D-Link
Building Networks for People

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 combined speed for reliable connections

Unparalleled Levels of Performance

Experience smooth and stable performance with a powerful CPU, and better managed traffic with bandsteering and airtime fairness

Versatile Management

Simplify AP deployment with self-configuring cluster mode, and increase coverage with Radio Frequency resource management

DWL-6610APE

Dual-Band 802.11n/ac Unified Wireless Access Point

Features

Ideal for Business

- Self-configuring cluster feature
- Up to 32 virtual access points may be created from a single access point
- Flexible QoS with Wi-Fi Multimedia (WMM)
- IEEE 802.3af Power over Ethernet (PoE)
- 4 external dual-band omnidirectional antennas
- UL2043 certified chassis (plenum-rated SKU)

High-Performance Connectivity

- Bandsteering for efficient traffic management
- One Gigabit Ethernet LAN port
- Airtime fairness

Trusted Wireless Security Feature

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

The DWL-6610APE Dual-Band 802.11n/ac Unified Wireless Access Point is designed for small to medium businesses and enterprises, providing unparalleled bandwidth and flexibility for medium to large scale Wi-Fi networks. Featuring the latest 802.11ac technology on its 5 GHz band, the DWL-6610APE allows you to deploy more devices and provide greater throughput for your wireless clients.

Greater Reach and Flexibility

The DWL-6610APE provides unparalleled connectivity by using a 2 x 2 antenna implementation, allowing high combined data rates of 1167 Mbps (867 Mbps[2] for 802.11ac, and 300 Mbps[2] for 802.11n) over the air. With 802.11n/ac technology, the DWL-6610APE provides high performance connections over two bands, so wireless clients can stream media faster and farther than before using existing devices.

Centrally Managed

When working in conjunction with D-Link Unified Controllers, the DWL-6610APE can be centrally managed. This allows for a large number of APs to be deployed and managed easily and efficiently. Once the APs are discovered by the controller, the administrator can push configuration to them as a group, instead of doing so individually. Additionally, Radio Frequency (RF) resource management allows wireless coverage to be managed centrally, proving the best coverage possible for wireless clients.

Self-Configuring Cluster

For small businesses that need to deploy multiple APs but lack the resources for complex network management, the DWL-6610APE self-configuring cluster allows a small number of DWL-6610APE 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 remaining APs, making setting up your wireless business network a breeze.

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Performance Upgrade

The DWL-6610APE features an upgraded CPU, providing increased performance over its predecessor. The external omnidirectional antennas extends the range of the wireless signal, eliminating dead spots and filling hard-to-reach places. Bandsteering technology enables the DWL-6610APE to balance the load between its two radios rather than forcing all users onto the 2.4 GHz band, allowing 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.

Automatic 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 DWL-6610APE 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 DWL-6610APE will automatically lower its transmission power[1]. When, for whatever reason, the nearby AP is no longer present, the DWL-6610APE will increase its transmission power to expand coverage.

Quality of Service

The DWL-6610APE supports 802.1p Quality of Service (QoS) for enhanced throughput and better performance of time-sensitive traffic like VoIP and streaming DSCP. The DWL-6610APE 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 DWL-6610APE units 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.

Technical Specifications

General		
Hardware Revision	• B1	
Interfaces	• 802.11b/g/n 2.4 GHz wireless • 802.11ac/a/n 5 GHz wireless	• 10/100/1000BASE-T LAN (PoE) port
Antenna	• External dual-band omnidirectional antennas	• 4 dBi for 5 GHz, 3 dBi for 2.4 GHz
Functionality		
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) • Serial console (RJ-45)	• SNMP (v1/v2c/v3) • Telnet/SSH
Security		
SSID Security	• Up to 32 SSIDs, 16 per radio • 802.1Q VLAN	• Station Isolation
Wireless Security	• WPA Personal/Enterprise	• AES and TKIP
Detection & Prevention	• Rogue and valid AP classification	
Authentication	• MAC address filtering	
Physical		
Dimensions	• 205 x 39 mm (8.07 x 1.54 in.)	
Weight	• 0.476 kg (1.05 lbs)	
Power Supply	• 12 V/1.5 A external power adapter	• 802.3af PoE

