

## 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

MU-MIMO and tri-band technology provide optimal wireless experience in high-density environments



## DWL-7620AP

# Wireless AC2200 Wave 2 Tri-Band Unified Access Point

## 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
- UL2043-certified chassis (Plenum-rated)

### High-Performance Connectivity

- Band steering for efficient traffic management
- Airtime Fairness
- 802.11k Fast Roaming<sup>1</sup>
- Supports Link Aggregation<sup>2</sup>

### Trusted Wireless Security Features

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

The Wireless AC2200 Wave 2 Tri-Band Unified Access Point 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. It can operate as a standalone access point as well as be centrally managed by D-Link's Unified Wireless Controllers. The DWL-7620AP can be ceiling mounted or wall mounted to provide the best wireless coverage. For additional flexibility, it comes with integrated Power over Ethernet (PoE) support, allowing the access point to be installed in areas where power outlets are not readily available.

## Greater Speed and Connectivity

The DWL-7620AP leverages the full potential of 802.11ac Wave 2 to provide unparalleled connectivity with ultra-high combined data rates. It delivers combined wireless speeds of up to 2,200 Mbps<sup>3</sup> over 3 wireless bands and supports wired link aggregation<sup>2</sup>. This 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

With support for MU-MIMO (Multi-User Multiple Input Multiple Output), the DWL-7620AP 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 2 x 2 MU-MIMO takes full advantage of all streams to serve more wireless clients to dramatically improve wireless performance.

## Tri-Band Wi-Fi

The DWL-7620AP is equipped with tri-band wireless technology featuring one 2.4 GHz and two 5 GHz wireless bands to accommodate the increasing number of devices connecting to a single access point. By allowing older 802.11b/g/n devices to connect to the 2.4 GHz, the two 5 GHz bands can be dedicated to newer, faster wireless AC devices to enjoy seamless bandwidth-intensive applications such as HD video streaming, VoIP and file sharing.

Thanks to intelligent band steering technology, the DWL-7620AP can also efficiently load balance the clients and traffic between the three wireless bands to ensure all wireless clients have a better user experience high density environment.

### Centrally Managed

When working in conjunction with D-Link Unified Wireless Controllers, multiple units of DWL-7620AP can be centrally managed. This allows for a large number of access points to be deployed and managed easily and efficiently. Once the access points 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<sup>1</sup> 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-7620AP senses a neighbour nearby, it will automatically select a non-interfering channel. This greatly reduces RF interference and will allow the administrator to deploy access points more densely. To further minimise interference, when a nearby AP is on the same channel, the DWL-7620AP will automatically lower its transmission power<sup>1</sup>. If the nearby access point fails, then this access point will increase its transmission power to expand coverage.

### Advanced Wireless Features

The DWL-7620AP 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 it 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<sup>1</sup> is also supported, which allows the wireless client to roam seamlessly between access points.



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.

## Technical Specifications

### General

Wireless Interface	<ul style="list-style-type: none"> <li>• IEEE 802.11b/g/n 2.4 GHz wireless</li> <li>• IEEE 802.11/a/n/ac Wave 2 5 GHz wireless</li> </ul>
MIMO	<ul style="list-style-type: none"> <li>• 2 x 2</li> </ul>
Data Rate <sup>3</sup>	<ul style="list-style-type: none"> <li>• 2.4 GHz - Up to 400 Mbps</li> <li>• 5 GHz (1) - Up to 867 Mbps</li> <li>• 5 GHz (2) - Up to 867 Mbps</li> </ul>
Antenna	<ul style="list-style-type: none"> <li>• Internal omnidirectional antennas               <ul style="list-style-type: none"> <li>• 2.4 GHz: 3 dBi</li> <li>• 5 GHz: 4 dBi</li> </ul> </li> </ul>
Operating Frequency	<ul style="list-style-type: none"> <li>• 2400 to 2483.5 MHz</li> <li>• 5150 to 5850 MHz</li> </ul>
Operating Channels	<ul style="list-style-type: none"> <li>• 1 to 13 channels for 2.4 GHz band (per country code)</li> <li>• 36 to 165 channels for 5 GHz band (per country code)</li> </ul>
Ethernet Interface	<ul style="list-style-type: none"> <li>• 2 x 10/100/1000BASE-T LAN port</li> </ul>
Console Port	<ul style="list-style-type: none"> <li>• RJ-45</li> </ul>

