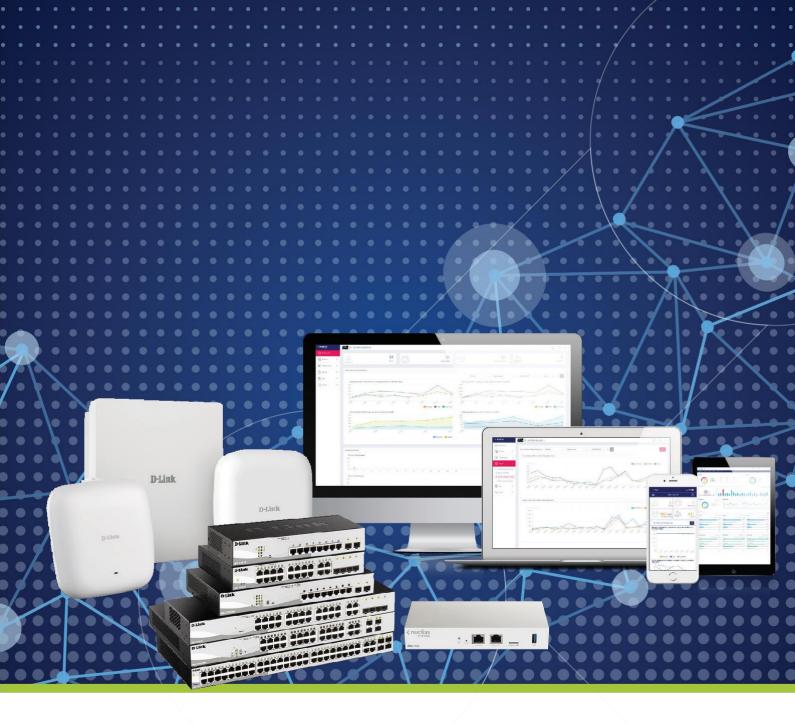
NUCLIAS CONNECT SOLUTION







Nuclias Connect

Nuclias Connect is a management solution which makes wireless networks easier to manage, easier to configure, and easier to expand. It empowers network administrators through its centralized control, configuration, and customization capabilities, while minimizing their onsite workload.

Nuclias Connect analytics provide an understanding of network and its usage, that is robust and intuitive, while minimizing your upfront investment through its legacy HW compatibility. It can be used either as an on-premises software management platform, with a hardware controller, or as a cloud solution hosted on a private cloud service for remote access.

Supports multi-site management so network administrators can set different configurations and authority levels for head and regional offices. APs can be pre-configured before being dispatched to regional offices.

Enables service providers to send pre-configured APs to their customers and remotely manage customers' wireless network access and security.

Manage wireless network traffic by configuring separate internal networks for different subnets including easily creating guest networks with customisable login pages.

Easy to scale the network as new access points are automatically discovered allowing them to be quickly managed and deployed.

Automatically manages RF output for multiple APs, optimizing the number of available wireless channels and coverage. This results in reduced channel interference and provides faster total throughput and connection reliability.

Saves power and improves security with the wireless scheduler feature that switches off wireless connectivity when not needed.

Key Features



Upto Up to 1,500 Access Points and Switches Management



Inexpensive Hardware Controller



Searchable Event Log and Change Log



Free-to-Download

Management Software



Traffic Reporting & Analytics



Authentication via Customizable Captive Portal, 802.1.x and RADIUS Server, POP3, LDAP, AD



Backwards-Compatibility



Remote Config. & Batch Config.



Multilingual Support



Intuitive Interface



Multi-Tenant & Role-Based Administration



Payment Gateway (Paypal) Integration and Front-Desk Ticket Management



Nuclias Connect Apps

Monitor and manage your network remotely on an iOS or Android device.







Easy Reporting

Nuclias Connect Management

Model	DNC-100	DNH-100
Max. Managed Devices	1,500	100
Application / Use Case	Large Scale Networks	Small-to-Medium Networks
Supported Devices	Access Points and Switches*	Access Points and Switches*
Deployment & Compatible Hardware	On-Premises & Virtual Server on Cloud 1U Rack Mount Server Appliance 2 x Gigabit Ethernet USB, 512GB/1TB Storage Windows / Linux OS	On-Premises 1U Rack Mount Appliance 1 x Gigabit Ethernet 1 x USB 3.0 1 x Micro SD Storage (64GB SDD)
Single Sign on	Yes	Yes
App for Management	IOS and Android Mobile Phone	IOS and Android Mobile Phone
Supported Apps	Nuclias Connect Apps	Nuclias Connect Apps

