D-Link®
Building Networks for People

nuclias

DBA-2820P

Nuclias Cloud-Managed AC2600 Wave 2 Access Point

Features

D-Link Nuclias Cloud Management

- Centralized cloud-based management
- Zero-touch deployment
- Unlimited scalability with no limitation on the number of supported APs
- Intuitive web and app-based interface
- Real-time at-a-glance network information
- Management of multiple sites and devices through single pane of glass
- Over-the-air firmware updates through the cloud
- Instant alerts and notifications

Best-in-class Built for Enterprise Access Point

- IEEE 802.11ac Wave 2 wireless
- 4 x 4 MU-MIMO with four spatial streams
- Up to 2.6 Gbps[2] throughput
- Supports IEEE 802.3at Power over Ethernet (PoE)
- Integrated DHCP server
- WPA/WPA2-Personal/Enterprise Support
- WPA3[3] Support
- Supports RADIUS client and Cipher negotiation
- Supports Link Aggregation

D-Link Nuclias is an innovative cloud networking solution that allows you to centrally manage your entire network from anywhere, any time through its intuitive portal interface or mobile app. Featuring a full range of cloud-managed access points and switches supported by zero-touch deployment, Nuclias enables small businesses and enterprises to quickly deploy and build a powerful and versatile global wired and wireless network.

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 cloud[1]. 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.

Centralized Management With D-Link Nuclias

Designed to be managed through the D-Link Nuclias cloud, the DBA-2820P is easily set up with the help of the intuitive D-Link Nuclias browser-based or mobile app interface. Centralized cloud management allows for zero-touch provisioning, enabling businesses to quickly configure, deploy, maintain, and expand their network remotely. Configuration settings can be set up, managed, and deployed through the cloud anytime, anywhere through any web browser or the dedicated mobile app, meaning devices can be deployed at a remote location without any need for trained on-site staff. Similarly, over-the-air firmware updates are automatically pushed to devices through the cloud.

Hassle-free Administration and Versatile Deployment

With D-Link Nuclias, businesses can now more effectively organize their entire wireless network, manage multiple APs simultaneously, and monitor live network statistics. With the user-friendly single pane of glass management console, administrators have access to an intuitive way of organizing the network into multiple sites, which simplifies management across multiple areas. With no limitation on the number of devices, businesses can easily cater to the demands of a growing network by simply adding more devices to the network.

Enterprise Security

To ensure the safety and reliability of all sensitive traffic, all management data to and from the cloud is separated from regular data using a SSL encrypted out-of-band connection. In addition, D-Link Nuclias offers a range of industry standard authentication and authorization methods to control user access. Administrators can configure external RADIUS servers and set up IP and MAC-based access control lists to authenticate and authorize clients in order to create a safe and trusted network environment. The DBA-2820P supports both Personal and Enterprise versions of WPA and WPA2 (802.11i), as well as MAC address filtering, wireless LAN segmentation, SSID broadcast disabling, and wireless broadcast scheduling to further help protect the wireless network.

Automated Monitoring and Alerts

Through the intuitive D-Link Nuclias dashboard, administrators can remotely view real-time information about the network and get an instant overview of key network statistics such as performance, connectivity, and network usage. Administrators can filter and customize the dashboard to display only the necessary information for a more focused experience. This allows administrators to be ahead of any problems with instant push notifications and alerts that can be customized to ensure that administrators can swiftly identify problems and perform immediate troubleshooting without the need for on-site staff.

Technical Specifications

General

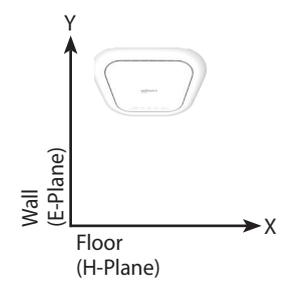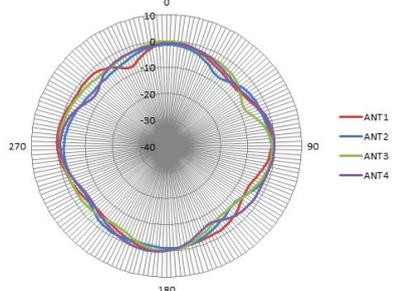|		
Interfaces	• 1 x 10/100/1000 Mbps Ethernet PoE port • 1 x 10/100/1000 Mbps serial console port	• IEEE 802.11a/b/g/n/ac Wave 2 wireless
Standards	• IEEE 802.11a/b/n/g/ac Wave 2 • IEEE 802.3az Energy-Efficient Ethernet (EEE) • IEEE 802.3at Power over Ethernet (PoE)	• IEEE 802.3i/u/ab • IEEE 802.3x Flow Control
LEDs	• 2.4 GHz, 5 GHz, LAN 1, LAN 2, Power/Cloud	

Antenna	• Internal omnidirectional antennas
	  • 2.4 GHz: 3 dBi
	  • 5 GHz: 4 dBi	

Maximum Output Power	• 2.4 GHz: 26 dBm	• 5 GHz: 26 dBm
Data Signal Rate	• 2.4 GHz: Up to 800 Mbps[2]	• 5 GHz: Up to 1733 Mbps[2]

