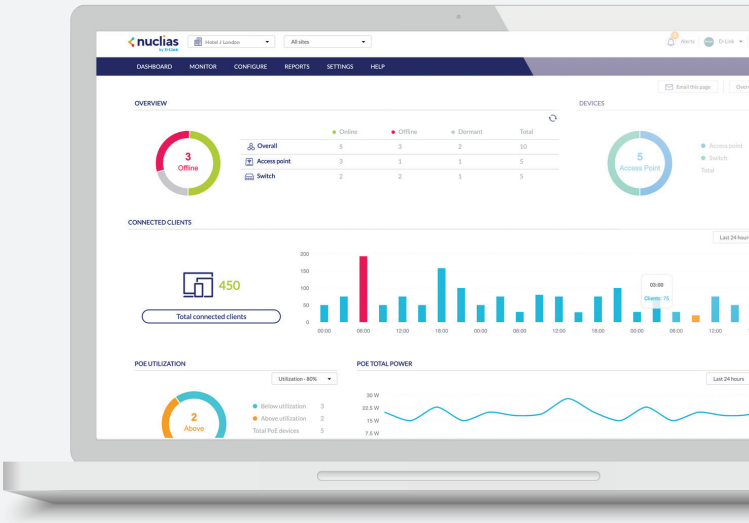
# Nuclias Cloud-Managed AX3600 Access Point

DBA-X2830P


nuclias cloud

## Nuclias Cloud Overview

Nuclias Cloud is D-Link's complete, cloud-managed networking solution. It allows organizations with any level of IT resources the convenience of simple network deployment and configuration. Management and monitoring is as easy as ever. Troubleshooting is quick and painless. With Nuclias Cloud, scaling is accessible and can be done on an ad hoc basis. It's professional-grade networking, without the need for networking professionals.




▲ Intuitive Dashboard Interface

## Solution Features

- » Cloud Management
- » Zero-Touch Deployment
- » Intuitive Interface
- » Unlimited Scalability
- » Real Time Traffic Reporting & Analytics
- » Device Geolocation with Google Maps
- » Visualized Floor Maps
- » Automated Monitoring & Alerts
- » Multi-Tenant & Role-Based Administration
- » Band Steering
- » Bandwidth Optimization
- » Searchable Event Log and Change Log
- » Auto Channel Management
- » Authentication via Customizable Captive Portal, 802.1x and RADIUS Server
- » 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 Cloud-based WLAN infrastructure solution that provides end to end control over every network device, on any site, in your cloud-managed network. D-Link's wide range of compatible devices offer a variety of capabilities at different price points. As a business driven solution, Nuclias includes a variety of enterprise tools. A customizable captive portal allows for a branded Wi-Fi experience, while reporting & analytics provide you the opportunity to better understand your network.

## 2 / Cloud Management

Cloud-based network management offers the flexibility and convenience you need. Admins can carry out various tasks using D-Link's centralized management platform via browser or app, anywhere with an Internet connection. Unlimited device and site scalability, along with multisite management, allow you to manage a worldwide network from a centralized location. Zero Touch Deployment does away with repetitive device configuration by remotely pushing settings to devices. Furthermore, devices can be managed in batches or individually for more precise control. These features, plus more, all consolidated on a unified platform make management as simple and as hassle-free as it should be.

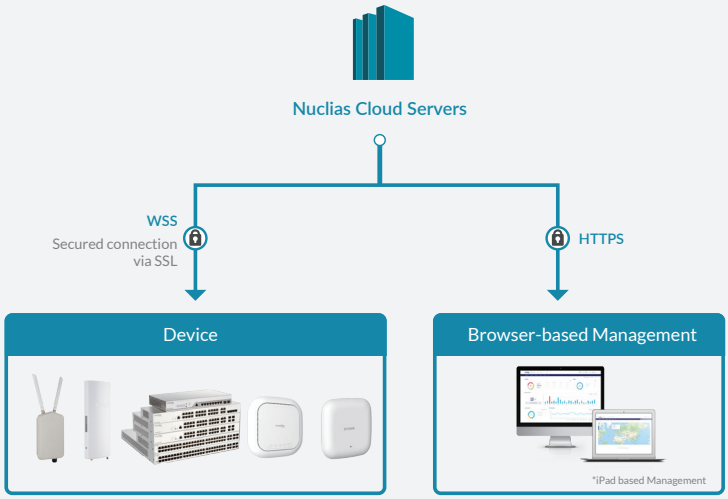

▲ Deployment Scenarios

## 3 / In-Depth Analytics & Automated Reporting

Nuclias Cloud delivers a deeper understanding of your network and its users through automated traffic analytics and status reports. Traffic can be viewed on a network-wide scale, or down to individual devices. Insights derived from these reports can be used to further drive business value.