^{*}DAP Series Access Points and Selected Series of Switches



Technical Specifications

Network Management		
Maximum Number of Managed Access Points and Switches Per Controller	1,500 (DNC-100)100 (DNH-100)	
Compatible Access Points and Switches	 DAP Series 802.11n, 802.11ac, 802.11ax & 802.11be Access Points DGS-1100, DGS-1210 & DXS-1210 Series Switches 	
WLAN Management Features	 AP grouping Multi-tenancy Visualized topology NAT pass-through Setup wizard AP discovery (layer 2 and layer 3) Reporting system 	
Wireless Features		
AP Management Configuration	 AP Profile SSID – Name, Multiple SSID, Wireless, Security, User Auth 802.1Q VLAN, VLAN Group, PVID configuration & SSID Mapping Firmware over the Air (FOTA) Scheduling of Firmware update & Configuration update 	
RF Management and Control Configuration	 Auto Output Power Control Auto Channel Channel Width - 20/40/80/160 MHz 	
Multiple SSIDs per Radio (AP) Configuration	 8 per Radio 16 for Dual band (2.4GHz and 5GHz) & 24 for Tri band (2.4GHz, 5GHz & 6GHz) 	
Advanced Wireless Features Configuration	 Band steering L2 seamless roaming / Fast Roaming Support for 11k/v/r Bandwidth / Rate Limiting – Unicast and Multicast Airtime fairness IGMP Snooping 	
Monitoring	 Dashboard Network Overview Network Sites, Access Points, Wireless Client, Network Traffic AP/Wireless Clients – Network / Site, IP & MAC Address, Auth Type, RSSI, SSID Network Topology, AP model, Channel, firmware Ver, Auth type Floor plan Logs – SNMP Traps, Syslog, System Event Log, Device Log, Audit log E-Mail Alert Notification – Device Online, Offline, Restart, Profile Update 	
Security Configuration	 WEP 64/128-bit, WPA/WPA2/WPA3™ Personal (PSK)/ Enterprise (EAP) & 192-bit Security, Enhanced Open, TKIP, SSL/TLS 802.1x and RADIUS Authentication Rouge AP Detection L2 / Client Isolation MAC Filtering & IP Filtering ACL 	



User Authentication		
Guest Portal	Captive portal	
Authentication Method Configuration	 Local POP3 RADIUS LDAP Voucher Facebook & Google login 	
Hotspot Features Configuration	 Built-in support for voucher-based authentication Built-in hotspot manager for voucher creation and guest management Rate limiting and bandwidth control for guest and hotspot portal 	
System Management		
Management Interface	Web-based user interface (HTTPS)	
Order Information		
Part Number	Description	
DNC-100	Nuclias Connect Controller – Upto 1,500 Devices Management	
DNH-100	Nuclias Connect Controller – Upto 100 Devices Management	



Nuclias Connect Access Points – Wi-Fi 6 / 6E / 7

Model	DAP-E9560*	DAP-X5480*	DAP-X3060OU	DAP-X3060	DAP-X2850	DAP-X2810
Product Image	Drine	D-Sain.	D-Link	Dition	trins.	D f.link
General						
Environment	Indoor	Indoor	Outdoor	Indoor	Indoor (HD)	Indoor
OFDMA	✓	✓	✓	✓	✓	✓
IEEE Standard	802.11 a/b/g/n/ ac/ax/be	802.11 a/b/g/n/ ac/ax	802.11 a/b/g/n/ ac/ax	802.11 a/b/g/n/ ac/ax	802.11 a/b/g/n/ ac/ax	802.11 a/b/g/n/ ac/ax
2.4GHz Speed	720 Mbps	574 Mbps	574 Mbps	574 Mbps	1147 Mbps	574 Mbps
5GHz Speed	2880 Mbps	2402 Mbps	2402 Mbps	2402 Mbps	2402 Mbps	1201 Mbps
6GHz Speed	5760 Mbps	2402 Mbps	-	-	-	_
Functionality	!		'	<u> </u>		<u> </u>
Number of SSIDs	24 (8 per radio)	24 (8 per radio)	16 (8 per radio)	16 (8 per radio)	16 (8 per radio)	16 (8 per radio)
PoE						
PoE Standard	802.3bt	802.3at	802.3at	802.3at	802.3at	802.3at
Physical			<u> </u>			
Ethernet Interface	1 x 10 GbE 1 x GbE	1 x 2.5 GbE 1 x GbE	1 x 2.5 GbE	1 x 2.5 GbE	1 x 2.5 GbE 1 x GbE	1 x GbE
Console port	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45	1 x RJ45
Technical Specifica	ation	<u> </u>				
Maximum Output Power	2.4GHz: 23dBm 5GHz: 21dBm 6GHz: 21dBm	2.4GHz: 23dBm 5GHz: 21dBm 6GHz: 21dBm	2.4GHz: 23dBm 5GHz: 22dBm	2.4GHz: 23dBm 5GHz: 22dBm	2.4GHz: 28dBm 5GHz: 25.5dBm	2.4GHz: 23dBm 5GHz: 26dBm
Antennas	2x2 Internal Omni-Directional	2x2 Internal Omni-Directional	2x2 Internal Omni-Directional	2x2 Internal Omni-Directional	4x4 Internal Omni-Directional	2x2 Internal Omni-Directional
Antenna Gain	2.4GHz: 4 dBi 5GHz: 5 dBi 6GHz: 5 dBi	2.4GHz: 4 dBi 5GHz: 5 dBi 6GHz: 5 dBi	2.4GHz: 5 dBi 5GHz: 7.3 dBi	2.4GHz: 3 dBi 5GHz: 3 dBi	2.4GHz: 3.5 dBi 5GHz: 5.5 dBi	2.4GHz: 3.2 dBi 5GHz: 4.3 dBi
Mounting Type	Ceiling/Wall/ Desktop	Ceiling/Wall/ Desktop	Pole/ Wall	Ceiling/Wall/ Desktop	Ceiling/Wall/ Desktop	Ceiling/Wall/ Desktop
Security Lock	Yes	Yes	Yes	Yes	Yes	Yes
Operating Temperature	0°C to 40°C	0°C to 40°C	-30°C to 60°C	0°C to 40°C	0°C to 40°C	0°C to 40°C
IP Rating			IP68			
Management	Nuclias Connect	Nuclias Connect	Nuclias Connect	Nuclias Connect	Nuclias Connect	Nuclias Connect

