D-Link®

AirPlus G+™

DWL-G122

802.11g Wireless LAN USB Adapter

The DWL-G122 is a high-performance 802.11g wireless LAN USB adapter that connects your computer to a high-speed wireless LAN. This adapter simply plugs to your computer through a fast USB 2.0 interface to provide up to 54Mbps wireless speed. With industry standard interoperability, backward compatibility with 802.11b devices and plug-and-play installation, this adapter is an ideal solution for notebook and laptop PC users needing fast and standard mobile network connection.

Up to 54Mbps Transmission Speed
The DWL-G122 provides speeds of up to 54Mbps when used with other 802.11g wireless devices. This compares favorably with 802.11b adapters that offer only 11Mbps transmission.

Compatible With 802.11b
Like the 802.11b devices, the DWL-G122 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-G122 and other 802.11g standard devices can be gradually added to your network, while the rest of your older network remains perfectly connected.

Network Security
The DWL-G122 supports Wi-Fi™ Protected Access (WPA) to provide the necessary security protocols and tools, so you can communicate with other wireless users confidentially, access sensitive information or send data

that is dynamically encrypted as it's sent. WPA allows authorization and identification of users based on a secret key that changes automatically at a regular interval. Used in conjunction with a RADIUS server, WPA uses TKIP (Temporal Key Integrity Protocol) to change the temporal key every 10,000 packets. This insures much greater security than the standard WEP security, which requires the keys to be changed manually.

Fast USB 2.0 Interface
The DWL-G122 is equipped with a fast USB 2.0 port and a USB cable that connects to your computer, providing data throughput at up to 480Mbps between the network adapter and the host computer. That is about 40 times faster than the earlier USB 1.1 specification, allowing you to take advantage of the high 54Mbps wireless speed that this adapter provides.

With USB hot swap and plug-and-play capabilities, the DWL-G122 provides you with fast and easy connectivity to wireless devices and users, no matter if they use the 802.11b or the fast 802.11g standard.

Key Features

- 802.11bg wireless LAN standard, backward compatible with 802.11b devices
- 2.4GHz frequency band
- Fast USB 2.0 connection to notebook/desktop computer
- Up to 54Mbps wireless data transfer rate

- User-selectable WEP 64/128-bit data encryption and WPA security
- Supports Windows 98 SE, 2000, ME, XP
- Integrated internal antenna
- Compact pocket-sized design, lightweight

DWL-G122
Technical Specifications

Hardware

System Requirements
- Computer with available USB 2.0 interface
- Windows XP, 2000, ME or 98 SE
- 300MHz CPU or above
- 32MB memory or more

USB Interface
USB 2.0 (1.5 m USB cable with Type A plugs provided)

Wireless LAN Standard
802.11g

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

Transmission Technology
DSSS

RF Frequency Range
2400 to 2497MHz ISM band

Operating Channels
- 1 to 11 channels (FCC)
- 1 to 13 channels (ETSI)

Data Modulation Type
DBPSK, DQPSK, CCK, OFDM

Antenna
Integrated internal antenna

Transmit Output Power
- 802.11b:
  +16dBm at 11, 5.5, 2, and 1Mbps
- 802.11g:
  +10dBm at 54 and 48Mbps
  +12dBm at 36 and 24Mbps
  +14dBm at 18, 12, 9 and 6Mbps

Receive Sensitivity
- 802.11b (@ 8% PER):
  -82dBm at 11Mbps
  -87dBm at 2Mbps
- 802.11g (@ 10% PER):
  -88dBm at 6Mbps
  -86dBm at 9Mbps
  -84dBm at 12Mbps
  -82dBm at 18Mbps
  -78dBm at 24Mbps
  -74dBm at 36Mbps
  -69dBm at 48Mbps
  -66dBm at 54Mbps

Operating Range *
- Indoors: 100 meters
- Outdoors: 400 meters

* Environmental factors may adversely affect range

Diagnostic LEDs
- Act
- Link

Security
- WEP 64/128-bit data encryption (user-selectable)
- Wi-Fi™ Protected Access

Physical & Environmental

Operating Voltage
5VDC +/- 5%

Power Consumption
- Transmission: 2350mW max.
- Reception: 1800mW max.

Power Input
USB bus power, no external AC power adapter required

Dimensions
75 x 23 x 6.3 mm

Operating Temperature
0° to $55\,^\circ$C

Storage Temperature
-20° to $75\,^\circ$C

Humidity
5% to 95% non-condensing

Emission Certification
- FCC Part 15b (Class B)
- CE Class B

Package Includes
- DWL-G122 USB adapter
- USB 2.0 cable (1.5 meters)
- Software driver & User's Manual on CD
- Quick Installation Guide

Ordering Information

DWL-G122	802.11g Wireless LAN USB 2.0 Adapter

Please specify your order as follows:

DWL-G122/NA	North America frequency
DWL-G122/EU	EU frequency
DWL-G122/CN	For use in China (China packaging)
TDWL-G122	For use in Taiwan (Taiwan packaging)

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U.S.A	TEL: 1-714-885-6000	FAX: 1-866-743-4905
Canada	TEL: 1-905-8295033	FAX: 1-905-8295223
Europe	TEL: 44-20-8731-5555	FAX: 44-20-8731-5511
Germany	TEL: 49-6196-77990	FAX: 49-6196-7799300
France	TEL: 33-1-30238688	FAX: 33-1-30238689
Benelux	TEL: 31-10-282-1445	FAX: 31-10-282-1331
Italy	TEL: 39-2-2900-0676	FAX: 39-2-2900-1723
Iberia	TEL: 34-93-4090770	FAX: 34-93-4910795
Sweden	TEL: 46-(0)8564-61900	FAX: 46-(0)8564-61901
Norway	TEL: 47-22-309075	FAX: 47-22-309085
Denmark	TEL: 45-43-969040	FAX: 45-43-424347
Finland	TEL: 358-9-2707-5080	FAX: 358-9-2707-5081
Singapore	TEL: 65-6774-6233	FAX: 65-6774-6322
Australia	TEL: 61-2-8899-1800	FAX: 61-2-8899-1868
Japan	TEL: 81-3-5434-9678	FAX: 81-3-5434-9868
China	TEL: 86-10-8518-2533	FAX: 86-10-8518-2250
India	TEL: 91-022-652-6696	FAX: 91-022-652-8914
Middle East (Dubai)	TEL: 9714-8834234	FAX: 9714-8834394
Turkey	TEL: 90-212-335-2553	FAX: 90-212-335-2500
Egypt	TEL: 202-414-4295	FAX: 202-415-6704
Israel	TEL: 972-9-9715700	FAX: 972-9-9715601
Latinamerica	TEL: 56-2-232-3185	FAX: 56-2-232-0923
Brasil	TEL: 55-11-55039320	FAX: 55-11-55039321
South Africa	TEL: 27(0)1266-52165	FAX: 27(0)1266-52186
Russia	TEL: 7-095-744-0099	FAX: 7-095-744-0099#350
Taiwan	TEL: 886-2-2910-2626	FAX: 886-2-2910-1515
D-Link Corp.	TEL: 886-2-2916-1600	FAX: 886-2-2914-6299

RECYCLABLE
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