

Product Highlights

Next Generation Connectivity

Ideal for small to medium enterprises with dual-band support for 802.11n and 802.11ac devices and over 1 Gbps throughput for reliable connections

Unparalleled Performance

Experience smooth and stable performance with a powerful CPU, bandsteering for managing traffic and airtime fairness to ensure that every client has equal access to air time

Versatile Management

Deployment is efficient and easy with a self-configuring cluster mode for simplified setup and RF resource management for signal weakness detection



DWL Series

Unified AC Wireless Access Points

Features

Ideal for Business

- Self-configuring cluster, provides effortless provisioning
- Multiple virtual access points may 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 SKU)

High-Performance Connectivity

- Band-steering for efficient traffic management
- Airtime Fairness
- 802.11k Fast Roaming¹

Trusted Wireless Security Features

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

D-Link DWL Series Unified AC Wireless Access Points are specially designed for small to medium enterprises, providing unparalleled bandwidth and flexibility for administrators looking to deploy a medium to large scale Wi-Fi network. Not only operating in standalone mode, D-Link Unified AC Wireless Access Points can be centrally managed by D-Link Unified Wireless Controllers and Switches. D-Link Unified AC Wireless Access Points integrate seamlessly into existing network infrastructure and can be easily scaled to meet future demands. The DWL Series Access Points are highly manageable and capable of blazing speeds.

Greater Speed and Connectivity

A powerful embedded CPU enables the D-Link Unified AC Wireless Access Points to provide increased performance and better wireless experience. Featuring IEEE 802.11ac technology on the 5 GHz band and IEEE 802.11n on the 2.4GHz band, D-Link Unified AC Wireless Access Points allow you to deploy more devices and provide greater throughput for your wireless clients. Omnidirectional antennas extend the reach, eliminating dead spots and filling hard-to-reach places.

Easy to Install

D-Link Unified AC Wireless Access Points can be ceiling mounted or wall mounted to meet the needs of any wireless application. D-Link Unified AC Wireless Access Points have integrated Power over Ethernet (PoE) support, allowing the devices to be installed in areas where power outlets are not readily available. The DWL-8710AP is IP67-compliant and is designed to operate in harsh outdoor environments and temperatures ranging from -30 up to 60 °C. In addition, all network interfaces on the DWL series are protected against electrical surges, enabling the devices to be placed in areas where there is a risk of being struck by lightning.

Self-Configuring Cluster

For small businesses that need to deploy multiple APs but lack the resources for complex network management, D-Link Unified AC Wireless Access Points self-configuring clusters allow a small number of access points to be set to form a self-configuring cluster. Once the administrator configures one access point, the same configuration can then be applied to all the remaining APs, making setting up your wireless business network a breeze.

Centrally Managed

When working in conjunction with D-Link Unified Controllers, the Unified AC Wireless Access Points 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 management¹ allows wireless coverage to be managed centrally, providing the best coverage possible for wireless clients.

Automatic Radio Frequency (RF) Management

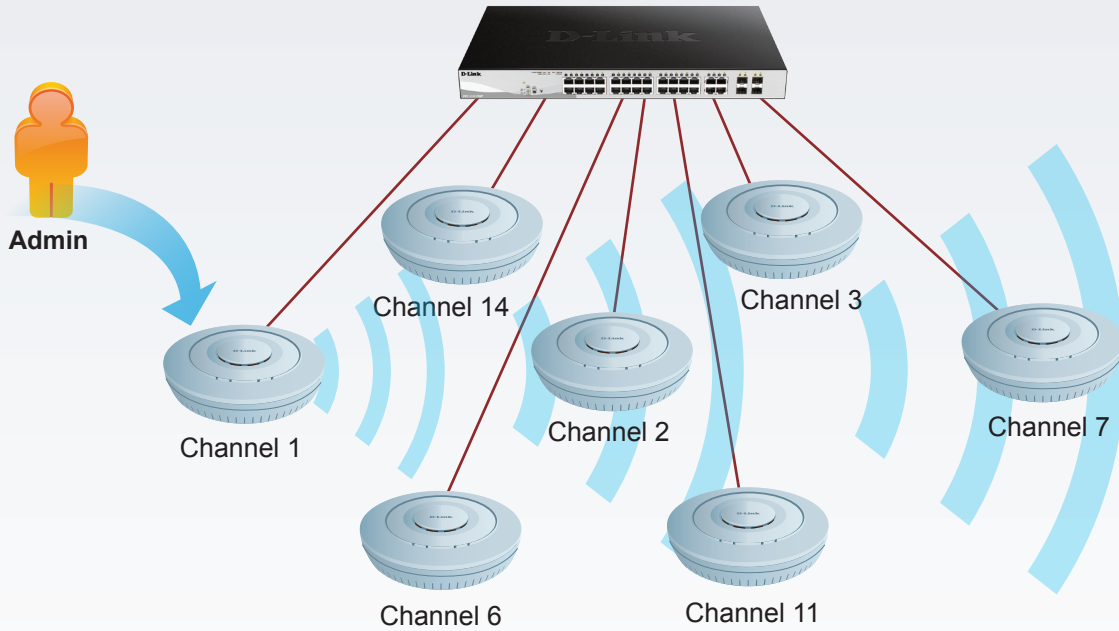
When access points are deployed in close proximity to each other, there may be interference between channels if RF management is not implemented. When a D-Link Unified AC Access Point senses a neighbor nearby, it will automatically select a non-interfering channel. This greatly reduces RF interference and will allow the administrator to deploy APs more densely.

To further minimize interference, when a nearby AP is on the same channel, the D-Link Unified AC Access Point will automatically lower its transmission power¹. When, for whatever reason, the nearby AP is no longer present, the access point will increase its transmission power to expand coverage.

