

Wireless AG Outdoor Access Point

For Outdoor Installation

- Concurrent Dualband Operation in 5GHz &2.4GHz Frequency Bands
- Dual 5dBi High-Gain Dualband Antennas
- 802.3af Power over Ethernet For Convenient Outdoor Installation
- Rugged All-Weather Housing & Built-in Heater
- Ideal for Building-to-Building Wireless Connection

FEATURES

For Business-Class Environments

- Concurrent Operation in Both 2.4GHz & 5GHz Frequency Bands
- Dual 5dBi High-Gain Dualband Antennas
- AP Grouping for Bandwidth Enhancement

Al diouping for bandwidth Ennancement

Multiple Operation Modes

- Access Point
- WDS With AP
- WDS

Advanced Security

- 64/128/152-Bit WEP Data Encryption
- WPA/WPA2 Personal/Enterprise
- MAC Address Filtering
- Multiple SSID Network Segmentation
- 802.1Q VLAN Tagging Support
- System Log

Outdoor Installation

- 802.3af Power over Ethernet Support¹
- Waterproof Rugged All-Weather Metal Housing
- Built-in Heater
- Power Surge Arrestor Included
- Mounting Kit for Wall and Wall Mounting

Versatile Management

- Windows-Based AP Manager Utility
- Web-Based Management
- Telnet
- MIB for SNMP Management

¹ Power consumption may exceed802.3af PoE standard whenheater is in operation

operation. ³ Maximum wireless signal ratesbased on IEEE Standard802.11a and 802.11g specifications. Actual data throughputwill vary. Network conditions and environmental factors, includingvolume of network traffic, building materials and construction, and network overhead may lower actual data throughputrale.





The DWL-7700AP wireless AG outdoor access point is a tri-mode dualband wireless device conforming to IEEE 802.11 a/b/g standards. This device provides dual high Gain antennas covering a large operating

distance and is ideal for Internet Service Provides to create hot spot networks to provide outdoor users with wireless Internet access. It can also be installed at manufacturing plants, industrial locations, convention halls, school campuses, airports, golf courses, marinas and other outdoor venues.

Powerful & Durable Outdoor Solution. The DWL-7700AP is designed to handle a wide variety of outdoor environments. It has a die-cast watertight housing, a built-in heater and a temperature sensor. Supporting 802.3af Power over Ethernet (PoE), it can be placed at outdoor locations where power outlets are not easily accessible. ¹ Besides functioning as an AP, this device can be can be configured to operate as a Wireless Distribution System (WDS) to act as a bridge linking together networks in different buildings.

Dualband Operation. The DWL-7700AP provides concurrent operation in 5GHz &2.4GHz frequency bands. When the network runs at full bandwidth speeds of 54Mbps in both frequency bands, this device offers a significant increase in total network capacity.²

Advanced Network Security. The DWL-7700AP supports 64/128-bit WEP data encryption and WPA/WPA2 security functions. In addition, it provides MAC Address Filtering to control user access, and the Disable SSID Broadcast function to limit outsiders' access to the internal network.

Network Flexibility and Efficiency. The DWL-7700AP supports up to 4 SSID, allowing the administrators to logically divide the access point into several virtual access points all within a single hardware platform. Rather than having two separate networks with two access points, administrators can deploy one single AP to support more than one application, such as public Internet access and internal network control to increase flexibility and keep costs down. The DWL-7700AP supports 802.1Q VLAN Tagging, operating with multiple SSID to segment traffic to enhance performance and security.

The DWL-7700AP provides WLAN STA partitioning, a function useful for deployments like at hot spots. With station-to-station partitioning enabled, security is enhanced, since wireless users cannot peek at each other, and the possibility for data thievery is reduced. Administrators can, however, disable this function, so wireless users at an office can share hard disks and information, and peripherals such as wireless printers. The DWL-7700AP also supports AP grouping, allowing several access points to balance wireless network traffic and wireless clients among the AP with the same SSID and different non-overlapping frequency channels.

Network Management. Network administrators can manage DWL-7700AP's settings via web-based configuration or Telnet. Administrators can use a Windows-based utility called AP Manager to automatically discover all wireless devices installed on the network and do bulk configuration of multiple AP to save time and effort.





Technical Specifications

Standards

- IEEE 802.11a/b/g WLAN
- IEEE 802.3/802.3u Ethernet
- IEEE 802.3af Power Over Ethernet

Wireless Frequency Range *

- 2.412 to 2.4835GHz
- 5.15 to 5.35GHz
- 5.47 to 5.725GHz
- * Wireless frequency range varies according to individual country regulations.

Ethernet Interface

10/100BASE-TX Ethernet port

Radio & Modulation Schemes

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

Data Rates

- 802.11a: 54, 48, 36, 24, 18, 12 and 9Mbps
- 802.11g: 54, 48, 36, 24, 18, 12, 9 and 6Mbps
- 802.11b: 11, 5.5, 2, and 1Mbps

Transmit Output Power

- (Typical RF output power at each data rate)
- 802.11a:
- +14 to 15dBm at 54, 48Mbps
- +14 to 17dBm at 36, 24, 18, 12, 9, and 6Mbps 802.11g:
- +18dBm at 54Mbps
- +20dBm at 48Mbps
- +23dBm at 38, 24, 18, 12, 9, and 6Mbps
- +23dBm at 11, 5.5, 2 and 1Mbps
- +23dBm (200mwatts) (FCC)
- +20dBm (100mwatts) (ETSI EIRP max.)
- 802.11b:
- +23dBm at 11, 5.5, 2 and 1Mbps
- +23dBm (200mwatts) (FCC)
- +20dBm (100mwatts) (ETSI EIRP max.)
- * Maximum power setting will vary according to individual country regulations

Physical & Environmental

Operating Voltage

48VDC +/- 10% for PoE

Power Supply

U.S.A.

