D-Link®

Wireless AC

Product Highlights

Next Generation Connectivity

Features next-generation 802.11ac Wave 2 technology to deliver a reliable wireless connection at unparalleled combined speeds

Unparalleled Performance

Experience smooth and stable performance with a powerful CPU, band steering, and Airtime Fairness to ensure that every client has equal access to air time

Optimised Wireless Experience

External detachable antennas with MU-MIMO and dual-band technology provide optimal wireless experience in high-density environments

DWL-8620APE

Wireless AC2600 Wave 2 Dual-Band Unified Access Point

with External Antenna

Features

Ideal for Businesses

- Multiple virtual access points can be created from a single access point
- Flexible QoS with WMM
- Power over Ethernet enables installation in hard to reach locations
- 4 external detachable dual-band omnidirectional antennas

High-Performance Connectivity

- Supports 160 MHz channel for doubled capacity
- Band steering for efficient traffic management
- Airtime Fairness
- 802.11k Fast Roaming[1]
- Supports Link Aggregation

Trusted Wireless Security Features

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

The DWL-8620APE Wireless AC2600 Wave 2 Dual-Band Unified Access Point with External Antennas is specially designed for small to medium businesses or enterprises, providing unparalleled bandwidth and flexibility for administrators looking to deploy a medium to large scale Wi-Fi network utilising the cutting-edge speed of Wireless AC Wave 2. Not only can it operate in standalone mode, the DWL-8620APE can also be centrally managed by D-Link Wireless Controllers. Highly manageable and capable of blazing speeds, it integrates seamlessly into any existing network infrastructure and can be easily scaled to meet future demands.

Greater Speed and Reach

The DWL-8620APE leverages the full potential of 802.11ac Wave 2 by using a 4 x 4 antenna implementation with 4 detachable external omnidirectional antennas, allowing high combined data rates of 2,533 Mbps[2] (1,733 Mbps for 802.11ac Wave 2, and 800 Mbps for 802.11n) over the air. In addition, it supports Link Aggregation, which allows two Gigabit Ethernet ports to be linked together and act as a single port to double the available bandwidth and maximise the overall throughput of the access point.

MU-MIMO Technology

The DWL-8620APE supports MU-MIMO (Multi-User Multiple Input Multiple Output), which enables the device to simultaneously communicate with multiple clients using multiple antennas. This allows the access point to utilise the spectrum more efficiently and significantly increase the network capacity. The DWL-8620AP support 4 x 4 MU-MIMO to take full advantage of all streams to serve more wireless clients to dramatically improve wireless performance.

Easy to Install

The DWL-8620APE can be ceiling mounted or wall mounted to meet the needs of any wireless application. For additional flexibility, it has integrated Power over Ethernet (PoE) support, allowing the devices to be installed in areas where power outlets are not readily available.

DWL-8620APE

Wireless AC2600 Wave 2 Dual-Band Unified Access Point with External Antenna

Centrally Managed

When working in conjunction with D-Link Wireless Controllers, the DWL-8620APE can be centrally managed. This allows for a large number of access points to be deployed and managed easily and efficiently. Once the APs are discovered by the controller, the administrator can push the configuration to them as a group, instead of configuring each access point individually. Additionally, Radio Frequency (RF) resource management[1] allows wireless coverage to be managed centrally, providing the best coverage possible for wireless clients.