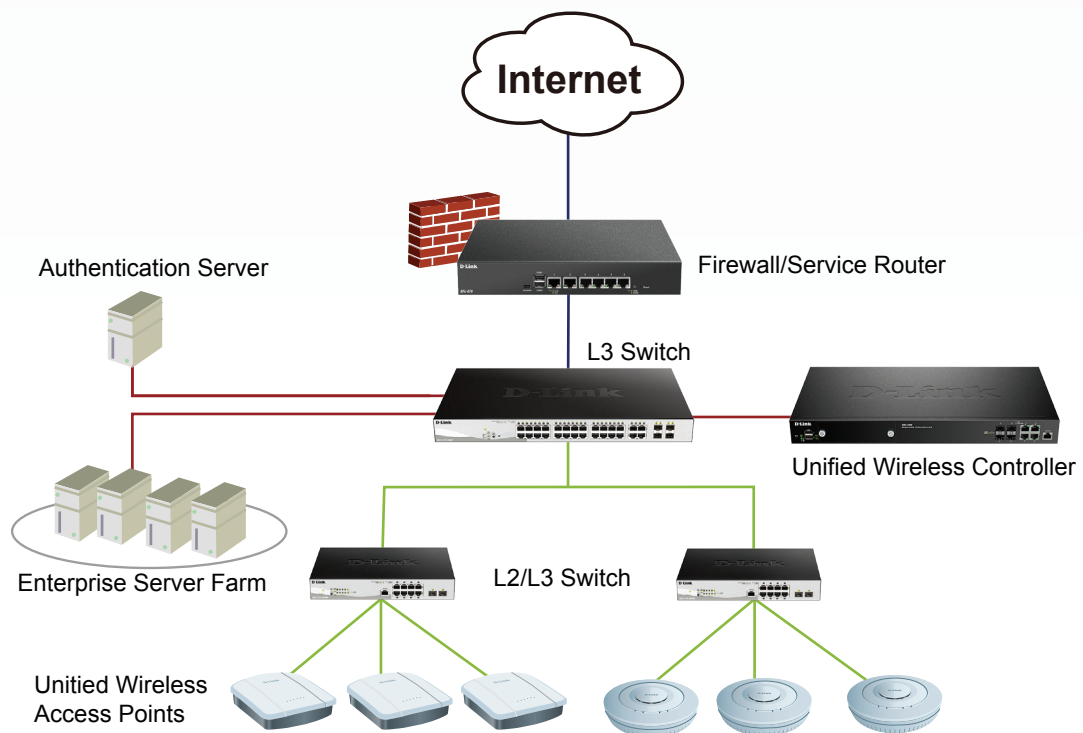
Advanced Wireless Features

D-Link Unified AC Access Points support 802.1p Quality of Service (QoS) for enhanced throughput and better performance of time-sensitive traffic like VoIP and streaming DSCP. D-Link Unified AC Access Points support 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 utilized, allowing the association request to be picked up by a neighboring unit, distributing the load over multiple APs. Band-steering technology enables D-Link Unified AC Access Points 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 roaming¹ is also supported,^d which allows the wireless client to roam seamlessly from one D-Link Unified AC AP to another.

Self-Clustering Implementation in a Small Enterprise Environments



L2/L3 network implementation in Medium to Large Enterprise Environments



Technical Specifications

General

Model Name	DWL-3610AP	DWL-6610AP	DWL-6610APE	DWL-8610AP	DWL-8710AP
Hardware Version	• A1	• B1	• B1	• A1	• A1
Wireless Interface	• 802.11b/g/n 2.4 GHz wireless • 802.11ac/a/n 5 GHz wireless	• 802.11b/g/n 2.4 GHz wireless • 802.11ac/a/n 5 GHz wireless	• 802.11b/g/n 2.4 GHz wireless • 802.11ac/a/n 5 GHz wireless	• 802.11b/g/n 2.4 GHz wireless • 802.11ac/a/n 5 GHz wireless	• 802.11b/g/n 2.4 GHz wireless • 802.11ac/a/n 5 GHz wireless
MIMO	• 2x2	• 2x2	• 2x2	• 3x3	• 2x2
Data Rate ²	• 2.4GHz - Up to 300Mbps 5GHz - Up to 867Mbps	• 2.4GHz - Up to 300Mbps 5GHz - Up to 867Mbps	• 2.4GHz - Up to 300Mbps 5GHz - Up to 867Mbps	• 2.4GHz - Up to 450Mbps 5GHz - Up to 1300Mbps	• 2.4GHz - Up to 300Mbps 5GHz - Up to 867Mbps
Antenna	• Internal omnidirectional antennas • 3 dBi for 5 GHz, 3 dBi for 2.4 GHz	• Internal omnidirectional antennas • 4 dBi for 5 GHz, 4 dBi for 2.4 GHz	• External dual-band omnidirectional antennas • 4 dBi for 5 GHz, 3 dBi for 2.4 GHz	• Internal omnidirectional antennas • 6.5 dBi for 5 GHz, 5 dBi or 2.4 GHz	• 2 x 7 dBi gain for 5 GHz radio • 2 x 5 dBi gain for 2.4 GHz radio • 4 external omnidirectional antennas included
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	• 1 10/100/1000BASE-T LAN port	• 1 10/100/1000BASE-T LAN port	• 1 10/100/1000BASE-T LAN port	• 2 10/100/1000BASE-T LAN ports	• 2 10/100/1000BASE-T LAN port
Console Port	• RJ45	• RJ45	• RJ45	• RJ45	—

Functionality

Auto Channel Selection	✓	✓	✓	✓	✓
802.1p QoS	✓	✓	✓	✓	✓
WMM	✓	✓	✓	✓	✓
WDS	✓	✓	✓	✓	✓
Band-Steering	—	✓	✓	✓	✓
Airtime Fairness	✓	✓	✓	—	—
Fast Roaming	• 802.11k	• 802.11k	• 802.11k	• 802.11k	• 802.11k

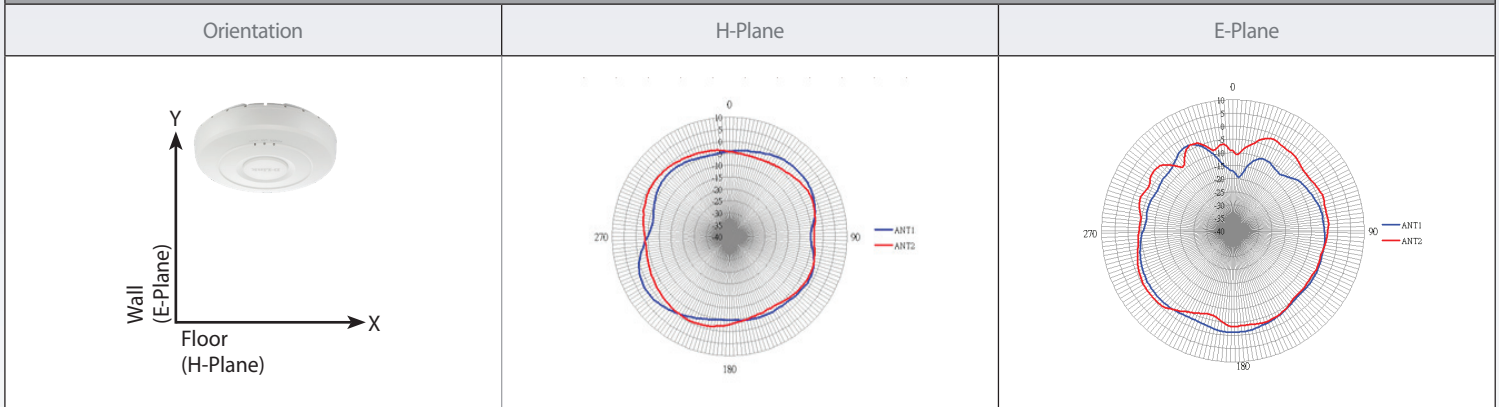
Management

Operating Mode	• Standalone Mode • Managed Mode - Centrally managed by D-Link Wireless Controller				
Web User Interface	✓	✓	✓	✓	✓
Telnet/SSH	✓	✓	✓	✓	✓
CLI	✓	✓	✓	✓	✓
SNMP	• v1/v2c/v3	• v1/v2c/v3	• v1/v2c/v3	• v1/v2c/v3	—

