

AirPremier AG



Dualband



— DWL-7100AP

802.11a/g Tri-Mode Dualband Wireless Access Point

The D-Link AirPremier AG DWL-7100AP 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 19 non-overlapping channels to transfer data at speeds never before achievable in a wireless device.

Dualband Operation

The DWL-7100AP 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-7100AP 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-7100AP offers transfer rates up to 108Mbps Turbo mode in the 2.4GHz band, 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-7100AP 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-7100AP 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 AP up and running in just a matter of minutes. The DWL-7100AP incorporates the 802.1x standard for wireless user authentication and WPA (Wi-Fi™ Protected Access) which dynamically encrypts data as it's being sent.

Key Features

- 802.11a/g industry standard
- Dual 5GHz and 2.4GHz frequency bands
- Up to 108Mbps Turbo mode network data transfer rate on 2.4GHz band
- Compatible with existing 802.11b wireless devices
- Strong 64/128/152-bit WEP data encryption
- WPA 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

*AES feature available as a driver/firmware upgrade in the near future. Turbo mode operation on 5GHz is not allowed in the EC(European Community).

DWL-7100AP

Technical Specifications

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

10/100BASE-TX Ethernet port

Wireless Frequency Range *

- 802.11b/g: 2.4 to 2.4835GHz
- 802.11a: 5.150 to 5.8750GHz

* Software configurable as allowable frequency will vary among different countries 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

- 802.11a/g: BPSK, QPSK, 16QAM, 64QAM, OFDM
- 802.11b: DQPSK, DBPSK, DSSS, CCK

Security

- 64/128/152-bit WEP
- 802.1x
- WPA: Wi-Fi Protected Access (64/128/152-bit WEP with TKIP, MIC, IV Expansion, Shared Key Authentication)
- Advanced Encryption Standard (AES) support

Antennas

Dual non-detachable dipole external antennas:

- For 2.4GHz: 2dBi Gain antenna
- For 5GHz: 2dBi Gain antenna

Dual PIFA internal antennas:

- For 2.4GHz: 2dBi Gain antenna
- For 5GHz: 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

Receive Sensitivity

- 802.11a (1000-byte PDUs @ 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):
 - 83dBm for 11Mbps
 - 89dBm for 2Mbps
- 802.11g (1000-byte PDUs @ 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

Transmit Output Power

- 802.11a:
 - +14 to 15dBm @ 54Mbps
 - +14 to 16dBm @t 48Mbps
 - +16 to 18dBm @t 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps
- 802.11b:
 - +18dBm @ 11Mbps, 5.5Mbps, 2Mbps, 1Mbps
- 802.11g:
 - +14 to 15dBm @ 54Mbps, 108Mbps
 - +14 to 16dBm @ 48Mbps
 - +16 to 18dBm @ 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps

Diagnostic LEDs

- Power
- 10Mbps (Link/Act)
- 100Mbps (Link/Act)
- WLAN 802.11b/g
- WLAN 802.11a

Device Management

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

Physical & Environmental

Power Input

DC 5V, 2A

Through external power adapter

Dimensions

192 mm (W) x 118 mm (D) x 31 mm (H) (device only)

Weight

280 grams (device only)

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
- C-Tick

Safety

CSA International



Ordering Information

DWL-7100AP

802.11a/g Wireless LAN Access Point

Please specify your model number as follows:

DWL-7100AP/BEU
DWL-7100AP/EEU

For UK, Ireland
For Denmark, Germany, Iceland, Finland, Netherlands,
Norway, Sweden, Poland, Slovenia, Luxembourg,
South Africa

DWL-7100AP/EFR
DWL-7100AP/ALA
DWL-7100AP/ELA
DWL-7100AP/NAU
BDWL-7100AP
NDWL-7100AP
DWL-7100AP/ESG
TDWL-7100AP

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 China
For Singapore
For Taiwan

D-Link®

Specifications subject to change without prior notice.
D-Link is a registered trademark and AirPremierAG is a trademark of D-Link Corporation/D-Link System Inc. All other trademarks belong to their proprietors.

U.S.A

Canada

Europe

Germany

France

Benelux

Italy

Iberia

Sweden

Norway

Denmark

Finland

Singapore

Australia

China

India

Middle East (Dubai)

Turkey

Egypt

Israel

LatinAmerica

Brasil

South Africa

Russia

Taiwan

D-Link Corp.

TEL: 1-714-885-6000

TEL: 1-905-8295033

TEL: 44-20-8731-5555

TEL: 49-6196-77990

TEL: 33-1-30238688

TEL: 31-10-282-1445

TEL: 39-2-2900-0676

TEL: 34-93-4090770

TEL: 46-(0)8564-61900

TEL: 47-22-309075

TEL: 45-43-969040

TEL: 358-9-2707-5080

TEL: 65-6774-6233

TEL: 61-2-8899-1800

TEL: 86-10-8518-2533

TEL: 91-022-652-6696

TEL: 9714-8834234

TEL: 90-212-335-2553

TEL: 202-414-4295

TEL: 972-9-9715700

TEL: 56-2-232-3185

TEL: 55-11-55039320

TEL: 27(0)1266-52165

TEL: 7-095-744-0099

TEL: 886-2-2910-2626

TEL: 886-2-2916-1600

FAX: 1-866-743-4905

FAX: 1-905-8295223

FAX: 44-20-8731-5511

FAX: 49-6196-7799300

FAX: 33-1-30238689

FAX: 31-10-282-1331

FAX: 39-2-2900-1723

FAX: 34-93-4910795

FAX: 46-(0)8564-61901

FAX: 47-22-309085

FAX: 45-43-424347

FAX: 358-9-2707-5081

FAX: 65-6774-6322

FAX: 61-2-8899-1868

FAX: 86-10-8518-2250

FAX: 91-022-652-8914

FAX: 9714-8834394

FAX: 90-212-335-2500

FAX: 202-415-6704

FAX: 972-9-9715601

FAX: 56-2-232-0923

FAX: 55-11-55039321

FAX: 27(0)1266-52186

FAX: 7-095-744-0099#350

FAX: 886-2-2910-1515

FAX: 886-2-2914-6299



RECYCLABLE
Rev. 01 (Mar. 2004)