

# D-Link®

Building Networks for People

DWL-AG520



Up to  
**54**  
Mbps  
in A or G!

## Faster Wireless Networking from your Desktop PC

- Versatility to use 2.4GHz or 5GHz frequency when needed
- Connect to any 802.11a, 802.11b and 802.11g wireless network
- Enhanced Security Features

# Air Xpert™ 802.11 A/G

## Tri-Mode Dualband 2.4/5GHz Wireless PCI Adapter

D-Link, the industry pioneer in wireless networking, introduces another breakthrough in wireless connectivity — the *D-Link Air Xpert DWL-AG520* Wireless PCI Adapter. This tri-mode, dualband adapter inserted into your desktop PC provides 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.

If you're a network administrator, the versatile 802.11a/b/g-compatible DWL-AG520 gives you an immediate way to expand to your existing 802.11b network and protect your overall wireless network investment. By installing DWL-AG520s in desktops throughout your organization your employees can access wireless APs or routers from their desktop PCs. And as your company expands or reorganizes you won't have to keep pulling and plugging Ethernet cable because no matter where the workstation is relocated, it's still connected to the network. When you add an 802.11a/b/g access point (*D-Link Air Xpert DWL-7000AP*) or router (*D-Link Air Xpert DI-774*), to your wireless network, you will have an end-to-end wireless solution capable of handling up to four times the user load of your current 802.11b network.

In addition to its compatibility with earlier 802.11b networks, the DWL-AG520 now offers the robust speed, up to 54Mbps, of the newer 802.11g and 802.11a standards, so everyone can work faster and more efficiently. The additional (802.11a) 5GHz band 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.

The 802.11g, 802.11a, 802.1x standards and WPA\* (Wi-Fi Protected Access)— all engineered in the DWL-AG520 chipset provide 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.

The DWL-AG520 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.

\*WPA features available as a driver/firmware upgrade download in Q2/Q3 2003.



## Tri-Mode Dualband 2.4/5GHz Wireless PCI Adapter



### SPECIFICATIONS

#### Standards

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

#### Bus Type

- PCI 2.2
- PCI 32-bit Interface

#### Data Rates

##### With Automatic Fallback

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

#### Security

- 64-, 128-WEP
- 802.1x<sup>1</sup>
- WPA<sup>1</sup>—Wi-Fi Protected Access (64-, 128-WEP with TKIP, MIC, IV Expansion, Shared Key Authentication)
- Supports Advanced Encryption Standard (AES)

#### Media Access Control

CSMA/CA with ACK

#### Frequency Range

- 2.4GHz to 2.5GHz
- 5.150GHz to 5.850GHz

#### Range<sup>2</sup>

Indoors: Up to 328 feet (100 meters)

#### Modulation Technology

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

#### Transmitter Output Power

15dBm ± 2dB

#### Internal Antenna Type

Omni Directional Dipole Antenna with 2~4 dbi gain

#### Receiver Sensitivity

- 54Mbps OFDM, 10% PER, -73dBm)
- 48Mbps OFDM, 10% PER, -76dBm)
- 36Mbps OFDM, 10% PER, -82dBm)
- 24Mbps OFDM, 10% PER, -85dBm)
- 18Mbps OFDM, 10% PER, -88dBm)
- 12Mbps OFDM, 10% PER, -89dBm)
- 11Mbps CCK, 8% PER, -91dBm)
- 9Mbps OFDM, 10% PER, -90dBm)
- 6Mbps OFDM, 10% PER, -91dBm)
- 5.5Mbps CCK, 8% PER, -92dBm)
- 2Mbps QPSK, 8% PER, -93dBm)
- 1Mbps BPSK, 8% PER, -94dBm)

#### Operating Voltage

3.3 VDC ±10%

#### Operating Temperature

32°F to 149°F (0°C to 55°C)

#### Humidity

95% maximum (non-condensing)

#### Dimensions

- L = 6.6 (168mm)
- W = 4.2 (107mm)
- H = 0.16 inches (4mm)

#### Weight

0.17 lb (77g)

#### Certifications

- FCC part 15b

#### Warranty

3 Year

#### Supported Operating Systems

- Windows 98 SE
- Windows ME
- Windows 2000
- Windows XP

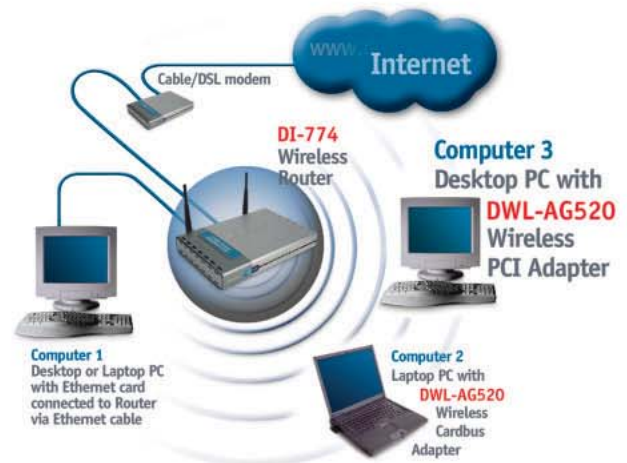
1—Driver or firmware upgrade download available Spring 2003

2—Environmental factors may adversely affect wireless signal range.

Technology



D-Link Air Xpert AGB™ products can transfer data up to 5 times faster than standard 802.11b networks. They are also interoperable with 802.11a, 802.11b and draft 802.11g compliant wireless devices.



### Faster Wireless Networking from Your Desktop PC