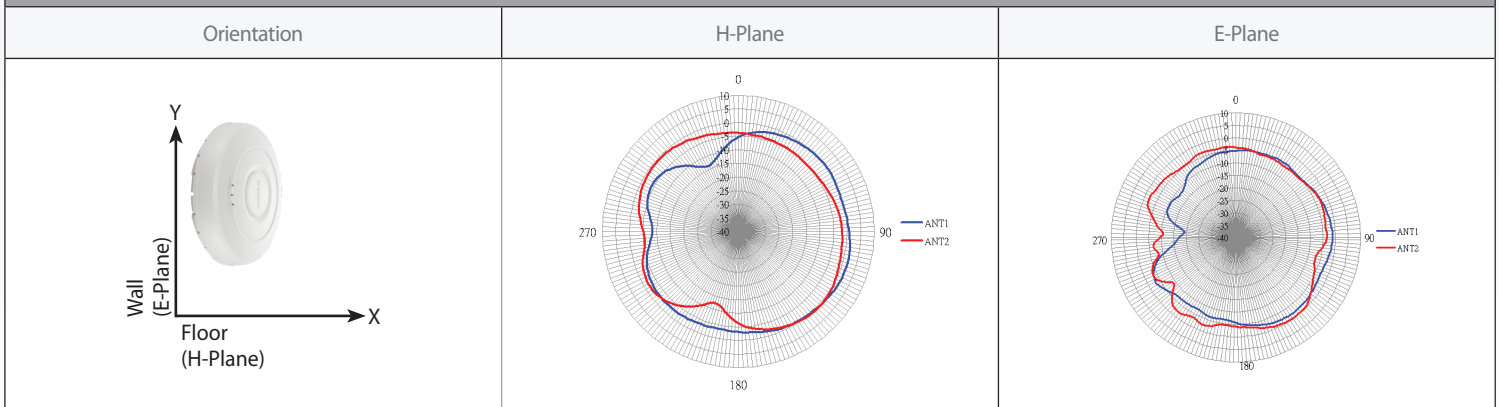
Security					
Model Name	DWL-3610AP	DWL-6610AP	DWL-6610APE	DWL-8610AP	DWL-8710AP
SSID Security	<ul style="list-style-type: none"> Up to 16 SSIDs 802.1Q VLAN Station Isolation 	<ul style="list-style-type: none"> Up to 32 SSIDs, 16 per radio 802.1Q VLAN Station Isolation 			
Wireless Security	<ul style="list-style-type: none"> WPA/WPA2 Personal/ Enterprise AES TKIP 				
Detection & Prevention	<ul style="list-style-type: none"> Rogue and Valid AP Classification 				
Authentication	<ul style="list-style-type: none"> MAC Address Filtering 				
Physical					
Dimensions	• 160 x 45 mm (6.30 x 1.77 in)	• 205 x 39 mm (8.07 x 1.54 in)	• 205 x 39 mm (8.07 x 1.54 in)	• 198 x 171 x 40 mm (7.8 x 6.7 x 1.6 in)	• 250 x 220 x 45 mm (9.48 x 8.66 x 1.77 in) excluding mounting base
Weight	• 0.26 kg (0.57 lbs)	• 0.476 kg (1.05 lbs)	• 0.476 kg (1.05 lbs)	• 0.862 kg (1.9 lbs)	<ul style="list-style-type: none"> 2.053 kg (4.53 lbs) with antennas attached 1.795 kg (3.96 lbs) without antennas attached
Power Supply	<ul style="list-style-type: none"> External Power Adapter: 12VDC 1A Supports 802.3af PoE PD on LAN 1 Port 	<ul style="list-style-type: none"> External Power Adapter: 12VDC 1.5A Supports 802.3af PoE PD on LAN 1 Port 	<ul style="list-style-type: none"> External Power Adapter: 12VDC 1.5A Supports 802.3af PoE PD on LAN 1 Port 	<ul style="list-style-type: none"> External Power Adapter: 12VDC 2A Supports 802.3at PoE PD on LAN 1 Port 	<ul style="list-style-type: none"> PoE-powered through port LAN1 marked PoE-Input
Power over Ethernet	• IEEE 802.3af compliant Power over Ethernet	• IEEE 802.3af compliant Power over Ethernet	• IEEE 802.3af compliant Power over Ethernet	• IEEE 802.3at compliant Power over Ethernet	• IEEE 802.3at compliant Power over Ethernet
Power Consumption	• 6.2 W maximum	• 10.2 W maximum	• 10.2 W maximum	• 12.95 W maximum	• 16.5 W maximum
Enclosure	<ul style="list-style-type: none"> Bottom cover – plastic Top cover – plastic 	<ul style="list-style-type: none"> Bottom cover – plastic Top cover – plastic UL2043 certified chassis 	<ul style="list-style-type: none"> Bottom cover – plastic Top cover – plastic 	<ul style="list-style-type: none"> Bottom cover – metal Top cover – plastic UL2043 certified (for plenum-rated SKU only) 	<ul style="list-style-type: none"> Metal and polycarbonate IP67-rated housing GORE® Vent
Temperature	<ul style="list-style-type: none"> Operating: 0 to 40 °C (32 to 104 °F) Storage: -20 to 65 °C (-4 to 149 °F) 				<ul style="list-style-type: none"> Operating: -40 to 70 °C (-40 to 158 °F) Storage: -40 to 70 °C (-40 to 158 °F)
Humidity	<ul style="list-style-type: none"> Operating: 10% to 90% non-condensing Storage: 5% to 95% non-condensing 				
Meantime Between Failure (MTBF)	• 1,179,647 hours	• 1,032,143 hrs	• 1,032,143 hrs	• 330,161 hrs	• 518,191 hrs
Certifications	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> CE EN55032, EN55024, EN61000-3-2, EN61000-3-3, EN301489-1, EN301489-17, EN300328, EN301893 FCC IC cUL+UL LVD RCM VCCI NCC BSMI Wi-Fi certificate TELEC UL2043 (for plenum-rated SKU only) 	<ul style="list-style-type: none"> CE EN55032, EN55024, EN61000-3-2, EN61000-3-3, EN301489-1, EN301489-17, EN300328, EN301893 FCC IC cUL+UL LVD RCM NCC BSMI Wi-Fi certificate

