

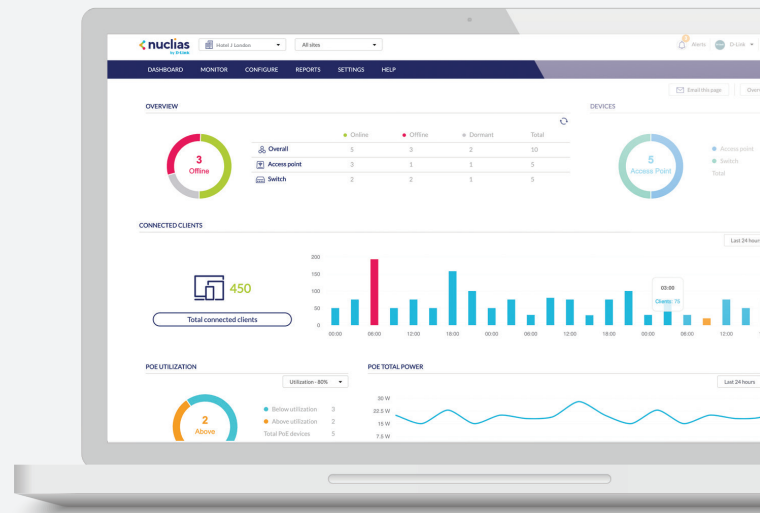
Nuclias Cloud-Managed AC2600 Wave 2 Access Point

DBA-2820P



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 compatible 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 the 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

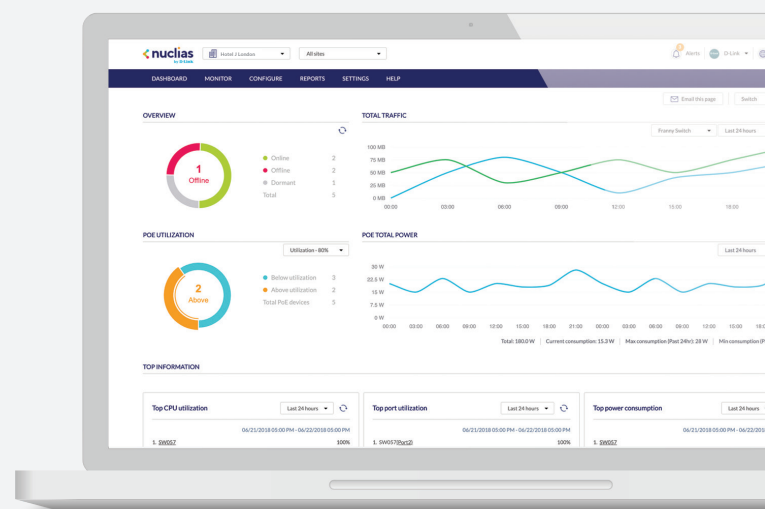
3 / Zero-Touch Deployment

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.



4 / Real-Time Analytics & Automated Reporting

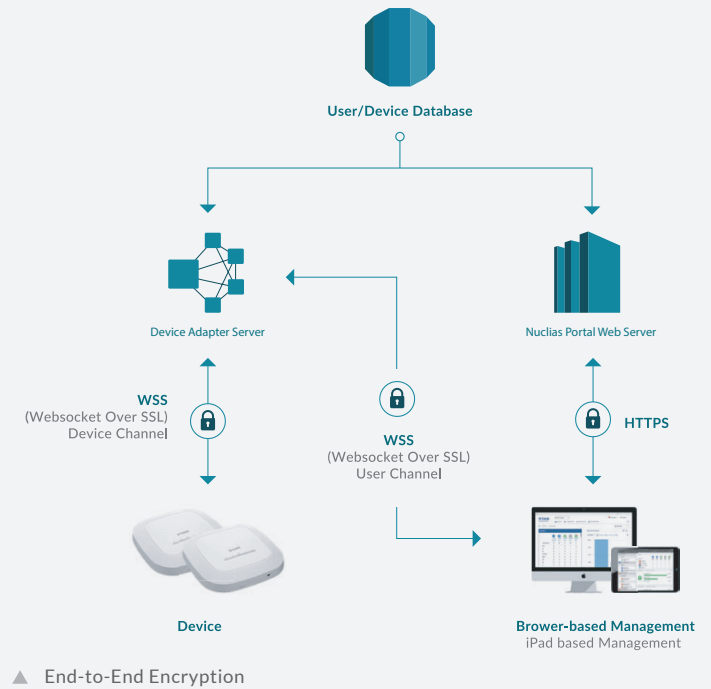
The intuitive Nuclias Cloud management platform provides an instant overview of your network, with traffic measurable to the level of a single Access Point (AP). Not only does real-time analytics help catch irregularities, it also facilitates troubleshooting, while automated reporting simultaneously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



