

5GHz & 2.4GHz Wireless LAN













802.11a/g Tri-Mode Dualband Wireless CardBus Adapter

The D-Link AirPremierA G^{IM} DWL-AG660 wireless CardBus adapter is a high-performance, versatile and necessary PC networking solution for companies that need to quickly expand or reconfigure their wireless networks as their organization grows. This tri-mode, dualband network card inserts into your notebook/laptop PC to provide you a versatile way to wirelessly connect to any one of three available wireless networks -- 802.11b and the newer, faster 802.11g and 802.11a that operate in two discrete, non-interfering frequency bands, 2.4GHz and 5GHz.

Easiest Way to Expand

If you're a network administrator, the versatile 802.11a/b/g-compatible DWL-AG660 adapter gives you an immediate way to expand your existing 802.11b network and protect your overall wireless network investment. By installing DWL-AG660 network adapters in computers throughout your organization, your employees can access wireless Access Points and routers from their PCs. And as your company expands or reorganizes, you won't have to keep pulling and plugging Ethernet cables because no matter where the workstation is relocated, it's still connected to the network.

End-to-End Wireless Solution

When you add an 802.11a/b/g access point (D-Link AirPremierAG $^{\text{TM}}$ DWL-7100AP) or router (D-Link AirPremierAG $^{\text{TM}}$ DI-784) to your wireless network, you will have an end-to-end wireless solution capable of handling up to 15 times the user load of your current 802.11b network.

108Mbps SuperG High Speed

In addition to its compatibility with earlier 802.11b networks, the DWL-AG660 offers the robust speed, up to 108Mbps (Turbo mode), of the newer 802.11g standard, so everyone can work faster and more efficiently. In addition to the 2.4GHz frequency band operated by 802.11b and g, the 54Mbps 5GHz band used by 802.11a also offers a way to quickly transfer data in a frequency range that does not experience interference or interruptions from cordless phones, microwave ovens and other devices utilizing the 2.4GHz frequency.

WPA Enhanced Security

Wi-Fi[™] Protected Access in the DWL-AG660 provides the necessary security protocols and tools, so employees can communicate with colleagues confidentially, access sensitive company information or send data that is dynamically encrypted as it's sent. Wi-Fi[™] Protected Access lets you authorize and identify 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.

802.1x Authentication

The DWL-AG660 supports 802.1x authentication for protection against network intrusion. Used in conjunction with a RADIUS server, this function provides a means to verify the identity of the client before an access to the network is granted.

Pre-Shared Key

This function brings a lot of convenience (when used in conjunction with other 802.11g products) for users that do not incorporate a RADIUS server in their networks. Utilizing the Pre Shared Key mode of WPA, the DWL-AG660 will obtain a new security key every time it connects to the 802.11g network. You only need to input your encryption information once in the configuration menu. With the DWL-AG660, you will automatically receive a new key every time you connect, doing away with the inconvenience of manual WEP key input.

Key Features

- 802.11a/g industry standard
- Dual 5GHz and 2.4GHz frequency bands
- Up to 108Mbps (Turbo mode) network data transfer rate on 11g frequency band, 15 times faster than 802.11b
- Strong 64/128/152-bit WEP data encryption security
- Compatible with existing 802.11b wireless devices
- Advanced security with WPA, 802.1x authentication, TKIP and Pre-Shared Key function support
- Powerful integrated antenna provides 100-meter indoor,
- 400-meter outdoor operation range *
- Runs Windows 98 SE, 2000, ME, XP
 - * Environmental factors may adversely affect range.

DWL-AG660

Technical Specifications

System Requirements

- Laptop with available CardBus Type II slot
- Windows XP, 2000, ME or 98 SE
- 300MHz CPU or above
- 32MB memory or more

Standards

- IEEE 802.11a
- IEEE 802.11b
- IEEE 802.11g

PC Card Standard & Interface

PC Card Type II CardBus 32-bit compliant

Media Access Control

CSMA/CA with ACK

Data Rates

(With automatic fallback)

54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 11Mbps, 9Mbps, 6Mbps, 5.5Mbps, 2Mbps, 1Mbps

Modulation Technology

- Orthogonal Frequency Division Multiplexing (OFDM)
- Complementary Code Keying (CCK)
- Direct Sequence Spread Spectrum (DSSS)

Frequency Range *

- 2.4GHz to 2.4835GHz
- 5.15GHz to 5.250GHz
- 5.725GHz to 5.850GHz
- * Software configurable as allowable frequency will vary from country to country in the

Transmit Output Power

- 802 11a
- +10 to 14dBm @ 54Mbps
- +11 to 15dBm @t 48Mbps
- +13 to 15dBm @t 36Mbps
- +17 to 18dBm @ 24, 18, 12, 9 and 6Mbps
- 802.11b:
- +18dBm @ 11, 5.5, 2, and 1Mbps
- 802.11g:
- +10 to 14dBm @ 54Mbps
- +11 to 15dBm @ 48Mbps
- +13 to 15dBm @ 36Mbps
- +17 to 18dBm @ 24, 18, 12, 9 and 6Mbps

Receive Sensitivity

- 802.11a (@ 10% PER):
- 87dBm for 6Mbps
- 86dBm for 9Mbps
- 85dBm for 12Mbps
- 83dBm for 18Mbps
- 80dBm for 24Mbps
- 76dBm for 36Mbps
- 71dBm for 48Mbps
- 66dBm for 54Mbps
- 802.11b (@ 8% PER): 84dBm for 11Mbps
- 90dBm for 2Mbps
- 802.11g (@ 10% PER): 87dBm for 6Mbps
- 86dBm for 9Mbps
- 85dBm for 12Mbps 83dBm for 18Mbps
- 80dBm for 24Mbps 76dBm for 36Mbps
- 71dBm for 48Mbps
- 66dBm for 54Mbps

Antenna

2dBi to 4dBi Gain integrated antenna

Operation Range

- Indoors: up to 100 meters *
- Outdoors: up to 400 meters *
- * Environmental factors may adversely affect range

Security

- 64/128/152-bit WEP data encryption
- 802.1x authentication
- WPA(Wi-Fi[™] Protected Access): 802.1x, Pre Share Key, WEP, TKIP,

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Physical & Environmental

LED Indicators

- Power
- Network

Operating Voltage

5 VDC +/- 10%

Power Consumption

- Transmit mode: 1947mW
- Receive mode: 1056mW - Sleep mode: 40mW

Dimensions

118 (L) x 53 (W) x 5 (H) mm (including antenna) 84 (L) x 53 (W) x 3 (H) mm (adapter only)

41 grams (adapter including antenna)

Operating Temperature

 0° to 45 $^{\circ}$ C

Storage Temperature

-10° to 60 °C

Humidity

95% maximum (non-condensing)

EMI Certification

- FCC Class B
- CE Class B

O.S. Support

Windows 98 SE, ME, 2000, XP









Ordering Information

DWL-AG660 802.11a/g Wireless LAN CardBus Adapter

Please specify your order as follows:

DWL-AG660/AU For Australia DWL-AG660/SG For Singapore DWL-AG660/LA For Latin America DWL-AG660/FR For France DWL-AG660/EU For Europe



Canada Europe Germany Benelux Italy Iberia Sweden Norway Denmark Finland Singapore Australia China India Middle East (Dubai) Turkey Egypt Israel LatinAmerica Brasil South Africa

Russia

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