

## Product Highlights

### Enjoy High-Performance Wireless Connectivity

Harness the power of Wireless AC, enjoying wireless speeds of up to 1300+450 Mbps<sup>1</sup>, perfect for high-demand business applications

### Enhanced Dual-Band Performance

Load balancing with band steering to provide a faster and more stable wireless connection

### Connect Further and Faster

AC SmartBeam™ technology greatly improves wireless performance by focusing wireless signals, providing wider wireless coverage without the need for additional access points.

### Unparalleled Flexibility and Scalability

Can be used as a standalone wireless access point as well as clustered and managed centrally via a D-Link Wireless Controller or Unified Switch



## DWL-8610AP

# Wireless AC1750 Dual-Band Unified Access Point

## Features

### High-performance Connectivity

- IEEE 802.11ac wireless<sup>1</sup>
- Up to 1300+450 Mbps<sup>1</sup>
- 2 x Gigabit LAN ports

### Made for Business-class Environments

- Simultaneous dual-band connectivity for increased network capacity
- AC SmartBeam™ technology
- Bandsteering for efficient traffic management
- Console port for debugging

### Flexible & Scalable

- Flexible deployment, stand-alone or centrally managed by a wireless controller
- Self-configuring cluster enables easier provisioning. Up to 16 DWL-8610APs may form a self-configuring cluster

### 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
- UL2043 certified Plenum rated housing to comply with fire regulations

The DWL-8610AP Wireless AC1750 Dual-Band Unified 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.

## Super-fast Wireless AC Performance

The DWL-8610AP delivers reliable, high-speed wireless performance using the latest 802.11ac standards with maximum wireless signal rates of up to 450 Mbps over the 2.4 GHz band, and 1300 Mbps over the 5 GHz band<sup>1</sup>. With band steering, the DWL-8610AP detects whether or not the wireless client is dual-band capable and if it is, it will push the client to connect to the less congested 5 GHz 802.11ac/n network. It does this by actively blocking the client's attempts to associate with the 2.4 GHz network. Band steering can ensure clients on the 5 GHz band can achieve their maximum performance without being bottle-necked by legacy 2.4 GHz 802.11b/g/n clients. This way, you can make the most of Wireless AC technology and at the same time ensure backwards compatibility with existing legacy equipment.

AC SmartBeam™ technology enables the DWL-8610AP to have even greater reach than ever before. By focusing the wireless signal at connected devices, it guarantees continuous fast wireless speeds, anywhere in the office, even under heavy network utilisation or in area that had 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 breeze.

## 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 192 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 pre-emptively 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 neighbour 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 minimise interference, when a nearby AP is operating on the same channel, the DWL-8610AP will automatically lower its transmission power.<sup>2</sup> 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-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 utilised. Instead, the association request will be picked up by a neighbouring unit. This feature ensures that no single AP is overburdened while others nearby sit idle.

## 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 VAPs, 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. 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.

## Convenient Installation

With an embedded antenna and a simple housing, the DWL-8610AP can be installed on a wall or ceiling and blends in with most office environments. Enclosed in a plenum-rated 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.



If the worst should happen to your network you need the very best support and fast. Downtime costs your business money. D-Link Assist maximises your uptime by solving technical problems quickly and effectively. Our highly trained technicians are on standby around the clock, ensuring that award-winning support is only a phone call away.

With a choice of three affordable service offerings covering all D-Link business products, you can select the package that suits you best:

### D-Link Assist Gold - for comprehensive 24-hour support

D-Link Assist Gold is perfect for mission-critical environments where maximum uptime is a high priority. It guarantees four hour around-the-clock response. Cover applies 24/7 for every day of the year including holidays.

### D-Link Assist Silver - for prompt same-day assistance

D-Link Assist Silver is designed for 'high availability' businesses that require rapid response within regular working hours. It provides a four hour response service Monday to Friday from 8am to 5pm, excluding holidays.

### D-Link Assist Bronze - for guaranteed response on the next business day

D-Link Assist Bronze is a highly cost-effective support solution for less critical environments. Response is guaranteed within eight business hours Monday to Friday from 8am to 5pm, excluding holidays.

D-Link Assist can be purchased together with any D-Link business product. So whether you're buying switching, wireless, storage, security or IP Surveillance equipment from D-Link, your peace of mind is guaranteed. D-Link Assist also offers installation and configuration services to get your new hardware working quickly and correctly.