^{*} Roadmap and will be available in selected countries



Technical Specification			
AP Management	 AP Profile SSID – Name, Multiple SSID, Wireless, Security, User Auth VLAN – VLAN configuration & SSID Mapping WEB/CLI 		
RF Management and Control	 Auto Output Power Control Access point modes: AP/WDS-Bridge/WDS with AP/Wireless client Auto Channel, Channel Width - 20/40/80/160 MHz 		
Multiple SSIDs per Radio (AP)	 8 per Radio 16 for Dual band (2.4GHz and 5GHz) & 24 for Tri band (2.4GHz, 5GHz & 6GHz) 		
Advanced Wireless Features	 Band steering L2 seamless roaming / Fast Roaming Support for 11k/v/r, IPv4 & IPv6. Bandwidth / Rate Limiting – Unicast and Multicast, QoS, Traffic priority Airtime fairness, Load Balancing and Localized Throttling DHCP Server, SNMPV1/V2/V3 IGMP Snooping 		
Security	 WEP 64/128-bit, WPA/WPA2/WPA3™ Personal/Enterprise & 192-bit Security, PEAPV1/EAP-GTC, Enhanced Open, WPA-EAP, TKIP 802.1x and RADIUS Authentication Rouge AP Detection L2 / Client Isolation ACL-MAC Filtering & IP Filtering 		
Wi-Fi 6 Features Compliance	 A-MPDU with A-MSDU OFDMA – DL and UL M-BSSID 2x2 / 4x4 MU-MIMO (on 2.4GHz & 5 GHz Spectrum) Operating Mode Target Wake Time (TWT) Wi-Fi Agile Multiband 		
User Authentication			
Guest Portal	Captive portal		
Authentication Method	 Local POP3 RADIUS LDAP Voucher Facebook & Google login 		
Hotspot Features	 Built-in support for voucher-based authentication Built-in hotspot manager for voucher creation and guest management Rate limiting and bandwidth control for guest and hotspot portal 		



Ordering Information		
Part Number	Description	
DAP-X2810/UDL	Nuclias Connect AX1800 Wi-Fi 6 Dual-Band PoE Access Point	
DAP-X2850/UDL	Nuclias Connect AX3600 Wi-Fi 6 Dual-Band PoE Access Point	
DAP-X3060	Nuclias Connect AX3000 Wi-Fi 6 Dual Band PoE Access Point	
DAP-X3060OU	Nuclias Connect AX3000 Wi-Fi 6 Dual Band Outdoor PoE Access Point	
DAP-X5480	Nuclias Connect AX5400 Wi-Fi 6E Tri-Band PoE Access Point	
DAP-E9560	Nuclias Connect BE11000 Wi-Fi 7 Tri-Band PoE Access Point	
DAP-E9560OU	Nuclias Connect BE11000 Wi-Fi 7 Tri-Band Outdoor PoE Access Point	
DAP-E19000	Nuclias Connect BE19000 Wi-Fi 7 Tri-Band PoE Access Point	