D-Link®

DWL-8610AP

Unified Wireless Concurrent Dual Band 802.11ac Access Point

Features

High-performance Connectivity
- IEEE 802.11ac wireless[1]
- 3x3 MIMO with 3 Spatial Streams
- Up to 1300+450 Mbps[1]
- 2x Gigabit LAN ports

Made for Business-class Environments
- Simultaneous dual-band connectivity for increased network capacity
- Beamforming technology
- Bandsteering for efficient traffic management
- Console port for debugging

Flexible & Scalable
- Flexible deployment, standalone or centrally managed by a wireless controller
- Self-configuring cluster enables easier provisioning (up to 16 APs)

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

Convenient Installation
- Can be easily mounted on a wall or ceiling
- 802.3at Power over Ethernet (PoE enables installation in hard-to-reach locations

Overview

The DWL-8610AP Unified Wireless Concurrent Dual Band 802.11ac Access Point combines the cutting edge wireless speeds of 802.11ac with the unparalleled flexibility and scalability of D-Link's Unified Wireless Solution. The DWL-8610AP is designed to support small to medium business or enterprise environments by providing network administrators with secure and manageable dual-band wireless network options. The DWL-8610AP delivers reliable, high-speed wireless performance using the latest 802.11ac standards. It supports maximum wireless signal rates of up to 450 Mbps over the 2.4 GHz band, and 1300 Mbps over the 5 GHz band[1].

Versatile and powerful, the DWL-8610AP can be flexibly deployed as an autonomously managed, standalone wireless access point, or as a centrally managed access point controlled by a D-Link Unified Wireless Switch or Wireless Controller. Businesses can start with standalone mode deployment, and then migrate to a centrally managed system anytime later.

Greater Reach and Flexibility

The DWL-8610AP supports a variety of advanced radio management features to get the most of the wireless network and maximize user experience. Band steering detects and steers 5 GHz capable clients away from the overcrowded 2.4 GHz network to the less congested 5 GHz network. 200 wireless clients connected AP simultaneously Load balancing ensures maximum performance by limiting the maximum number of users per access point. Beamforming technology enables even greater reach. By focusing the wireless signal at connected devices, it guarantees continuous fast wireless speeds, even under heavy network utilization or in areas that have bad wireless signal.

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 16 APs may be used to form a cluster, making setting up your business wireless network a simple and easy.

Centrally Manage your Wireless Network

When working in conjunction with a D-Link Unified Switch or Wireless Controller, the DWL-8610AP, like other D-Link Unified Access Points, may be centrally managed. This allows up to 256 D-Link Unified Access Points 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 preemptively identify potential deficiencies and weaknesses in the network.

Automatic RF Management Saves Power and Money

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 can 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]. At any time should the nearby AP drop from the network, the DWL-8610AP will increase its transmission power to expand coverage.

Quality of Service for Increased Connectivity

The DWL-8610AP 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.

Upgraded for Superior Performance

The DWL-8610AP features a more powerful 1 Ghz CPU speed and 512MB SDRAM, giving it a performance boost over its predecessor. The high gain internal omnidirectional antenna increases its reach, eliminating dead spots and filling hard to reach places. Bandsteering technology enables the AP to balance the load between its two radios, rather than having all users crowd into the 2.4 GHz band, allowing for smooth streaming of video, instant SMS and e-mail, and fast downloading for mobile devices.

Security

The DWL-8610AP supports the latest standards in Wi-Fi security, including WEP, WPA, WPA2, and 802.1X. In addition, it supports up to 16 Virtual Access Points (VAP) per radio, for a total of 32 SSIDs, which allows the administrator to assign different access privileges to different groups of users. When Station Isolation is enabled, the AP blocks communication between wireless clients on the same radio and VAP. Also can manage packet encryption and decryption process in standalone mode. Rogue APs in the network can be easily detected, and the administrator will be immediately notified of any security threat. When used together with D-Link's Wireless Controller or Unified Switch, the security can be enhanced further.

Easy and Convenient Installation

With internal antennas and a simple housing, the DWL-8610AP can be installed on a wall or ceiling and blends in with most office environments. Enclosed chassis, the DWL-8610AP adheres to strict fire regulations for placement in air passageways. 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. Plug-and-Play compatible with zero or extremely easy configuration.

