Nuclias Cloud- Managed Wave 2 Access Points

DBA Series

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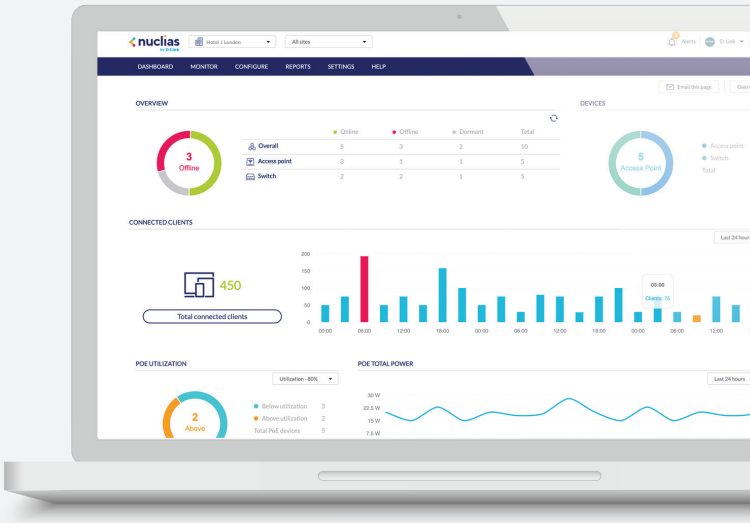
Nuclias Cloud Overview

Welcome to Nuclias Cloud, D-Link's Cloud-managed networking solution for Small-to-Medium-Sized Businesses (SMB). Nuclias Cloud makes it easier to analyze, automate, configure, optimize, scale, and secure your network, letting you get on with your business.



▲ Intuitive Dashboard Interface

Solution Features

- » Cloud Management
- » Zero-Touch Deployment
- » Intuitive Interface
- » Unlimited Scalability
- » Traffic Reporting & Analytics
- » Automated Monitoring & Alerts
- » Multi-Tenant & Role-Based Administration
- » Searchable Event Log and Change Log
- » Authentication via Customizable Captive Portal, 802.1x and RADIUS Server
- » Multilingual Support
- » Social Login for Guest Wi-Fi Access
- » End-to-End Encryption
- » Over-the-Air Firmware Upgrades

Solution Benefits

1 / End-to-End Solution

Nuclias Cloud is a complete network solution. Tailored to SMBs by simplifying administration tasks across the network and providing a wide variety of compatitable devices that can handle diverse business scenarios (indoors, outdoors, remote) with varying levels of traffic, eliminating the need to piece together equipment from different vendors.

2 / Simple Cloud Management

With Nuclias Cloud, no dedicated hardware controllers are needed. The centralized management platform can be accessed remotely via Browser or Tablet App. Multi-site management allows SMBs to expand and monitor additional sites in other cities or countries around the world, all in one place. Cloud management also enables convenient batch configuration, scheduled firmware updates, auto channel management, and unlimited device scalability.

▲ Deployment Scenarios

3 / Zero-Touch Deployment

Nuclias Cloud enables “plug & play” installation of new devices, and installation can be done by non-technical personnel. Simply unbox the device, connect it, download the configuration settings from the Cloud (or preconfigure before unboxing), and it’s operational — it’s that simple. It not only saves time and reduces the chances of error, it lowers the barriers of network expansion.

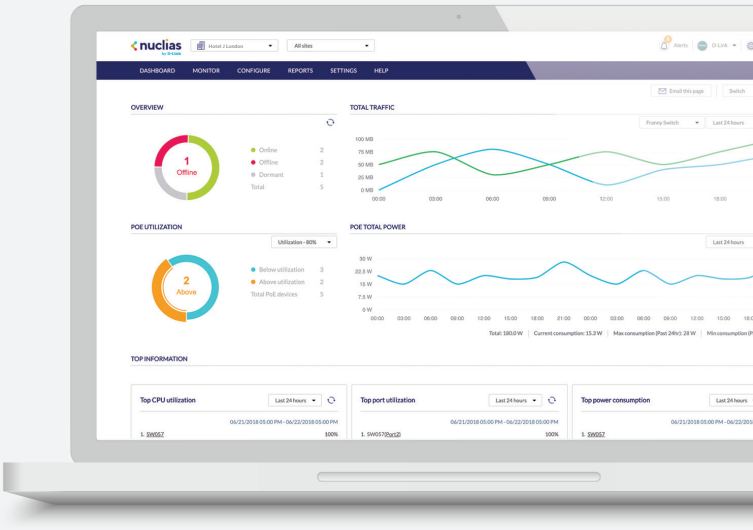
01 Devices are preconfigured w/o the need to unbox.

