

## Product Highlights

### High-performance Wireless Connectivity

Extend your network and enjoy wireless speeds of up to 300 Mbps<sup>1</sup>, perfect for everyday business applications

### Flexible Operation

Configure to use as an access point, a wireless distribution system (WDS) with access point, a WDS bridge or a wireless client

### Scalable, Flexible, Centralised AP Management

Centrally manage up to 1000 APs with Nuclias Connect, complete with a multi-tenant structure that provides multi-layer management authority



## DAP-2230

# Wireless N PoE Access Point

## Features

### High-performance Connectivity

- IEEE 802.11n wireless<sup>1</sup>
- Up to 300 Mbps<sup>1</sup>
- Fast Ethernet 10/100 LAN port

### Multiple Operation Modes

- Access Point, Wireless Distribution System (WDS), WDS with AP, Wireless Client

### Made for Business-class Environments

- D-Link Nuclias Connect support for centralised and additional configuration options
- Ideal for indoor deployment<sup>2</sup>
- Traffic control/QoS
- Internal RADIUS server
- Web redirection

### Trusted Security Features


- WPA/WPA2 - Enterprise/Personal
- WPA2 - PSK/AES over WDS
- MAC address filtering
- Network Access Protection (NAP)
- ARP spoofing prevention
- WLAN partition

### Convenient Installation

- Supports 802.3af Power over Ethernet
- Wall and ceiling mounting bracket included

The DAP-2230 Wireless N PoE Access Point allows businesses to create a secure and manageable wireless network. Multiple operational modes, network management tools and security features gives network administrators more flexible deployment options. The DAP-2230 can be ceiling mounted, wall mounted or placed on a desktop to meet any wireless demands.

For centralise network management, administrators can use D-Link's free Nuclias Connect software or Nuclias Connect Hub (DNH-100)<sup>3</sup> to configure and manage multiple access points. In addition to streamlining the management process, Nuclias Connect provides network administrators with the means to verify and conduct regular maintenance checks remotely, eliminating the need to send personnel out to physically verify proper operation.



## D-Link Assist

Next Business Day Service

### Complimentary Next Business Day Service, as Standard

Your network is the backbone of your business. Keeping it running is essential, even if the unexpected happens. D-Link Assist is a rapid-response technical support service that replaces faulty equipment quickly and efficiently. Maximising your uptime and giving you the confidence that instant support is only a phone call away.

All D-Link products with 5-year or Limited Lifetime warranty come with complimentary Next Business Day Service. D-Link will send out a replacement product to you on the next business day after acceptance of a product failure. On receipt of the replacement product, you simply arrange the return of the defective product to us. Any products with a 2-year/3-year warranty can also benefit from the Next Business Day advance replacement service when the optional 3-year warranty extension has been purchased.

Find out more at [eu.dlink.com/services](http://eu.dlink.com/services)



Nuclias Connect is network management software that enables you to manage the network locally for dedicated privacy and security. It can be used either as an on-premises software management platform, or as a cloud solution hosted on a public cloud service.

Install the software on a local server on-site and manage up to 1,000 access points (APs), or optionally use the dedicated Nuclias Connect Hub<sup>3</sup> which can manage up to 100 APs.

### Flexibility to Meet Your Needs

Through software-based monitoring and remote management of all wireless APs on your network, Nuclias Connect offers tremendous flexibility compared to traditional hardware-based management systems. Configuration can be done remotely. Management software is customisable, and enables control and analytics of a broad or fine granularity, presentable in a variety of formats. Additionally, admins can provide and manage a variety of distributed deployments, including the option to configure settings and admin accounts in a specific manner for each deployment. Nuclias Connect gives you the financial and technical flexibility to expand from a small network to a larger one (up to 1,000 APs), while retaining a robust and centralised management system.







### Insights at a Glance

Gain an extensive understanding of your network through usage analytics and status reports which can be viewed at a glance. Insights derived from traffic data can create business value. Traffic can be viewed across the entire network, to the level of a single AP.