Radio Patterns: DWL-3610AP

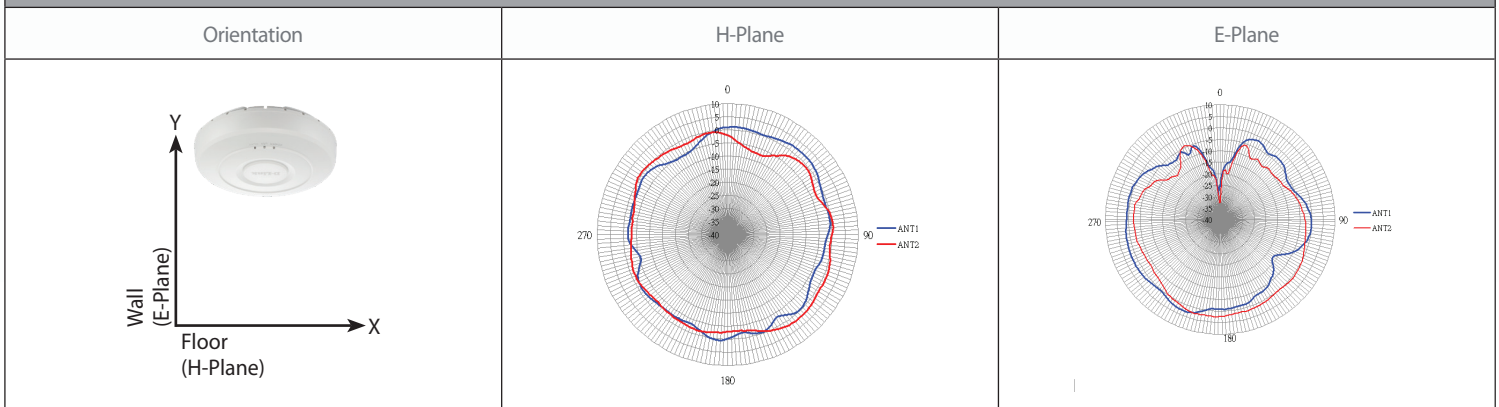
2.4 GHz Antenna Ceiling Mounted



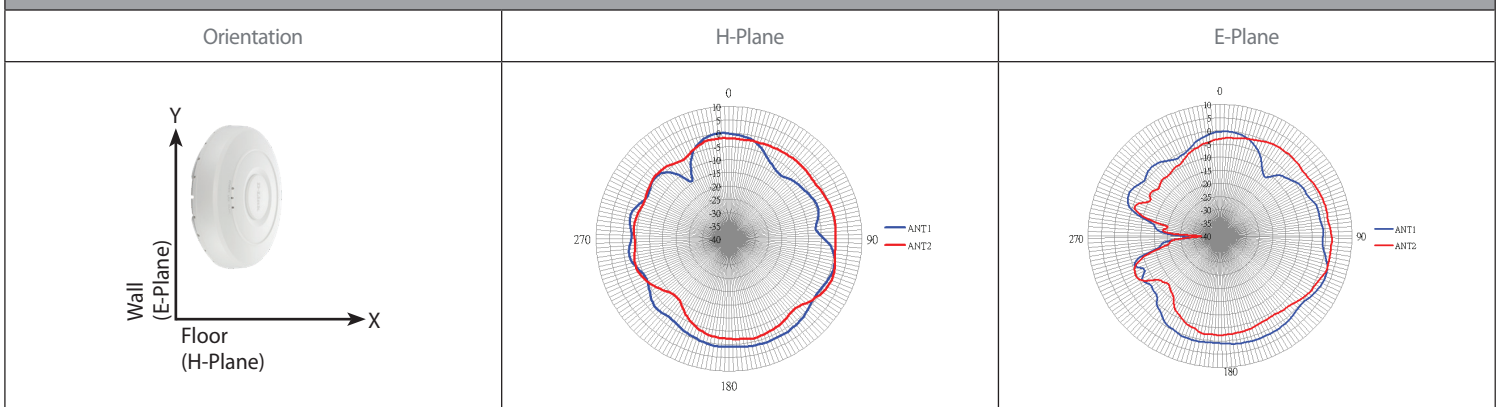
2.4 GHz Antenna Wall Mounted



5 GHz Antenna Ceiling Mounted

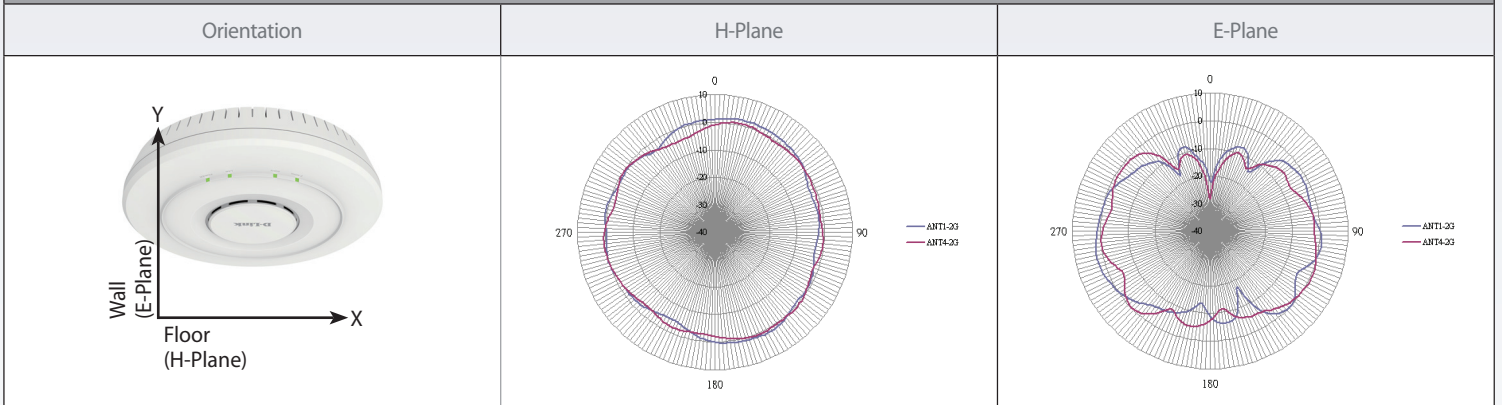


5 GHz Antenna Wall Mounted