02 Deliver the Access Points to the assigned locations

03 Plug the power supply and internet cable or PoE

4 / Real-Time Analytics & Automated Reporting

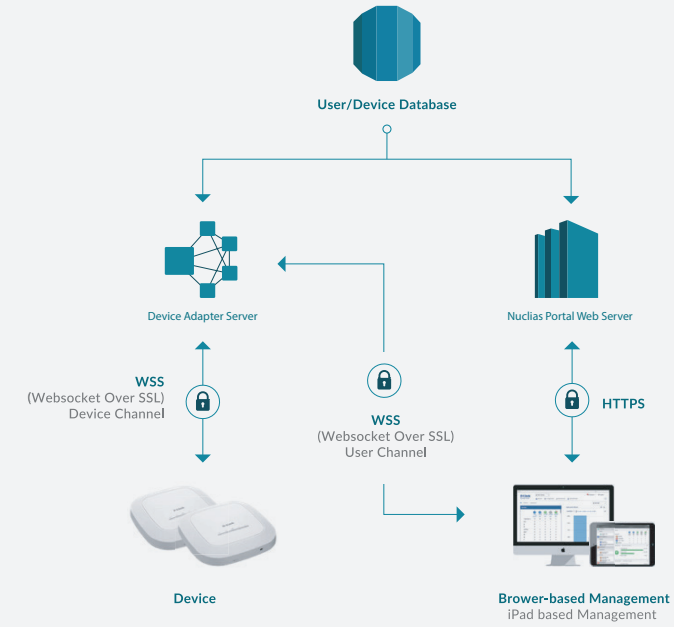
The intuitive Nuclias Cloud management platform provides an instant overview of your network, with traffic measurable to the level of a single Access Point (AP). Not only does real-time analytics help catch irregularities, it also facilitates troubleshooting, while automated reporting simultaniously creates data-driven insights into customer and user behavior.



▲ Statistics – Hourly Network Activity

5 / Peace-of-Mind

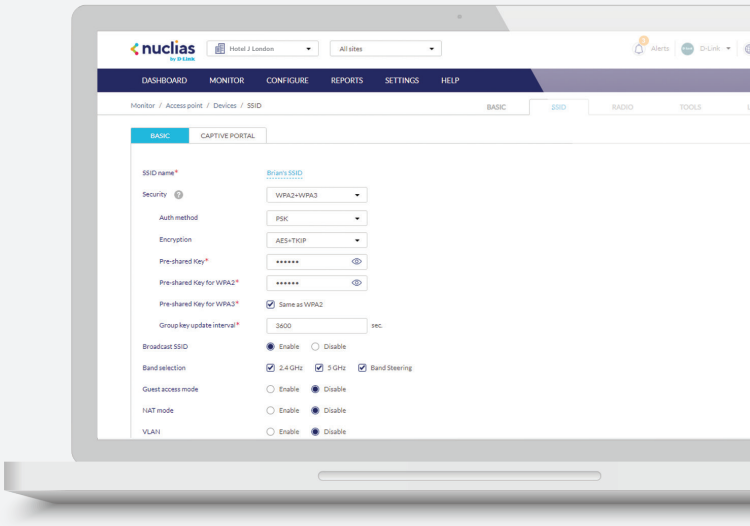
Nuclias Cloud is built with the security of your business in mind. You are protected with a 99.9% Service-Level Agreement (SLA) that covers platform connectivity with operational failover in case Cloud connectivity is severed. End-to-End Encryption (WPA2/WPA3 Personal or Enterprise) for all network communications is employed via Websocket Over SSL, while 802.1X authentication with RADIUS server is also supported.



▲ End-to-End Encryption

6 / Easy Administration

Nuclias Cloud utilizes a multi-tenant software architecture, enabling network administrators to grant local authority for local networks. Admins can create a guest network using one of D-Link's APs' 8 available SSIDs per radio. Along with multiple user authentication, specific access controls for each SSID is also available, enabling configuration of separate internal networks for different subnets. Direct discovery and AP provisioning can also be done over a shared L2/L3 network, allowing users to easily find APs and import profiles. Nuclias Cloud operates transparently, giving you the flexibility to deploy an AP anywhere in an NAT environment. Additionally, administrators can provide and manage a variety of distributed deployments, configuration settings and admin accounts for each AP.



▲ SSID Configuration

Product Overview

The DBA Series Nuclias Cloud-Managed Wave 2 Access Points are deployed as a pre-managed, zero-configuration access point controlled through the D-Link Nuclias cloud[1]. These are the best-in-class indoor access points designed specifically for enterprise environments. With next-generation 802.11ac Wave 2 dual-band concurrent 2.4 GHz and 5 GHz radios, the DBA Series offers high combined data rates to wireless clients allowing for lightning-fast access to bandwidth-intensive applications such as data, voice, and video streaming.