### Functionality

Advanced Features	<ul style="list-style-type: none"> <li>• Auto Channel selection</li> <li>• 802.1p Quality of Service (QoS)</li> <li>• Wireless Multimedia (WMM)</li> <li>• Wireless Distribution System (WDS)           <ul style="list-style-type: none"> <li>• Band steering</li> <li>• Airtime Fairness</li> <li>• Link Aggregation<sup>2</sup></li> </ul> </li> <li>• IEEE 802.11k Fast Roaming<sup>1</sup></li> </ul>
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### Management

Operating Mode	<ul style="list-style-type: none"> <li>• Standalone mode</li> <li>• Managed mode - Centrally managed by D-Link Wireless Controller</li> </ul>
Management Interfaces	<ul style="list-style-type: none"> <li>• Web-based User Interface (Web UI)           <ul style="list-style-type: none"> <li>• Telnet/SSH</li> </ul> </li> <li>• Command Line Interface (CLI)           <ul style="list-style-type: none"> <li>• SNMP v1/v2c/v3</li> </ul> </li> </ul>

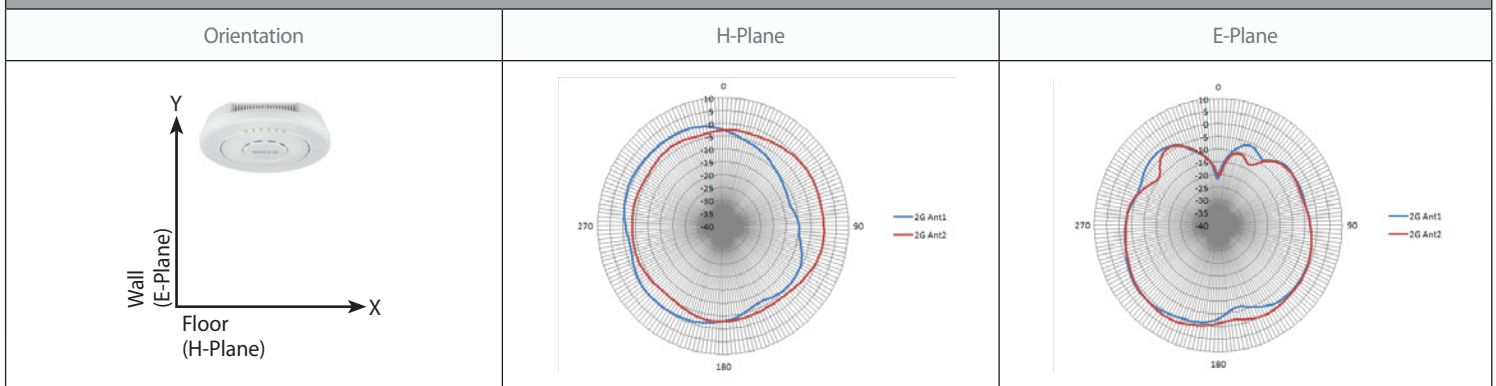
### Security

SSID Security	<ul style="list-style-type: none"> <li>• Up to 32 SSIDs, 16 per radio           <ul style="list-style-type: none"> <li>• 802.1Q VLAN</li> <li>• Station Isolation</li> </ul> </li> </ul>
Wireless Security	<ul style="list-style-type: none"> <li>• WPA/WPA2 Personal/ Enterprise           <ul style="list-style-type: none"> <li>• AES</li> <li>• TKIP</li> </ul> </li> </ul>
Detection & Prevention	<ul style="list-style-type: none"> <li>• Rogue and Valid AP Classification</li> </ul>
Authentication	<ul style="list-style-type: none"> <li>• MAC Address Filtering</li> </ul>