### Network Security & Data Privacy

Nuclias Connect balances the need for access convenience with the need for security. All communications over the system are encrypted, with your user data never leaving your possession. Additional security measures (such as firewalls) can also be added to your network, without undue technical difficulty.

### Key Features

-  Free-to-Download Management Software
-  License-Free Centralised Management
-  Backwards-Compatibility
-  Intuitive Interface
-  Inexpensive Hardware Controller
-  Traffic Reporting & Analytics
-  Remote Config. & Batch Config.
-  Multi-Tenant & Role-Based Administration
-  Searchable Event Log and Change Log
-  Authentication via Customisable Captive Portal, 802.1x and RADIUS Server, POP3, LDAP, AD
-  Multilingual Support
-  Payment Gateway (Paypal) Integration and Front-Desk Ticket Management



## Technical Specifications

### General

Device Interfaces	<ul style="list-style-type: none"> <li>• 802.11 n/g/b wireless<sup>1</sup></li> </ul>	<ul style="list-style-type: none"> <li>• 10/100BaseT Fast Ethernet LAN PoE port</li> </ul>
LED	<ul style="list-style-type: none"> <li>• Power / Status</li> </ul>	
Standards	<ul style="list-style-type: none"> <li>• IEEE 802.11n/g/b<sup>1</sup></li> </ul>	<ul style="list-style-type: none"> <li>• IEEE 802.3u/af</li> </ul>
Wireless Frequency Range	<ul style="list-style-type: none"> <li>• 2.4 to 2.4835 GHz</li> </ul>	
Antennas	<ul style="list-style-type: none"> <li>• Two internal 3 dBi</li> </ul>	
Maximum Output Power	<ul style="list-style-type: none"> <li>• 20 dBm</li> </ul>	