▲ Statistics – Hourly Network Activity

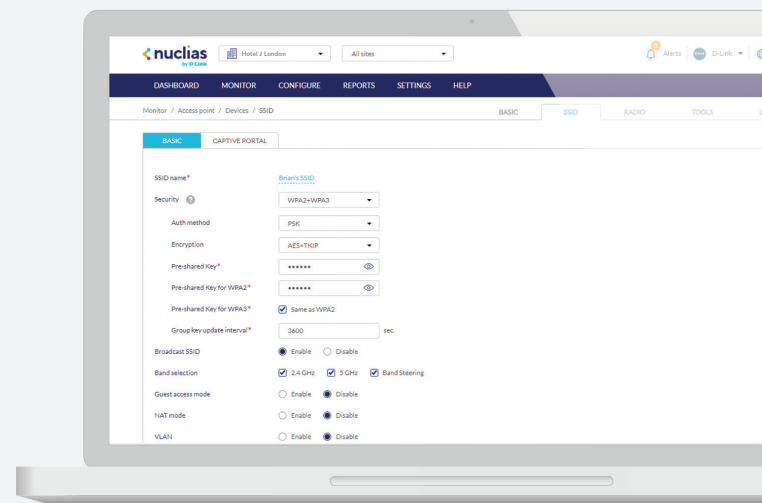
5 / Peace-of-Mind

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.



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 a 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-2820P Nuclias Cloud-Managed AC2600 Wave 2 Access Point is deployed as a pre-managed, zero-configuration access point controlled through the D-Link Nuclias cloud¹. It is a best-in-class indoor access point designed specifically for enterprise environments. With next-generation 802.11ac Wave 2 dual-band concurrent 2.4 GHz and 5 GHz radios, the DBA-2820P 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
- Up to 2.6 Gbps² throughput
- IEEE 802.3az Energy-Efficient Ethernet (EEE)
- Integrated DHCP server
- Allows a high number concurrent users

Power over Ethernet (PoE)

- Supports IEEE 802.3at PoE
- Convenient of using one cord for both power and internet access
- Reduces installation and energy expenses
- Flexibility to install the DBA-2820P in places that don't have access to electrical infrastructure, such as the ceiling

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 auth.)
- Supports RADIUS client and Cipher negotiation

Wave 2 MU-MIMO

- 4x MU-MIMO Antenna with four spatial streams
- Perfect for 'Multi-User', 'Multi-Input', 'Multi-Output' environments
- Significantly reduces network congestion
- Utilizes beamforming to direct signal at intended wireless device

Technical Specifications

General

Interfaces	<ul style="list-style-type: none"> • IEEE 802.11a/b/g/n/ac Wave 2 wireless • 2 x 10/100/1000 Mbps Ethernet Port 	<ul style="list-style-type: none"> • 1 x RJ45 Console port
Standards	<ul style="list-style-type: none"> • IEEE 802.11a/b/n/g/ac Wave 2 • IEEE 802.3az Energy-Efficient Ethernet (EEE) • IEEE 802.3at Power over Ethernet (PoE) 	<ul style="list-style-type: none"> • IEEE 802.3i/u/ab • IEEE 802.3x Flow Control
LEDs	<ul style="list-style-type: none"> • Power/Cloud • 2.4 GHz • 5 GHz 	<ul style="list-style-type: none"> • LAN 1 • LAN 2
Antenna	<ul style="list-style-type: none"> • Internal omnidirectional antennas <ul style="list-style-type: none"> • 2.4 GHz: 3 dBi • 5 GHz: 4 dBi 	
Maximum Output Power	<ul style="list-style-type: none"> • 2.4 GHz: 26 dBm 	<ul style="list-style-type: none"> • 5 GHz: 26 dBm
Data Signal Rate	<ul style="list-style-type: none"> • 2.4 GHz: Up to 800 Mbps² 	<ul style="list-style-type: none"> • 5 GHz: Up to 1733 Mbps²