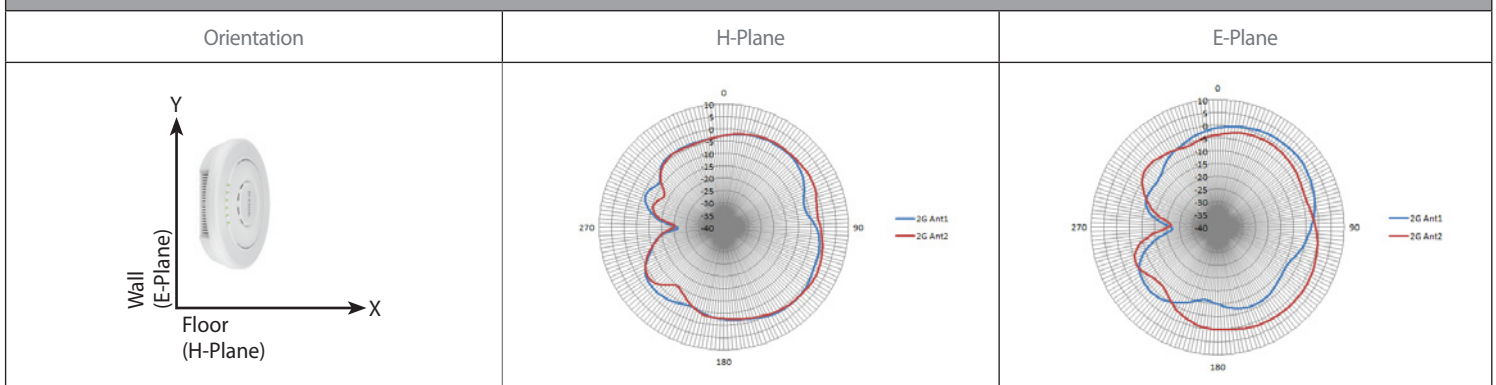
Physical	
Dimensions	• Ø205 x 39 mm (Ø8.07 x 1.54 in)
Weight	• 0.57 kg (1.26 lbs) w/o bracket • 0.62 kg (1.37 lbs) w bracket
Power Supply	• External power adapter: 12 V DC 2.5 A (not included) • Supports 802.3at PoE PD on LAN 1 Port
Power over Ethernet	• IEEE 802.3at
Maximum Power Consumption	• 20 W
Enclosure	• Bottom cover – plastic • Top cover – plastic • UL2043-certified chassis
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	• 753,019 hours
Certifications	• CE, FCC, IC, cUL+UL, CB, RCM, NCC, BSMI, UL2043 • EN55032, EN55024, EN61000-3-2, EN61000-3-3, EN60601-1-2 (Medical electrical equipment), EN301489-1, EN301489-17, EN300328, EN301893

### Radio Patterns

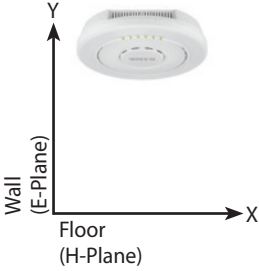
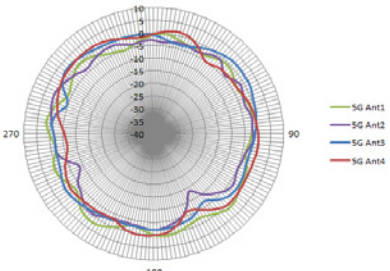
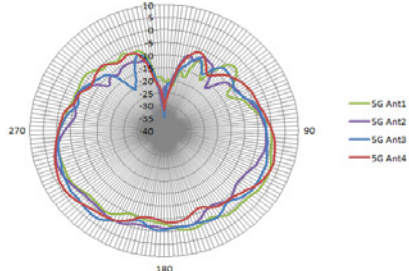
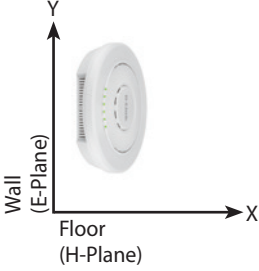
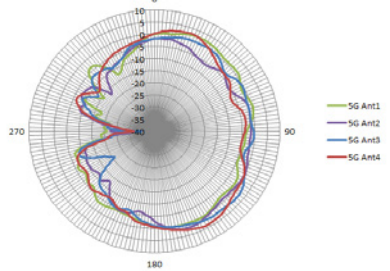
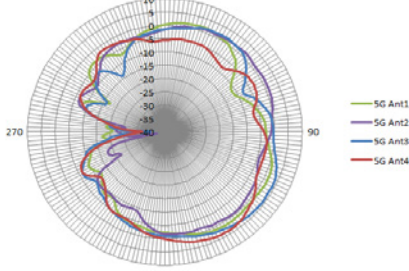
#### 2.4 GHz Antenna Ceiling Mounted



#### 2.4 GHz Antenna Wall Mounted



# Wireless AC2200 Wave 2 Tri-Band Unified Access Point

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

<sup>1</sup> This feature is available when Unified AP is used in conjunction with D-Link's line of Unified Wireless Controllers.

<sup>2</sup> Support static Link Aggregation (LAG).

<sup>3</sup> 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 materials and construction, and network overhead, lower actual data throughput rate. Environmental factors may adversely affect wireless signal range.



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

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