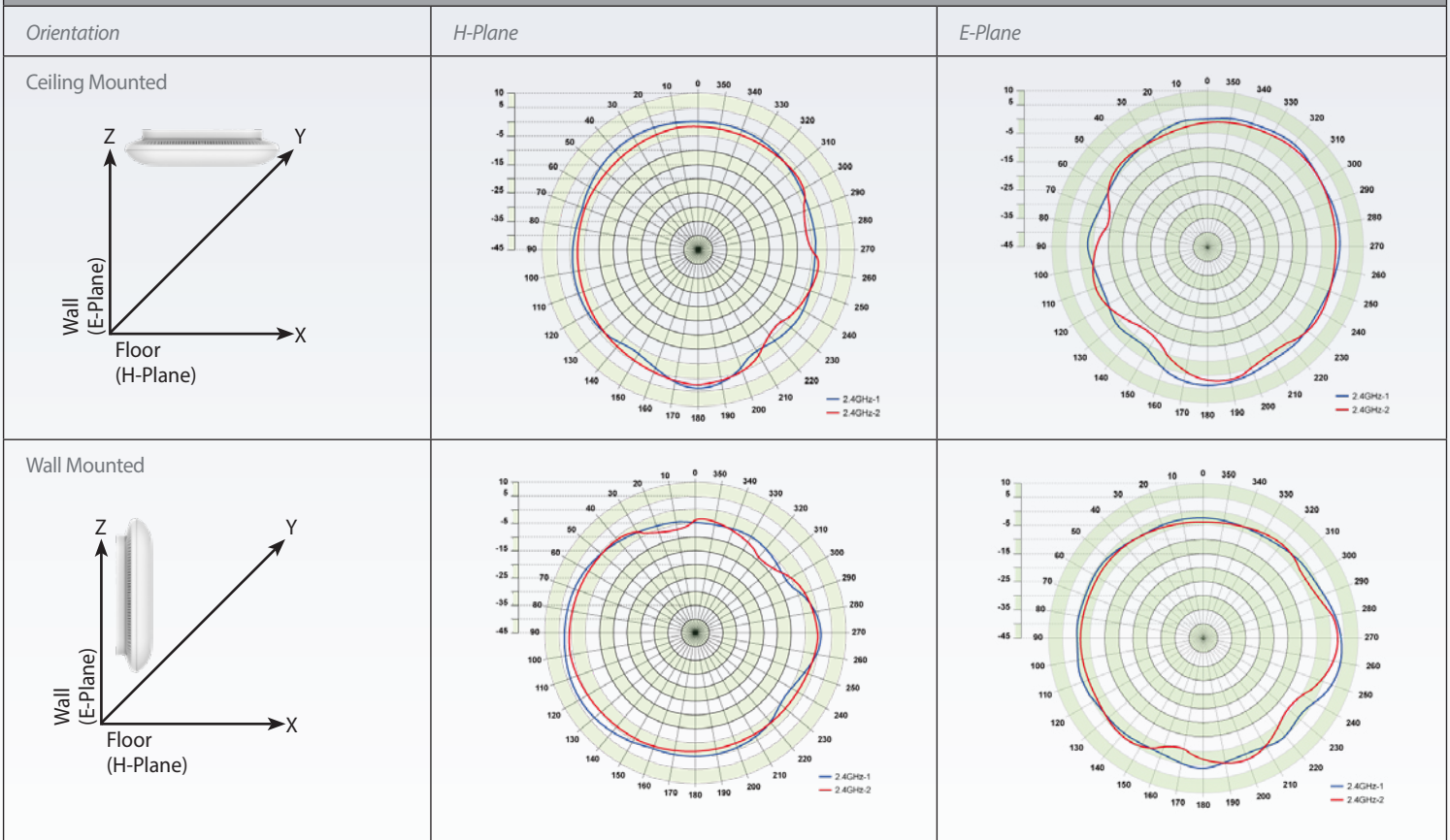
### Functionality

Security	<ul style="list-style-type: none"> <li>• WPA-Personal</li> <li>• WPA-Enterprise</li> <li>• WPA2-Personal</li> <li>• WPA2-Enterprise</li> </ul>	<ul style="list-style-type: none"> <li>• WEP 64/128-bit encryption</li> <li>• SSID broadcast disable</li> <li>• MAC address access control</li> <li>• Network Access Protection (NAP)</li> </ul>
Network Management	<ul style="list-style-type: none"> <li>• Telnet</li> <li>• Secure Telnet (SSH)</li> <li>• HTTP</li> <li>• Secure HTTP (HTTPS)</li> </ul>	<ul style="list-style-type: none"> <li>• Traffic control</li> <li>• SNMP</li> <li>• Nuclias Connect Software</li> <li>• Nuclias Connect Hub<sup>3</sup></li> </ul>

### Physical

Dimensions	<ul style="list-style-type: none"> <li>• 129 x 129 x 29 mm (5.08 x 5.08 x 1.14 inches)</li> </ul>	
Weight	<ul style="list-style-type: none"> <li>• 101.4 grams (3.56 ounces)</li> </ul>	<ul style="list-style-type: none"> <li>• 213.6 grams (7.5 ounces) with mounting kit</li> </ul>
Operating Voltage	<ul style="list-style-type: none"> <li>• 12V DC, 1 A (power adapter not included)</li> </ul>	<ul style="list-style-type: none"> <li>• 802.3af PoE</li> </ul>
Maximum Power Consumption	<ul style="list-style-type: none"> <li>• 5.76 watts</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: 0% to 90% non-condensing</li> </ul>	<ul style="list-style-type: none"> <li>• Storage: 5% to 95% non-condensing</li> </ul>
Certifications	<ul style="list-style-type: none"> <li>• FCC,</li> <li>• IC</li> <li>• CE</li> </ul>	<ul style="list-style-type: none"> <li>• UL</li> <li>• Wi-Fi® Certified</li> </ul>