Best-in-Class Built for Enterprise AP

- IEEE 802.11ac Wave 2 wireless
- Supports IEEE 802.3at Power over Ethernet (PoE)
- IEEE 802.3az Energy-Efficient Ethernet (EEE)
- Integrated DHCP server
- Supports Link Aggregation
- Allows a high number concurrent users

Enterprise Security

- Personal and Enterprise versions of WPA/ WPA2 (802.11i)/ WPA3
- SSID/Guest/Station Isolation
- IP/MAC address filtering
- Captive Portal (Facebook, Google, Line, Weibo, E-mail authentication)
- Supports RADIUS client and Cipher negotiation

D-Link Smart Antenna (DBA-2620P)

- Selects optimal radiation pattern for each client
- Uses digital beamforming to enhance the antenna gain and achieve optimal throughput
- Supports multiple radio patterns to dynamically adapt to different kinds of environments
- Fast channel and bandwidth selection features find the optimal channel with the least interference

Tri-Band WiFi (DBA-2720P)

- 1 x 2.4 GHz and 2 x 5 GHz wireless bands to accommodate for an increasing number of devices
- Unload older 802.11b/g/n devices on the 2.4 GHz band
- Enjoy seamless bandwidth intensive applications such as HD video streaming, VoIP, and file sharing on 2 x 5 GHz bands
- Utilizes intelligent band steering technology for efficient load balancing and workload distribution

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Technical Specifications

General

Model	• DBA-2520P	• DBA-2620P	• DBA-2720P[3]	• DBA-2820P
Interfaces	• 2 x 10/100/1000 Mbps Ethernet port • 1 x RJ45 Console port • IEEE 802.11a/b/g/n/ac Wave 2 wireless			
Standards	• IEEE 802.11a/b/n/g/ac Wave 2 • IEEE 802.3az Energy-Efficient Ethernet (EEE) • IEEE 802.3at Power over Ethernet (PoE) • IEEE 802.3i/u/ab • IEEE 802.3x Flow Control			
Antenna	• Internal omnidirectional antennas » 2.4 GHz: 3 dBi » 5 GHz: 4 dBi	• Internal omnidirectional antennas » 2.4 GHz: 5 dBi (variable) » 5 GHz: 6 dBi (variable)	• Internal omnidirectional antennas » 2.4 GHz: 3 dBi » 5 GHz(1): 4 dBi » 5 GHz(2): 4 dBi	• Internal omnidirectional antennas » 2.4 GHz: 3 dBi » 5 GHz: 4 dBi
Maximum Output Power	• 2.4 GHz: 25 dBm • 5 GHz: 25 dBm	• 2.4 GHz: 26 dBm • 5 GHz: 26 dBm	• 2.4 GHz: 26 dBm • 5 GHz (1): 26 dBm • 5 GHz (2): 26 dBm	• 2.4 GHz: 26 dBm • 5 GHz: 26 dBm
Data Signal Rate[2]	• 2.4 GHz: Up to 600 Mbps • 5 GHz: Up to 1299 Mbps	• 2.4 GHz: Up to 400 Mbps • 5 GHz: Up to 867 Mbps	• 2.4 GHz: Up to 400 Mbps • 5 GHz (1): Up to 867 Mbps • 5 GHz (2): Up to 867 Mbps	• 2.4 GHz: Up to 800 Mbps • 5 GHz: Up to 1733 Mbps

Functionality

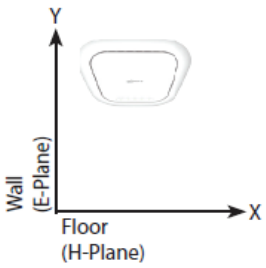
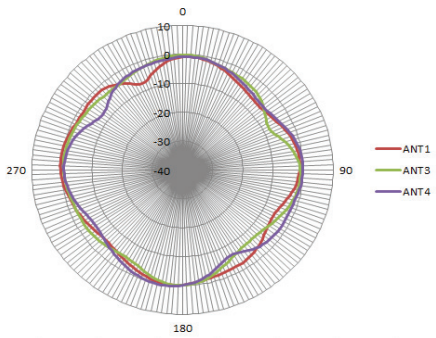
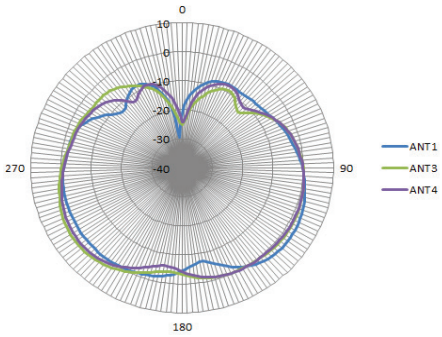
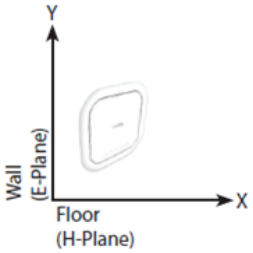
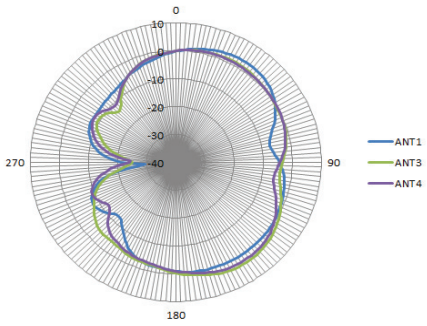
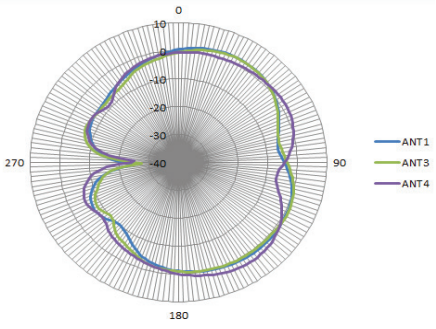
Security	• WPA3-Personal/Enterprise • WPA2-Personal/Enterprise • WPA-Personal/Enterprise • MAC address filtering • SSID isolation • Guest isolation • Captive portal • Station isolation			
Maximum SSIDs	• Supports up to 16 SSIDs per device » Up to 8 SSIDs per wireless band		• Supports up to 24 SSIDs per device » Up to 8 SSIDs per wireless band	• Supports up to 16 SSIDs per device » Up to 8 SSIDs per wireless band

