



AirPremier AG™

Up to **15X** Faster
Dualband

WiFi™
The Standard for
Wireless Fidelity.

**Total 802.11
Super
AG™
ATHEROS**

**108
Mbps**

— DWL-AG530

802.11a/g Tri-Mode Dualband Wireless PCI Card

The D-Link AirPremierAG DWL-AG530 wireless PCI card is a high-performance, versatile and necessary desktop 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 desktop 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-AG530 card gives you an immediate way to expand your existing 802.11b network and protect your overall wireless network investment. By installing DWL-AG530 network cards in desktops throughout your organization, your employees can access wireless Access Points and routers from their desktop 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 DWL-7100AP) or router (D-Link AirPremierAG 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 Dualband High Speed

In addition to its compatibility with earlier 802.11b networks, the DWL-AG530 offers the robust speed, up to 108Mbps (Turbo mode), of the newer 802.11g and 802.11a standards, so everyone can work faster and more efficiently. In addition to the 2.4GHz frequency band operated by 802.11b and g, the 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-AG530 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-AG530 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-AG530 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-AG530, 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 both frequency bands, 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-AG530

Technical Specifications

5GHz & 2.4GHz Wireless LAN

Standards

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

Bus Type

- PCI 2.2
- PCI 32-bit interface

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 2.5GHz
- 5.15GHz to 5.875GHz

* Software configurable as allowable frequency will vary from country to country in the European region.

Transmit Output Power

- 802.11a:
 - +10 to 14dBm for 54Mbps
 - +11 to 15dBm for 48Mbps
 - +13 to 15dBm for 36Mbps
 - +17 to 18dBm for 24, 18, 12, 9 and 6Mbps
- 802.11b:
 - +18dBm for 11, 5.5, 2 and 1Mbps
- 802.11g:
 - +10 to 14dBm for 54Mbps
 - +11 to 15dBm for 48Mbps
 - +13 to 15dBm for 36Mbps
 - +17 to 18dBm for 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
 - 73dBm for 108Mbps (Turbo mode)
- 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 omni-directional dipole antenna

Operation Range

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

* 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, AES

Physical & Environmental

LED Indicators

- Power
- Network

Operating Voltage

5 VDC +/- 10%

Power Consumption

- Transmit mode: 1650mW
- Receive mode: 1250mW
- Sleep mode: 40mW

Dimensions

133 (L) x 120 (W) x 22 (H) mm

Weight

63grams

Operating Temperature

0° to 45°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-AG530 802.11a/g Wireless LAN PCI Card

Please specify your order as follows:

DWL-AG530/AU	For Australia
DWL-AG530/SG	For Singapore
DWL-AG530/LA	For Latin America
DWL-AG530/FR	For France
DWL-AG530/EU	For Europe
TDWL-AG530	For Taiwan

D-Link®

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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
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Taiwan	TEL: 886-2-2910-2626	FAX: 886-2-2910-1515
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RECYCLABLE
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