

Air Xpert™ 802.11n AG



### Dualband



— DWL-7000AP

## 802.11a/g Tri-Mode Dualband Wireless Access Point

The D-Link Air Xpert DWL-7000AP is a tri-mode, dualband wireless Access Point that 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.

### Dualband Operation

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. It enables more users to communicate with one another, access data and the Internet. Now, you can have an AP that will compliment your existing network and protect the investment you made when you provided the convenience of wireless networking.

### Fast, Unobstructed Data Transfer

The DWL-7000AP offers transfer rates up to 54Mbps 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 Segmentation by Frequency Channels

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 video conferencing 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.

### Enhanced Network Security

The DWL-7000AP is ideal for network administrators who require additional network security features. All of the AP's settings are easily accessible in the web-based software user interface that 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\* (Wi-Fi™ Protected Access) which dynamically encrypts data as it's being sent.

\* WPA features available as a driver/firmware upgrade download in the near future

### Features

- 802.11a/g industry standard
- Dual 5GHz and 2.4GHz frequency bands
- Up to 54Mbps network data transfer rate on both frequency bands, 5 times faster than 802.11b
- Compatible with existing 802.11b wireless devices
- Dual diversity antennas for the multi-path environment, supporting 100-meter indoor, 400-meter outdoor operation range \*
- Strong 64/128-bit WEP data encryption security
- Enhanced security: AES (\*), 802.1x authentication, RADIUS client, and Cipher negotiation
- DFS/TPC support for European operation
- 10/100Mbps Fast Ethernet port to bridge wireless LAN with Ethernet-based network & servers
- Web-based configuration/management

\* Environmental factor may adversely affect operating range  
AES feature available as a driver/firmware upgrade in the near future

# DWL-7000AP

## Technical Specifications

## 5GHz & 2.4GHz Wireless LAN

### Standards

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

### Media Access Control

CSMA/CA with ACK

### Ethernet Port

10/100Mbps Fast Ethernet port

### Wireless Frequency Range

- 2.4 to 2.4825GHz
- 5.150GHz to 5.8750GHz

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

### Wireless 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)

### Security

- 64/128-WEP
- 802.1x
- WPA: Wi-Fi™ Protected Access (64/128-bit WEP with TKIP, MIC, IV Expansion, Shared Key Authentication)
- Advanced Encryption Standard (AES) support

\* WPA features available as a driver/firmware upgrade download in the near future

### Antennas

Dual non-detachable dipole external antennas:

- For 802.11a: 5.4dBi Gain antenna
- For 802.11g: 2dBi Gain antenna

### Wireless Operating Range \*\*

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

\*\* Environmental conditions may adversely affect wireless signal range

### Receiver Sensitivity

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

### Transmit Output Power

15dBm (32 mW) +/- 2dB

### Diagnostic LEDs

- Power
- 10Mbps
- 100Mbps
- 802.11b/g
- 802.11a

### Device Management

- Web-based: Internet Explorer v6 or later; Netscape Navigator v6 or later; or other Java-enabled browsers
- DHCP client

### Physical & Environmental

#### Power Input

DC 5V, 2.5A

Through 100 to 240VAC, 50/60Hz external power adapter

#### Dimensions

235 mm (L) x 162 mm (W) x 37.6 mm (H)

#### Weight

490 grams

#### Operating Temperature

0° to 55 °C (32° to 149 °F)

#### Storage Temperature

-20° to 75 °C (4° to 167 °F)

#### Humidity

95% maximum (non-condensing)

#### Emission (EMI)

- FCC Class B
- CE Class B

#### Safety

CSA International



ACN 052 202 838



CSA60950  
UL60950  
IEC60950  
EN 60950  
C US  
LR93673



### Ordering Information

#### DWL-7000AP

802.11a/g Wireless LAN Access Point

Please specify your model number as follows:

#### DWL-7000AP/ESG DWL-7000AP/BEU DWL-7000AP/EEU

for Singapore  
for UK, Ireland  
for Denmark, Germany, Iceland, Netherlands,  
Norway, Sweden, Poland, Slovenia, Luxembourg,  
South Africa

#### DWL-7000AP/EFR DWL-7000AP/ALA DWL-7000AP/ELA DWL-7000AP/NAU BDWL-7000AP TDWL-7000AP

for France  
for Latin America (with US standard power adapter)  
for Latin America (with EU standard power adapter)  
for Australia  
for USA (US packaging)  
for Taiwan



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#### Japan

#### China

#### India

#### Middle East (Dubai)

#### Turkey

#### Egypt

#### Israel

#### Latinamerica

#### Brasil

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