

## 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

### MU-MIMO with Beamforming

Dramatically improves the wireless range and performance as well as allowing multiple devices to connect simultaneously to the wireless network

### Multiple Operational Modes

Flexible options allows the DAP-2680 to function 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
- MU-MIMO with beamforming
- Band steering
- Gigabit PoE-capable LAN port

### Extensive Management

- Web, SSL, SSH and Telnet management
- SNMP v1, v2c, v3
- D-Link Central WiFiManager 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 utilising the cutting-edge speed of 802.11ac Wave 2.

## 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>. The DAP-2680 is designed to support MU-MIMO technology that allows multiple devices to get high-bandwidth Wi-Fi signal at the same time, distributing data more efficiently, giving you the fastest Wi-Fi speeds in the office. 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 prioritise 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 customised 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® 2008, allowing network administrators to define multiple levels of network access based on individual client's needs.

## Multiple Operation Modes

To maximise total return on investment, the DAP-2680 can be configured to optimise 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 WiFiManager 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.



If the worst should happen to your network you need the very best support and fast. Downtime costs your business money. D-Link Assist maximises your uptime by solving technical problems quickly and effectively. Our highly trained technicians are on standby around the clock, ensuring that award-winning support is only a phone call away.

With a choice of three affordable service offerings covering all D-Link business products, you can select the package that suits you best:

### **D-Link Assist Gold - for comprehensive 24-hour support**

D-Link Assist Gold is perfect for mission-critical environments where maximum uptime is a high priority. It guarantees four hour around-the-clock response. Cover applies 24/7 for every day of the year including holidays.

### **D-Link Assist Silver - for prompt same-day assistance**

D-Link Assist Silver is designed for 'high availability' businesses that require rapid response within regular working hours. It provides a four hour response service Monday to Friday from 8am to 5pm, excluding holidays.

### **D-Link Assist Bronze - for guaranteed response on the next business day**

D-Link Assist Bronze is a highly cost-effective support solution for less critical environments. Response is guaranteed within eight business hours Monday to Friday from 8am to 5pm, excluding holidays.

D-Link Assist can be purchased together with any D-Link business product. So whether you're buying switching, wireless, storage, security or IP Surveillance equipment from D-Link, your peace of mind is guaranteed. D-Link Assist also offers installation and configuration services to get your new hardware working quickly and correctly.

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

Technical Specifications		
<b>General</b>		
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</li> </ul>	<ul style="list-style-type: none"> <li>3.6 dBi at 2.4 GHz, 4.2 dBi at 5 GHz</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, 5.47 to 5.85 GHz</li> </ul>
Maximum Output Power	<ul style="list-style-type: none"> <li>26.5 dBm for 2.4 GHz</li> </ul>	<ul style="list-style-type: none"> <li>26.5 dBm for 5 GHz</li> </ul>
Data Signal Rate	<ul style="list-style-type: none"> <li>2.4 GHz: Up to 450 Mbps<sup>1</sup></li> </ul>	<ul style="list-style-type: none"> <li>5 GHz: Up to 1300 Mbps<sup>1</sup></li> </ul>
<b>Functionality</b>		
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 WiFiManager</li> <li>AP Array</li> </ul>
LEDs	<ul style="list-style-type: none"> <li>Power/status</li> </ul>	
<b>Physical</b>		
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 (not included)</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>
<b>Antenna Pattern</b>		
Orientation	<i>H-Plane</i>	<i>E-Plane</i>
2.4 GHz Ceiling Mounted		

# Wireless AC1750 Wave 2 Dual-Band PoE Access Point

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

<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 may 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.



For more information: [www.dlink.com](http://www.dlink.com)

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