D-Link®
Building Networks for People

Product Highlights

Next Generation Connectivity

802.11ac Wave 2 technology delivers a combined speed up to 1267 Mpbs[1] to enable an experience of unparalleled speed and reliable connection.

Optimal Wireless Experience

The embedded Smart Antenna improves throughput and mitigates co-channel interference.

Unparalleled Levels of Performance

Experience smooth and stable performance with a powerful CPU and better traffic management with bandsteering and airtime fairness.

DWL-6620APS

Dual-Band 802.11n/ac Wave 2 Unified Wireless Access Point

Features

Ideal for Business

- Centrally managed by D-Link Unified Wireless Controllers
- Up to 32 virtual access points may be created from a single access point
- Flexible QoS with Wi-Fi Multimedia (WMM)
- IEEE 802.3at Power Over Ethernet (PoE) enables installation in hard to reach locations
- UL2043 certified housing

High-Performance Connectivity

- MU-MIMO technology increases wireless network capacity and overall throughput
- Bandsteering for efficient traffic management
- Two Gigabit Ethernet LAN ports supporting Link Aggregation
- Airtime fairness

Trusted Wireless Security Features

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

The DWL-6620APS Dual-Band 802.11n/ac Wave 2 Unified Wireless Access Point is designed for small to medium businesses and enterprises, providing greater throughput and flexibility for medium to large-scale Wi-Fi networks. Featuring D-Link Smart Antenna technology, the DWL-6620APS allows your wireless clients to enjoy an unprecedented Wi-Fi experience and reliable connection.

Greater Speed and Connectivity

The DWL-6620APS provides unparalleled connectivity by using the 802.11ac Wave 2 standard, allowing high combined data rates of 1267 Mbps (867 Mbps[1] for 802.11ac, and 400 Mbps[1] for 802.11n) over the air. Besides the high dual-band throughput connections over the two bands, Wi-Fi Multimedia (WMM) and 802.1p Quality of Service (QoS) can give time-sensitive traffic like VoIP or video streaming Differentiated Services Code Point (DSCP) higher priority ahead of other traffic. Wireless clients can stream media faster and smoother than before using existing devices.

Performance Upgrade

The DWL-6620APS features an upgraded CPU, providing increased performance compared to its predecessor. Bandsteering technology enables the DWL-6620APS 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.

The DWL-6620APS supports 802.11ac wave 2 MU-MIMO technology that enables the access point to communicate with multiple clients simultaneously, resulting in significantly improved network capacity and throughput.

Centrally Manage Your Wireless Network

When working in conjunction with D-Link Unified Controllers, the DWL-6620APS 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 doing so individually. Additionally, Radio Frequency (RF) resource management[2] allows wireless coverage to be managed centrally, providing the best coverage possible for wireless clients.

Smart Antenna Technology

An unreliable connection is the biggest challenge in current Wi-Fi usage. When client devices move to dead spots or out of coverage, the throughput can suddenly drop. Interference from neighboring access points or other sources of co-channel interference are additional factors that inhibit the stability of wireless connections. D-Link Smart antenna system is a complete solution that combines hardware with an embedded software algorithm. The software algorithm integrated with the Wi-Fi driver helps to select the optimal radiation pattern for each client and cooperate with digital beamforming to enhance the antenna gain and achieve the best throughput. The fast channel and bandwidth selection feature scans all channels and selects the cleanest channel with the least interference in a very short timeframe. Null Steering Capability curtails the power in the direction of interference to mitigate its influence. The beam pattern is adapted dynamically per packet basis. With these capabilities, the D-Link Smart Antenna strengthens the connection reliability in real-time and optimizes the wireless user experience.

D-Link Smart Antenna focuses RF power in the direction of connected clients, unlike traditional antennas that uniformly radiate power in all directions.

D-Link Smart Antenna selects optimal radiation patterns and decreases the power in the directions of the interference to mitigate the influence of co-channel interference.

Technical Specifications

General

Hardware Revision	• A1
Interfaces	• 802.11b/g/n 2.4 GHz • Power switch • 802.11a/n/ac Wave 2 5 GHz • Reset button • Two 10/100/1000BASE-T LAN PoE ports • Power connector • One RJ45 console port
Antenna	• 2x2 Internal Smart Antennas
Data Rate	• 2.4 GHz – Up to 400 Mbps[1] • 5 GHz – Up to 867 Mbps[1]

Functionality

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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)
System Management	• Web-based user interface (HTTP/HTTPs) • Telnet/SSH • Command-Line Interface (CLI)

Security

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SSID Security	• Up to 32 SSIDs, 16 per radio • Station Isolation • 802.1Q VLAN
Wireless Security	• WPA/WPA2 Personal/Enterprise • AES and TKIP
Detection & Prevention	• Rogue and valid AP classification
Authentication	• MAC address filtering

Physical

Dimensions	• 220 x 55.45 mm (8.66 x 2.18 in.)	
Weight	• 0.614 kg (1.35 lbs) without bracket	• 0.663 kg (1.46 lbs) with bracket
Power Supply	• External Power Adapter: 12 VDC 2A	• Powered by 802.3at PoE power
Power over Ethernet	• 10/100/1000 Mbps 802.3at PoE input on LAN 1 Port	
Max Power Consumption	• 16.32 W	
Enclosure	• Bottom cover – plastic • Top cover – plastic	• UL2043 certified housing
Temperature	• Operating: 0 to 40 ℃ (32 to 104 ℉)	• Storage: -20 to 65 ℃ (-4 to 149 ℉)
Humidity	• Operating: 10% to 90% non-condensing	• Storage: 5% to 95% non-condensing
Meantime Between Failure (MTBF)	• 925,606 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 • LVD • RCM • NCC • BSMI • UL2043