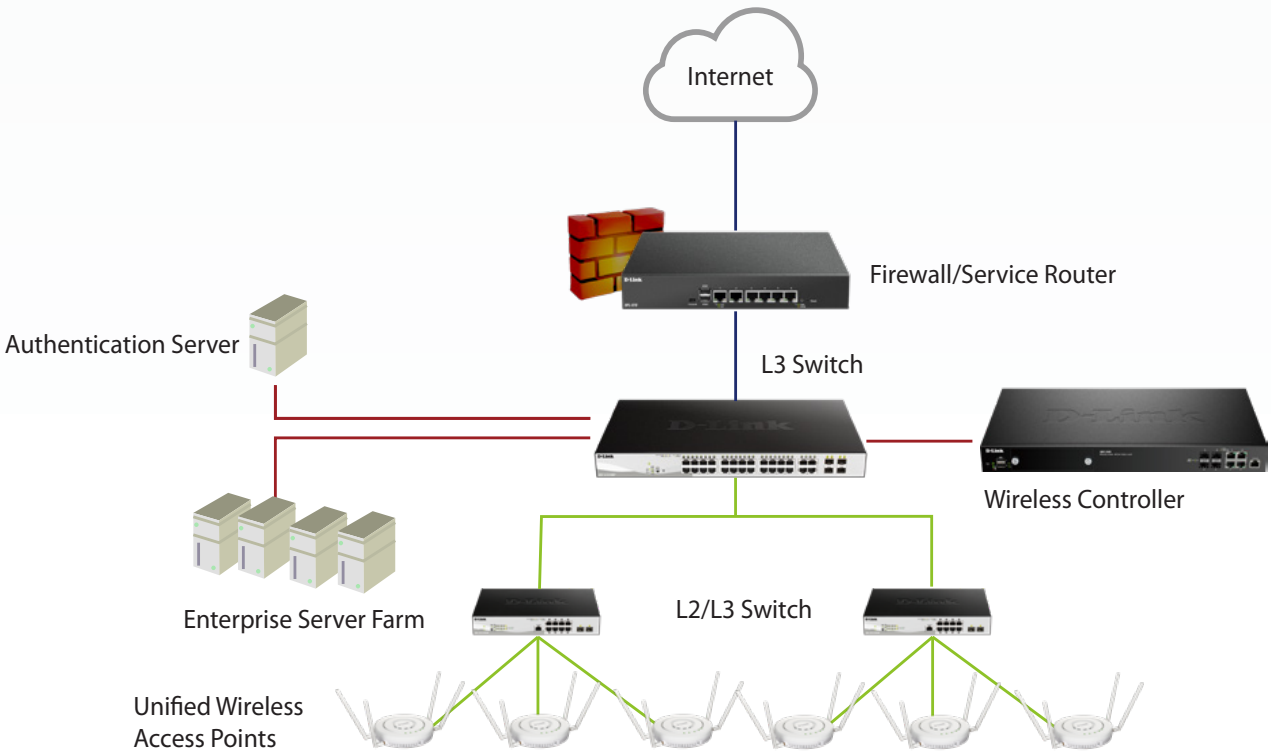
Automatic Radio Frequency (RF) Management

When access points are deployed in close proximity to each other, there may be interference between channels if RF management is not implemented. When the DWL-8620APE 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 on the same channel, the DWL-8620APE will automatically lower its transmission power[1]. When, for whatever reason, the nearby AP is no longer present, the access point will increase its transmission power to expand coverage.

Advanced Wireless Features

The DDWL-8620APE support 802.1p Quality of Service (QoS) for enhanced throughput and better performance of time-sensitive traffic like VoIP and streaming DSCP. It also supports Wi-Fi Multimedia (WMM), so in the event of network congestion, time-sensitive traffic can be given priority ahead of other traffic. Furthermore, when a number of access points are in close proximity to each other, an access point will refuse new association requests once its resources are fully utilised, allowing the association request to be picked up by a neighbouring unit, distributing the load over multiple APs. Band steering technology enables the DWL-8620APE to intelligently place clients on the optimal wireless band to avoid congestion and allows for smooth streaming of video, seamless browsing, and fast downloads for mobile devices. Airtime Fairness ensures that equal airtime is given to each client, providing increased performance even if slower devices are connected. 802.11k Fast Roaming[1] is also supported, which allows the wireless client to roam seamlessly between access points.