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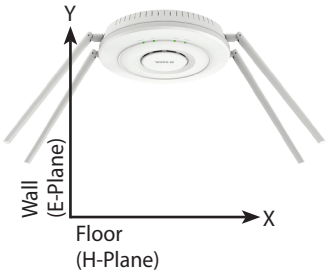
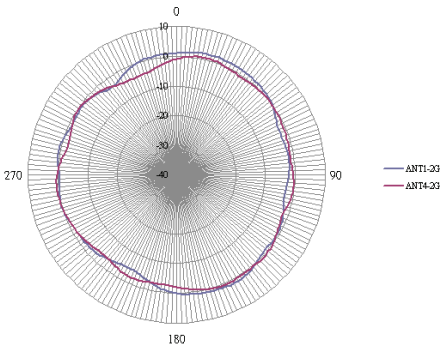
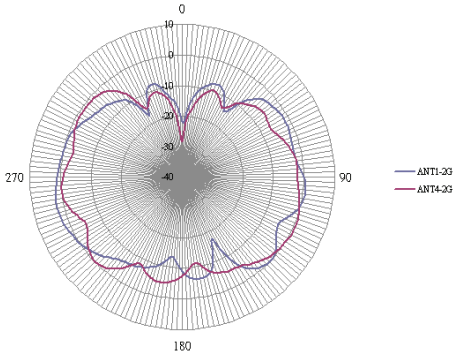
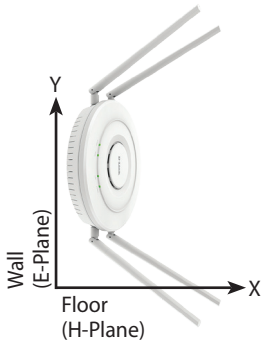
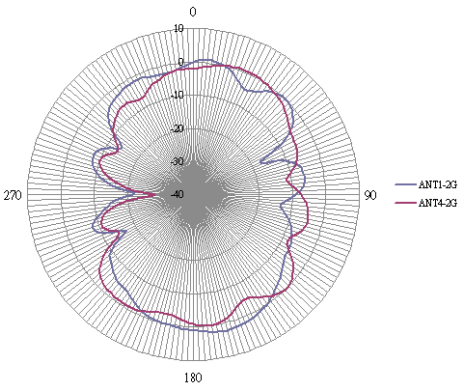
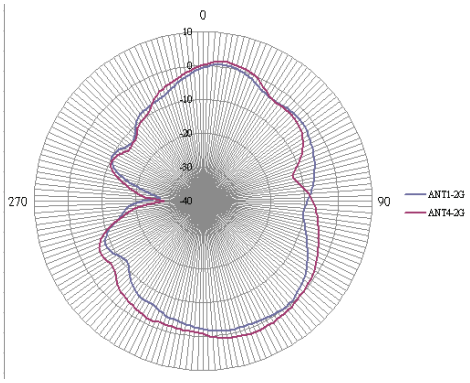
Max Power Consumption	• 10.2 watts	
Enclosure	• Bottom cover – plastic • Top cover – plastic	• UL2043 certified chassis
Temperature	• Operating: 0 to 40 °C (32 to 104 °F)	• Storage: -20 to 65 °C (-4 to 149 °F)
Humidity	• Operating: 10% to 90% non-condensing	• Storage: 5% to 95% non-condensing
Certifications	• CE • FCC • IC • cUL+UL • LVD	• RCM • NCC • BSMI • UL2043

Radio Patterns

2.4 GHz Antenna Ceiling Mounted

Orientation	H-Plane	E-Plane
		

2.4 GHz Antenna Wall Mounted

Orientation	H-Plane	E-Plane
		

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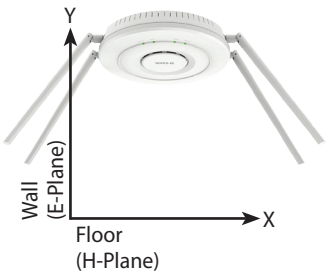
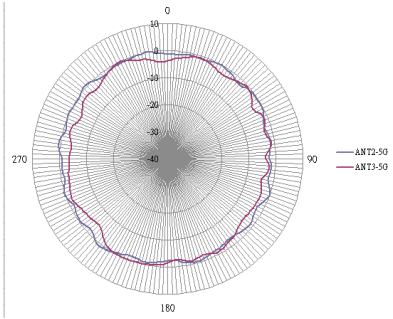
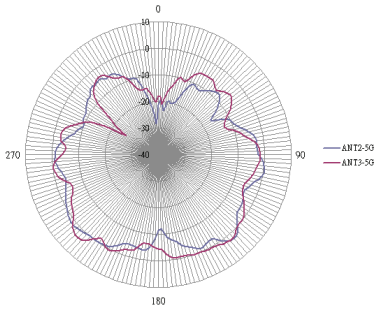
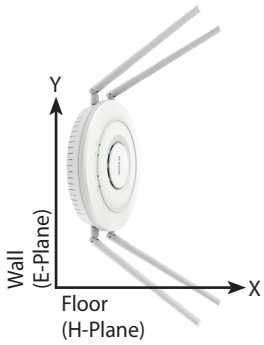
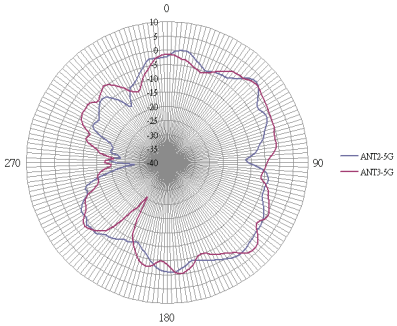
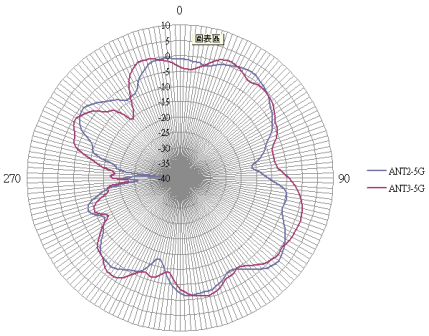
5 GHz Antenna Ceiling Mounted

Orientation	H-Plane	E-Plane
		

5 GHz Antenna Wall Mounted

Orientation	H-Plane	E-Plane
		

Order Information

Part Number	*Description*
DWL-6610APE	Dual-Band 802.11n/ac Unified Wireless 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 802.11 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.

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