D-Link®

Product Highlights

Fast 450Mbps 802.11n Wireless Radio

Selectable Dual Band Connectivity for Increased Network Capacity

Multiple Operation Modes

Configurable as an Access Point, Wireless Distribution System (WDS) with Access Point, WDS/Bridge, or Wireless Client

Advanced Management Features

Central WiFi Manager software controller provides scalable, flexible WLAN management solution

Limited **Lifetime** Warranty

DAP-2553

Air Premier® N Dual Band Gigabit PoE Access Point

Features

For Business-Class Environments
- Selectable Dual Band Connectivity for Increased Network Capacity
- Ideal for Indoor Deployments
- Periodical Key Change in WPA/WPA2- Personal
- Gigabit LAN port for Wired Connections up to 1000Mbps
- Detachable High Gain Antennas Increase Range

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

High Performance Connectivity
- IEEE 802.11a/g/n Wireless
- Up to 450Mbps[1]

Trusted Security Features
- WPA2™ - Enterprise/Personal
- WPA™ - Enterprise/Personal
- WPA2 - PSK/AES over WDS
- 64/128-bit WEP Encryption
- MAC Address Filtering
- 802.1X
- Up to 4 VLANS
- Wireless Client Isolation

Overview

The D-Link® DAP-2553 *Air*Premier N Dual Band Gigabit PoE Access Point provides businesses with a cost effective solution for deploying 802.11n local area networks (LANs). Ideal for business-class environments, such as large businesses or enterprise corporations, this access point provides secure and manageable dual band wireless LAN options for network administrators.

Versatile Access Point

The DAP-2553 AirPremier N Dual Band PoE Access Point allows network administrators to implement a highly manageable and extremely robust dual band wireless network. All three detachable dual band antennas supply optimal wireless coverage in either 2.4GHz (802.11g and 802.11n) or 5GHz (802.11a and 802.11n) frequency bands. For advanced installations, this 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-2553 delivers reliable wireless performance with maximum wireless signal rates of up to 450Mbps in either the 2.4GHz or 5GHz wireless band. Support for the Wi-Fi Multimedia™ (WMM) Quality of Service feature, makes it an ideal access point for audio, video, and voice applications. Additionally, this access point supports load balance features to ensure maximum performance.

Security

To help maintain a secure wireless network, the *Air*Premier N Dual Band PoE Access Point 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. This access point also includes MAC Address Filtering, Wireless LAN segmentation, Disable SSID Broadcast, Rogue AP Detection, and Wireless On/Off Scheduling to further protect your wireless network.

Convenient Installation
 • Supports 802.3af Power over Ethernet

Easy Management
 • Central Wi-Fi Manager
 • Web Browser (HTTP) & HTTPS
 • Telnet
 • SNMP v1, v2c, and v3
 • SSH
 • D-View 5.1 and 6.0
 • AP Array

D-Link Green
 • Wireless Scheduler

The *Air*Premier N Dual Band PoE Access Point includes support for up to 4 VLANs for implementing multiple service set identifiers (SSIDs) to further help segment users on the network. The DAP-2553 also includes a wireless client isolation mechanism to limit direct client-to-client communication.

Multiple Operation Modes

The DAP-2553 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-2553 access points 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 Spanning Tree Protocol support, which allows greater efficiency and avoids broadcast storms when used in WDS mode.

Network Management

Network administrators have multiple options for managing the DAP-2553 Access Point, including Web (HTTP), Secure Sockets Layer (SSL), which provides a secure connection to the Internet, Secure Shell (SSH), which provides a secure channel between local and remote computers, and Telnet.

For advanced network management, administrators can use the D-Link Central Wi-Fi Manager controller software to configure and manage multiple access points from a single location. Scalable and flexible, Central WiFiManager is accessible anytime, anywhere, though the Internet by using a web browser. In addition to a streamlined management process, Central Wi-Fi Manager software provides enterprise-level features, including bandwidth optimization, captive portal, and RF optimization. Also available is AP Array, allowing the management of a set of network devices as a single group for easy configuration and deployment. The DAP-2553 also has a wireless scheduler feature for power saving and added security.

With the selectable dual band functionality, PoE support, extensive manageability, versatile operation modes, and solid security enhancements, the D-Link DAP-2553 *Air*Premier N Dual Band PoE Access Point provides small to medium business (SMB) environments with an ideal business class solution for deploying a wireless network in the workplace.

Limited Lifetime Warranty

D-Link offers a Limited Lifetime Warranty on the DAP-2553 Wireless Access Point to further its commitment to product quality and long term customer confidence.

Technical Specifications

Standards	• IEEE 802.11n • IEEE 802.11g • IEEE 802.3af • IEEE 802.3	• IEEE 802.11a • IEEE 802.11ab • IEEE 802.11u

Network Management	• Central Wi-Fi Manager
	• Command Line Interface
	  • Telnet
	  • Secure (SSH) Telnet
	• D-View 6.0
	• SMNP Support
	  • Private MIB
		• Web Browser interface
		  • HTTP
		  • Secure HTTP (HTTPS)
		• Central Wi-Fi Manager
		• AP Array

Security	• WPA™-Personal • WPA2™-Personal • 64/128-bit WEP • MAC Address Access Control • 802.1X	• WPA™-Enterprise • WPA2™-Enterprise • SSID Broadcast Disable • Network Access Protection
Wireless Frequency Range[2]	• 2.4GHz (2.4GHz to 2.4835GHz)	• 5GHz (5.15GHz to 5.35GHz and 5.47GHz to 5.85GHz)
Operating Modes	• Access Point (AP) • WDS with AP	• WDS • Wireless Client
Maximum Transmit Output Power[3]	• 21dBm @ 2.4GHz	• 20dBm @5GHz
Dipole Antenna Gain	• 3dBi@2.4GHz	• 5dBi@5GHz
LEDs	• Power • LAN	• 5Ghz • 2.4Ghz
Operating Voltage	• 5V 2A or 48VDC +/- 10% for PoE	
Temperature	• Operating: 32°F to 104°F (0°C to 40°C)	• Storage: -4°F to 149°F (-20°C to 65°C)
Humidity	• Operating: 10% ~ 90% (Non-condensing)	• Storage: 5% ~ 95% (Non-condensing)
Certifications	• FCC • CE	• IC • Wi-Fi®
Weight	• 0.7 lbs (323g)	
Dimensions (WxLxH)	• 7.8 x 4.7 x 1.3 in (198 x 120 x 32 mm)	

Warranty Information

Warranty	• Limited Lifetime[4]

Ordering Information

Part Number	Description
DAP-2553	*Air*Premier N Dual Band Gigabit PoE Access Point

[1]Maximum wireless signal rate derived from IEEE Standard 802.11g, 802.11a, and 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.
[2]Please note that operatin g frequency ranges vary depending on the regulations of individual countries and jurisdictions. The DAP-2553 may not be supported in the 5.25~5.35 GHz and 5.47~5.725 GHz frequency ranges in certain regions.
[3] The maximum transmit power is available with 2 antennas. The value for 1 antenna is 18dBm @ 2.4GHz and 17dBm @ 5GHz.
[4]Limited Lifetime Warranty available only in the U.S.A.
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.

Hardware Rev. B

Updated
January 2015 v1

For more information

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