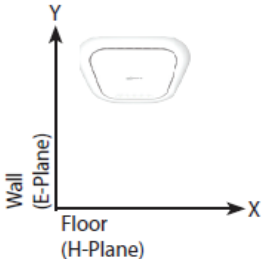
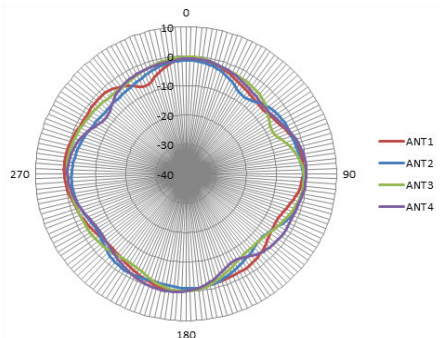
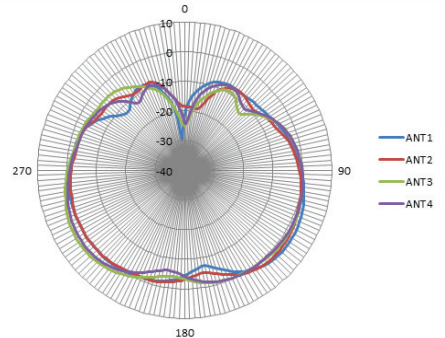
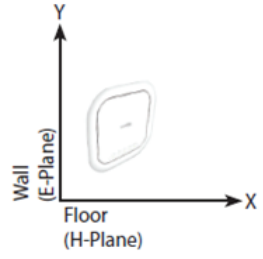
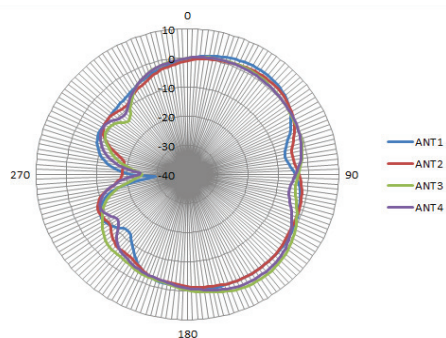
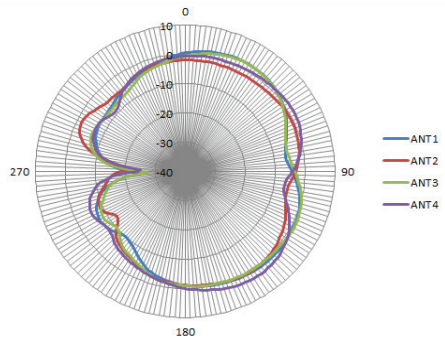
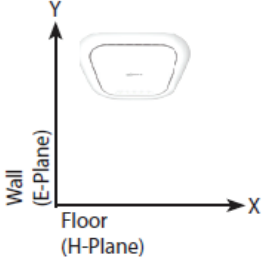
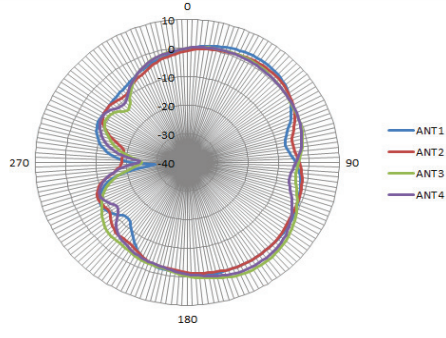
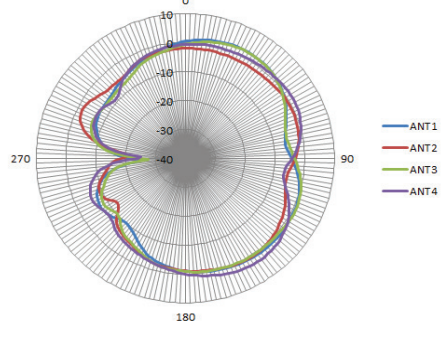
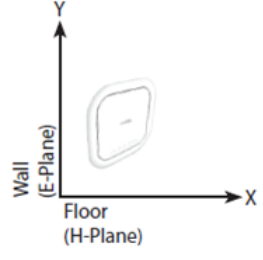
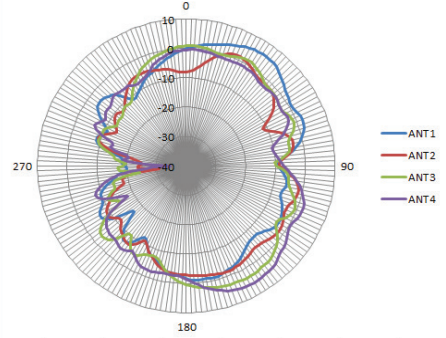
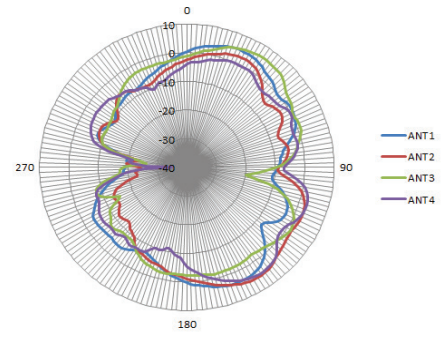
Functionality