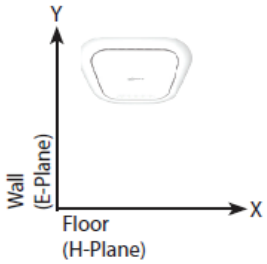
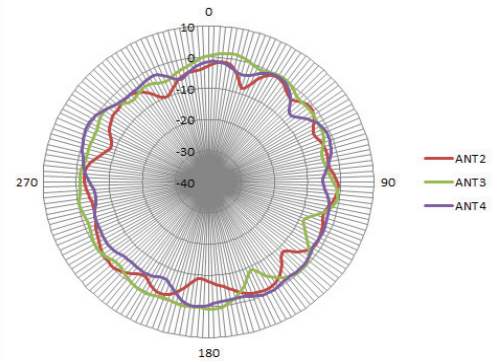
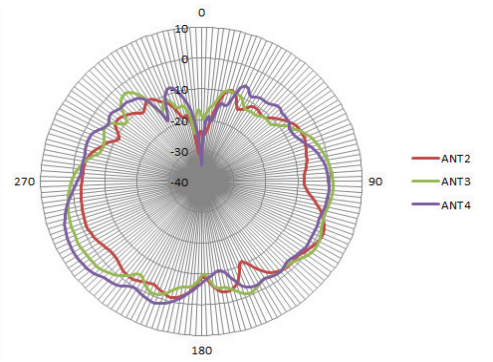
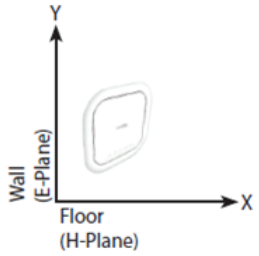
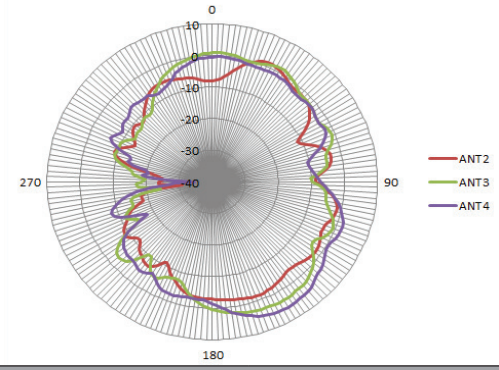
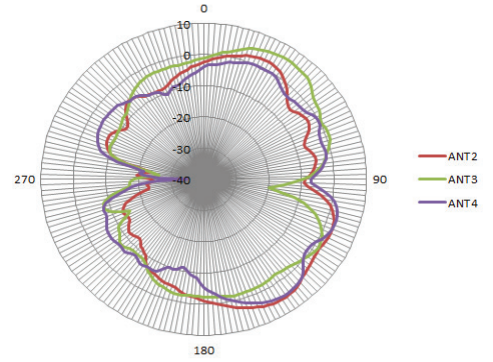
Physical

Dimensions	• 224.5 x 223.85 x 50 mm (8.83 x 8.81 x 1.97 in)	• 224.5 x 223.85 x 54.75 mm (8.83 x 8.81 x 2.16 in)	• 224.5 x 223.85 x 50 mm (8.83 x 8.81 x 1.97 in)	• 224.5 x 223.85 x 50 mm (8.83 x 8.81 x 1.97 in)
Weight	• Without mount: 811 g (1.79 lbs)	• Without mount: 732 g (1.61 lbs)	• Without mount: 729 g (1.60 lbs)	• Without mount: 810 g (1.79 lbs)