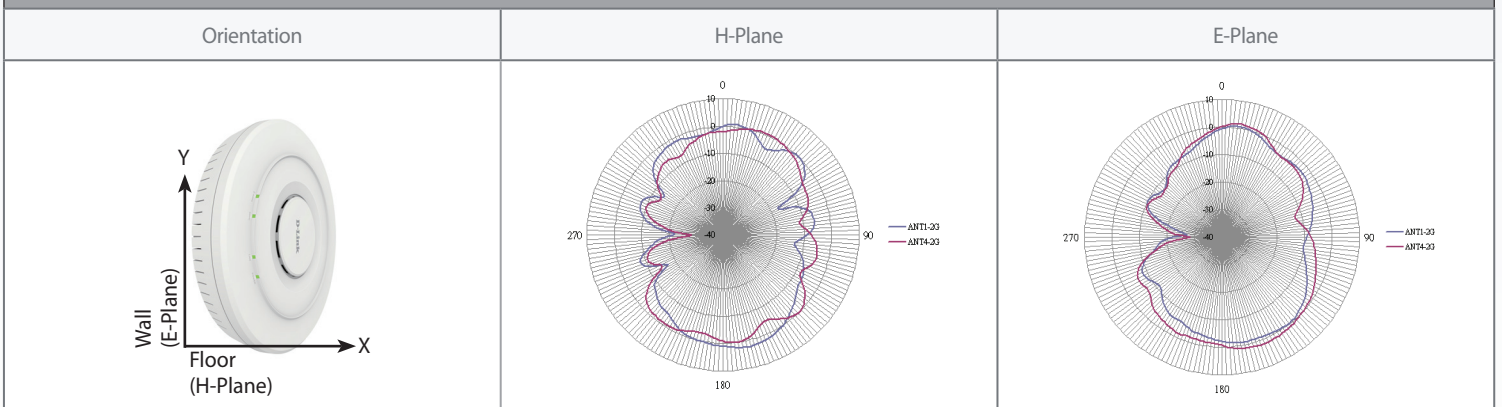


Radio Patterns: DWL-6610AP

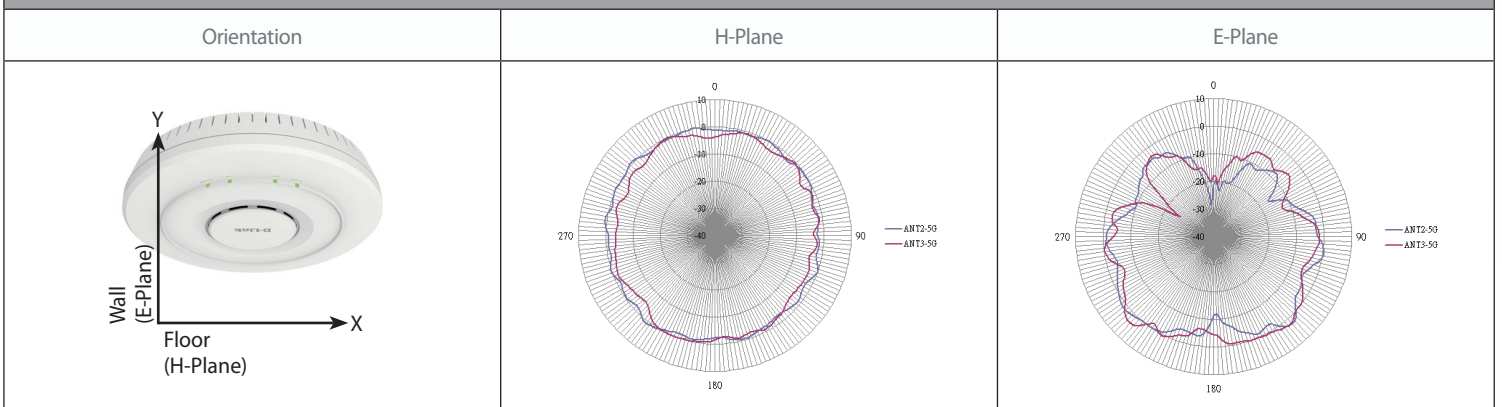
2.4 GHz Antenna Ceiling Mounted



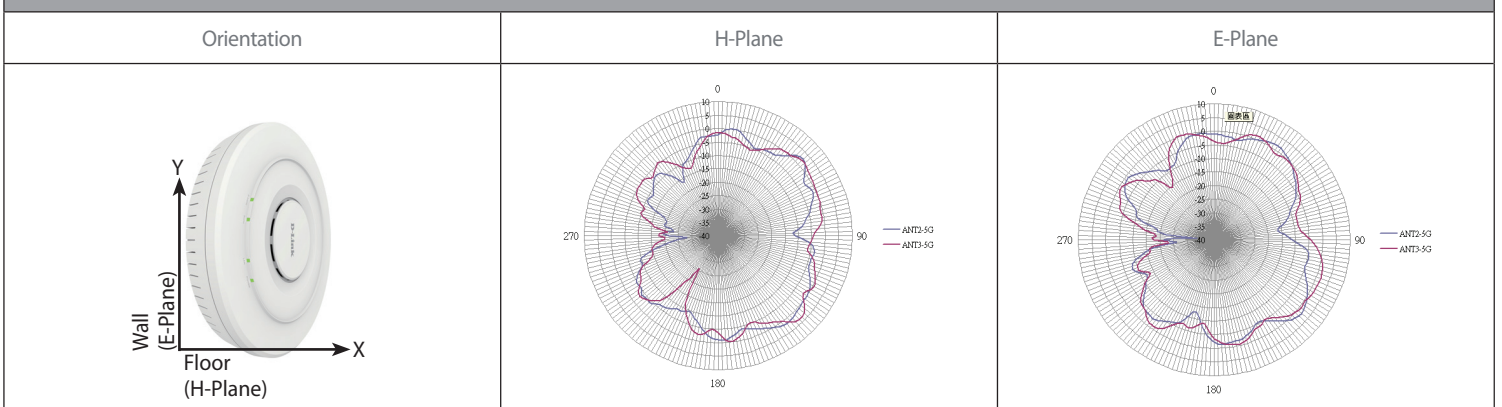
2.4 GHz Antenna Wall Mounted



5 GHz Antenna Ceiling Mounted

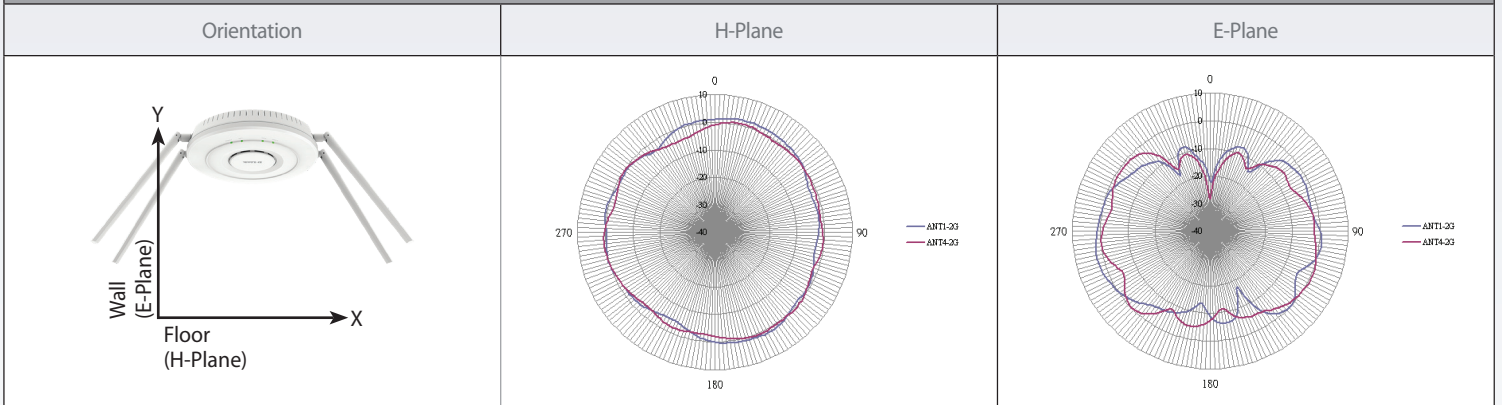