## Wireless AC1750 Dual-Band Unified Access Point

Technical Specifications		
General		
Device Interface	<ul style="list-style-type: none"> <li>• 802.11ac/b/g/n</li> <li>• RJ45 console port</li> </ul>	<ul style="list-style-type: none"> <li>• 2 Gigabit LAN Port (one port supporting 802.3at PoE)</li> </ul>
LEDs	<ul style="list-style-type: none"> <li>• Power</li> <li>• LAN 1</li> <li>• LAN 2</li> </ul>	<ul style="list-style-type: none"> <li>• Diagnostics</li> <li>• 2.4 GHz</li> <li>• 5 GHz</li> </ul>
Wireless Frequency	<ul style="list-style-type: none"> <li>• 2.4 GHz band: 2.4 GHz-2.4835 GHz</li> </ul>	<ul style="list-style-type: none"> <li>• 5 GHz band: 4.9 GHz-5.85 GHz</li> </ul>
Data Transfer Rate	<ul style="list-style-type: none"> <li>• 802.11ac: 433 Mbps-1300 Mbps</li> <li>• 802.11n: 6.5 Mbps-450 Mbps</li> </ul>	<ul style="list-style-type: none"> <li>• 802.11g: 54, 48, 36, 24, 12, 9, and 6 Mbps</li> <li>• 802.11b: 11, 5.5, 2, and 1 Mbps</li> </ul>
Operation Channel	<ul style="list-style-type: none"> <li>• 2.4 GHz</li> <li>• 13 channels</li> </ul>	<ul style="list-style-type: none"> <li>• 5 GHz</li> <li>• 19 non-overlapping channels</li> </ul>
Antenna	<ul style="list-style-type: none"> <li>• Internal omni-directional antennas</li> </ul>	<ul style="list-style-type: none"> <li>• 6.5 dBi for 5 GHz, 5 dBi for 2.4 GHz</li> </ul>
Functionality		
Security	<ul style="list-style-type: none"> <li>• WPA-Personal/Enterprise</li> <li>• WPA2-Personal/Enterprise</li> <li>• WEP 64/128-bit encryption</li> </ul>	<ul style="list-style-type: none"> <li>• SSID broadcast disable</li> <li>• MAC address access control</li> <li>• Internal RADIUS server</li> </ul>
Network Management	<ul style="list-style-type: none"> <li>• Operational modes <ul style="list-style-type: none"> <li>• Standalone</li> <li>• AP Array</li> </ul> </li> <li>• Managed (with DWC-1000, DWS-4026 or DWS-3160)</li> <li>• Web-based user interface (HTTP/HTTPS)</li> </ul>	<ul style="list-style-type: none"> <li>• Command line interface via <ul style="list-style-type: none"> <li>• RJ45 serial console</li> </ul> </li> <li>• Telnet/SSH</li> <li>• SNMP</li> </ul>
Physical		
Dimensions	<ul style="list-style-type: none"> <li>• 203.3 x 203.3 x 48.2 mm</li> </ul>	
Weight	<ul style="list-style-type: none"> <li>• 852.2 grams</li> </ul>	
Power Adapter	<ul style="list-style-type: none"> <li>• Input: 100 to 240V AC</li> </ul>	<ul style="list-style-type: none"> <li>• Output: 12V DC, 1 A</li> </ul>
Power over Ethernet	<ul style="list-style-type: none"> <li>• 802.3at PoE+</li> </ul>	
Enclosure	<ul style="list-style-type: none"> <li>• Bottom cover – metal</li> <li>• Top cover – plastic</li> </ul>	<ul style="list-style-type: none"> <li>• UL2043 certified</li> </ul>
Temperature	<ul style="list-style-type: none"> <li>• Operating: 0 to 40 °C (32 to 104 °F)</li> </ul>	<ul style="list-style-type: none"> <li>• Non-operating Temperature -20~65°C</li> </ul>
Humidity	<ul style="list-style-type: none"> <li>• Operating: 10% to 90% non-condensing</li> </ul>	
Certifications	<ul style="list-style-type: none"> <li>• CE</li> <li>• FCC</li> <li>• IC</li> <li>• cUL</li> <li>• LVD</li> <li>• UL2043</li> </ul>	<ul style="list-style-type: none"> <li>• C-Tick</li> <li>• VCCI</li> <li>• NCC</li> <li>• Wi-Fi</li> <li>• TELEC</li> <li>• EN 60601-1-2</li> </ul>

<sup>1</sup> 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.

<sup>2</sup> This feature is available when Unified AP is used in conjunction with D-Link's line of Unified Switches and Wireless Controllers.

# DWL-8610AP

## Wireless AC1750 Dual-Band Unified Access Point

	Standalone Mode	Managed Mode (Managed by D-Link Unified Switch or Wireless Controller)
Centralised Management	–	✓
Centralised Firmware Dispatch	–	✓
Visualised 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 Neighbouring AP information	✓	✓
Configuration Push	✓	✓



For more information: [www.dlink.com](http://www.dlink.com)

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