

## Product Highlights

### Enjoy High-Performance Wireless Connectivity

Harness the power of IEEE 802.11ac Wave 2 wireless and experience wireless speeds of up to 1750 Mbps<sup>1</sup>, perfect for high-demand business applications

### Strong Security and Authentication Features

Maintain a highly secure network with a range of features including WPA/WPA2, wireless LAN segmentation, and VLAN support

### Flexible Operation

Configure to use as an access point, a Wireless Distribution System (WDS), a WDS with access point, or a wireless client



## DAP-2680

# Wireless AC1750 Wave 2 Dual-Band PoE Access Point

## Features

### High-Performance Connectivity

- IEEE 802.11ac Wave 2 wireless<sup>1</sup>
- Up to 1750 Mbps<sup>1</sup> speed
- Gigabit PoE-capable LAN port

### Extensive Management

- Web, SSL, SSH and Telnet management
- SNMP v1, v2c, v3
- D-Link Central Wi-Fi Manager support for additional configuration options
- AP Array utility support

### Trusted Security Features

- WPA/WPA2 Personal/Enterprise
- 64/128-bit WEP
- MAC filter and WLAN partitioning
- Local/POP3/RADIUS/PassCode/LDAP authentication for captive portal

### Convenient Installation

- Small form factor design for easy placement
- Supports 802.3at Power over Ethernet for remote installation
- Wall and ceiling mountable<sup>2</sup>

The DAP-2680 Wireless AC1750 Wave 2 Dual-Band PoE Access Point is designed to support small to medium business or enterprise environments by providing network administrators with secure and manageable dual-band wireless LAN options, and utilizing the cutting-edge speed of Wireless AC.

## Blazing Wireless Wave 2 AC Performance

The DAP-2680 delivers reliable, high-speed wireless performance using the latest 802.11ac Wave 2 standard with maximum wireless signal rates of up to 450 Mbps over the 2.4 GHz band, and 1300 Mbps over the 5 GHz band<sup>1</sup>. This, coupled with support for the Wi-Fi Multimedia™ (WMM) Quality of Service (QoS) feature, makes it an ideal access point for audio, video, and voice applications. When enabled, QoS allows the DAP-2680 to automatically prioritize network traffic according to the level of interactive streaming, such as HD movies or VoIP. The QoS feature can be adjusted through the DAP-2680 web GUI using a drop-down menu to select customized priority rules. Additionally, the DAP-2680 supports load balancing to ensure maximum performance by limiting the maximum number of users per access point.

## Versatile Access Point Functionality

The DAP-2680 allows network administrators to deploy a highly manageable and extremely robust simultaneous dual-band wireless network. The DAP-2680 can provide optimal wireless coverage over either the 2.4 GHz (802.11b, 802.11g, and 802.11n) or the 5 GHz (802.11a, 802.11n, and 802.11ac) bands. The DAP-2680 can be ceiling mounted, wall mounted, or placed on a desktop to meet any wireless demands. For advanced installations, the DAP-2680 has integrated 802.3at Power over Ethernet (PoE) support, allowing the device to be installed in areas where power outlets are not readily available.

# Wireless AC1750 Wave 2 Dual-Band PoE Access Point

## Security

To help maintain a secure wireless network, the DAP-2680 supports both Personal and Enterprise versions of WPA and WPA2 (802.11i), with support for RADIUS server backend and a built-in internal RADIUS server allowing users to create their accounts within the device itself. This access point also includes MAC address filtering, wireless LAN segmentation, SSID broadcast disable, rogue AP detection, and wireless broadcast scheduling for further protection of your wireless network. The DAP-2680 includes support for up to eight VLANs per band, allowing multiple SSIDs to be implemented and further segment users on the network. It also includes a wireless client isolation mechanism, which limits direct client-to-client communication. Additionally, the DAP-2680 supports Network Access Protection (NAP), a feature of Windows Server<sup>®</sup> 2008, allowing network administrators to define multiple levels of network access based on individual client's needs.

## Multiple Operation Modes

To maximize total return on investment, the DAP-2680 can be configured to optimize network performance based on any one of its multiple operation modes: Access Point, Wireless Distribution System (WDS), a WDS with Access Point, and Wireless Client. With WDS support, network administrators can set up multiple DAP-2680s throughout a facility and configure them to bridge with one another, while also providing network access to individual clients. The DAP-2680 also features advanced features such as load balancing and redundancy, for fail-safe wireless connectivity.