### Antenna Pattern



## Nuclias Connect Network Management Features

WLAN Management		
Maximum APs per Installation <sup>4</sup>	• 1,000 (large scale installations)	• 100 (small scale installations)
WLAN Management Features	<ul style="list-style-type: none"> <li>• AP grouping</li> <li>• Multi-tenancy</li> <li>• Visualized topology</li> <li>• NAT pass-through</li> </ul>	<ul style="list-style-type: none"> <li>• Setup wizard</li> <li>• AP discovery (layer 2 and layer 3)</li> <li>• Report system</li> </ul>
User Authentication		
Guest Portal	• Captive portal	
Authentication Method	<ul style="list-style-type: none"> <li>• Local</li> <li>• POP3</li> <li>• RADIUS</li> </ul>	<ul style="list-style-type: none"> <li>• LDAP</li> <li>• Voucher</li> </ul>
Hotspot Features	<ul style="list-style-type: none"> <li>• Built-in support for voucher-based authentication</li> <li>• Built-in hotspot manager for voucher creation and guest management</li> </ul>	• Rate limiting and bandwidth control for guest and hotspot portal
Wireless Features		
RF Management and Control	<ul style="list-style-type: none"> <li>• Auto Output Power Control</li> <li>• Auto Channel</li> </ul>	• Self-healing around failed APs
Multiple SSIDs per Radio(AP)	• 8	
Advanced Wireless Features	<ul style="list-style-type: none"> <li>• Band steering</li> <li>• L2 roaming</li> </ul>	<ul style="list-style-type: none"> <li>• Bandwidth optimisation</li> <li>• Airtime fairness</li> </ul>
System Management		
Management Interface	• Web-based user interface (HTTPS)	
Minimum System Requirements	• Computer running Microsoft Windows 10 or server 2016 (64 bit)	
Scheduling	• Firmware update	• Configuration update
Supported Devices		
Indoor Wireless N Access Points	• DAP-2230 (Single-Band N300, F/W ver. 2.0)	• DAP-2310 (Single-Band N300, F/W ver. 2.0)
Indoor Wireless AC Access Points	<ul style="list-style-type: none"> <li>• DAP-2360 (Single-Band N300, F/W ver. 2.0)</li> <li>• DAP-2610 (Dual-Band Wave 2 AC1300, F/W ver. 2.0)</li> <li>• DAP-2660 (Dual-Band AC1200, F/W ver. 2.0)</li> </ul>	<ul style="list-style-type: none"> <li>• DAP-2662 (Dual-Band Wave 2 AC1200, WiFi4EU-ready)</li> <li>• DAP-2680 (Dual-Band AC1200, F/W ver. 2.0)</li> <li>• DAP-2695 (Dual-Band AC1750, F/W ver. 2.0)</li> </ul>
Outdoor Access Points	<ul style="list-style-type: none"> <li>• DAP-3315 (Single-Band N300, F/W ver. 2.0)</li> <li>• DAP-3362 (Dual-Band AC1200, F/W ver. 2.0)</li> </ul>	• DAP-3666 (Dual-Band Wave 2 AC1200, WiFi4EU-ready)

<sup>1</sup> Maximum wireless signal rate derived from IEEE standard 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, may lower actual data throughput rate. Environmental factors may adversely affect wireless signal range.

<sup>2</sup> This unit is designed for indoor environments, you might violate local regulatory requirements by deploying this unit in outdoor environments.

<sup>3</sup> Available Q4, 2019.

<sup>4</sup> Number of wireless access points supported depends on the specification of the computer on which DNC is installed. To support 1000 APs, a computer with at least an Intel Core i7 with 16 GB RAM and 4 TB hard drive, and 20 Mbps uplink bandwidth is recommended. To support 100 APs, a computer with at least an Intel Core i5 3.2GHz with 8 GB RAM and 2 TB hard drive, and 10 Mbps uplink bandwidth is recommended.



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

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