Security	<ul style="list-style-type: none"> • WPA3-Personal/Enterprise • WPA2-Personal/Enterprise • WPA-Personal/Enterprise • MAC address filtering 	<ul style="list-style-type: none"> • SSID isolation • Guest isolation • Captive portal • Station isolation
Maximum SSIDs	<ul style="list-style-type: none"> • Supports up to 16 SSIDs per device <ul style="list-style-type: none"> • Up to 8 SSIDs per wireless band 	

Physical

Dimensions	<ul style="list-style-type: none"> • 224.5 x 223.85 x 50 mm (8.83 x 8.81 x 1.97 in) 	
Weight	<ul style="list-style-type: none"> • Without mount: 810 g (1.79 lbs) 	
Power Input	<ul style="list-style-type: none"> • IEEE 802.3at Power over Ethernet (PoE) on LAN 1 	<ul style="list-style-type: none"> • Power adapter: 12 V DC, 2.5 A
Power Consumption	<ul style="list-style-type: none"> • PoE: 21.65 W 	<ul style="list-style-type: none"> • Power adapter: 19.2 W
Temperature	<ul style="list-style-type: none"> • Operating: 0 to 40 °C (32 to 104 °F) 	<ul style="list-style-type: none"> • Storage: -20 to 65 °C (-4 to 149 °F)
Humidity	<ul style="list-style-type: none"> • Operating: 10% to 90% non-condensing 	<ul style="list-style-type: none"> • Storage: 5% to 95% non-condensing
Mean Time Between Failure (MTBF)	<ul style="list-style-type: none"> • 454,000 hours 	
Mounting Options	<ul style="list-style-type: none"> • Ceiling mount • Wall mount 	<ul style="list-style-type: none"> • Desktop (horizontal)
Certifications	<ul style="list-style-type: none"> • CE Class B • FCC Class B 	<ul style="list-style-type: none"> • UL • IC Class B

Antenna Pattern - DBA-2820P

Orientation	H-Plane	E-Plane
<p>2.4 GHz Antenna Ceiling Mounted</p> 		
<p>2.4 GHz Antenna Wall Mounted</p> 		
<p>5 GHz Antenna Ceiling Mounted</p> 		
<p>5 GHz Antenna Wall Mounted</p> 		

Warranty	
Warranty	Limited Lifetime Warranty ¹
Licences	
DBA-WW-Y1-LIC	1 Year Cloud License
DBA-WW-Y3-LIC	3 Years Cloud License
DBA-WW-Y5-LIC	5 Years Cloud License
Order Information	
Part Number	Description
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.

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