Canada

Germany

France

Belgium

Sweden

Norway

Finland

Portugal

Greece

Czech Republic

Switzerland

Spain

Denmark

Italy

Europe (U. K.)

Netherlands

Through external power adapter

Power Consumption

 8.5 watts (max.) with PoE (heater OFF) 28.5 watts (max.) with PoE (heater ON) * * Power consumption may exceed 802.3af PoE standard when heater is in operation

D-Link Worldwide Offices

TEL: 1-800-326-1688

TEL: 1-905-8295033

TEL: 49-6196-77990

TEL: 33-1-30238688

TEL: 31-10-282-1445

TEL: 32(0)2-517-7111

TEL: 39-02-2900-0676

TEL: 46-(0)8564-61900

TEL: 45-43-969040

TEL: 47-99-300-100

TEL: 358-9-2707 5080

TEL: 34-93-4090770

TEL: 351-21-8688493

TEL: 420-(603)-276-589

TEL: 41-(0)-1-832-11-00

TEL: 30-210-9914 512

DWL-7700AP

TEL: 44-20-8731-5555

Receive Sensitivity 802.11a:

- (1000-byte PDU at 10% Packet Error Rate)
- -87dBm at 6Mbps
- -86dBm at 9Mbps
- -85dBm at 12Mbps -83dBm at 18Mbps
- -80dBm at 24Mbps
- -76dBm at 36Mbps
- -71dBm at 48Mbps
- -66dBm at 54Mbps
- 802.11g:
- (1000-byte PDU at 10% Packet Error Rate)
- -87dBm at 6Mbps
- -86dBm at 9Mbps
- -85dBm at 12Mbps
- -83dBm at 18Mbps -80dBm at 24Mbps
- -76dBm at 36Mbps
- -71dBm at 48Mbps
- -66dBm at 54Mbps
- 802.11b:
- (At 8% Packet Error Rate)
- -83dBm at 11Mbps
- -89dBm at 2Mbps

Antennas

Dual 5dBi Gain Reverse-N Type dipole dualband antennas

- Security 64/128/152-bit WEP data encryption
- WPA-PSK, WPA2-PSK
- WPA-EAP, WPA2-EAP
- TKIP, AES support

Dimensions

Weight

1.82 kg

-40° to 60°C

-40° to 65°C

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: 32(0)2-517-6500

FAX: 39-02-2900-1723

FAX: 46-(0)8564-61901

FAX: 45-43-424347

FAX: 47-22-309580

FAX: 358-9-2707-5081

FAX: 41(0)-1-832-11-01

FAX: 30-210-9916902

FAX: 34-93-4910795

- MAC address filtering user access
- WLAN STA partitioning
- 4 SSID for network segmentation SSID broadcast disable function

277.7 (L) x 155 (W) x 70 (H) mm

Operating Temperature

Storage Temperature

Luxemburg

Poland

India

Turkey

Egypt

Israel

Brazil

Russia

Japan

China

Taiwan

LatinAmerica

South Africa

Headauarters

Hungary

Singapore Australia

Middle East (Dubai)

802.1Q VLAN Tagging

Configurable Modes AP WDS with AP

- WDS

Performance Enhancement AP grouping for load balance

Air Premier™

Device Configuration/Management

- · Web-based management: Internet Explorer v.6 or later; Netscape Navigator v.7 or later; or other Java-enabled browsers
- MIB-I, MIB-II
- Telnet
- Windows-based AP Manager Utility

Diagnostic LEDs

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

Accessories Provided for Outdoor Installation

- Surge arrestor
- PoE base unit
- RF jumper cable (1 meter long)
- Ethernet cable (30 meters long)
- Set of grounding wires
- 2 mounting kits



Operating Humidity 10% to 90% non-condensing

5% to 95% non-condensing

Regulation Certification

FAX: 32-(0)2-517-6500

FAX: 48-(0)-22-583-92-76

FAX: 36-(0)-1-461-30-09

FAX: 65-6774-6322

FAX: 61-2-8899-1868

FAX: 971-4-3908881

FAX: 202-415-6704

FAX: 972-9-9715601

FAX: 56-2-232-0923

FAX: 55-11-218-59322

FAX: 27-12-665-2186

FAX: 86-10-58635799

FAX: 886-2-6600-8168

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FAX: 7-495-744-0099 #350 FAX: 81-3-5781-0965

Rev. 04 (May. 2006)

FAX: 91-022-26528914

FAX: 90-212-289-76-06

Storage Humidity

FCC Class B CE

Wi-Fi

TEL: 32-(0)2-517-7111

TEL: 48-(0)-22-583-92-75

TEL: 36-(0)-1-461-30-00

TEL: 65-6774-6233

TEL: 61-2-8899-1800

TEL: 971-4-3916480

TEL: 202-414-4295

TEL: 972-9-9715700

TEL: 56-2-232-3185

TEL: 55-11-218-59300

TEL: 27-12-665-2165

TEL: 7-495-744-0099

TEL: 81-3-5781-0963

TEL: 86-10-58635800

TEL: 886-2-6600-0123

TEL: 886-2-6600-0123

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