

**D-Link**<sup>®</sup>  
Building Networks for People

5 GHz  
&  
2.4 GHz

5x  
FASTER

WEB  
BASED  
CONFIGURATION

FREE  
24/7  
TECH  
SUPPORT  
USA ONLY

## Wireless Networking Beyond Ethernet



- Better Wireless Security with 802.1x and WPA<sup>2</sup>
- Works with 802.11a, 802.11b and 802.11g compliant adapters
- Four different operational modes

**Air Xpert**<sup>™</sup> **AG**  
802.11

## Tri-Mode Dualband 2.4/5GHz Wireless Access Point

D-Link, the industry pioneer in wireless networking, introduces another breakthrough in wireless connectivity — the D-Link *Air Xpert* DWL-7000AP Wireless Access Point. This tri-mode, dualband Access Point provides the most expanded user bandwidth available in an AP. Hundreds of wireless clients can connect to this AP using any one of its 11 non-overlapping channels to transfer data at speeds never before achievable in a wireless device.

The DWL-7000AP operates seamlessly and simultaneously in both the 2.4GHz and 5GHz frequency spectrums supporting the 802.11b and the newer, faster 802.11a and 802.11g wireless standards. For offices, schools or public hotspots that already use 802.11b devices, the DWL-7000AP is a great way to expand an existing network and enable even more users to communicate with one another, access data and the Internet. Now, you can have an AP that will complement your existing network and protect the investment you made when you provided the convenience of wireless networking.

The DWL-7000AP can be configured to perform in any one of four different modes — as a wireless access point, as a point-to-point bridge with another access point, as a point-to-multi-point wireless bridge or as a wireless client. The DWL-7000AP also includes an embedded DHCP server that once enabled will automatically assign IP addresses to wireless clients. This unique feature makes the DWL-7000AP an ideal solution for quickly creating and extending a WLAN in offices or other workplaces, or at trade shows and other special events.

The DWL-7000AP offers maximum wireless signal rates of up to 54Mbps<sup>1</sup> in either the 2.4GHz or 5GHz bands, large data packets travel from the router to a remote desktop or roaming laptop PC at up to five times the speed of previous wireless devices. Everyone can work faster and more efficiently or watch a streaming video smoothly. The additional (802.11a) 5GHz band also offers a way to quickly transfer data without the interference produced by other devices operating in the 2.4GHz frequency.

Network administrators can partition the usage of the dualband DWL-7000AP by segmenting the users on the wireless network by frequency band. Users who require special networking privileges — access to sensitive information, specific departments or videoconferencing — may use just the 802.11a channels; while other employees may just use the 802.11b and 802.11g channels. This type of user segmentation optimizes the AP's performance and delivers the best network experience to each set of users.

The DWL-7000AP is ideal for network administrators who require additional management, firewall, and other network security features. All of the AP's settings are easily accessible in the operating system independent, Web-based software user interface that also features a step-by-step Setup Wizard to get your router up and running in just a matter of minutes. The DWL-7000AP incorporates the 802.1x standard for wireless user authentication and WPA<sup>2</sup> (Wi-Fi Protected Access) which dynamically encrypts data as it's being sent.

# AirXpert™ 802.11n AG

Tri-Mode Dualband 2.4/5GHz Wireless

# Access Point



DWL-7000AP

## SPECIFICATIONS

### Standards

- IEEE 802.11g
- IEEE 802.11b
- IEEE 802.11a
- IEEE 802.3
- IEEE 802.3u

### Device Management

- Web-Based – Internet Explorer v6 or later; Netscape Navigator v6 or later; or other Java-enabled browsers.
- DHCP Client

### Wireless Signal Rates<sup>1</sup>

#### With Automatic Fallback

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

### Security

- 64-, 128, 152-bit WEP
- 802.1x
- WPA<sup>2</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

### Wireless Frequency Range

- 2.4 to 2.4825GHz
- 5.150GHz to 5.850GHz

### Wireless Operating Range<sup>3</sup>

Indoors: Up to 328 ft (100 meters)  
Outdoors: Up to 1312 ft (400 meters)

### Modulation Technology

- Orthogonal Frequency Division Multiplexing (OFDM)
- PBCC
- Complementary Code Keying (CCK)

### Wireless Transmit Power

15dBm (32mW) ± 2dB

### 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

### External Antenna Type

- Dual Non-Detachable Dipole Antenna

### LEDs

- Power
- WAN
- LAN (10/100)
- WLAN (Wireless Connection) - 802.11a, 802.11g

### Temperature

- Operating: 32°F to 149°F (0°C to 55°C)
- Storing: 4°F to 167°F (-20°C to 75°C)

### Humidity

95% maximum (non-condensing)

### Power Adapter

- Ext. Power Supply DC 5V, 3.0A
- 100-240V ~ 50-60Hz

### Safety & Emissions

- FCC • UL

### Dimensions

- L = 5.6 inches (142mm)
- W = 4.3 inches (109mm)
- H = 1.2 inches (31mm)

### Weight

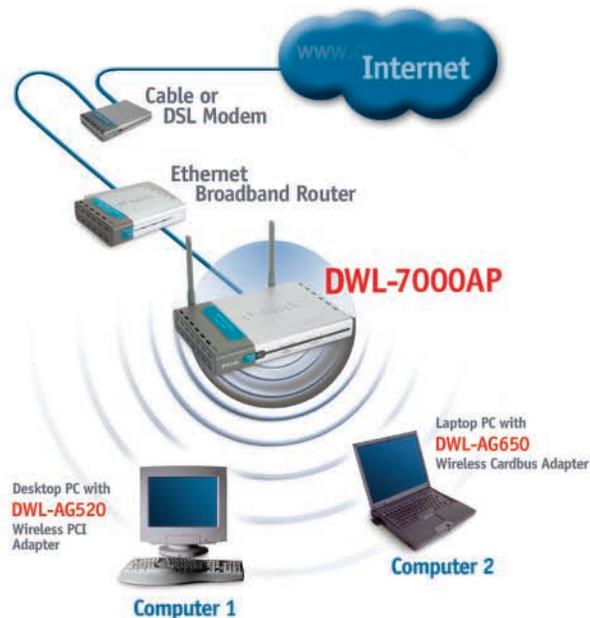
0.44 lbs (200g)

### Warranty

3 Year

## Four Operation Modes

Operation Mode (Only supports 1 mode at a time)	Function
Access Point (AP)	Create a Wireless LAN
AP - to - AP Bridging	Wirelessly Connect 2 Networks
Point - to - Multipoint Bridging	Wirelessly Connect Multi Networks
Wireless Client	Wirelessly Connect Ethernet Devices



<sup>1</sup> Maximum wireless signal rate based on IEEE Standard 802.11a 802.11b, and 802.11g specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead lower actual data throughput rate.

<sup>2</sup> WPA features available as a firmware upgrade download in Q2/Q3 2003.

<sup>3</sup> Environmental conditions may adversely affect wireless signal range.



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