad-hoc mode
- Infrastructure mode

Operating Frequency

2.4 to 2.4835 GHz ISM band

Operating Channels

- FCC: 11
- ETSI: 13

Radio and Modulation Schemes

- 802.11b: DQPSK, DBPSK, DSSS, CCK
- 802.11g: BPSK, QPSK, 16QAM, 64QAM, OFDM

Receive Sensitivity (for 802.11b)

- -84dBm at 11Mbps (8% PER)
- -90dBm at 2Mbps (8% PER)

Receive Sensitivity (for 802.11g)

(1000-byte PDUs 10% PER)

- -87dBm at 6Mbps
- -86dBm at 9Mbps
- -85dBm at 12Mbps
- -83dBm at 18Mbps
- -80dBm at 24Mbps
- -76dBm at 36Mbps
- -71dBm at 48Mbps
- -66dBm at 54Mbps

Transmit Output Power (for 802.11b)

+18dBm at 11Mbps, 5.5Mbps, 2Mbps, and 1Mbps

Transmit Output Power (for 802.11g)

- +12dBm to 16dBm at 54Mbps
- +13dBm to 17dBm at 48Mbps
- +16dBm to 17dBm at 36Mbps
- +17dBm to 19dBm at 24, 18, 12, 9, and 6Mbps

Security

- 64/128/152-bit WEP data encryption
- WPAEAP, WPA PSK

Antennas

Integrated printed-PCB antennas with dual diversity

Operation Range

- Indoors: up to 100 meters (328 feet) *
- Outdoors: up to 400 meters (1,312 feet) *

* Environmental factors may adversely affect range

Physical & Environmental

Diagnostic LEDs

- Power
- Network

Operating Voltage

3.3VDC +/- 10%

Power Consumption

- Transmission: 500 mA (max.)
- Reception: 380 mA (max.)
- Sleep: 30mA (max.)

Dimensions

118 (L) x 53.5 (W) x 6.5 (H) mm

Weight

26 grams

Operating Temperature

0° to 55°C (32° to 131°F)

Storage Temperature

-20° to 75°C (-4° to 167°F)

Operating Humidity

10% to 90% non-condensing

Storage Humidity

5% to 95% non-condensing

Emission (EMI)

- FCC Class B
- CE

OS Support

Windows 98SE, ME, 2000, XP



Ordering Information

DWL-G630 802.11g Wireless LAN CardBus Adapter

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