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DBA-X2830P

Nuclias AX3600 Wi-Fi 6 Cloud-Managed Access Point

Features

Next Generation Wi-Fi

- Latest 802.11ax Wi-Fi 6 wireless standand with increased connection speeds
- Up to 3.6 Gbps combined throughput[2]
- 4 x 4 MU-MIMO with 4 spatial streams
- Better performance in highly congested areas
- Optimised encoding, packing more data into the same radio waves
- 192-bit Enterprise and 128-bit Personal encryption (802.11i)

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
- Instant alerts and notifications

The DBA-X2830P Nuclias AX3600 Wi-Fi 6 Cloud-Managed Access Point brings next-generation Wi-Fi technology to SMB, retail, hospitality, campus, as well as managed service providers. By combining high-speed 802.11ax Wi-Fi with dual-band technology and 2.5G Ethernet, it provides lightning-fast access to bandwidth-intensive applications such as data, voice and video streaming, even in highly congested environments.

The DBA-X2830P can be easily deployed with zero-touch provisioning and controlled through Nuclias Cloud Management[1] via the web-browser portal or the Nuclias mobile app for tablets. Once connected, the DBA-X2830P automatically retrieves 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. This allows network administrators to focus more on providing reliable connectivity and services and spend less time managing devices.

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

Simpler to install and **easier to manage**

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.

Unlimited scalability of supported APs

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

Reporting and analytics

Zero-touch provisioning

€ **Pay-as-you grow** Subscription

Technical Specifications

General
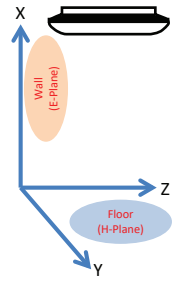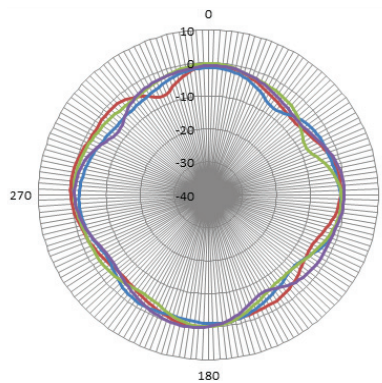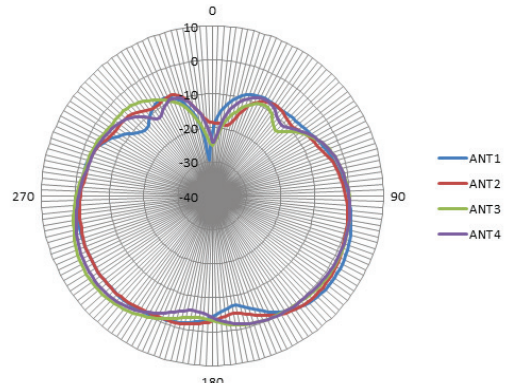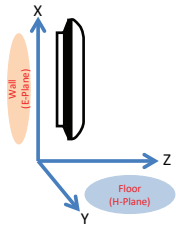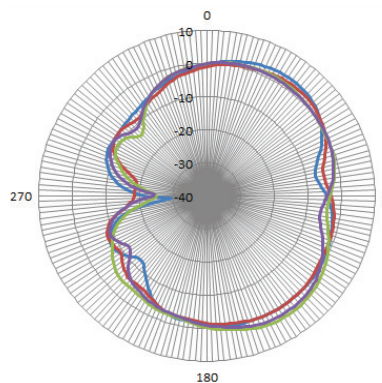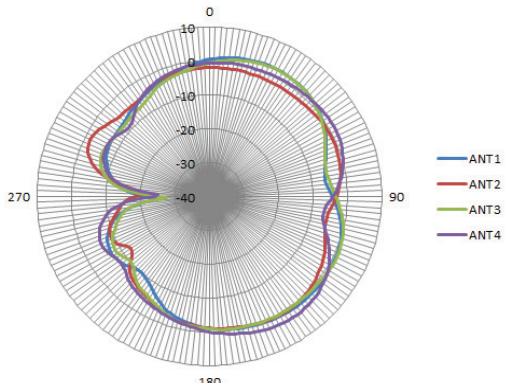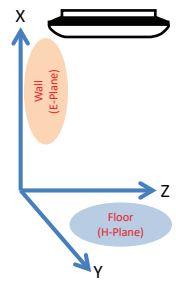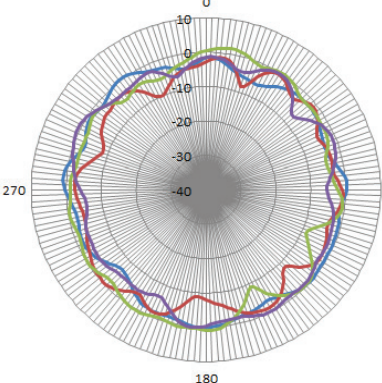
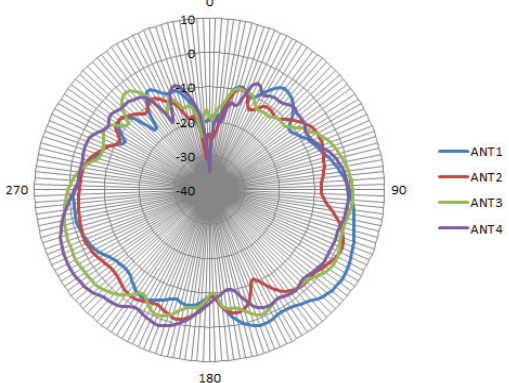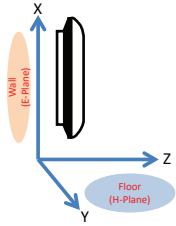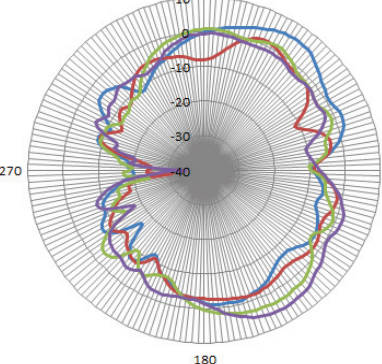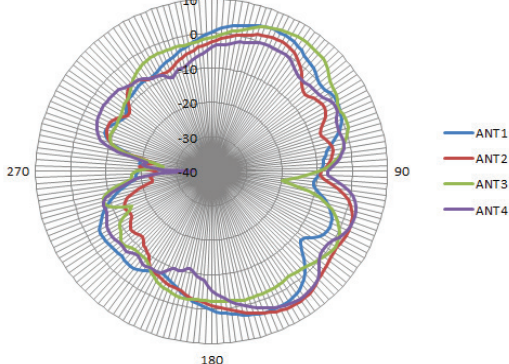|		
Interfaces	• IEEE 802.11ax Wi-Fi 6 • IEEE 802.11a/b/g/n/ac Wave 2 wireless	• 1 x 10/100/1000/2500 Mbps Ethernet Port • 1 x 10/100/1000 Mbps Ethernet Port • 1 x RJ45 Console port
Standards	• IEEE 802.11a/b/n/g/ac/ax • IEEE 802.3az Energy-Efficient Ethernet (EEE) • IEEE 802.3at Power over Ethernet (PoE)	• IEEE 802.3i/u/ab • IEEE 802.3x Flow Control
LEDs	• Power/Cloud • 2.4 GHz • 5 GHz	• LAN 1 (PoE) • LAN 2