Functionality

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Security	• WPA3-Personal/Enterprise[3] • 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	

Physical

Dimensions	• 224.5 x 223.85 x 50 mm (8.83 x 8.81 x 1.97 in)	
Weight	• Without mount: 810 g (1.79 lbs)	
Power Input	• IEEE 802.3at Power over Ethernet (PoE)	• Power adapter: 100 to 240 V AC, 50/60 Hz
Power Consumption	• PoE: 21.65 W	• Power adapter: 19.2 W
Temperature	• Operating: 0 to 40 ℃ (32 to 104 ℉)	• Storage: -20 to 65 ℃ (-4 to 149 ℉)
Humidity	• Operating: 10% to 90% non-condensing	• Storage: 5% to 95% non-condensing
Mean Time Between Failure (MTBF)	• 454,000 hours	
Mounting Options	• Ceiling mount • Wall mount	• Desktop (horizontal)

Certifications	• CE Class B	• UL
	• FCC Class B	• IC Class B

Antenna Pattern

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		
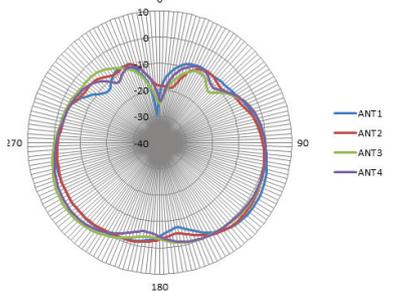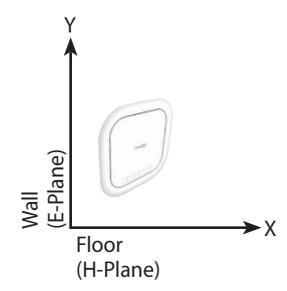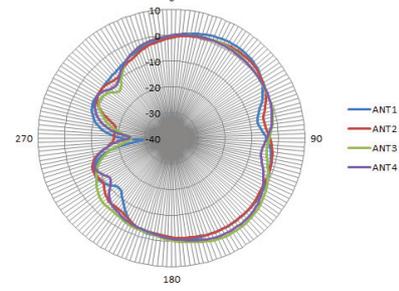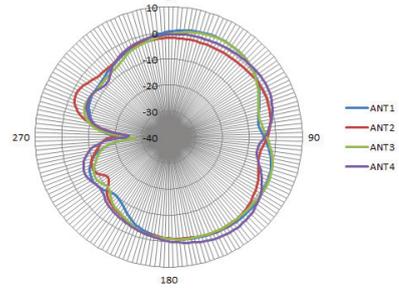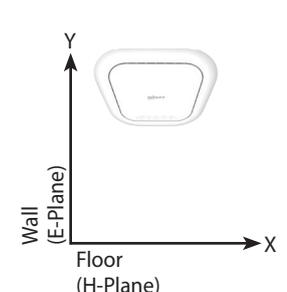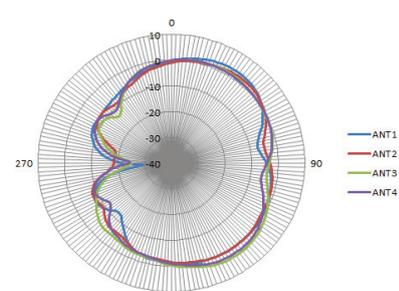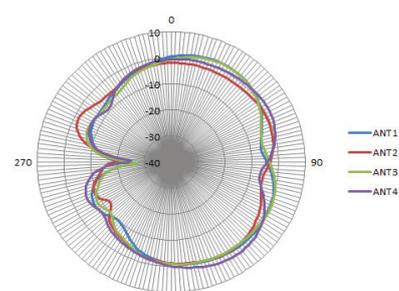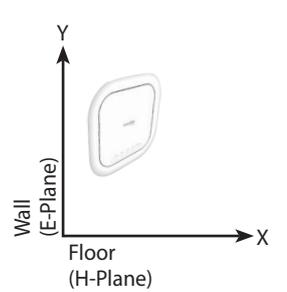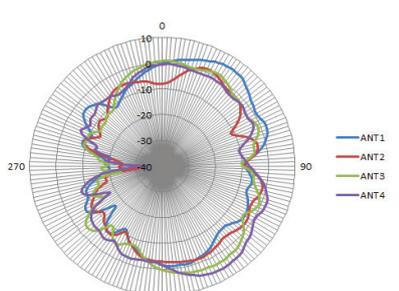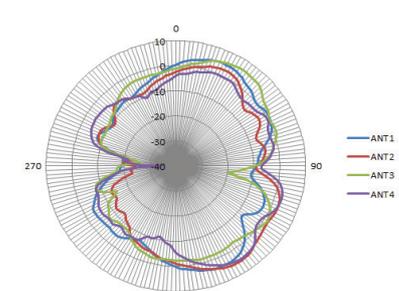
Order Information

Part Number	Description
DBA-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] Available in future release, expected in Q1/2019.

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