## Network Management

Network administrators have multiple options for managing the DAP-2680, including Web (HTTP), Secure Socket Layer (SSL), Secure Shell (SSH), and Telnet. For advanced network management, administrators can use the D-Link Central Wi-Fi Manager to configure and manage multiple access points from a single location. In addition, the D-Link Central Wi-Fi Manager provides network administrators with the means of conducting regular maintenance checks remotely, eliminating the need for sending out personnel to physically verify proper operation. The DAP-2680 also has a wireless scheduling feature, turning off wireless functionality when it is not needed to save power. With simultaneous dual-band functionality, PoE support, extensive manageability, versatile operation modes, and solid security enhancements, the DAP-2680 provides small to medium business and enterprise environments with a business-class solution for deploying a wireless network.

# Wireless AC1750 Wave 2 Dual-Band PoE Access Point

## Technical Specifications

### General

Device Interfaces	<ul style="list-style-type: none"> <li>• IEEE 802.11a/b/g/n/ac Wave 2 wireless<sup>1</sup> interface</li> </ul>	<ul style="list-style-type: none"> <li>• 1 x Gigabit PoE-capable LAN port</li> </ul>
Standards	<ul style="list-style-type: none"> <li>• IEEE 802.11a/b/g/n/ac<sup>1</sup></li> <li>• IEEE 802.3i/u/ab</li> </ul>	<ul style="list-style-type: none"> <li>• IEEE 802.3az Energy-Efficient Ethernet (EEE)</li> <li>• IEEE 802.3at Power over Ethernet</li> </ul>
Antennas	<ul style="list-style-type: none"> <li>• 3 x internal dual-band antennas <ul style="list-style-type: none"> <li>• 3.6 dBi at 2.4 GHz</li> <li>• 4.2 dBi at 5 GHz</li> </ul> </li> </ul>	
Operating Frequency <sup>3</sup>	<ul style="list-style-type: none"> <li>• 2.4 GHz band: 2.4 to 2.4835 GHz</li> </ul>	<ul style="list-style-type: none"> <li>• 5 GHz band: 5.15 to 5.35 GHz</li> </ul>
Maximum Output Power	<ul style="list-style-type: none"> <li>• 19.97 dBm for 2.4 GHz</li> </ul>	<ul style="list-style-type: none"> <li>• 22.95 dBm for 5 GHz</li> </ul>
Data Signal Rate	<ul style="list-style-type: none"> <li>• 2.4 GHz <ul style="list-style-type: none"> <li>• Up to 450 Mbps<sup>1</sup></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 5 GHz <ul style="list-style-type: none"> <li>• Up to 1300 Mbps<sup>1</sup></li> </ul> </li> </ul>

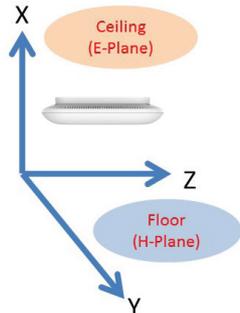
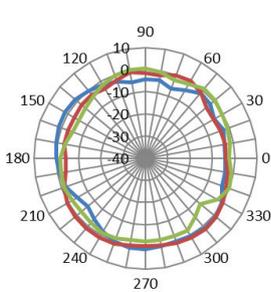
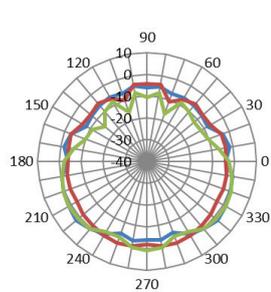
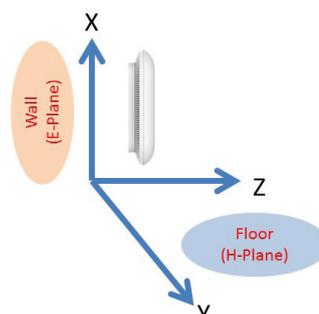
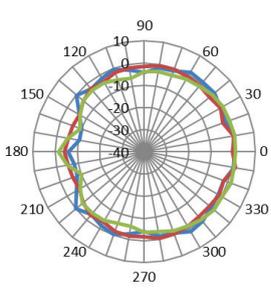
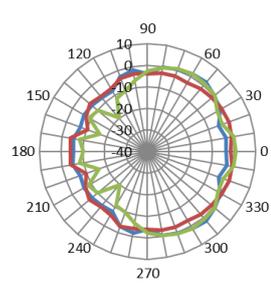
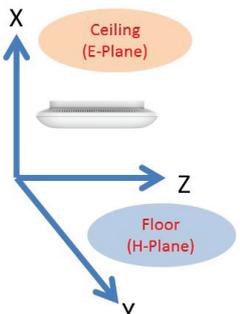
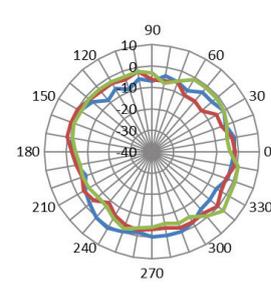
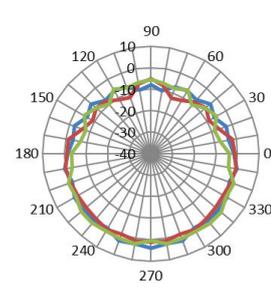
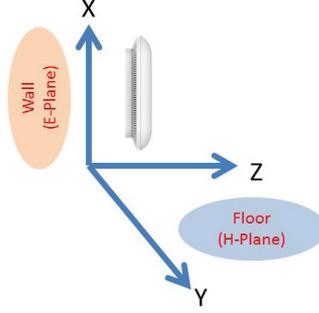
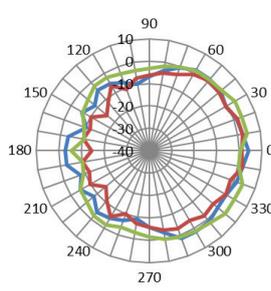
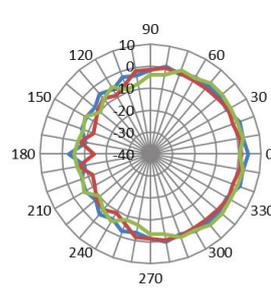
### Functionality

