D-Link®
Building Networks for People

Limited Lifetime Warranty

DWL-8710AP

802.11n/ac Unified Wireless Outdoor Access Point

Features

Ideal for Business and Campus Environments
- Blazing performance, reaching up to 1 Gbps of network throughput[1]
- IP67-compliant housing, allowing it to withstand very harsh weather conditions
- Up to 32 virtual access points may be created using a single access point
- Automatic load-balancing between linked APs
- Flexible Wi-Fi QoS schemes, allowing for controlled and balanced access
- Combine with D-Link's Unified Wireless Switches to expand the network to support hundreds of APs

Trusted Security
- WPA/WPA2 Personal
- WPA/WPA2 Enterprise
- MAC address filtering
- Rogue AP detection

RF Management
- Automatic channel selection
- Automatic power transmitting adjustment

Convenient Installation
- Can be easily attached to a wall or pole using the provided mounting kits
- Supports 802.3at Power over Ethernet, allowing the unit to be installed in remote locations[3]

Overview

The DWL-8710AP is an outdoor Dual-Band 802.11n/ac Wi-Fi Access Point designed specifically for deployment in business and campus environments. Highly manageable and capable of blazing speeds, the DWL-8710AP integrates seamlessly into existing network infrastructure and can be easily scaled to meet future demands. The DWL-8710AP is equipped with two radio transceivers. The first is a 2.4 GHz 2x2 IEEE 802.11n interface that supports up to 300 Mbps of network throughput while the second one is a 5 GHz 2x2 IEEE 802.11ac interface, capable of up to 867 Mbps of network throughput. The DWL-8710AP also features two Gigabit Ethernet network interfaces, designed to allow the administrator to easily bridge other networking devices into the network, such as a camera or another Wi-Fi access point.

Security and Unified Management

The DWL-8710AP supports all the latest in Wi-Fi security, including WPA, WPA2, and 802.1X. In addition, the DWL-8710AP supports up to 32 Virtual Access Points (VAP), which gives the administrator the flexibility to easily assign access privileges to different classes of users. When used together with D-Link's line of Unified Wireless Switches, security can be taken to a new level. Rogue APs in the network may be easily detected, and the administrator will be immediately notified of any security threat.

When deployed in conjunction with D-Link's line of Unified Wireless Switches, up to 1024 DWL-8710APs may be centrally managed and provisioned, enabling the administrator to scale the Wi-Fi network to cover larger areas.

Automatic Radio Frequency (RF) Management

When a number of access points are deployed close to each other, interference may result if proper RF management is not implemented. When a DWL-8710AP senses a neighbor AP nearby, RF management will make it so that the DWL-8710AP will automatically select a non-interfering channel. This greatly reduces RF interference and makes it possible to deploy APs more densely.

To further minimize interference, the DWL-8710AP will automatically lower its transmitting power when an adjacent AP is operating on the same channel[2]. If a nearby AP is no longer present, the DWL-8710AP will dynamically increase its transmitting power again to increase wireless coverage.

Quality of Service

The DWL-8710AP supports Wi-Fi Multimedia (WMM), which prioritizes time-sensitive traffic in the event of a network data congestion. Furthermore, when a number of DWL-8710APs are in close proximity with each other, an access point will refuse new association requests once its resources are fully utilized. Instead, the association request will be picked up by a neighboring unit. This feature ensures that a single access point is never overloaded while others remain under utilized. Furthermore, you have the option to limit the bandwidth on a per-user basis, avoiding scenarios where a particular client might use up all the available bandwidth, affecting the performance of other users on the network.

Robust Design and Easy Installation

The DWL-8710AP is IP67-compliant and is designed to operate in harsh outdoor environments and temperatures ranging from -22 up to 140˚ F. In addition, all network interfaces are protected against electrical surges, enabling the device to be placed in areas where there is a risk of being struck by lightning.

For easy installation, it has integrated 802.3at Power over Ethernet (PoE) support, allowing installation of this device in areas where power outlets are not readily available. The AP can also be powered by a separately purchased PoE Injector.
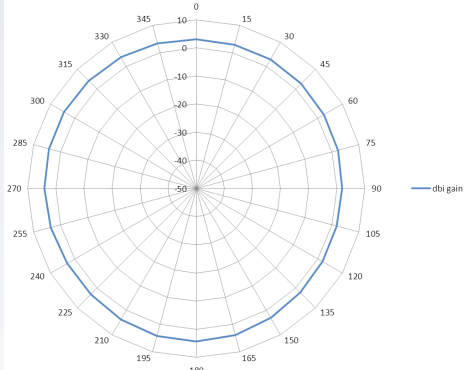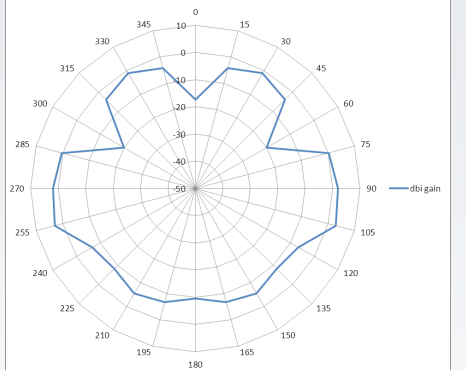
Limited Lifetime Warranty

D-Link offers a Limited Lifetime Warranty on the DWL-8710AP Access Point to further its commitment to product quality and long-term customer confidence.