## 4 / Peace-of-Mind

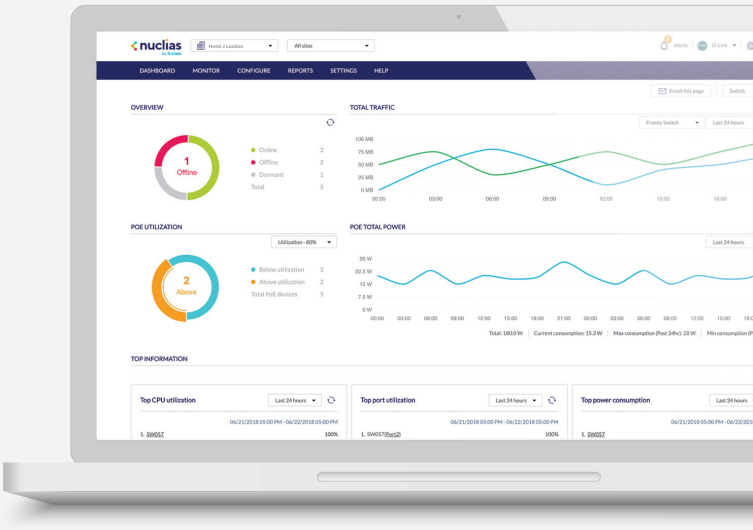
Nuclias Cloud carries a 99.9% reliability SLA (Service Level Agreement) that ensures a constant access to cloud services. Device operation will not be interrupted in the event that cloud services are unavailable. End to end encryption, role & privilege-based access control, amongst a host of other security features work together to preserve the integrity of your network. Automation capabilities provide an additional level of convenience, including control of network parameters, alerting, reporting and firmware updates.




▲ End-to-End Encryption

## 5 / Ease of Use

Nuclias Cloud has an intuitive interface that is designed to maximize your productivity. Admins can access easy to grasp, at-a-glance details of their network environment. Batch configuration and multitenancy support streamlines administrators' work. Meanwhile, social-login, airtime fairness and bandwidth priority make life easier for users.




▲ Statistics – Network Analytics

## Product Overview

The DBA-X2830P Nuclias Cloud-Managed AX3600 Access Point is deployed as a premanaged, zero-configuration access point (AP) controlled through the D-Link Nuclias Cloud[1]. It is the best-in-class indoor access point designed specifically for enterprise environments. Featuring 802.11ax Wi-Fi 6 concurrent on both 2.4 GHz and 5 GHz bands, the DBA-X2830P Nuclias Cloud-Managed AX3600 Access Point offers high combined data rates to wireless clients. It provides lightning-fast access to bandwidth-intensive applications such as data, voice and video streaming, even in highly congested environments.

## 802.11ax Wi-Fi 6

- Next generation wireless standand with increased connection speeds
- Up to 3.6 Gbps combined throughput[2]
- Better performance in highly congested areas
- Increased client device battery life
- Faster speeds on both 2.4 GHz and 5 GHz bands
- Optimized encoding, packing more data into the same radio waves

## Best-in-class Built for Enterprise AP

- Powerful management, monitoring and troubleshooting functionality with Nuclias Cloud
- 4 x 4 MU-MIMO with 4 spatial streams
- IEEE 802.3az Energy-Efficient Ethernet (EEE)
- Integrated DHCP server
- Remote access via web browser
- Allows for a high number of concurrent users

## Power over Ethernet (PoE)

- Supports IEEE 802.3at PoE
- Convenience of using one cord for both power and Internet access
- Reduces installation and energy expenses
- Flexibility to install the DBA-X2830P in places that don't have access to electrical infastructure, such as the ceiling

