D-Link
Building Networks for People

Product Highlights

Next Generation Connectivity

Ideal for small to medium enterprises with dual-band support for 802.11n and ac devices and over 1 Gbps throughput for reliable connections

Unparalleled Performance

Experience smooth and stable performance with a powerful CPU, beamforming for greater coverage, and bandsteering for managing traffic

Versatile Management

Simplify access point deployment with a self configuring cluster mode and RF resource management for detecting weak signals

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

The DWL-8710AP is an outdoor Dual-Band 802.11ac 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.

High Performance

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 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.

Robust Design

The DWL-8710AP is IP67-compliant and is designed to operate in harsh outdoor environments and temperatures ranging from -30 up to 60 °C. 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.

Unified Management

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.

Security

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.

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 transmit 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 transmit power again to increase wireless coverage.

Quality of Service

The DWL-8710AP supports Wi-Fi Multimedia (WMM) , which prioritizes time-sensitive traffic ahead of the pack 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 sit idle. Furthermore, the administrator has 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.

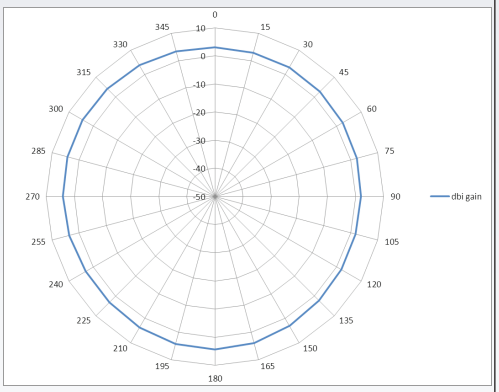
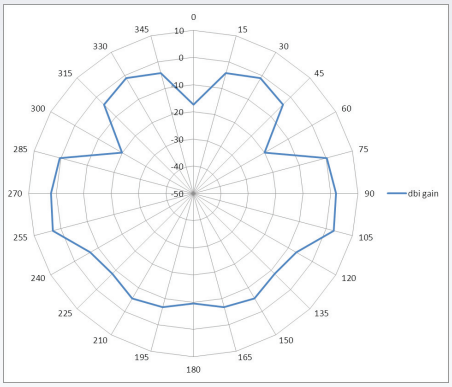
Technical Specifications

General		
Interfaces	• 802.11a/g/n/ac 2x2 MIMO • 2 x 10/100/1000 LAN ports	• Four N-Type antenna connectors
Antenna	• 2 x 7 dBi gain for 5 GHz radio • 2 x 5 dBi gain for 2.4 GHz radio	• Four external omni-directional antennas included
Power Method	• PoE-Powered through port LAN1	
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 13 channels for 2.4 GHz band (per country code)	• 36 to 165 channels for 5 GHz band (per country code)
Web-Based User Interface	• HTTP/HTTPS	
Command Line	• Telnet/SSH	• SNMP
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	• 250 x 220 x 45 mm (9.48 x 8.66 x 1.77 inch) excluding mounting base	
Weight	• 2053 g (4.53 lbs) with antennas attached	• 1795 g (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 • GORE® Vent
Temperature	• Operating: -30 to 60 °C (-22 to 140 °F)	• Storage: -30 to 70 °C (-22 to 158 °F)

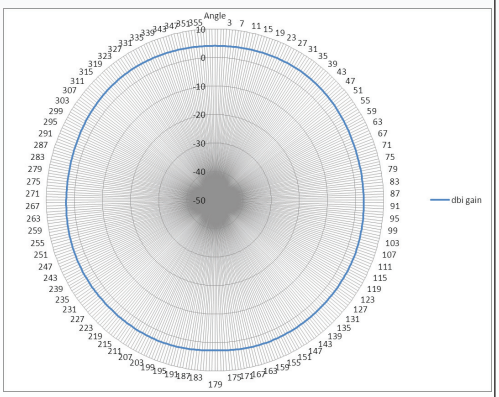
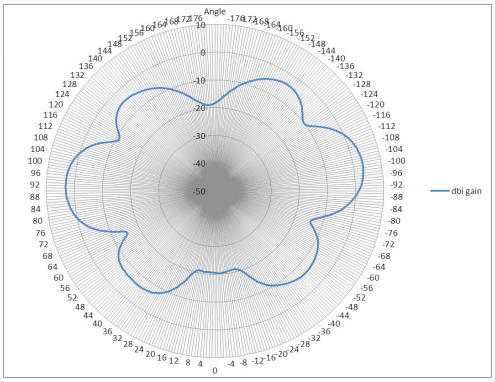
DWL-8710AP
802.11n/ac Unified Wireless Outdoor Access Point

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 • IC • cUL • C-Tick • NCC • Wi-Fi • LVD • UL2043 • BSMI

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	802.11n/ac Unified Wireless Outdoor Access Point

[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.

Updated 01/11/16

D-Link®
Building Networks for People