	Standalone Mode	Managed Mode[3]
Centralized Management		√
Centralized Firmware Dispatch		√
Visualized AP Management Tool		√
Auto-Power Adjustment	√	√
Dynamic Auto-Channel Selection	√	√
L2 Fast Roaming	√	√
L3 Fast Roaming		√
Captive Portal		√
WEP/WPA/WPA2 Security	√	√
Rogue AP Detection	√	√
Rogue AP Mitigation		√
WIDS		√
Station Isolation	√	√
MAC Address Filtering	√	√
AP Load Balancing Setup	√	√
WDS	√	√
AP Clustering	√	
QoS/WMM	√	√
View Neighboring AP information	√	√
Configuration Push	√	√

Technical Specifications

General

Wireless Interfaces	• 2.4Ghz: 802.11b/g/n	• 5GHz: 802.11a/n/ac
Wired Interfaces	• RJ45 console port	• 2 10/100/1000Mbps LAN Ports (one port supporting 802.3at PoE)
LEDs	• Power • LAN 1 • LAN 2	• Diagnostics • 2.4 GHz • 5 GHz

Antennas	• Internal omni-directional antennas
	  • 2.4GHz: 5 dBi
	  • 5GHz: 6.5 dBi	

Functionality

Wireless Frequency	• 2.4 GHz band: 2.4 GHz-2.4835 GHz	• 5 GHz band: 4.9 GHz-5.85 GHz
Data Transfer Rates	• 802.11ac: 433 Mbps-1300 Mbps • 802.11n: 6.5 Mbps-450 Mbps	• 802.11g: 54, 48, 36, 24, 12, 9, and 6 Mbps • 802.11b: 11, 5.5, 2, and 1 Mbps
Operating Channels	• ETSI standards 2.4/5 GHz • 2.4 GHz: 13 channels	 • 5 GHz: 19 non-overlapping channels
Security	• WPA-Personal/Enterprise PSK and TKIP • 802.11i WPA2-Personal/Enterprise PSK, TKIP and AES • WEP 64/128-bit encryption	• SSID broadcast disable • MAC address access control • Internal RADIUS server

Network Management	• Operational modes
	  • Standalone
	  • AP Array
	  • Managed (with DWC-1000,
	    DWC-2000, DWS-4026 or DWS-3160)
		• Web-based user interface (HTTP/HTTPS)
		• Command line interface via
		   • RJ45 serial console
		• Telnet/SSH
		• SNMP

Features

Features		

Features	• Power Adjustment
	• Auto channel Selection
	• 802.1p QoS
	• WMM (Wi-Fi Multimedia)
	• Load Balancing
	• Channel scan
	• 802.11e Automatic Power Save
	• SVP (SpectraLink Voice Priority)
	• Direct Sequence Spread Spectrum (DSSS)
		• WDS
		• Spectrum Scanning
		• Bandsteering
		• 802.11h
		  -Transmit Power Control (TPC)
		  -Dynamic Frequency Selection (DFS)
		• U-NII-2 Orthogonal Frequency Division Multiplexing (OFDM)

Access Control List (ACL)	• IPv4/IPv6 address	

Security Setting	• EAP Types
	  -EAP-MD5
	  -EAP-TLS
	  -EAP-TTLS
	  -EAP-FAST
	  -EAP-SIM
	  -PEAP-GTC
	  -PEAP-TLS,
	  -PEAP-MS-CHAPv2
		• Station Isolation
		• MAC Filtering

AAA	• 802.1X	• RADIUS authentication
Dimensions	• 198 x 171 x 40 mm (7.8 x 6.7 x 1.6 in.)	
Weight	• 862 grams	
Power Adapter	• Input: 100 to 240 VAC	• Output: 12 VDC, 1 A
Power over Ethernet	• 802.3at PoE+	
Max. Power Consumption	• 12.95 Watt	
Temperature	• Operating: 0 to 40°C (32 to 104°F) • Storage: -20~65°C-(4 to 149°F)	
Humidity	• Operating: 10% to 90% non-condensing	
Certifications	• CE • FCC • IC • cUL • LVD • UL2043	• C-Tick • VCCI • NCC • Wi-Fi • TELEC

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

[1] 1300 Mbps is the maximum wireless signal rate as specified by IEEE 802.11ac 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 Switches and Wireless Controllers.

[3] Managed by a D-Link Unified Switch or Wireless Controller

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