L2/L3 network implementation in medium to large enterprise environments



D-Link®

DWL-8620APE

Wireless AC2600 Wave 2 Dual-Band Unified Access Point with External Antenna

Technical Specifications	
General	
Hardware Version	• A1
Wireless Interface	• IEEE 802.11b/g/n 2.4 GHz wireless • IEEE 802.11/a/n/ac Wave 2 5 GHz wireless
MIMO	• 4 x 4
Data Rate[2]	• 2.4 GHz - Up to 800 Mbps • 5 GHz - Up to 1733 Mbps
Antenna	• External omnidirectional antennas • 2.4 GHz: 3 dBi • 5 GHz: 4 dBi
Operating Frequency	• 2400 to 2483.5 MHz • 5150 to 5850 MHz
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)
Ethernet Interface	• 2 x 10/100/1000BASE-T LAN port
Console Port	• RJ-45
Functionality	
Advanced Features	• Auto Channel selection • 802.1p Quality of Service (QoS) • Wireless Multimedia (WMM) • Wireless Distribution System (WDS) • Band steering • Airtime Fairness • LACP Link Aggregation[3] • IEEE 802.11k Fast Roaming
Management	
Operating Mode	• Standalone mode • Managed mode - Centrally managed by D-Link Wireless Controller
Management Interfaces	• Web-based User Interface (Web UI) • Telnet/SSH • Command Line Interface (CLI) • SNMP v1/v2c/v3
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

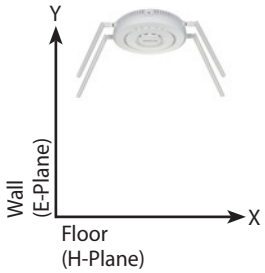
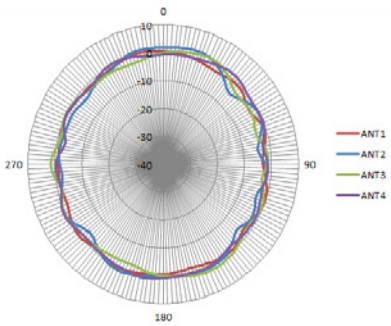
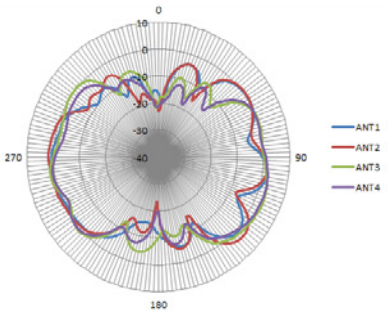
DWL-8620APE

Wireless AC2600 Wave 2 Dual-Band Unified Access Point with External Antenna

Physical	
Dimensions	• Ø220 x 47 mm (8.66 x 1.97 in)
Weight	• 0.92 kg (1.75 lbs) w/o bracket • 0.97 kg (1.85 lbs) w bracket
Power Supply	• Supports 802.3at PoE PD on LAN 1 Port • External power adapter: 12 V DC 2.5 A (not included)
Power over Ethernet	• IEEE 802.3at
Maximum Power Consumption	• 24.24 W
Enclosure	• Bottom cover – plastic • Top cover – plastic
Temperature	• Operating: 0 to 40 °C (32 to 104 °F) • Storage: -20 to 65 °C (-4 to 149 °F)
Humidity	• Operating: 10% to 90% non-condensing • Storage: 5% to 95% non-condensing
MTBF	• 460,185 hours
Certifications	• CE • EN55032, EN55024, EN61000-3-2, EN61000-3-3, EN60601-1-2 (Medical electrical equipment), EN301489-1, EN301489-17, EN300328, EN301893 • FCC • IC • cUL+UL • CB • RCM • NCC • BSMI

