

Nuclias Network Controller

The Nuclias Network Controller is D-Link's advanced network management solution. It evolved from a basic management tool into a robust and scalable networking platform tailored for diverse environments. The DNH-1000 is designed for medium to large networks. It features built-in Nuclias Connect software and supports the management of up to 500 devices (APs/switches). It is engineered to offer flexible network management capabilities, including topology visualization, configuration backup and restoration, and consistent management across devices.

DNH-1000

- Manage all APs and aggregation/edge switches
- Cost-effective hardware controller
- Backwards compatibility
- Intuitive user interface
- Traffic reporting and analytics
- Remote configuration and batch configuration
- Online firmware upgrade (APs/switches)
- Multi-tenant and role-based administration
- Searchable and auditable event and change logs
- 802.1x and RADIUS server, POP3, LDAP, social login (FB/Google), click through
- Multilingual support
- Front desk ticket management
- Authentication and payment gateway (Paypal) integration via customizable captive portal
- Store system logs via USB device



User Benefits



Centralized Device Management

Enabling administrators to manage all devices from a single platform, automate and schedule configurations, and deploy firmware updates across multiple devices simultaneously for streamlined network operations.



Role-Based Administration

Allowing network administrators to assign customized access levels and permissions based on roles, ensuring secure and efficient management while empowering localized control for specific network segments.



Real-Time Monitoring and Alerts

Monitor real-time network conditions, generate detailed performance reports, and receive instant alerts for issues or changes, all from a centralized dashboard.



Traffic Reporting and Analytics

Offers advanced traffic reporting and analytics, providing detailed insights into network usage, identifying trends, and optimizing performance through real-time data visualization and customizable reports.



VLAN and Access Control

Enhances network security and efficiency with VLAN and access control, allowing administrators to segment networks, prioritize traffic, and enforce tailored access policies for improved resource management and protection.



Auto RF Management and Bandwidth Optimization

Enhances wireless performance with Auto RF Management and Bandwidth Optimization, automatically adjusting channel and power settings while efficiently allocating bandwidth to ensure optimal connectivity and minimize interference.



Multi-SSID and Captive Portal Authentication

Supports Multi-SSID and Captive Portal Authentication, enabling administrators to create separate networks for different user groups while providing secure, customizable login options for guests and employees.



Online Firmware Upgrade

Convenient online firmware upgrades for administrators to easily update device software remotely, ensuring access to the latest features, security patches, and performance improvements without the need for manual intervention.

Supported Devices

Device Type	Technology Type	Model	HW Version
Access Points	Wi-Fi 7	DAP-E9560	A1
	Wi-Fi 6	• DAP-X2810	A1
		• DAP-X2850	A1
		• DAP-X3060	A1
	Wi-Fi 5	• DAP-2662	A1
Switch	Aggregation	• DXS-3130-28/28P/32S	A1
	Edge	• DGS-1100-10MPV2/10MPPV2/16V2/18PV2/24PV2/24V2/26MPV2/26MPPV2	Ax
		• DGS-1100-18PV2	J2
		• DGS-1210-10/10MP/10P/20/26/28/28MP/28P/52/52MP	Fx
		• DGS-1210-08P/16/24/24P/48	Gx
		• DXS-1210-10TS/10UP/12SC/12TC/16TC	B1
		• DMS-1250-10S/10SP/10SPL/12/12TP/18/18P/28/28P	A1
		• DXS-1250-28YP	A1

Technical Specifications

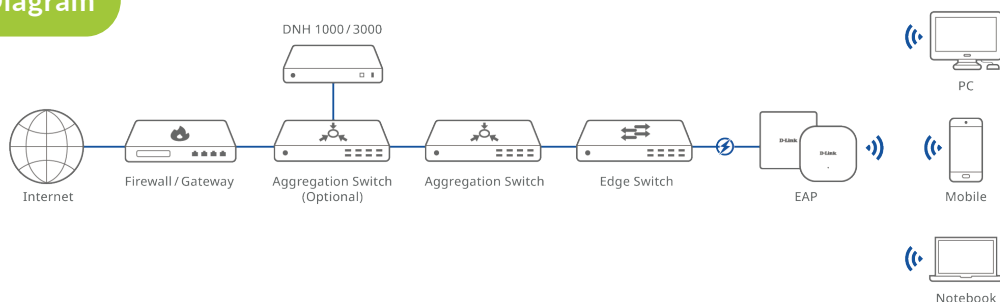
Hardware Design

Device Interface	• 2.5G Ethernet Port x 1	• USB 3.0 x 1
LEDs	• Power/Status	• LAN
Dimensions	190 x 120 x 38 mm	
Weight	640 g	
Power Supply	External, 12V/2A, 100-240V AC-in	
Maximum Power Consumption	24 W	
MTBF	> 30,000 hours	
Operating Temperature	0°C to 40°C (32°F to 104°F)	
Storage Temperature	-20°C to 70°C (-4°F to 158°F)	
Operating Humidity	10% to 90% non-condensing	
Storage Humidity	5% to 95% non-condensing	

Software

Management System	Nuclias Connect
Device Management	
Management Scale	Up to 500 devices
Network Type	Medium/large networks
Managed Devices	All EAPs, aggregation and edge switches

Connection Diagram



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