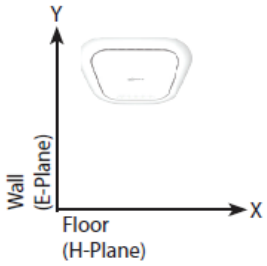
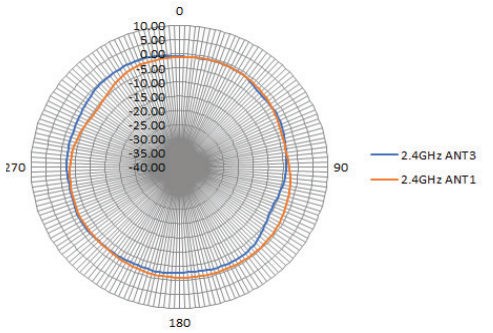
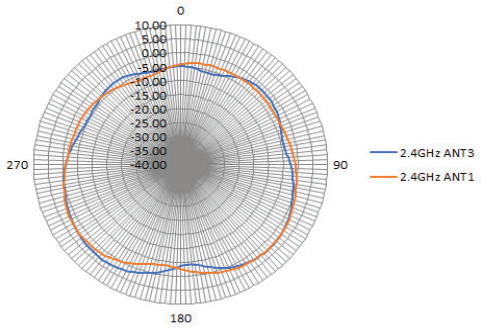
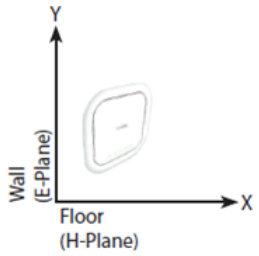
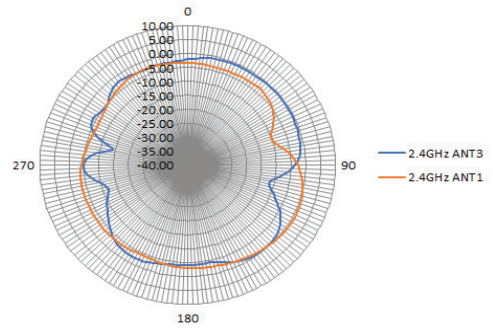
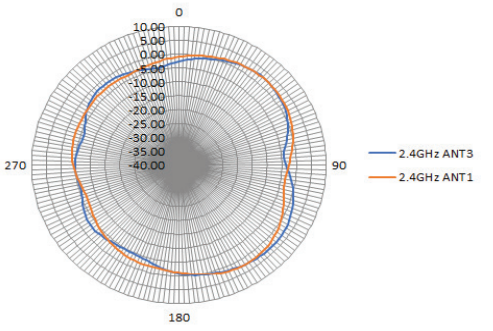
Power Input	• IEEE 802.3at Power over Ethernet (PoE) on LAN 1 • Power adapter: 12 V DC, 2.5 A	• IEEE 802.3at Power over Ethernet (PoE) on LAN 1 • Power adapter: 12 V DC, 2 A	• IEEE 802.3at Power over Ethernet (PoE) on LAN 1 • Power adapter: 12 V DC, 2.5 A	• IEEE 802.3at Power over Ethernet (PoE) on LAN 1 • Power adapter: 12 V DC, 2.5 A
Power Consumption	• PoE: 19.68 W • Power adapter: 16.92 W	• PoE: 17.28 W • Power adapter: 16.32 W	• PoE: 20.16 W • Power adapter: 18.96 W	• PoE: 21.65 W • Power adapter: 19.2 W
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			
Mean Time Between Failure (MTBF)	• 548,000 hours	• 891,000 hours	• 485,000 hours	• 454,000 hours
Mounting Options	• Ceiling mount • Wall mount • Desktop (horizontal)			
Certifications	• CE Class B • FCC Class B • UL • IC Class B			

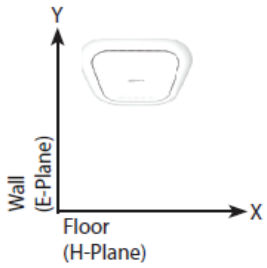
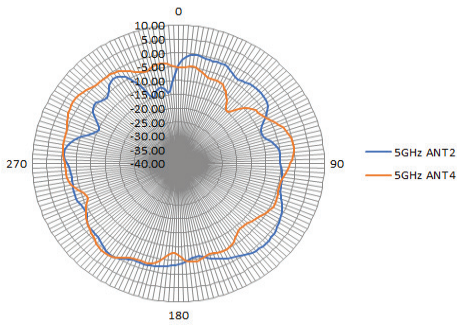
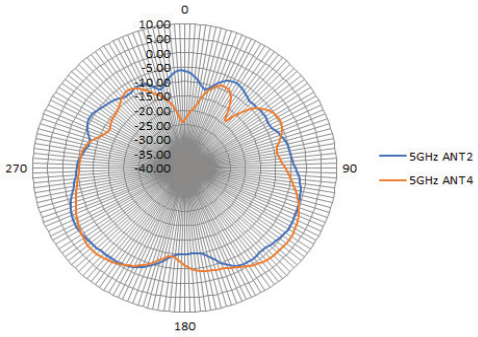
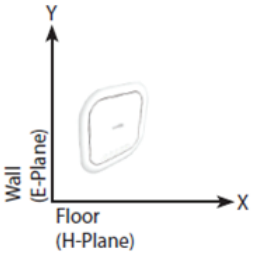
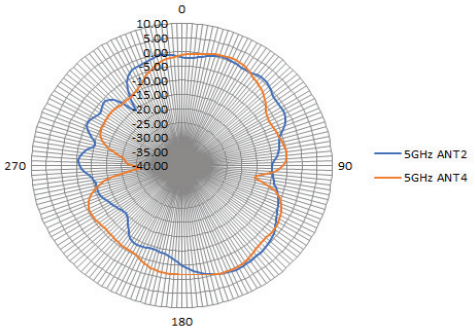
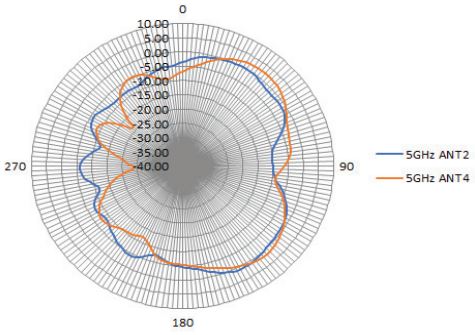
Antenna Pattern - DBA-2520P

