

## Product Highlights

### D-Link Nuclias Cloud Management

Extensive range of management functions can be performed centrally and hassle-free, through the Nuclias cloud management platform

### Business-Class 802.11ac Wave 2 Connectivity

Increase your network capacity with lightning-fast dual-band 802.11ac Wave 2 wireless, smart load balancing, and PoE-ready Gigabit Ethernet

### Zero-Touch Deployment

Cloud-based auto-configuration allows for swift plug-and-play installation and eliminates the need for on-site setup



## DBA-2820P

# Nuclias Wireless AC2600 Wave 2 Cloud-Managed Access Point

## Features

### D-Link Nuclias Cloud Management (1-year license included)

- Centralised 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 2,533 Mbps<sup>2</sup> throughput
- Supports IEEE 802.3at Power over Ethernet (PoE)
- Integrated DHCP server
- WPA/WPA2-Personal/Enterprise Support
- WPA3 Support
- Supports RADIUS client and Cipher negotiation
- Supports Link Aggregation

The DBA-2820P Nuclias Wireless AC2600 Wave 2 Cloud-Managed Access Point is a high-performance indoor access point designed specifically for SMB, retail, hospitality, campus, as well as managed service providers. It offers high combined data rates of up to 2,533 Mbps over 2 dedicated wireless bands and enhanced WPA3 wireless security.

The DBA-2820P can be easily deployed with zero-touch provisioning and controlled through the D-Link Nuclias Cloud Management<sup>1</sup>. This allows network administrators to focus more on providing reliable connectivity and services and spend less time managing devices.

## Centralised Management With D-Link Nuclias

Designed to be managed through the D-Link Nuclias Cloud Management<sup>1</sup>, the DBA-2820P is easily set up with the help of the intuitive D-Link Nuclias web-browser portal or the Nuclias mobile app for tablets. Centralised cloud-based management enables zero-touch provisioning, allowing for plug-and-connect deployment without the need for additional configuration. The DBA-2820P connects to the D-Link Nuclias cloud to automatically retrieve its configuration settings, enabling deployment at remote locations without an on-site network administrator. With D-Link Nuclias, businesses can now more effectively organise their entire wireless network, manage multiple APs simultaneously, and monitor live network statistics.

## Fast And Efficient Wireless AC Wave 2 Performance

The DBA-2820P delivers reliable, high-speed wireless AC Wave 2 performance with maximum wireless signal rates of up to 2,533 Mbps<sup>2</sup>. Load-balancing optimisation effectively eliminates the need for the dedicated hardware and RF expertise typically required to tune a wireless network. The D-Link Nuclias cloud tunes the DBA-2820P's channel selection, transmit power, and maximum client connections for optimal performance under the most challenging RF conditions.

## Enterprise-Grade Security

To help maintain a secure wireless network, the DBA-2820P supports both Personal and Enterprise versions of WPA, WPA2 and the latest WPA3, with support for a back-end RADIUS server. The DBA-2820P also supports MAC address filtering, wireless LAN segmentation, SSID broadcast disabling, and wireless broadcast scheduling to further help protect the wireless network. The DBA-2820P includes support for up to 16 virtual access points to further help segment users on the network using multiple SSIDs. In addition, the DBA-2820P features wireless client isolation, which allows administrators to limit direct client-to-client communication.

## Versatile Deployment

The DBA-2820P allows network administrators to deploy a highly manageable and extremely robust wireless network with optimal wireless coverage. For deployment flexibility, the DBA-2820P can be mounted on a ceiling, wall, or placed on a desktop to meet any wireless demands. It also supports 802.3at Power over Ethernet (PoE), allowing the device to be installed in areas where power outlets are not readily available.

## Nuclias by D-Link

is a complete cloud-managed networking solution for small to medium-sized organisations with one or more sites.

### How it works

Wi-Fi coverage and network capacity are provided by high-performance Access Points and Managed Switches deployed on site, while configuration and ongoing management can be carried out remotely through a web browser or tablet.

Zero-touch provisioning and centralised cloud-based control make the network simpler to install and easier to manage.

With Nuclias, network configurations and software updates are pushed to remote devices through the cloud, without the need to have specialised equipment or personnel onsite.

SSL encrypted, out-of-band network monitoring and management ensures secure connectivity whilst minimising bandwidth requirement.