Radio Patterns[3]: Omni-Directional Mode

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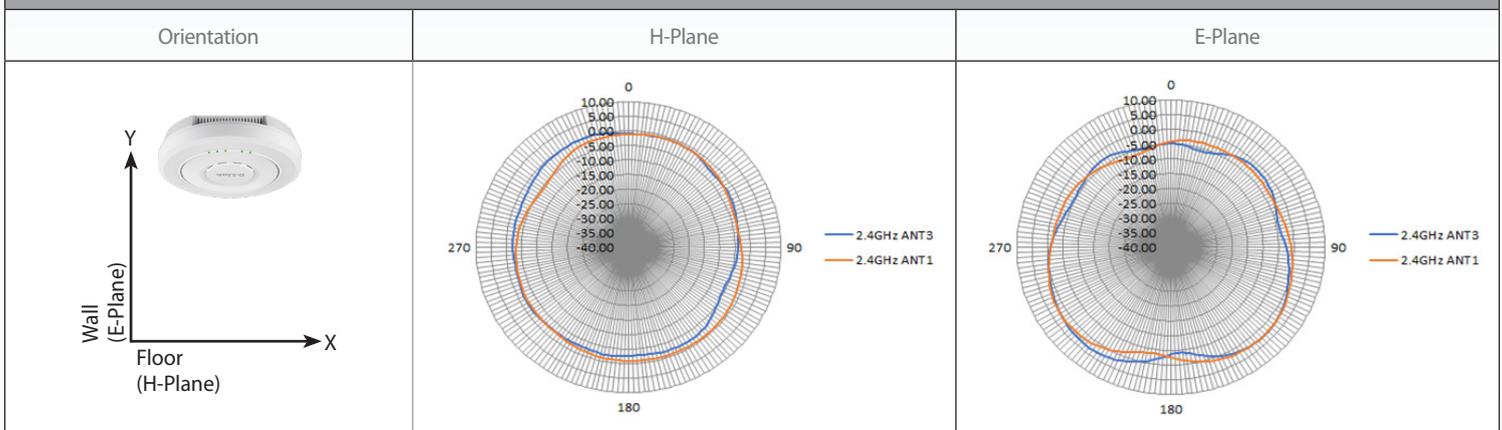
Orientation	H-Plane	E-Plane
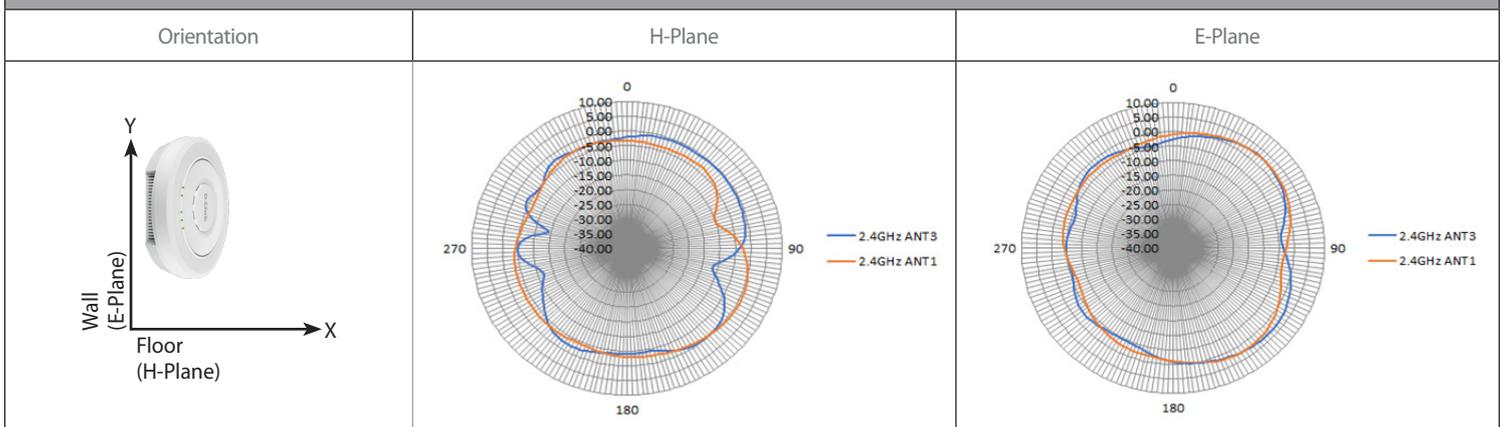
2.4 GHz Antenna Wall Mounted

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

Order Information

Part Number	Description
DWL-6620APS	Dual-Band 802.11n/ac Wave 2 Unified Wireless Access Point

[1] Maximum wireless signal rate derived from IEEE standard 802.11 and 802.11ac specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.
[2] This feature is available when Unified AP is used in conjunction with D-Link's line of Unified Wireless Switches/controllers.
[3] The 2x2 smart antenna supports up to 81sets of radio patterns. The omni-directional mode is one such pattern.

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