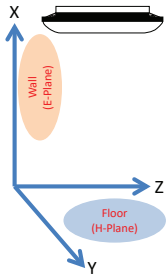
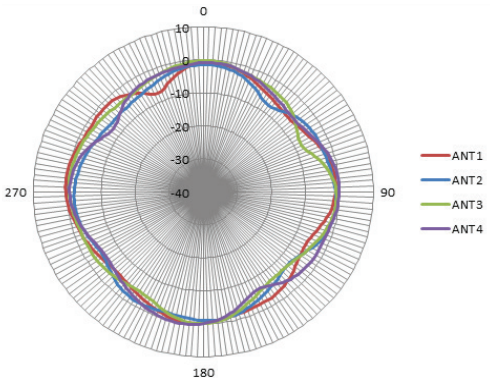
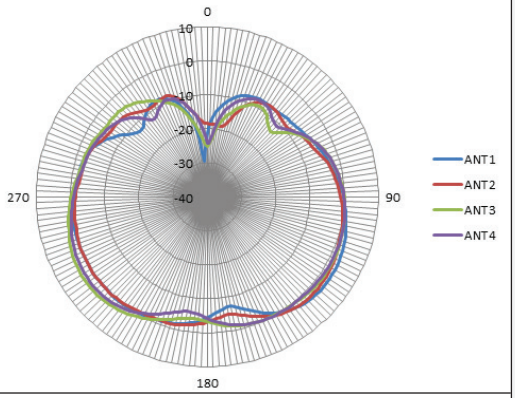
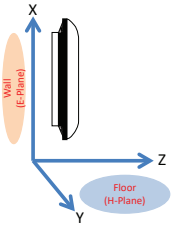
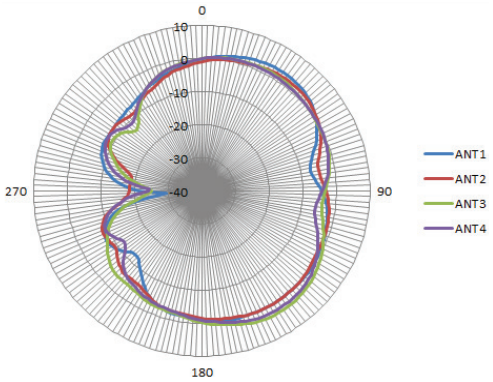
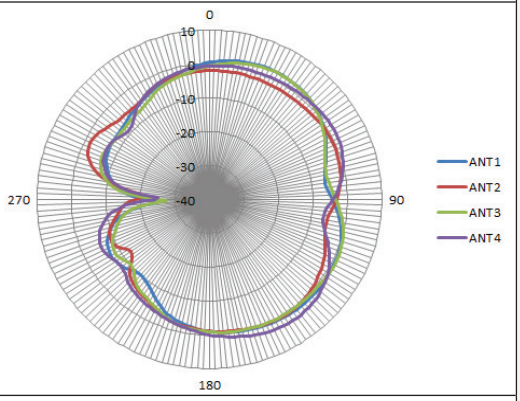
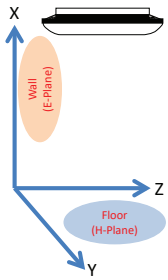
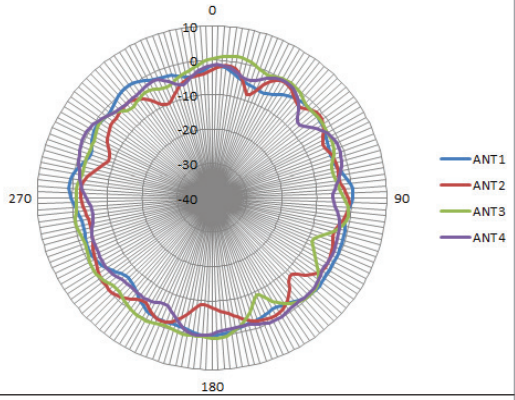
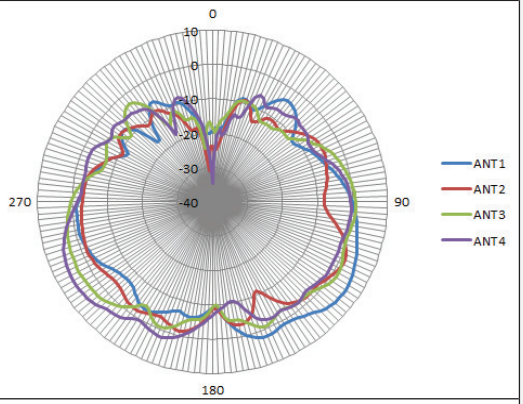
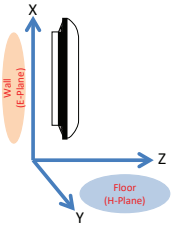
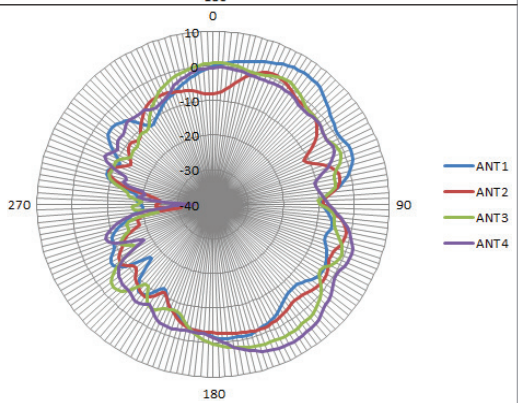
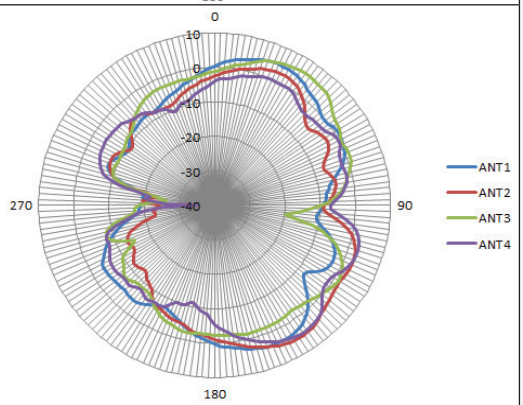
## Enterprise Security

