D-Link®

2.4GHz Wireless LAN











802.11g Wireless LAN PCI Card

Real Throughput Up to 10X Faster

The D-Link AirPlusG+TM DWL-G520+ wireless PCI card is an enhanced 802.11g high-performance, wireless card for desktop computers. This card supports high-speed wireless networking of up to 54Mbps, while providing seamless interoperability with all existing 802.11b and 802.11b+ wireless equipment. Together with better security, this card is the ideal wireless solution that offers an upgrade to a fast, new technology while protecting your past investments through interoperability with your current network equipment.

Up to 54Mbps Transmission Speed

The DWL-G520+ provides speeds of up to 54Mbps when used with other D-Link AirPlusG+TM and other 802.11g products. This compares favorably with 802.11b adapters that offer 11Mbps speed, and with 802.11b+ adapters that give 22Mbps transmission.

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 card an ideal solution for bandwidth intensive WLAN applications.

Real Throughput 10 Times Faster Than 802.11b Wireless Adapters

Apart from the higher theoretical network data transfer speed of 54Mbps for 802.11g against the 11Mbps for 802.11b, the DWL-G520+ also delivers a much faster data transmission than other wireless LAN adapters. In a typical working environment with multiple users accessing the network at the same time, the DWL-G520+ operates at 10 times the speed of a normal 802.11b wireless LAN adapter, which is made possible by means of a turbo engine driver supplied with this

Compatible With 802.11b and 802.11b+

Like the 802.11b and 802.11b+ adapters, the DWL-G520+ uses a single 2.4GHz wireless frequency, eliminating the

complexity of dualband networking. 802.11g's compatibility with existing wireless LAN standards means that you do not need to change your entire network to maintain connectivity.

Easy Migration to Higher Bandwidth

By maintaining compatibility with your existing wireless network equipment, this adapter lets you upgrade to a higher speed at the pace you want. The DWL-G520+ and other 802.11g standard devices can be gradually added to your network, while the rest of your older network remains perfectly connected.

Advanced Security

In addition to offering faster data transfer speeds, this card also provides the newest, strongest, most advanced security features available today. For home users that do not incorporate a radius server in their networks, security is provided in a convenient, automatic way (when used in conjunction with other 802.11g products). No longer will you have to frequently input a new WEP key to execute security operations. With the DWL-G520+, you will automatically receive a new key every time you connect, doing away with the inconvenience of manual WEP key input. The DWL-G520+ provides a stronger network security with 64, 128 and 256-bit WEP data encryption.

Key Features

- 802.11g wireless LAN standard
- *Up to 54Mbps data transfer rate* *
- Real throughput 10x faster than 802.11b **
- Backward compatible with 802.11b/11b+ standard
- Dynamic data rate scaling at 1, 2, 5.5, 6, 9, 11, 12, 18, 22, 24, 36, 48 and 54Mbps
- Maximum reliability, throughput and connectivity with automatic data rate switching
- Utilizes OFDM (Orthogonal Frequency Division Multiplexing) technology
- Strong network security with 64/128/256-bit WEP data encryption
- 32-bit PCI bus high performance
- User-friendly configuration and diagnostic utility.
- Connects up to 100 meters indoors, 400 meters outdoors ***
 - When used with other 802.11g devices When used with AirPlus $G^{+^{TM}}$ products

 - *** Environmental factors may adversely affect range

DWL-G520+

Technical Specifications

System Requirements

- Computer with available PCI extension bus slot
- Windows XP, 2000, ME or 98 SE
- 300MHz CPU or above
- 32MB memory or more

Wireless LAN Standards

- -802.11b
- 802.11b+
- 802.11g

PCI Bus Standard

PCI 2.2

Data Rates

- 802.11g: up to 54Mbps (6/9/12/18/24/36/48/54Mbps)
- 802.11b+: up to 22Mbps
- 802.11b: up to 11Mbps (1/2/5.5/11Mbps)

Transmission Technology

RF Frequency Range

2.4 to 2.4835GHz

Frequency Stability

Operating Channels

- 1 to 11 channels (North America)
- 1 to 13 channels (Europe)

Data Modulation Type

DBPSK, DQPSK, CCK, PBCC and OFDM (BPSK/QPSK/16-QAM/ 64-QAM)

Antenna

2dBi Gain detachable external antenna (reverse SMA connector)

Transmit Output Power

- 802.11b: 16dBm (typical)
- 802.11g: 14dBm (typical)

Receive Sensitivity (for 802.11b)

(typically @PER < 8% packet size 1024 @ 25 °C +/- 5 °C)

- 22Mbps (PBCC): -80dBm
- 11Mbps (PBCC): -85dBm
- 11Mbps (CCK): -84 dBm
- 5.5Mbps (CCK): -87 dBm
- 2Mbps (QPSK): -90 dBm
- 1Mbps (BPSK): -92 dBm

Receive Sensitivity (for 802.11g)

(typically @PER < 8% packet size 1024 @ 25 °C +/- 5 °C) - 54Mbps (OFDM): -71 dBm

- 48Mbps (OFDM): -72 dBm
- 36Mbps (OFDM): -77 dBm
- 24Mbps (OFDM): -80 dBm
- 12Mbps (OFDM): -86 dBm - 9Mbps (OFDM): -87 dBm
- 6Mbps (OFDM): -89 dBm

Operating Range *

- Indoors: 100 meters (328 feet)
- Outdoors: 400 meters (1,312 feet)
- * Environmental factors may adversely affect range

Diagnostic LED

Wireless Link/Act

Software Features

Network

- Auto-switch to select 802.11g or 802.11b mode
- Supports Ad-Hoc, Infrastructure WLAN network
- Wireless roaming
 Data rate auto fall-back under noisy environment or longer range distance
- Site Survey with Profile function

- WEP 64/128/256-bit data encryption (user-selectable)
- 802.1x security (MD5 and TLS) (in Windows XP only)
- Wi-Fi ™ Protected Access

2.4GHz Wireless LAN

Configuration & Management

- Plug-and-Play setup and installation
- Management Utility supports Windows 98SE, ME, 2000, XP

Physical & Environmental

Power Supply

3.3 VDC +/- 3

Power Consumption (802.11g)

- Transmit: 650mA
- Receive: 450mA
- Stand-by 20mA

Power Consumption (802.11b)

- Transmit: 500mA
- Receive: 450mA
- Stand-by: 20mA

Dimensions

134 x 121 x 22 mm

Weight

92 grams

Operating Temperature

0° to 55 °C

Storage Temperature

-20° to 65 °C

Humidity

5% to 95% non-condensing

Regulation Compliance

- US: FCC Part 15 Class B
- Europe: CE/R&TTE

Box Includes

- DWL-G520+ wireless PCI card
- CD (includes drivers, user's manual, Quick Installation Guide,
- Acrobat Reader 5.0)
- Quick Installation Guide (printed)





Ordering Information

DWL-G520+

802.11g wireless LAN PCI card

North America frequency

Please specify your model number as follows:

DWL-G520+/NA DWL-G520+/EU

EU frequency DWL-G520+/CN For use in China (China packaging) TDWL-G520+ For use in Taiwan (Taiwan packaging)

Russia

D-Link Corp.



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