### Main features

- Zero-touch provisioning
- Role-based administration
- Auditable change logs
- Authentication via customisable captive portal, 802.1x and RADIUS server
- Social login for Wi-Fi access supported
- Advanced traffic report and data analysis
- Intuitive web-based interface with multilingual support
- Automatic monitoring and alerts
- Over-the-web firmware upgrades
- Searchable network-wide event log
- Intuitive VLAN Configuration
- Cloud based RF Optimisation

Simpler to install and easier to manage



Unlimited scalability of supported APs



Reporting and analytics



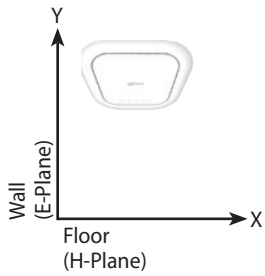
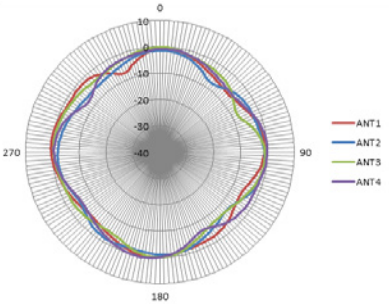
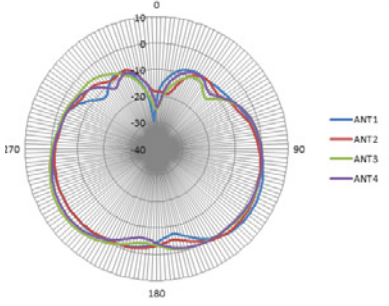
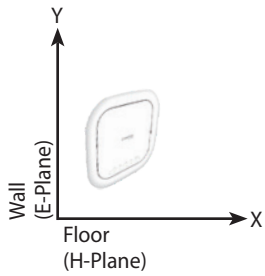
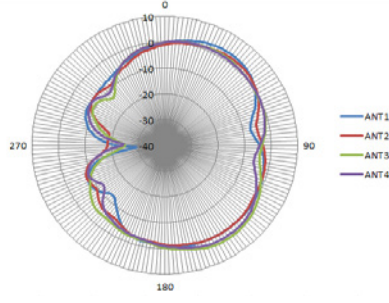
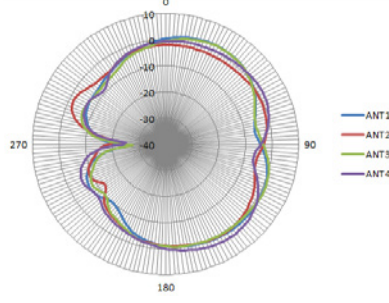
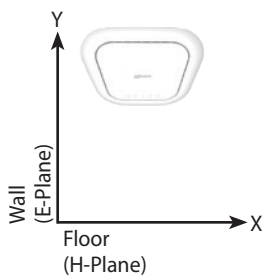
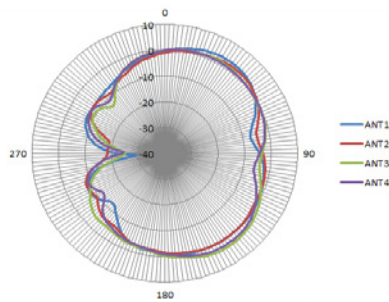
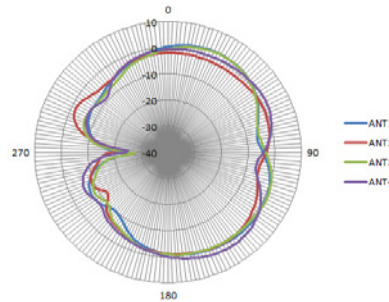
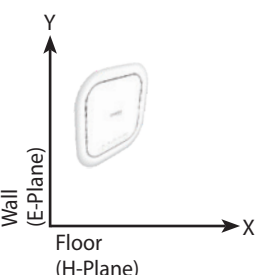
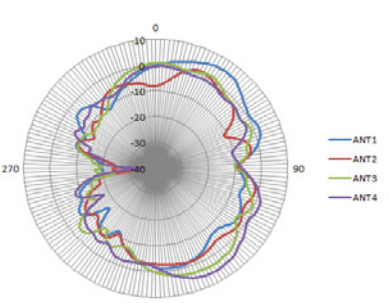
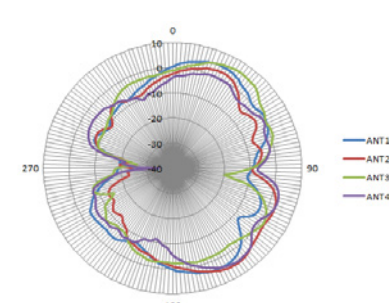
Zero-touch provisioning



