

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
- Includes a configuration utility to discover available wireless networks and show Link/Quality/Signal strength

DWL-G122

Technical Specifications

2.4GHz Wireless LAN

Hardware

System Requirements

- Computer with available USB 2.0 interface
- Windows XP, 2000, ME or 98 SE
- 300MHz CPU or above

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

2.4GHz to 2.4835GHz 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: 310mA max.
- Reception: 290mA max.

Power Input

USB bus power, no external AC power adapter required

Dimensions

75 x 23 x 6.3 mm

Operating Temperature

0° to 40°C

Storage Temperature

-20° to 75°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
- USB Rubber Cradle



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
NDWL-G122	For use in China (China packaging)
TDWL-G122	For use in Taiwan (Taiwan packaging)
CDWL-G122	For use in Canada

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