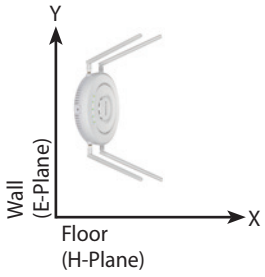
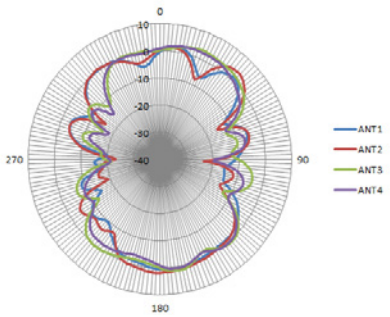
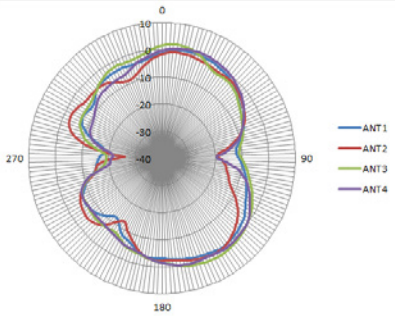
Radio Patterns: DWL-8620APE

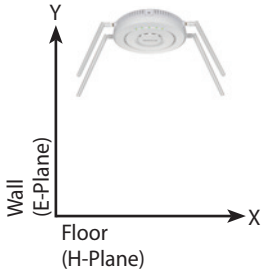
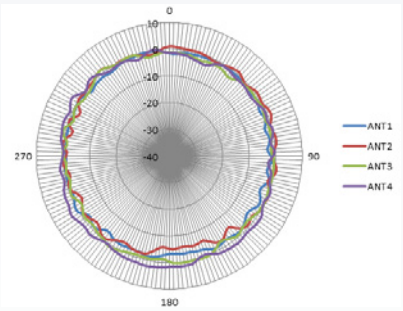
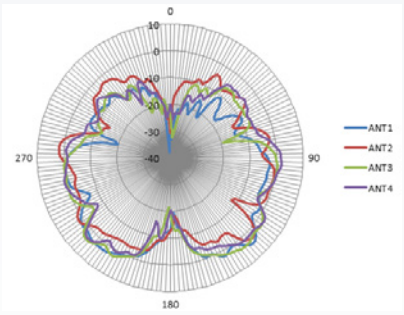
2.4 GHz Antenna Ceiling Mounted

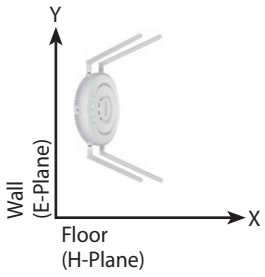
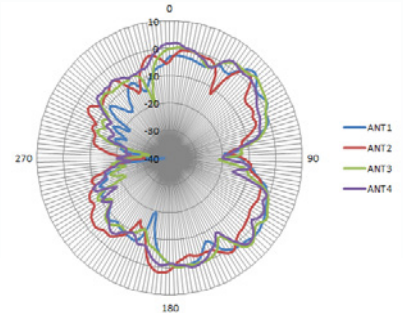
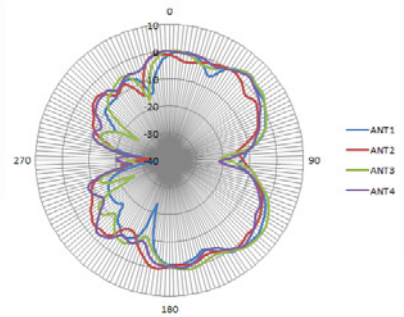
Orientation	H-Plane	E-Plane
		

DWL-8620APE

Wireless AC2600 Wave 2 Dual-Band Unified Access Point
with External Antenna

2.4 GHz Antenna Wall Mounted		
Orientation	• H-Plane	• E-Plane
		

5 GHz Antenna Ceiling Mounted		
Orientation	H-Plane	E-Plane
		

5 GHz Antenna Wall Mounted		
Orientation	H-Plane	E-Plane
		

[1] This feature is available when Unified AP is used in conjunction with D-Link's line of Unified Wireless Controllers.
[2] Maximum wireless signal rate derived from IEEE standard 802.11n and 802.11ac specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building mater construction, and network overhead, lower actual data throughput rate. Environmental factors my adversely affect wireless signal range.

For more information: www.dlink.com

Updated January 2019