Security	<ul style="list-style-type: none"> <li>• WPA-Personal</li> <li>• WPA-Enterprise</li> <li>• WPA2-Personal</li> <li>• WPA2-Enterprise</li> <li>• WEP 64/128-bit encryption</li> </ul>	<ul style="list-style-type: none"> <li>• SSID broadcast disable</li> <li>• MAC address access control</li> <li>• Network Access Protection (NAP)</li> <li>• Internal RADIUS server</li> </ul>
Network Management	<ul style="list-style-type: none"> <li>• Telnet</li> <li>• Secure Telnet (SSH)</li> <li>• Web (HTTP)</li> <li>• Secure Socket Layer (SSL)</li> </ul>	<ul style="list-style-type: none"> <li>• Traffic control</li> <li>• SNMP v1/v2c/v3</li> <li>• D-Link Central Wi-Fi Manager</li> <li>• AP Array</li> </ul>
LEDs	<ul style="list-style-type: none"> <li>• Power/status</li> </ul>	

### Physical

Dimensions	<ul style="list-style-type: none"> <li>• 190 x 190 x 44.8 mm (7.48 x 7.48 x 1.76 in)</li> </ul>	
Weight	<ul style="list-style-type: none"> <li>• 580 g (1.28 lbs) without mounting base</li> </ul>	<ul style="list-style-type: none"> <li>• 636.5 g (1.40 lbs) with mounting base</li> </ul>
Power Supply	<ul style="list-style-type: none"> <li>• External power adapter: 12 V/2 A</li> </ul>	<ul style="list-style-type: none"> <li>• IEEE 802.3at PoE</li> </ul>
Maximum Power Consumption	<ul style="list-style-type: none"> <li>• 17.53 W</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: 10% to 90% non-condensing</li> </ul>	<ul style="list-style-type: none"> <li>• Storage: 5% to 95% non-condensing</li> </ul>
Meantime Between Failure (MTBF)	<ul style="list-style-type: none"> <li>• &gt; 30,000 hours</li> </ul>	
Certifications	<ul style="list-style-type: none"> <li>• FCC</li> <li>• CE<sup>4</sup></li> </ul>	<ul style="list-style-type: none"> <li>• UL</li> </ul>

**Wireless AC1750 Wave 2 Dual-Band PoE Access Point**

Antenna Pattern		
Orientation	H-Plane	E-Plane
<p>2.4 GHz Ceiling Mounted</p> 		
<p>2.4 GHz Wall Mounted</p> 		
<p>5 GHz Ceiling Mounted</p> 		
<p>5 GHz Wall Mounted</p> 		

# Wireless AC1750 Wave 2 Dual-Band PoE Access Point

Order Information	
Part Number	Description
DAP-2680	Wireless AC1750 Wave 2 Dual-Band PoE Access Point

<sup>1</sup> Maximum wireless signal rate derived from IEEE standard 802.11 and 802.11ac 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.

<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> Please note that operating frequency ranges vary depending on the regulations of individual countries and jurisdictions. The DAP-2680 may not support the 5.25 - 5.35 GHz and 5.47 - 5.725 GHz frequency ranges in certain regions.

<sup>4</sup> For the EU region, this product is compliant with CE regulations and operates within the following frequency ranges: 2.4 - 2.4835 GHz, 5.150 - 5.250 GHz, 5.250 - 5.350 GHz, and 5.470 - 5.750 GHz.

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