Technical Specifications

General

Interfaces	• 802.11a/g/n/ac 2x2 MIMO • 2 x 10/100/1000 LAN ports	• 4 N-Type antenna connectors (2 x 2.4 GHz, 2 x 5 GHz)
Antenna	• 2 x 7 dBi gain for 5 GHz radio • 2 x 5 dBi gain for 2.4 GHz radio	• 4 external omni-directional antennas included
Power Method	• PoE-powered through port LAN1 marked PoE-Input	

Functionality

Operating Frequency	• 2400 MHz to 2483.5 MHz ISM band • 5.180 GHz to 5.240 GHz • 5.280 GHz to 5.320 GHz	• 5.500 GHz to 5.700 GHz • 5.745 GHz to 5.825 GHz
Operating Channels	• 1 to 11 channels for 2.4 GHz band	• 36 to 165 channels for 5 GHz band (per country code)
Web-Based User Interface	• HTTP/HTTPS	

Security

SSID Security	• Up to 32 SSIDs, 16 per radio • 802.1Q VLAN	• Station Isolation
Wireless Security	• WPA/WPA2 Personal/ Enterprise • AES	• TKIP
Detection & Prevention	• Rogue and Valid AP Classification	
Authentication	• MAC Address Filtering	

Physical

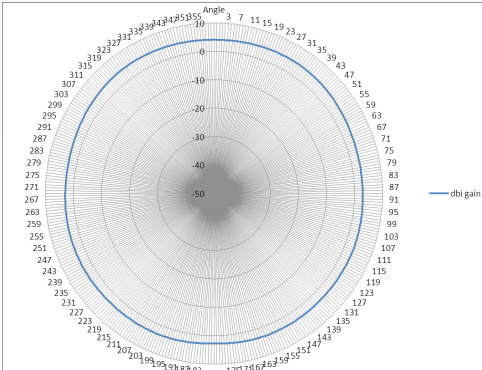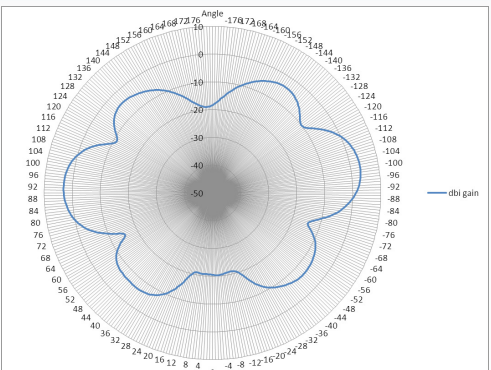|		
Dimensions	• 9.48 x 8.66 x 1.77 inches excluding mounting base	
Weight	• 4.53 lbs with antennas attached	• 3.96 lbs without antennas attached
Power Consumption	• 16.5 W maximum	
Power over Ethernet	• 802.3at compliant Power over Ethernet	
Enclosure	• Metal and polycarbonate • IP67-rated housing	• UL2043 certified
Temperature	• Operating: -22 to 140 °F	• Storage: -22 to 158 °F

Humidity	• Operating: 10% to 90% non-condensing	
Certifications	• CE • EN 301 893 V1.7.1 (2012-06) (DFS/TPC) • EN 300 328 V1.8.1 (2012-06) • FCC	• Wi-Fi • UL2043 • BSMI • NCC

Radio Pattern 2.4 GHz Antenna

Orientation	H-Plane	E-Plane

Radio Pattern 5 GHz Antenna

Orientation	H-Plane	E-Plane

Order Information

Part Number	*Description*
DWL-8710AP	Dual-Band 802.11n/ac Unified Wireless Outdoor Access Point

Optional Accessories

DPE-301GI	Gigabit PoE Injector

[1] Maximum wireless signal rate is as specified by the IEEE 802.11ac and 802.11n standards. Actual data throughput will vary. Network and other environmental factors, including volume of network traffic, building materials, and nearby radio interference may lower actual data throughput.

[2] This feature is available when the DWL-8710AP is used in conjunction with D-Link's lineup of Unified Wireless Switches and/or Controllers.

[3] Power supply is not included. To power the device, use a D-Link PoE switch or the D-Link DPE-301GI PoE injector (sold separately).

For more information

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