DWL-6610AP 5 GHz Antenna Wall Mounted

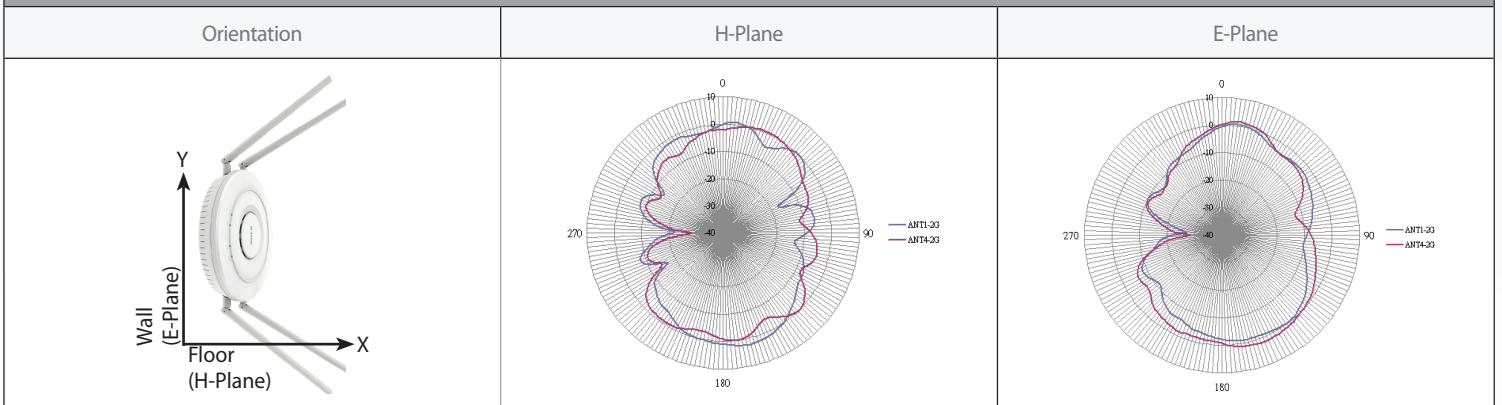


Radio Patterns: DWL-6610APE

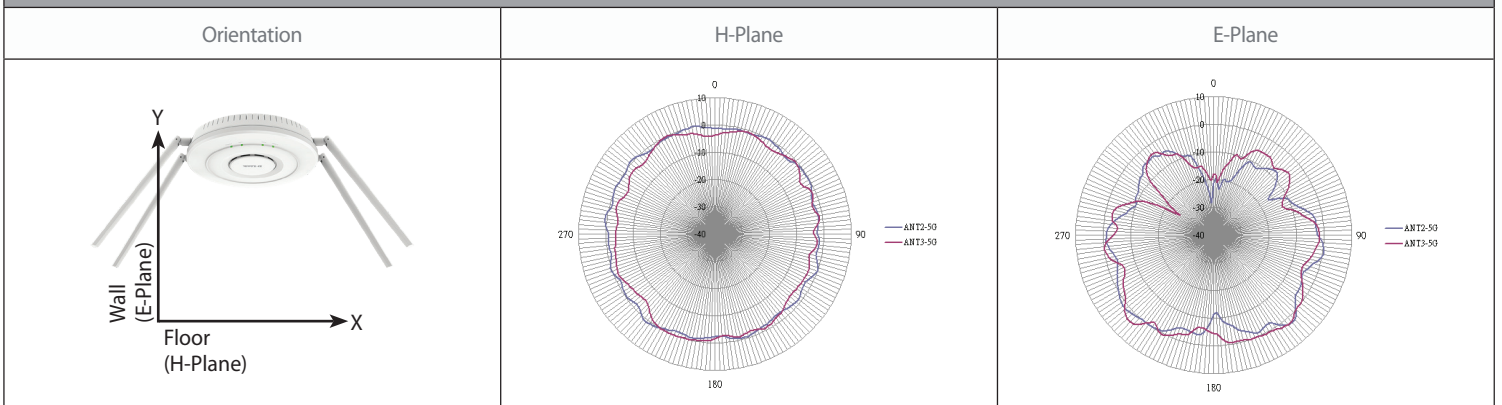
DWL-6610APE 2.4 GHz Antenna Ceiling Mounted



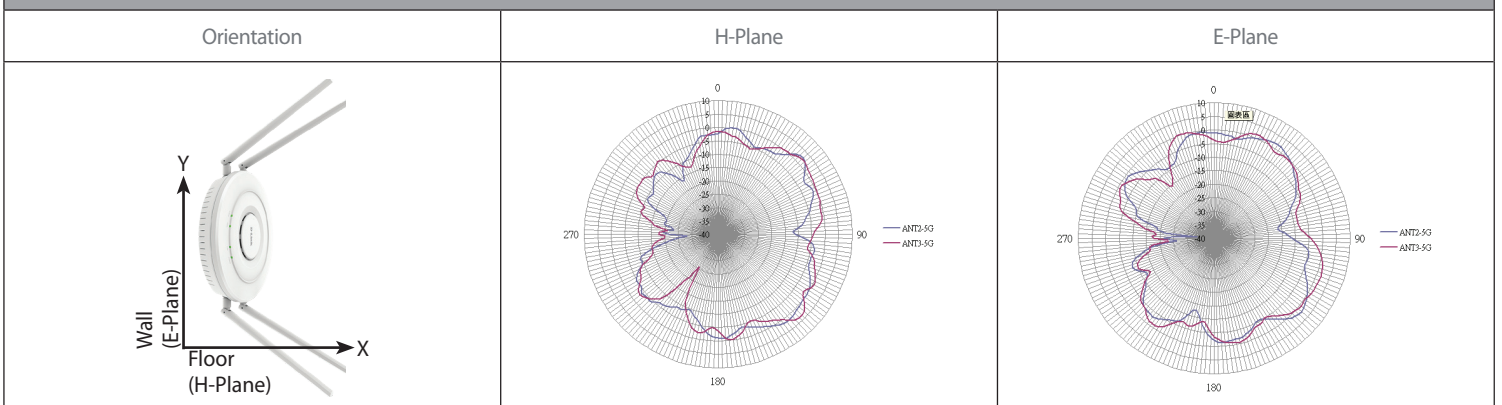
DWL-6610APE 2.4 GHz Antenna Wall Mounted