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

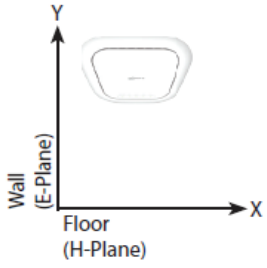
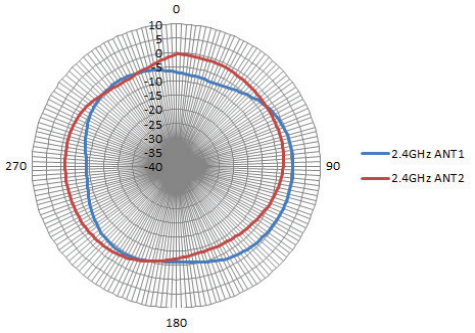
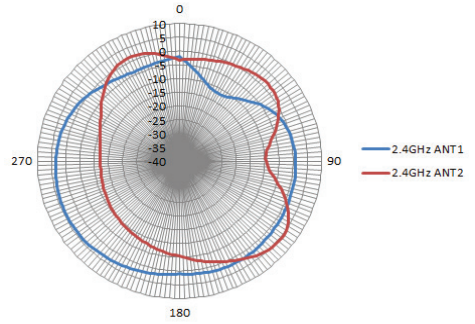
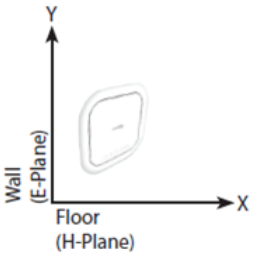
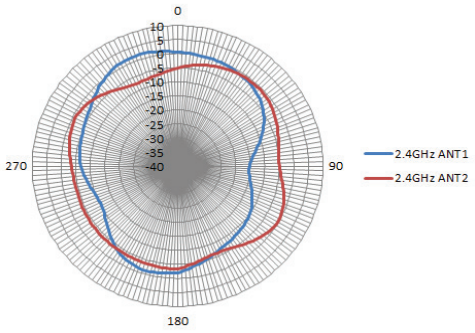
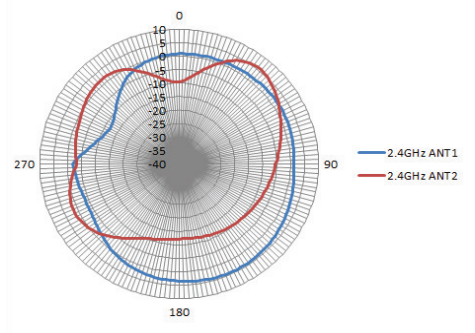
5 GHz Antenna Ceiling Mounted 		
5 GHz Antenna Wall Mounted 		