Pay-as-you grow Subscription

**Wireless AC2600 Wave 2 Cloud-Managed Access Point**

Technical Specifications		
General		
Interfaces	<ul style="list-style-type: none"> <li>1 x 10/100/1000 Mbps Ethernet PoE port</li> <li>1 x 10/100/1000 Mbps serial console port</li> </ul>	<ul style="list-style-type: none"> <li>IEEE 802.11a/b/g/n/ac Wave 2 wireless</li> </ul>
Standards	<ul style="list-style-type: none"> <li>IEEE 802.11a/b/n/g/ac Wave 2</li> <li>IEEE 802.3az Energy-Efficient Ethernet (EEE)</li> <li>IEEE 802.3at Power over Ethernet (PoE)</li> </ul>	<ul style="list-style-type: none"> <li>IEEE 802.3i/u/ab</li> <li>IEEE 802.3x Flow Control</li> </ul>
LEDs	<ul style="list-style-type: none"> <li>2.4 GHz, 5 GHz, LAN 1, LAN 2, Power/Cloud</li> </ul>	
Antenna	<ul style="list-style-type: none"> <li>Internal omnidirectional antennas               <ul style="list-style-type: none"> <li>2.4 GHz: 3 dBi</li> <li>5 GHz: 4 dBi</li> </ul> </li> </ul>	
Maximum Output Power	<ul style="list-style-type: none"> <li>2.4 GHz: 26 dBm</li> </ul>	<ul style="list-style-type: none"> <li>5 GHz: 26 dBm</li> </ul>
Data Signal Rate	<ul style="list-style-type: none"> <li>2.4 GHz: Up to 800 Mbps<sup>2</sup></li> </ul>	<ul style="list-style-type: none"> <li>5 GHz: Up to 1733 Mbps<sup>2</sup></li> </ul>
Functionality		
Security	<ul style="list-style-type: none"> <li>WPA3-Personal/Enterprise</li> <li>WPA2-Personal/Enterprise</li> <li>WPA-Personal/Enterprise</li> <li>MAC address filtering</li> </ul>	<ul style="list-style-type: none"> <li>SSID isolation</li> <li>Guest isolation</li> <li>Captive portal</li> <li>Station isolation</li> </ul>
Maximum SSIDs	<ul style="list-style-type: none"> <li>Supports up to 16 SSIDs per device</li> <li>Up to 8 SSIDs per wireless band</li> </ul>	
Physical		
Dimensions	<ul style="list-style-type: none"> <li>224.5 x 223.85 x 50 mm (8.83 x 8.81 x 1.97 in)</li> </ul>	
Weight	<ul style="list-style-type: none"> <li>Without mount: 810 g (1.79 lbs)</li> </ul>	
Power Input	<ul style="list-style-type: none"> <li>IEEE 802.3at Power over Ethernet (PoE)</li> </ul>	<ul style="list-style-type: none"> <li>Power adapter: 100 to 240 V AC, 50/60 Hz</li> </ul>
Power Consumption	<ul style="list-style-type: none"> <li>PoE: 21.65 W</li> </ul>	<ul style="list-style-type: none"> <li>Power adapter: 19.2 W</li> </ul>
Temperature	<ul style="list-style-type: none"> <li>Operating: 0 to 40 °C (32 to 104 °F)</li> </ul>	<ul style="list-style-type: none"> <li>Storage: -20 to 65 °C (-4 to 149 °F)</li> </ul>
Humidity	<ul style="list-style-type: none"> <li>Operating: 10% to 90% non-condensing</li> </ul>	<ul style="list-style-type: none"> <li>Storage: 5% to 95% non-condensing</li> </ul>
Mean Time Between Failure (MTBF)	<ul style="list-style-type: none"> <li>454,000 hours</li> </ul>	
Mounting Options	<ul style="list-style-type: none"> <li>Ceiling mount</li> <li>Wall mount</li> </ul>	<ul style="list-style-type: none"> <li>Desktop (horizontal)</li> </ul>
Certifications	<ul style="list-style-type: none"> <li>CE Class B</li> <li>FCC Class B</li> </ul>	<ul style="list-style-type: none"> <li>UL</li> <li>IC Class B</li> </ul>