Antenna	• 4 x 4 Internal omni-directional antennas
	  • 2.4 GHz: 3 dBi
	  • 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 • Latest 802.11 128-bit AES with SAE • 128-bit Enterprise encryption • 802.11 128-bit AES • MAC address filtering	• RADIUS server authentication • 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	• 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 (not included): 12 V DC, 2.5 A
Power Consumption	• PoE: 25.1 W	• Power adapter (not included): 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 • Wall mount	• Desktop (horizontal)
Certifications	• CE Class B • FCC Class B	• UL-2043 • 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		

Nuclias Cloud Network Solution Features

Scalability	• Unlimited number of APs can be supported	
Out-of-band Cloud Architecture	• 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. • Client data traffic flows directly to the destination on the LAN or across the WAN.	
Setup Highlights	• Zero-touch provisioning • Centralised management of all network devices	• Flexible WLAN group creation
Wi-Fi Highlights	• Enterprise-class 802.11ac support • Band steering	• PSK (WPA/WPA2), 802.1x/RADIUS authentication • SSID scheduling
Guest Wi-Fi	• Open, click-through, PSK, captive portal • Social login with Facebook and Google • Multiple admin portal access privileges	• SSID scheduling • Free Wi-Fi access with time limit
RF Features	• Channel and power control per device group • Background scan of APs and clients	• Client isolation • Selected auto channel for both 2.4 and 5 GHz bands
Security	• IP and MAC Filtering • Rogue AP detection • All traffic from AP to cloud is encrypted • Client data traffic is locally terminated (not sent to the cloud)	
Network Health Monitoring and Troubleshooting	• Single pane dashboard view of all connected devices and clients, with usage details • Email notifications for network alerts • Track individual Wi-Fi client data: signal strength, speed, association history • Event logs sorted by venue, SSID, AP, client	• Event logs for client joining, firmware upgrade, channel change, device online, device registration etc. • Alarms generated for AP status • Integrated ping and traceroute tools • Visual LED to check for cloud connectivity • Remotely reboot APs
Reporting	• Complete traffic report (per device group, AP, SSID, radio) • Unique client report (tracking 2.4 vs 5 GHz clients over time) • Report duration: up to 2 months (archived report duration can be customized based on local regulations)	
IPv6 Readiness	• Future ready with full support for IPv6	
Other Highlights	• Customisable management console • Schedule-based over-the-web firmware upgrade • Import floor plan to venue to visualize physical location of APs	• Google Maps integration • Multi-language support • Responsive console design that auto fits viewing in different devices (laptops, tablets, mobile phones

Supported Hardware	• Access Points
	  • DBA-1210P (Dual-Band AC1300)
	  • DBA-2520P (Dual-Band AC1900)
	  • DBA-2820P (Dual-Band AC2600)
	  • DBA-X1230P (Dual-Band AX1800)[3]
	  • DBA-X2830P (Dual-Band AX3600)
	  • DBA-3620P (Outdoor Dual-Band AC1300)
	  • DBA-3621P (Outdoor Dual-Band AC1300)
		• Switches
		  • DBS-2000-10MP (10-Port Gigabit, Max PoE)
		  • DBS-2000-28 (28-Port Gigabit)
		  • DBS-2000-28MP (28-Port Gigabit, Max PoE)
		  • DBS-2000-28P (28-Port Gigabit, PoE)
		  • DBS-2000-52 (52-Port Gigabit)
		  • DBS-2000-52MP (52-Port Gigabit, Max PoE)

Subscription Licenses	• DBA-WW-Y1-LIC
	  • Nuclias 1 Year Cloud Managed Access Point License
		• DBA-WW-Y3-LIC
		  • Nuclias 3 Year Cloud Managed Access Point License

[1] Active D-Link Nuclias account and valid device license required. 1-year license included.
[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.
[3] Available Q4 2020

For more information: www.dlink.com

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