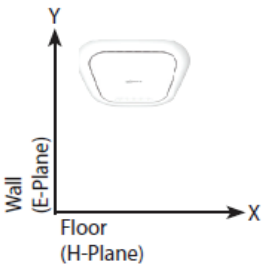
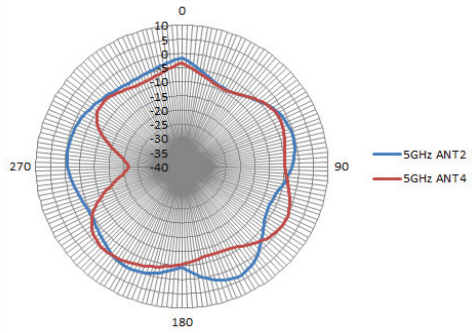
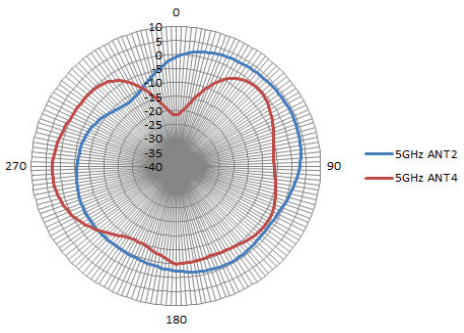
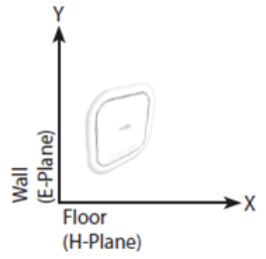
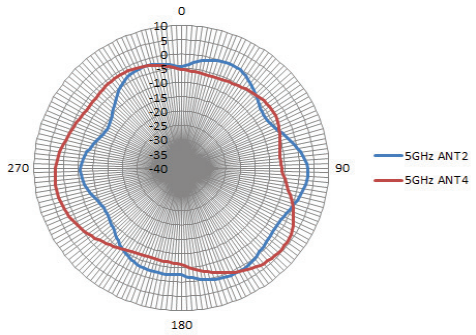
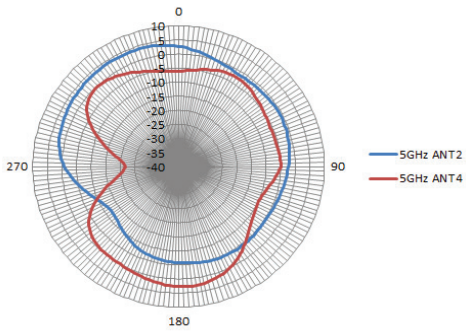
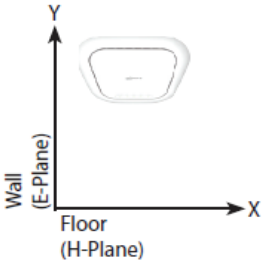
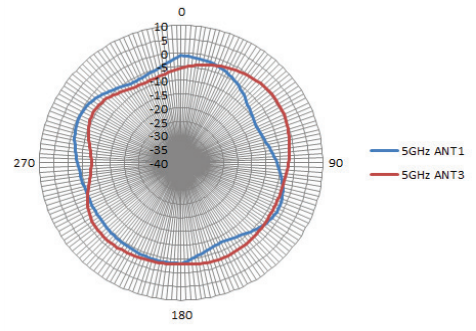
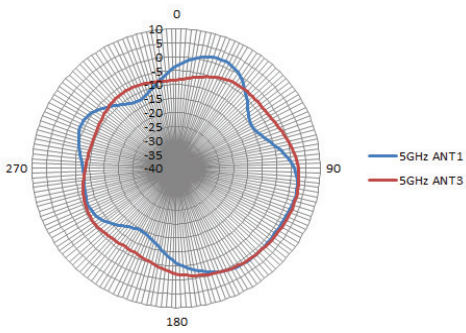
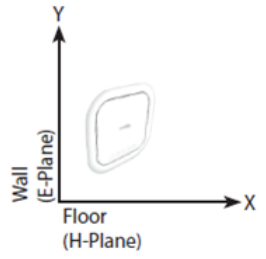
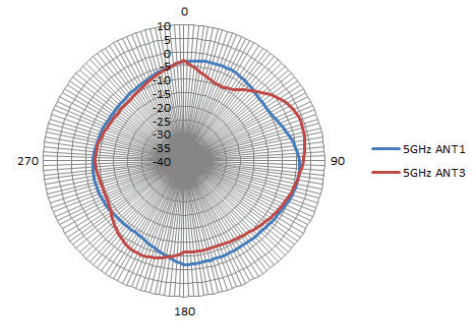
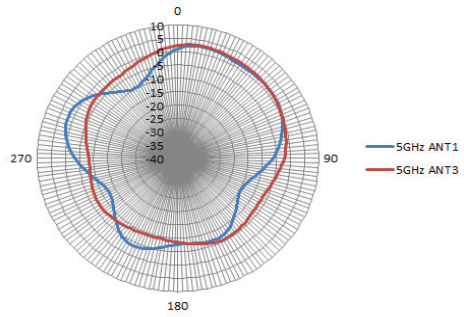
Antenna Pattern - DBA-2620P

