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Building Networks for People

Product Highlights

Business-Class 802.11n Connectivity

Increase your network capacity with dual-band 802.11n wireless, captive portal user authentication, and support for up to 8 VLANs to help segment users

Convenient Deployment

Support for Power over Ethernet means easy integration via existing Ethernet cables without worrying about power outlets

High-Power Radio Design

Experience faster, more reliable connections from farther away with improved wireless speed, range, and coverage

DAP-2553

AirPremier N Dual Band PoE Access Point

Features

Multiple Operation Modes

- Access Point
- WDS
- WDS with AP
- Wireless Client

High Performance Connectivity

- IEEE 802.11n Wireless
- Up to 450 Mbps[1]
- Trusted Security Features
- MAC Address Filtering
- 802.1X
- Selectable Dual Band Connectivity for increased network capacity
- Ideal for indoor deployment
- Supports 802.3af Power over Ethernet

Easy Management

- Web Browser (HTTP & HTTPS)
- Telnet
- SNMP v1, v2c, and v3
- Central WiFiManager
- SSH
- AP Array

The D-Link DAP-2553 AirPremier N Dual Band PoE Access Point provides businesses with a versatile solution for deploying 802.11n local area networks (LANs). Designed specifically for business-class environments such as large or enterprise corporations, this access point provides secure and manageable dual-band wireless LAN connectivity for network administrators.

Versatile Access Point

The DAP-2553 allows network administrators to create a highly manageable and extremely robust dual-band wireless network. All three detachable dual-band antennas supply optimal wireless coverage for either the 2.4 GHz (802.11g and 802.11n) or 5 GHz (802.11a and 802.11n) frequency bands. In addition, 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.

Security

To help maintain a secure wireless network, the AirPremier 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 a 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. The AirPremier N Dual Band PoE Access Point includes support for up to 8 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.

DAP-2553 AirPremier N Dual Band PoE Access Point

Enhanced Performance

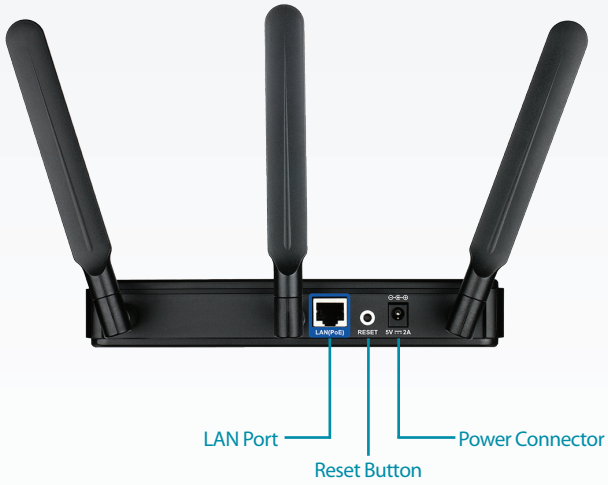
The DAP-2553 delivers reliable wireless performance with maximum wireless signal rates of up to 450 Mbps in either the 2.4 GHz or 5 GHz wireless band. Support for the Wi-Fi Multimedia™ (WMM) Quality of Service feature makes it an ideal access point for audio, video, and voice applications. Additionally, this access point supports load balancing features to ensure maximum performance.

Multiple Operation Modes

To maximize total return on investment, the DAP-2553 can be configured to optimize network performance based on any one of its multiple operation modes: Access Point, Wireless Client, Wireless Distribution System (WDS), and WDS with Access Point. With WDS support, network administrators can set up multiple DAP-2553s 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-2553 offers Spanning Tree Protocol support for greater efficiency and to avoid broadcast storms when used in WDS mode.

Network Management

Network administrators have wealth of options for managing the DAP-2553 including Web (HTTP), Secure Sockets Later (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. For advanced network management, administrators can use the D-Link Central WiFiManager to configure and manage multiple access points from a single location. In addition to a streamlined management process, the D-Link Central WiFiManager software provides network administrators with a way to verify and conduct regular maintenance checks without wasting resources by sending personnel out to physically verify proper operation. An AP Array allows for the management of a set of network devices as a single group for easy configuration and deployment. In addition, the DAP-2553 has a wireless scheduler feature for automatic power saving and added security. With the selectable dual-band functionality, PoE support, extensive manageability, versatile operation modes, and solid security enhancements, the new DAP-2553 AirPremier N Dual Band PoE Access Point provides small to medium business (SMB) environments with a business class solution for deploying a wireless network in the workplace.



