

AirPremier® N

For Business-Class Environments

- + Selectable Dual Band Connectivity for Increased Network Capacity
- + Ideal for Exterior Deployments

Multiple Operation Modes

- + Access Point
- + Wireless Distribution System (WDS)/Bridge
 - Point-to-Point
 - Point-to-Multiple Points
- + WDS with AP
- + Wireless Client
- + WISP (Wireless Internet Service Provider) Client Router¹

High Performance Connectivity

- + IEEE (Draft) 802.11n Wireless
- + Up to 300Mbps²

Trusted Security Features

- + WPA2™ - Enterprise/Personal
- + WPA™ - Enterprise/Personal
- + WPA2 - PSK/AES over WDS
- + 64/128-bit WEP Encryption
- + MAC Address Filtering

Convenient Installation

- + Supports 802.3af Power over Ethernet

Easy Management

- + Web Browser (HTTP) & HTTPS
- + Telnet
- + SNMP v1, v2c, and v3
- + SSH
- + D-View® 5.1 and 6.0
- + AP Manager II



AirPremier® N Dual Band Exterior PoE Access Point

Overview

D-Link®, an industry pioneer in wireless networking, introduces a solution for businesses seeking to deploy next generation draft 802.11n LANs. D-Link unveils its new AirPremier N Dual Band Exterior PoE Access Point (DAP-3520), designed for exterior deployments in support of small and medium business-class environments or enterprise corporations to provide secure and manageable dual band wireless LAN options for network administrators.

Versatile Access Point

The DAP-3520 allows network administrators to deploy a highly manageable and extremely robust dual band wireless network. The embedded antennas can provide optimal wireless coverage in either 2.4GHz (802.11g and draft 2.0 802.11n) or 5GHz (802.11a and draft 2.0 802.11n) bands. For advanced installations, this new high-speed Access Point has integrated 802.3af Power over Ethernet (PoE) support, allowing installation of this device in areas where power outlets are not readily available.

Enhanced Performance

The DAP-3520 delivers reliable wireless performance with maximum wireless signal rates of up to 300Mbps² in either the 2.4GHz or 5GHz wireless band. This, coupled with support for Wi-Fi Multimedia™ (WMM) Quality of Service features, makes it an ideal access point for audio, video, and voice applications.

When enabled, QoS allows the DAP-3520 to automatically prioritize traffic according to the level of interactive streaming, such as gaming or VoIP. The QoS feature also provides a drop-down menu option to select customized priority rules. Additionally, the DAP-3520 supports load balance features to ensure maximum performance by limiting the maximum number of users per Access Point and by Network Utilization to allow network congestion to dissipate.

Security

To help maintain a secure wireless network, the DAP-3520 provides the latest in wireless security technologies by supporting both Personal and Enterprise versions of WPA and WPA2 (802.11i) with support for RADIUS server backend. To further protect your wireless network, MAC Address Filtering, Wireless LAN Segmentation, Disable SSID Broadcast, Rogue AP Detection, Wireless Broadcast Scheduling, and Network Address Translation³ (NAT) are also included.

The DAP-3520 includes support for up to four VLANs for implementing multiple SSIDs to further help segment users on the network. The DAP-3520 also includes a wireless client isolation mechanism, which limits direct client-to-client communication for each SSID.

Multiple Operation Modes

To maximize total return on investment, the DAP-3520 can be configured to optimize network performance based on any one of its multiple operation modes: Access Point, Wireless Distribution System (WDS) with Access Point, WDS/Bridge (No AP Broadcasting) and Wireless Client. With WDS support, network administrators can set up multiple DAP-3520s throughout a facility and configure them to bridge with one another while also providing network access to individual clients. The DAP-3520 also includes Spanning Tree Protocol support for greater efficiency and assistance in avoiding broadcast storms when used in WDS. Additionally, the DAP-3520 includes a Wireless Internet Service Provider (WISP) Client Router mode³ to allow the DAP-3520 to wirelessly connect to a WISP access point and act as a router for wired clients on your LAN to share the same wireless Internet connection.