DWL-6610APE 5 GHz Antenna Ceiling Mounted

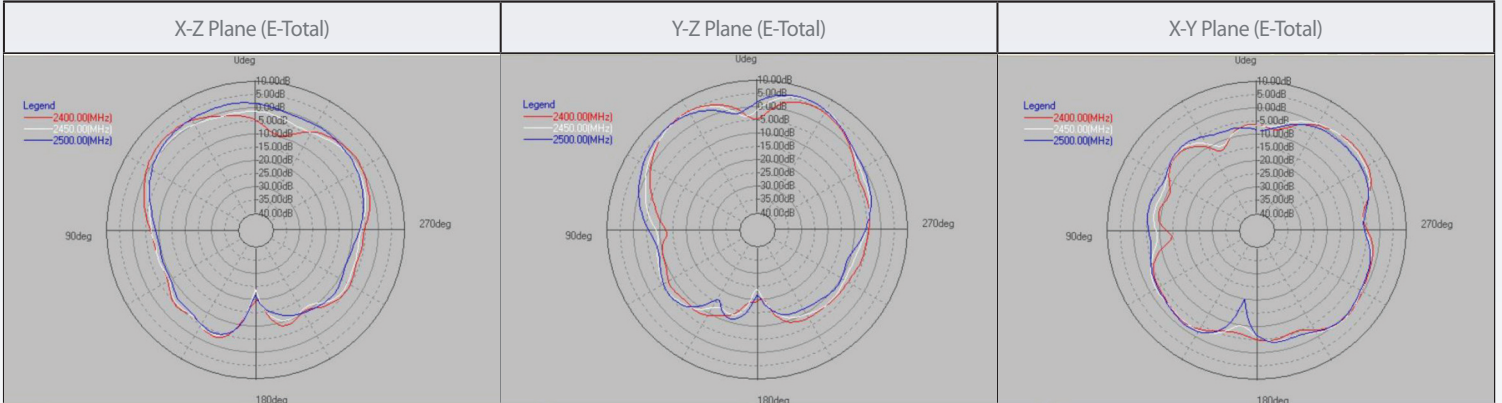


DWL-6610APE 5 GHz Antenna Wall Mounted

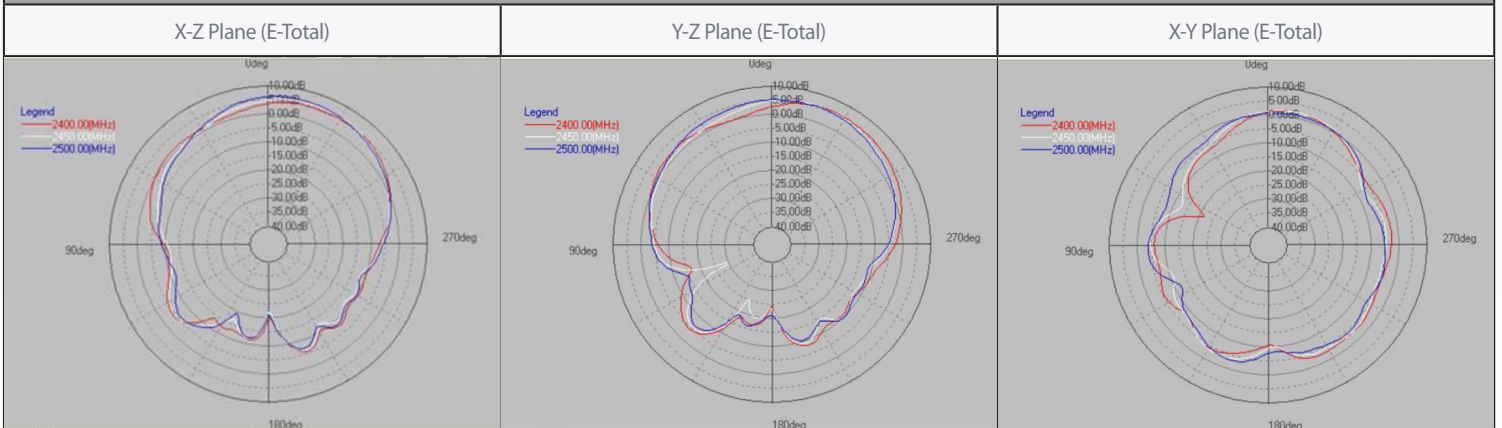


Radio Patterns: DWL-8610AP

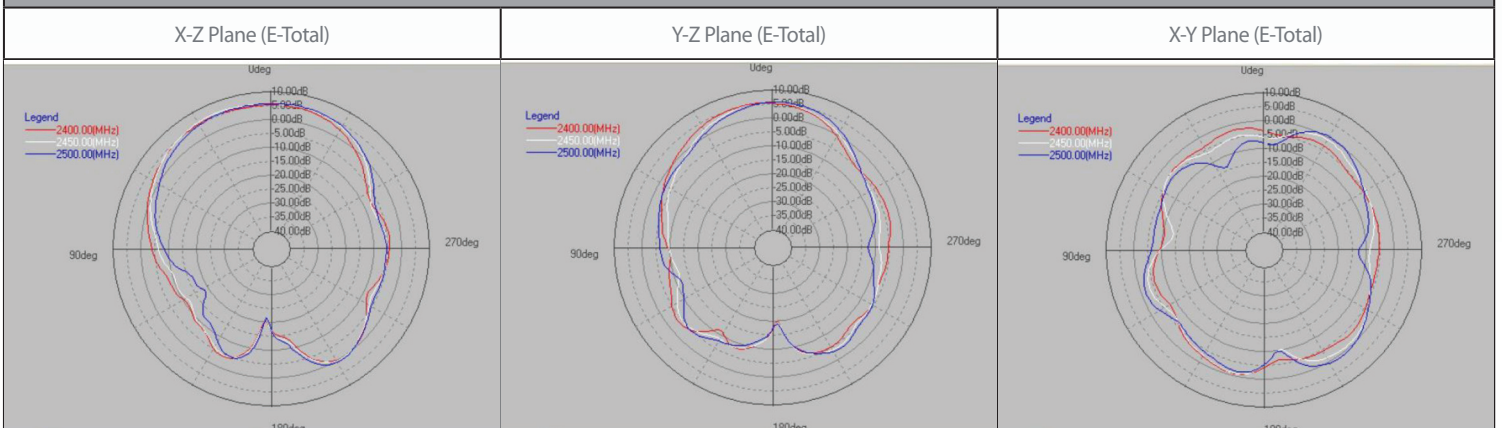
2.4 GHz Antenna 1



2.4 GHz Antenna 2

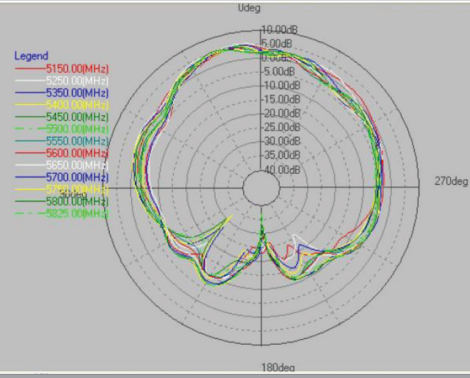


2.4 GHz Antenna 3

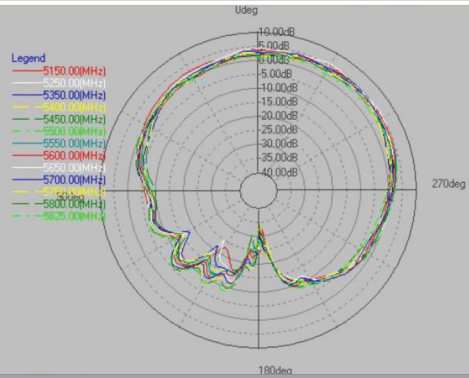


5 GHz Antenna 1

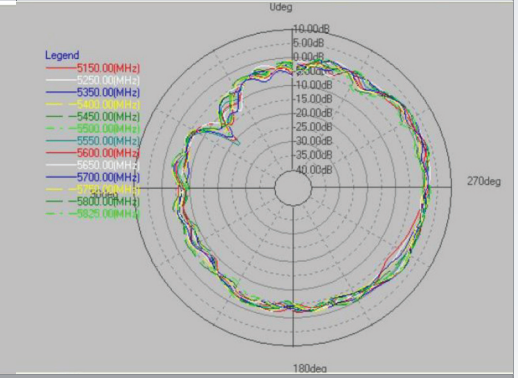
X-Z Plane (E-Total)