Technical Specifications

Network

Standards	• IEEE 802.11n • IEEE 802.11g • IEEE 802.11a • IEEE 802.3ab	• IEEE 802.3af • IEEE 802.3u • IEEE 802.3
Network Management	• Telnet - Secure (SSH) Telnet • Web Browser Interface • HTTP - Secure HTTP (HTTPS)	• Central WiFiManager • SNMP Support • AP Array
Security	• WPA™-Personal • WPA-Enterprise • WPA2™-Personal • WPA2-Enterprise • 802.1X	• 64/128-bit WEP • SSID Broadcast Disable • MAC Address Access Control • Rogue AP Detection • Wireless Scheduler
VLAN/SSID Support	• 802.1q/Multiple SSID support for up to 8 VLANs	
Quality of Service (QoS)	• 4 Priority Queues	• WMM Wireless Priority

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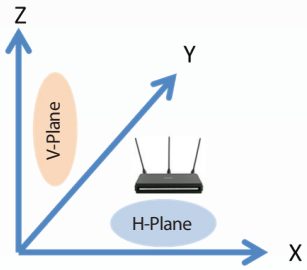
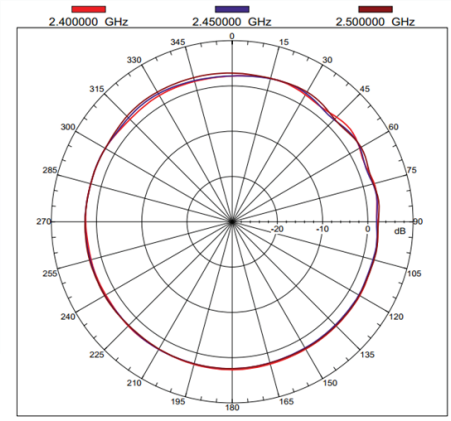
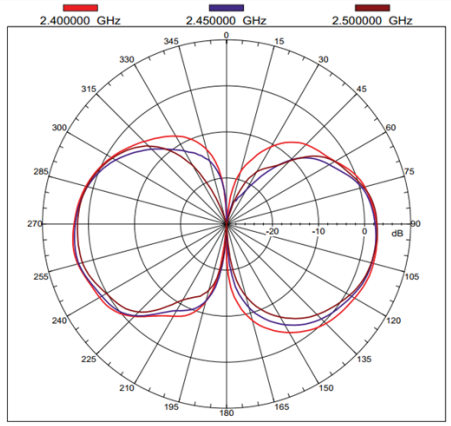
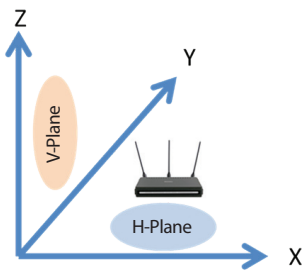
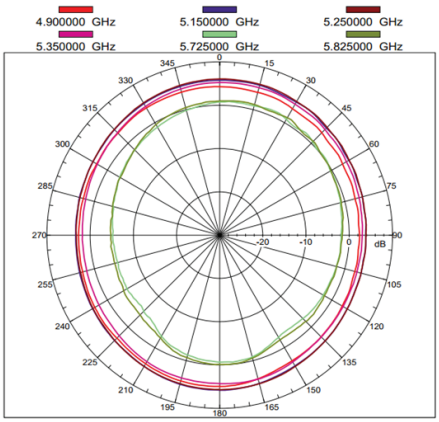
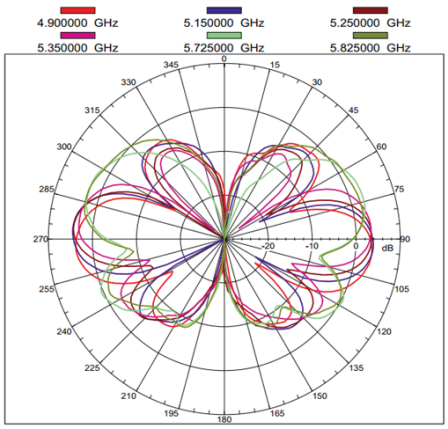
Physical		
Connectivity	• 802.11n/g/b/a wireless	• Gigabit PoE Ethernet LAN port
Wireless Frequency Range[2]	• 2.4 GHz to 2.4835 GHz	• 5.15 GHz to 5.35 GHz and 5.47 GHz to 5.85 GHz
Operating Modes	• Access Point (AP) • WDS with AP	• WDS/Bridge (No AP Broadcast) • Wireless Client
Dipole Antenna Gain	• 0.3 dBi @ 2.4 GHz	• 0.5 dBi @ 5 GHz
Maximum Transmit Output Power	• 22.5 dBm @ 2.4 GHz	• 22.5 dBm @ 5 GHz
LEDs	• Power • LAN	• 5 GHz • 2.4 GHz
Maximum Power Consumption	• With PoE: 8.94 watts	• Without PoE: 7.6 watts
Operating Voltage	• 5 V / 2 A or can also be powered by 802.3af PoE	
Temperature	• Operating: 32 to 104 °F (0 to 40 °C)	• Storage: -4 to 149 °F (-20 to 65 °C)
Humidity	• Operating: 10% to 90% (Non-condensing)	• Storage: 5% to 95% (Non-condensing)
Certifications	• FCC • CSA	• CE • WiFi®
Weight	• 323 g (0.72 lbs)	
Dimensions (W x H x L)	• 198 mm x 120 mm x 32 mm (7.79 x 4.72 x 1.25 inches)	

Antenna Pattern

Orientation	*H-Plane*	*V-Plane*
2.4 GHz 		
5 GHz 		

DAP-2553 AirPremier N Dual Band PoE Access Point

Order Information	
Part Number	*Description*
DAP-2553	AirPremier N Dual Band PoE Access Point

[1] 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, lower actual data throughput rate. Environmental factors will adversely affect wireless signal range.

[2] Please note that operating 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. 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.

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