

AirPremier™ N

For Business-Class Environments

- + Selectable Dual Band Connectivity for Increased Network Capacity
- + Rugged Metal Chassis
- + Ideal for Indoor Deployments¹
- + Plenum-rated Housing

Multiple Operation Modes

- + Access Point
- + Wireless Distribution System (WDS) /Bridge
 - Point-to-Point
 - Point-to-Multiple-Points
- + WDS with AP
- + Wireless Client

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
- + Wall Mounting Brackets Included

Easy Management

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

AirPremier N Dual Band PoE Access Point with Plenum-rated Chassis

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 PoE Access Point (DAP-2590), designed specifically for business-class environments such as large or enterprise corporations to provide secure and manageable dual band wireless LAN options for network administrators.

Versatile Access Point

The DAP-2590 allows network administrators to deploy a highly manageable and extremely robust dual band wireless network. All three dual band antennas are detachable and 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. Enclosed in a plenum-rated metal chassis, the DAP-2590 adheres to strict fire codes for placement in air passageways. 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-2590 delivers reliable wireless performance with maximum wireless signal rates of up to 300Mbps¹ 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. Additionally, the DAP-2590 supports load balancing features to ensure maximum performance by limiting the maximum number of users per Access Point.

Security

To help maintain a secure wireless network, the DAP-2590 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, and Wireless Broadcast Scheduling are also included.

The DAP-2590 includes support for up to 8 VLANs for implementing multiple SSIDs to further help segment users on the network. It also includes a wireless client isolation mechanism, which limits direct client-to-client communication.

Additionally, the DAP-2590 supports Network Access Protection (NAP), which is a feature of Windows Server®



2008. NAP allows network administrators to define multiple levels of network access based on individual client's need. If a client is identified outside of their access area, the client will be automatically brought back to their permitted network access level.

Multiple Operation Modes

To maximize total return on investment, the DAP-2590 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-2590s throughout a facility and configure them to bridge with one another while also providing network access to individual clients. Also included are advanced features such as Load Balancing, which optimizes high network traffic volume, and redundancy for fail-safe wireless connectivity. Additionally, the DAP-2590 offers Spanning Tree Protocol support for greater efficiency and to avoid broadcast storms when used in WDS mode.

Network Management

Network administrators have multiple options for managing the DAP-2590 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



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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 remotely, eliminating the need to send personnel out to physically verify proper operation.

With the selectable dual band functionality, PoE support, a plenum-rated chassis, extensive manageability, versatile operation modes, and solid security enhancements, the new D-Link AirPremier N Dual Band PoE Access Point (DAP-2590) provides SMB environments with a business-class solution for deploying a wireless network in the workplace.

Technical Specifications

Standards	+ IEEE Draft 2.0 802.11n	+ IEEE 802.11a
	+ IEEE 802.11g	+ IEEE 802.3ab
	+ IEEE 802.3af	+ IEEE 802.3u
	+ 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	+ Network Access Protection
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/Bridge (No AP Broadcast)	+ Wireless Client
Dipole Antenna Gain	+ 4dBi @ 2.4 GHz	+ 6dBi @ 5 GHz
Maximum Transmit Output Power	+ 15dBm @ 2.4 GHz	+ 17dBm @ 5 GHz
Max. Effective Isotropic Radiated Power (EIRP)	+ 23.7dBm @ 2.4 GHz	+ 26.7dBm @ 5 GHz
LEDs	+ Power	+ 5GHz
	+ LAN	+ 2.4GHz
Maximum Power Consumption	12.5 Watts	
Operating Voltage	48VDC +/- 10% for PoE or 5V2.5A	
Temperature	+ Operating: 32°F to 104°F (0°C to 40°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®	+ IC + UL2043
Weight	1.7 lbs (762g)	
Dimensions (WxHxD)	6.5" x 1.7" x 7.3" (165mm x 43mm x 185mm)	
Warranty	1-Year Limited ³	

¹ This unit is designed for indoor environments, you might violate local regulatory requirements by setting up this unit in outdoor environments.

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 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 manufacturers 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.