Antenna Pattern		
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> 		

## Wireless AC2600 Wave 2 Cloud-Managed Access Point

## Nuclias Cloud Network Solution Features

Scalability	<ul style="list-style-type: none"> <li>• Unlimited number of APs can be supported</li> </ul>	
Out-of-band Cloud Architecture	<ul style="list-style-type: none"> <li>• Allows only device management control packets between cloud controller and devices. This allows the network to stay up if the connection to the controller is lost.</li> <li>• Client data traffic flows directly to the destination on the LAN or across the WAN.</li> </ul>	
Setup Highlights	<ul style="list-style-type: none"> <li>• Zero-touch provisioning</li> <li>• Centralised management of all network devices</li> </ul>	<ul style="list-style-type: none"> <li>• Flexible WLAN group creation</li> </ul>
Wi-Fi Highlights	<ul style="list-style-type: none"> <li>• Enterprise-class 802.11ac support</li> <li>• Band steering</li> </ul>	<ul style="list-style-type: none"> <li>• PSK (WPA/WPA2), 802.1x/RADIUS authentication</li> <li>• SSID scheduling</li> </ul>
Guest Wi-Fi	<ul style="list-style-type: none"> <li>• Open, click-through, PSK, captive portal</li> <li>• Social login with Facebook and Google</li> <li>• Multiple admin portal access privileges</li> </ul>	<ul style="list-style-type: none"> <li>• SSID scheduling</li> <li>• Free Wi-Fi access with time limit</li> </ul>
RF Features	<ul style="list-style-type: none"> <li>• Channel and power control per device group</li> <li>• Background scan of APs and clients</li> </ul>	<ul style="list-style-type: none"> <li>• Client isolation</li> <li>• Selected auto channel for both 2.4 and 5 GHz bands</li> </ul>
Security	<ul style="list-style-type: none"> <li>• IP and MAC Filtering</li> <li>• Rogue AP detection</li> <li>• All traffic from AP to cloud is encrypted</li> <li>• Client data traffic is locally terminated (not sent to the cloud)</li> </ul>	
Network Health Monitoring and Troubleshooting	<ul style="list-style-type: none"> <li>• Single pane dashboard view of all connected devices and clients, with usage details</li> <li>• Email notifications for network alerts</li> <li>• Track individual Wi-Fi client data: signal strength, speed, association history</li> <li>• Event logs sorted by venue, SSID, AP, client</li> </ul>	<ul style="list-style-type: none"> <li>• Event logs for client joining, firmware upgrade, channel change, device online, device registration etc.</li> <li>• Alarms generated for AP status</li> <li>• Integrated ping and traceroute tools</li> <li>• Visual LED to check for cloud connectivity</li> <li>• Remotely reboot APs</li> </ul>
Reporting	<ul style="list-style-type: none"> <li>• Complete traffic report (per device group, AP, SSID, radio)</li> <li>• Unique client report (tracking 2.4 vs 5 GHz clients over time)</li> <li>• Report duration: up to 2 months (archived report duration can be customized based on local regulations)</li> </ul>	
IPv6 Readiness	<ul style="list-style-type: none"> <li>• Future ready with full support for IPv6</li> </ul>	
Other Highlights	<ul style="list-style-type: none"> <li>• Customisable management console</li> <li>• Schedule-based over-the-web firmware upgrade</li> <li>• Import floor plan to venue to visualize physical location of APs</li> </ul>	<ul style="list-style-type: none"> <li>• Google Maps integration</li> <li>• Multi-language support</li> <li>• Responsive console design that auto fits viewing in different devices (laptops, tablets, mobile phones)</li> </ul>
Supported Hardware	<ul style="list-style-type: none"> <li>• Access Points <ul style="list-style-type: none"> <li>• DBA-1210P</li> <li>• DBA-2820P</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Switches<sup>3</sup> <ul style="list-style-type: none"> <li>• DBS-2000-10MP</li> <li>• DBS-2000-28</li> <li>• DBS-2000-28MP</li> <li>• DBS-2000-28P</li> <li>• DBS-2000-52</li> <li>• DBS-2000-52MP</li> </ul> </li> </ul>
Subscription Licenses	<ul style="list-style-type: none"> <li>• DBA-WW-Y1-LIC</li> <li>• Nuclias 1 Year Cloud Managed Access Point License</li> </ul>	<ul style="list-style-type: none"> <li>• DBA-WW-Y3-LIC</li> <li>• Nuclias 3 Year Cloud Managed Access Point License</li> </ul>

<sup>1</sup> Active D-Link Nuclias account and valid device license required. 1-year license included.

<sup>2</sup> 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 may adversely affect wireless signal range.



For more information: [www.dlink.com](http://www.dlink.com)

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Updated June 2019

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