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

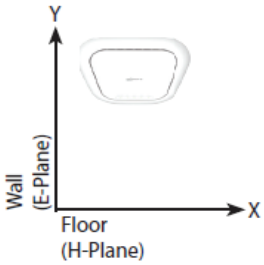
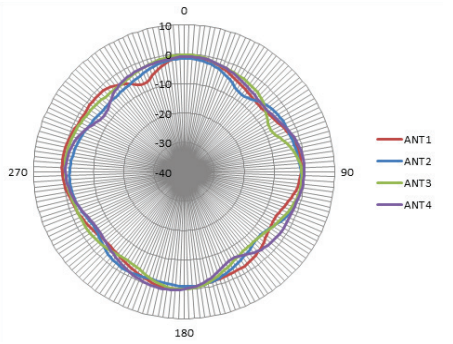
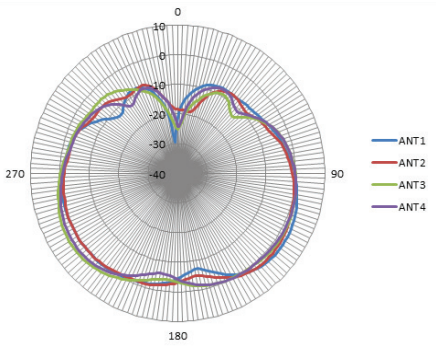
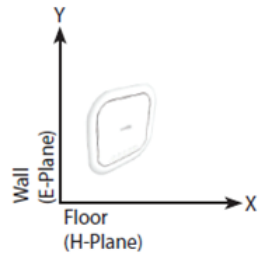
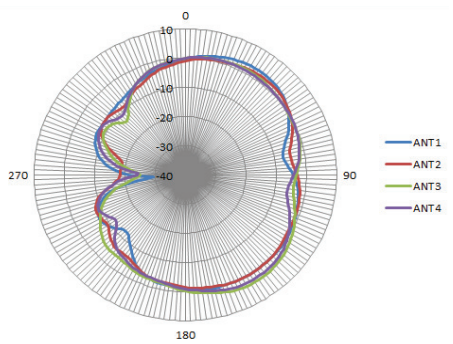
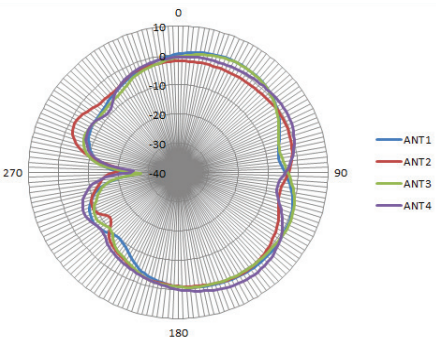
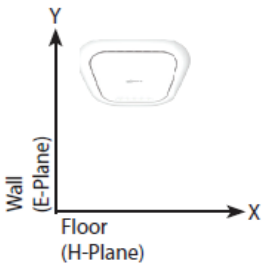
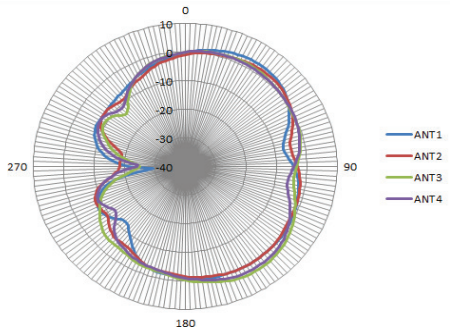
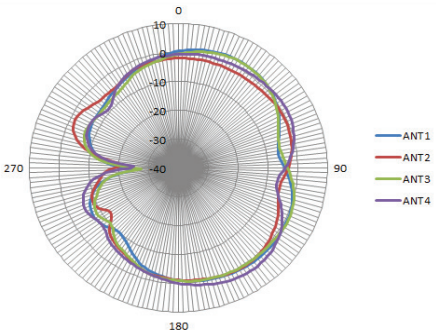
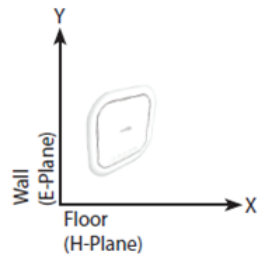
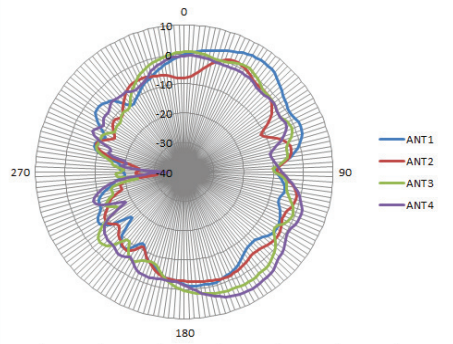
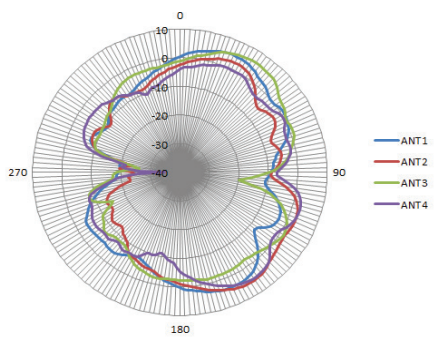
5 GHz Antenna Ceiling Mounted 		
5 GHz Antenna Wall Mounted 		

Antenna Pattern - DBA-2720P[3]

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

5 GHz Antenna Ceiling Mounted (low band) 		
5 GHz Antenna Wall Mounted (low band) 		
5 GHz Antenna Ceiling Mounted (high band) 		
5 GHz Antenna Wall Mounted (high band) 		

Antenna Pattern - DBA-2820P

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

Order Information

Part Number	*Description*
DBA-2520P	Nuclias Cloud-Managed AC1900 Wave 2 Access Point
DBA-2620P	Nuclias Cloud-Managed AC1300 Wave 2 Smart Antenna Access Point
DBA-2720P[3]	Nuclias Cloud-Managed AC2200 Wave 2 Tri-Band Access Point
DBA-2820P	Nuclias Cloud-Managed AC2600 Wave 2 Access Point

[1] Active D-Link Nuclias account and valid device license required.
[2] Maximum wireless signal rate derived from IEEE Standard 802.11g, and 802.11n 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.
[3] Expected release date in Q1/2020

November 26, 2019 12:12 PM