Y-Z Plane (E-Total)

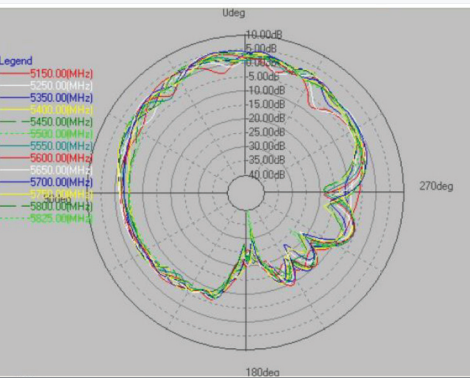


X-Y Plane (E-Total)

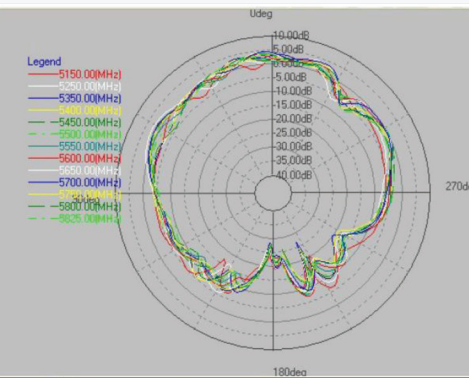


5 GHz Antenna 2

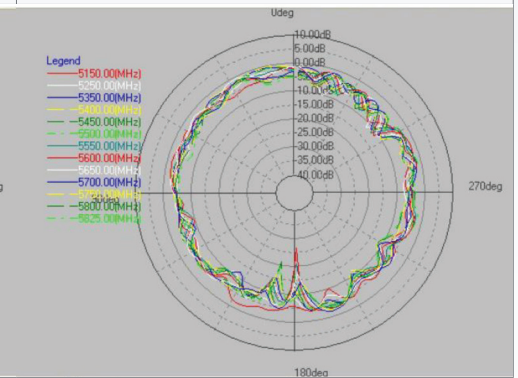
X-Z Plane (E-Total)



Y-Z Plane (E-Total)

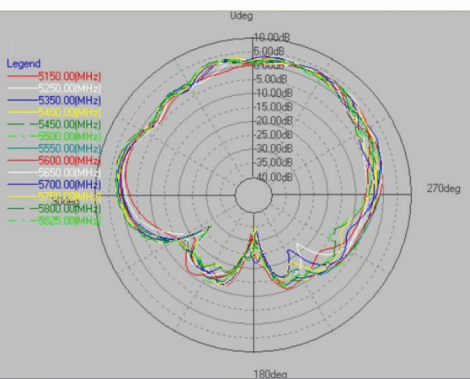


X-Y Plane (E-Total)

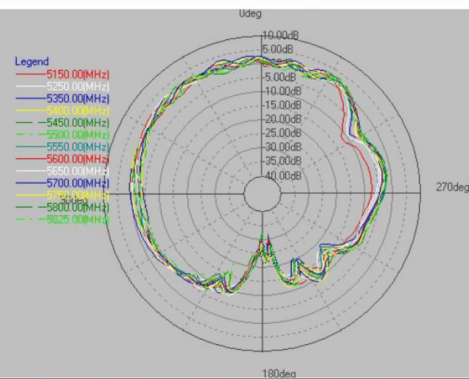


5 GHz Antenna 3

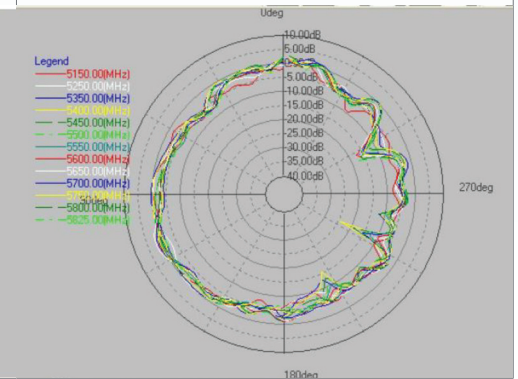
X-Z Plane (E-Total)



Y-Z Plane (E-Total)


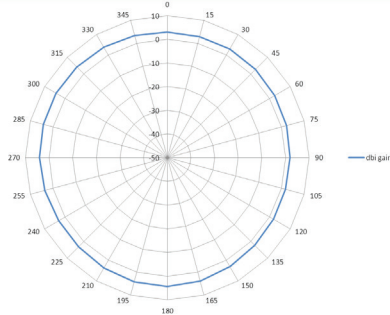
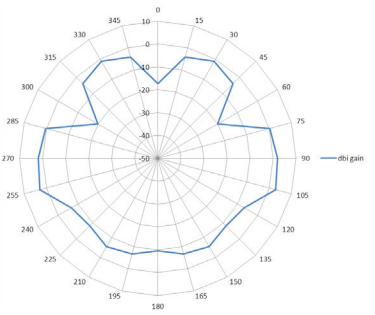


X-Y Plane (E-Total)


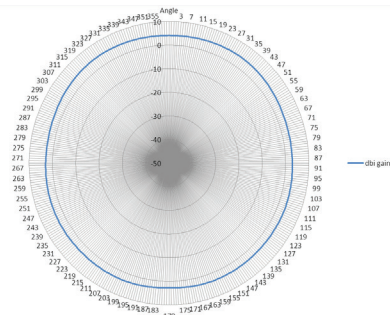
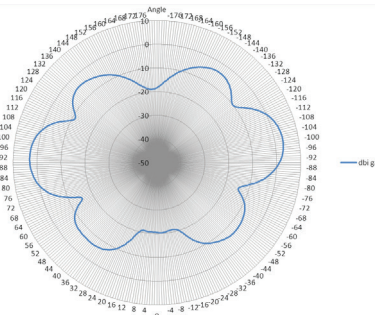


Radio Patterns: DWL-8710AP

Radio Pattern 2.4 GHz Antenna

Orientation	H-Plane	E-Plane
		

AP Radio Pattern 5 GHz Antenna

Orientation	H-Plane	E-Plane
		

Order Information

Part Number	Description
DWL-3610AP	Selectable Dual-band 802.11n/ac Unified Wireless Access Point
DWL-6610AP	Dual-band 802.11n/ac Unified Wireless Access Point
DWL-6610APE	Dual-band 802.11n/ac Unified Wireless Access Point
DWL-8610AP	Dual-band 802.11n/ac Unified Wireless Access Point
DWL-8710AP	Dual-band 802.11n/ac Unified Wireless Outdoor Access Point

¹ This feature is available when Unified AP is used in conjunction with D-Link's line of Unified Wireless Switches/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 materials and construction, and network overhead, lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.

Unified AC Wireless Access Points