- 192-bit Enterprise and 128-bit Personal encryption (802.11i)
- SSID/Guest/Station Isolation
- IP/MAC address filtering
- Captive Portal (Facebook, Google, Line, Weibo, E-mail auth.)
- Supports RADIUS client and Cipher negotiation
- Supports External Captive Portal and walled garden

## Technical Specifications

| | | |
|---|---|---|
| **General** | | |
| Interfaces | • IEEE 802.11ax Wi-Fi 6<br>• IEEE 802.11a/b/g/n/ac Wave 2 wireless | • 1 x 10/100/1000/2500 Mbps Ethernet Port<br>• 1 x 10/100/1000 Mbps Ethernet Port<br>• 1 x RJ45 Console port |
| Standards | • IEEE 802.11a/b/n/g/ac/ax<br>• IEEE 802.3az Energy-Efficient Ethernet (EEE)<br>• IEEE 802.3at Power over Ethernet (PoE) | • IEEE 802.3i/u/ab<br>• IEEE 802.3x Flow Control |
| LEDs | • Power/Cloud<br>• 2.4 GHz<br>• 5 GHz | • LAN 1 (PoE)<br>• LAN 2 |
| Antenna | • 4 x 4 Internal omni-directional antennas<br>• 2.4 GHz: 3 dBi<br>• 5 GHz: 4 dBi | |
| Maximum Output Power | • 2.4 GHz: 20 dBm | • 5 GHz: 20 dBm |
| Data Signal Rate | • 2.4 GHz: Up to 1147 Mbps[2] | • 5 GHz: Up to 2402 Mbps[2] |
| **Functionality** | | |
| Security Features | • 192-bit Enterprise encryption<br>• Latest 802.11 128-bit AES with SAE<br>• 128-bit Enterprise encryption<br>• 802.11 128-bit AES<br>• MAC address filtering<br>• RADIUS server authentication | • SSID isolation<br>• Guest isolation<br>• Captive portal<br>• Station isolation |
| Maximum SSIDs | • Supports up to 16 SSIDs per device<br>• Up to 8 SSIDs per wireless band | |
| **Physical** | | |
| Dimensions | • 22.45 x 22.39 x 5 cm (8.83 x 8.81 x 1.97 in) | |
| Weight | • Without mount: 935 g (2.06 lbs) | |
| Power Input | • IEEE 802.3at Power over Ethernet (PoE) on LAN 1 | • Power adapter: 12 V DC, 2.5 A |
| Power Consumption | • PoE: 25.1 W | • Power adapter: 27 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) | • 485,000 hours | |
| Mounting Options | • Ceiling mount<br>• Wall mount | • Desktop (horizontal) |
| Certifications | • CE Class B<br>• FCC Class B | • UL-2043<br>• IC Class B |

## Antenna Pattern

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

| Warranty | |
|---|---|
| Warranty | Limited Lifetime Warranty [1] |
| **Order Information** | |
| DBA-WW-Y1-LIC | 1 Year Cloud License |
| DBA-WW-Y3-LIC | 2 Year Cloud License |
| DBA-WW-Y5-LIC | 3 Year Cloud License |
| **Order Information** | |
| Part Number | Description |
| DBA-X2830P | Nuclias Cloud-Managed AX3600 Access Point |

[1] Active D-Link Nuclias account and valid device license required.
[2] Maximum wireless signal rate derived from the IEEE Standard 802.11ax 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.

Updated 04/06/2020