D-Link®
Building Networks for People

Product Highlights

Next Generation Connectivity

Dual band, supporting 802.11n and ac devices
Over 1 Gbps throughput for reliable connection
Ideal for small to medium enterprises

Unparalleled Level of Performance

Upgraded powerful CPU
Bandsteering technology for managed traffic
Beamforming technology enables greater reach

Versatile Management

Self-configuring cluster mode simplifies setup
Efficient and easy AP deployment and management
RF resource management for weakness detection

DWL-8610AP

Dual-Band 802.11n/ac Unified Wireless Access Point

Features

Ideal for Business
- Self-configuring cluster, enabling effortless provisioning
- Up to 16 virtual access points may be created from a single access point
- Flexible QoS with WMM
- 802.3af Power Over Ethernet enables installation at hard to reach locations

High Performance Connectivity
- Beamforming technology
- Bandsteering for efficient traffic management
- Dual Gigabit Ethernet LAN ports
- UL2043 certified chassis
- Up to 16 DWL-8600APs may form a self-configuring cluster

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

The DWL-8610AP is D-Link's next generation Unified Wireless Access Point. Intended for the small/medium enterprise market, the DWL-8610AP provides unparalleled bandwidth and flexibility for administrators looking to deploy a medium/large scale Wi-Fi network. Featuring the latest 802.11ac technology on its 5GHz band, the DWL-86100AP brings you to the forefront in cutting edge wireless technology.

Greater Reach and Flexibility

The DWL-8610AP provides fast and reliable connectivity by using 3x3 implementation, allowing for over 1 Gbps of throughput over the air. Beamforming technology enables the DWL-8610AP to have even greater reach than its predecessor, the DWL-86100, thereby allowing even more flexibility in any deployment scenario. Based on 3x3 802.11n technology, the DWL-8610AP provides the highest possible level of performance in the 2.4GHz band.

Centrally Manage your Wireless Network

When working in conjunction with D-Link Unified Switch/Controllers, the DWL-8610AP, like other UAPs in the product line, may be centrally managed. This allows a large number of APs to be deployed and managed easily and efficiently. Once the APs are discovered by the switch/controller, the administrator can push a specific set of configurations onto them, rather than having to do so one by one. In addition, RF resource management and security are also managed centrally, thus allowing the administrator to pre-emptively identify potential deficiencies and weaknesses in the network.

Self-Configuring Cluster

For small businesses that need to deploy multiple APs but lack the resources to tackle the complicated task of network management, the DWL-8610AP's self-configuring cluster feature offers the ideal solution. When a small number of DWL-8610APs are deployed on the network, they may be configured to form a self-configuring cluster. Once the administrator configures one access point, the same configuration can then be applied to all remaining APs. Up to 8 APs may be used to form a cluster, making set up of your business wireless network a breeze.

Upgraded for Superior Performance

The DWL-8610A has been upgraded and re-fit for superior performance, feauturing a more powerful CPU, giving it a performance boost over its predecessor, and a high gain internal omni-directional antenna, increasing its reach, and eliminating dead spots. The DWL-8610 also features bandsteering technology, enabling the AP to balance the load between its two radios, rather than having all users crowd into the 2.4GHz band, allowing smooth streaming of video, instant SMS and emails and fast downloads on mobile devices.

Expanded Coverage

When a number of access points are deployed close to each other, interference may result if proper RF management isn't implemented. When a DWL-8610AP senses a neighbor nearby, it will automatically select a non-interfering channel. This greatly reduces RF interference and will allow the administrator to deploy APs more densely. To further minimize interference, when a nearby AP is operating on the same channel, the DWL-8610AP will automatically lower its transmission power.[2] When, for whatever reason, the nearby AP is no longer present, the DWL-8610AP will increase its transmission power to expand coverage.

Quality of Service for Increased Connectivity

The DWL-8610A supports 802.1p Quality of Service (QoS) for enhanced throughput and better performance of time-sensitive traffic like VoIP and streaming DSCP. The DWL-8610AP is WMM-certified, so in the event of network congestion, time-sensitive traffic can be given priority ahead of other traffic. Furthermore, when a number of DWL-8610APs 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 no single AP is overburdened while others nearby sit idle.

Technical Specifications

General

Interface	• 802.11b/g/n 2.4 GHz • Power Jack • Factory Reset Button	• 802.11ac 5 GHz • 1 power switch • 1 RJ45 console port
LAN Interface	• 2 x auto-sensing 10/100/1000M Base-T	
Antenna	• Internal omni-directional antennas	• 6.5 dBi for 5 GHz, 5 dBi or 2.4 GHz
Power Method	• Powered by 802.3at	• 12 V/2A power adapter

Functionality

Wireless Frequency	• 802.11b/g/n: 2.4 GHz-2.4835 GHz	
Data Transfer Rate	• 802.11n: 6.5 Mbps-300 Mbps • 802.11b: 11, 5.5, 2, and 1 Mbps	• 802.11g: 54, 48, 36, 24, 12, 9, and 6 Mbps
Operation Channel	• 2.4 GHz: • 5 GHz • 11 channels for United States	• 13 channels for Europe • 13 channels for Japan
Web-based User Interface	• HTTP/HTTPS	
Command Line	• RJ45 Serial Console • Telnet/ SSH	• SNMP

Security

SSID Security	• 16 SSID • 802.1Q VLAN	• Station Isolation
Wireless Security	• WPA Personal/ Enterprise	• PSK and TKIP
Detection & Prevention	• Rogue and Valid AP Classification	
Authentication	• MAC Address Filtering	

Physical

Dimensions	• 198 x 171 x 40 mm	
Weight	• 240 grams (0.53 lbs)	
Power Adapter	• Input: 100 to 240 V AC	• Output: 12 V DC, 1 A
Power over Ethernet	• 10/100/1000 Mbps PoE (802.3at)	
Enclosure	• Bottom cover – metal • Top cover – plastic	• UL2043 certified
Temperature	• Operating: 0 to 40 °C (32 to 104 °F)	• Non-operating Temperature -20~65°C
Humidity	• Operating: 10% to 90% non-condensing	
Certifications	• CE • FCC • IC • cUL • LVD • UL2043 (for plenum-rated SKU only)	• C-Tick • VCCI • NCC • Wi-Fi • TELEC

Order Information

Part Number	Description
DWL-8610AP	Dual-Band 802.11n/ac Unified Wireless Access Point

[1] 300 Mbps is the maximum wireless signal rate as specified by IEEE 802.11n standard. 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 Unified AP is used in conjunction with D-Link's line of Unified Wireless Switches/controllers.

Updated 10/28/13