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Network Management

Network administrators have multiple options for managing the DAP-3520 including Web (HTTP), Secure Sockets Layer (SSL, which provides for a secure connection to the Internet), Secure Shell (SSH, which provides for a secure channel between local and remote computers), and Telnet (bi-directional, eight-bit byte oriented communications facility). For advanced network management, administrators can use the D-Link AP Manager II or D-View® SNMPv3 management module to configure and manage multiple access points from a single location. In addition to a streamlined management process, the AP Manager II or D-View software provides network administrators with the means of verifying and conducting regular maintenance checks without wasting resources by sending personnel out to physically verify proper operation.

With the selectable dual band functionality, PoE support, extensive manageability, versatile operation modes, and solid security enhancements, the new D-Link AirPremier N Dual Band Exterior PoE Access Point (DAP-3520) provides SMB environments with a business-class solution for deploying a wireless network in the workplace.

Exterior Installation and Performance

Ideal for exterior deployments, the DAP-3520's IP65 rated enclosure is weather resistant and designed to easily install beneath overhangs or in locations with limited protection from elements. With a built-in heater, the DAP-3520 is perfect for exterior installations where extreme weather is an issue. For optimized performance, the DAP-3520 includes a powerful directional antenna embedded in the front panel specifically designed to enhance point-to-point deployments, making superior outdoor connectivity possible. Additionally, optional two N-type antenna connectors are available if an alternative radiation pattern is required for the deployment.

Technical Specifications

Standards	+ IEEE Draft 2.0 802.11n	+ IEEE 802.11b
	+ IEEE 802.11a	+ IEEE 802.11g
	+ IEEE 802.3af	+ IEEE 802.3u
	+ IEEE 802.3x	+ IEEE 802.3
Network Management	+ Command Line Interface - Telnet - Secure (SSH) Telnet	+ Web Browser Interface - HTTP - Secure HTTP (HTTPS)
	+ SNMP Support - D-View® Module - Private MIB	+ AP Manager II
Security	+ WPA™-Personal	+ WPA-Enterprise
	+ WPA2™-Personal	+ WPA2-Enterprise
	+ 64/128-bit WEP	+ SSID Broadcast Disable
	+ MAC Address Access Control	+ Simple Firewall
Wireless Frequency Range	+ 2.4GHz to 2.4835GHz	+ 5.15GHz to 5.25GHz and 5.725GHz to 5.85GHz
Operating Modes	+ Access Point (AP)	+ WDS with AP
	+ WDS	+ Wireless Client
	+ WISP (Wireless Internet Service Provider) Client Router ¹	
LAN Port Speed	10/100/1000 Mbps	
Embedded Directional Antenna Peak Gain	+ 8dBi @ 2.4 GHz	+ 10dBi @ 5 GHz
Maximum Transmit Output Power	+ 17dBm @ 2.4 GHz	+ 16dBm @ 5 GHz



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Maximum Effective Isotropic Radiated Power (EIRP)	+ 28dBm @ 2.4 GHz	+ 29dBm @ 5 GHz
LEDs	+ Power	+ WLAN
	+ LAN	
Maximum Power Consumption	12.95 Watts	
Operating Voltage	48VDC +/- 10% for PoE	
Temperature	+ Operating: -4°F to 140°F (-20°C to 60°C)	+ Storing: -4°F to 149°F (-20°C to 65°C)
Humidity	+ Operating: 10% ~ 90% (Non-condensing)	+ Storing: 5% ~ 95% (Non-condensing)
Certifications	+ FCC Class B	+ Wi-Fi®
	+ CE	+ C-Tick
	+ IC	+ CSA
	+ UL 60950	
Ingress Protection Rating	IP65	
Weight	1.58 lbs (717g)	
Dimensions (WxHxD)	7.8" x 6.4" x 2.3" (198mm x 163mm x 58mm)	
Warranty	1-Year Limited ⁴	

¹ Wireless Internet Service Provider (WISP) Client Router mode requires firmware version 1.10 and above.

² Maximum wireless signal rate derived from IEEE Standard 802.11g, 802.11a, and draft 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, lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.

³ Network Address Translation (NAT) is only supported under WISP Client Router mode.

⁴ 1-Year limited warranty available only in the USA and Canada.

This product is based on IEEE draft 2.0.802.11n specifications and is not guaranteed to be forward compatible with future versions of IEEE 802.11n specifications. Compatibility with draft 802.11n devices from other manufactures is not guaranteed. All references to speed and range are for comparison purposes only. Product specifications, size, and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.