

## Product Highlights

### Enjoy High-performance Wireless Connectivity

Harness the power of Wireless AC, enjoying 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) with Access Point, a WDS/Bridge, or a Wireless Client



## DAP-2695

# AirPremier AC1750 Concurrent Dual Band PoE Access Point

## Features

### High-performance Connectivity

- IEEE 802.11a/b/g/n/ac wireless<sup>1</sup>
- Up to 1300+450Mbps<sup>1</sup> with 2x2:2MIMO
- Two 10/100/1000Gigabit LAN ports

### Made for Business-class Environments

- Concurrent dual-band at 2.4GHz & 5GHz
- 802.1X & RADIUS & LDAP & AD
- Provide Captive Portal for authentication
- Supports 5GHz Priority & Airtime Fairness
- Bandwidth Limitation by SSID, Protocol, or Client
- Multiple SSID: 8 SSID per band, 16 SSID per AP
- Supports DHCP server & client
- Provide support for IPv6

### Trusted Security Features

- WPA/WPA2 - Enterprise/Personal up to 256-bit
- MAC address filtering and authentication
- WLAN partition
- 802.1Q VLAN Tagging by SSID
- Secure wireless roaming between APs

### Convenient Installation

- Supports 802.3at Power over Ethernet
- Mounting brackets included
- PoE injector and adaptor included

The DAP-2695 AirPremier AC1750 Concurrent 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.

## Super-fast Wireless AC Performance

The DAP-2695 delivers reliable, high-speed wireless performance using the latest 802.11ac standards 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-2695 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-2695's web GUI using a drop-down menu option to select customized priority rules. Additionally, the DAP-2695 supports load balancing to ensure maximum performance by limiting the maximum number of users per access point.

## Versatile Access Point Functionality

The DAP-2695 allows network administrators to deploy a highly manageable and extremely robust simultaneous dual-band wireless network. All six antennas on the DAP-2695 are detachable and 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) band. Enclosed in a plenum-rated metal chassis, the DAP-2695 adheres to strict fire codes for placement in air passageways. For advanced installations, the DAP-2695 has integrated 802.3at Power over Ethernet (PoE) support, allowing this device to be installed in areas where power outlets are not readily available.

# AirPremier AC1750 Concurrent Dual Band PoE Access Point

## Security

To help maintain a secure wireless network, the DAP-2695 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 to further protect your wireless network. The DAP-2695 includes support for up to eight VLANs per band 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-2695 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 need.

## Multiple Operation Modes

To maximize total return on investment, the DAP-2695 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-2695s throughout a facility and configure them to bridge with one another while also providing network access to individual clients. The DAP-2695 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-2695, including HTTP/HTTPS, SSL, SSH, and Telnet, all available via IPv4 and IPv6. For advanced network management, administrators can use the D-Link Central WiFi Manager (CWM) to configure and manage over 500 access points from a single location. CWM supports NAT pass-thru, allowing for managing APs even if they are behind NATs devices. In addition, CWM supports for local/remote firmware upgrades, scheduling for maintenance and configuration, and auto-RF optimizing functions, including output power and channel adjustments. Upon centrally managing D-Link Smart APs, management packets are tunneled back to CWM for quick maintenance while other internet traffic are off-loaded on-site, avoiding potential bottlenecks in the network. CWM utilizes multi-tenancy function, allowing for management groups based on administrator's level of clearance. Through CWM and D-Link Smart APs, clients will be able to connect through different protocols such as WPA, Roaming, or Guest Portal, utilizing a different policy for each. CWM provides for high availability by storing databases externally<sup>2</sup> and allows for installation to virtual machines. Through the robust reporting functions of CWM by providing IP/MAC/AP/connection time/traffic and other statistics<sup>2</sup>, administrator can finally be able to fully understand their network environment.

## Technical Specifications

### General

Device Interfaces	<ul style="list-style-type: none"> <li>802.11a/b/g/n/ac wireless<sup>1</sup></li> <li>RJ45 console port</li> </ul>	<ul style="list-style-type: none"> <li>2 Gigabit LAN Port (One supporting PoE port, One for connection to other devices)</li> </ul>
Transmit Rate	<ul style="list-style-type: none"> <li>802.11a: 6~54Mbps</li> <li>802.11b: 1~11Mbps</li> </ul>	<ul style="list-style-type: none"> <li>802.11n: 30~450Mbps</li> <li>802.11ac: 6~1300Mbps</li> </ul>
Standards	<ul style="list-style-type: none"> <li>IEEE 802.11a/b/g/n/ac (Channel width 20/40/80MHz)<sup>1</sup></li> </ul>	<ul style="list-style-type: none"> <li>IEEE 802.3u/ab/at</li> </ul>
Wireless Frequency Range	<ul style="list-style-type: none"> <li>2.4 GHz band: 2.4 GHz 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<sup>3</sup></li> </ul>
Antennas	<ul style="list-style-type: none"> <li>Three 4 dBi for 2.4 GHz</li> </ul>	<ul style="list-style-type: none"> <li>Three 6 dBi for 5 GHz</li> </ul>

### Functionality

Security	<ul style="list-style-type: none"> <li>WPA-Personal/Enterprise</li> <li>WPA2-Personal/Enterprise</li> <li>WEP 64/128-bit encryption</li> <li>802.1X &amp; RADIUS</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>Hidden administrator account</li> </ul>
Network Management	<ul style="list-style-type: none"> <li>Telnet</li> <li>Secure Telnet (SSH)</li> <li>HTTP/HTTPS</li> <li>Traffic control</li> </ul>	<ul style="list-style-type: none"> <li>SNMP v1/2c/3</li> <li>D-Link Central WiFi Manager (CWM)</li> <li>AP Array Grouping up to 32 APs</li> <li>Syslog (Internal/External)</li> </ul>

## AirPremier AC1750 Concurrent Dual Band PoE Access Point

Physical	
Dimensions	• 190 x 36.5 x 198.8 mm (7.48 x 1.44 x 7.82 inches)
Weight	• 1140 grams (2.52 lbs)
Operating Voltage	• 48 V DC +/- 10%, or 802.3at PoE <sup>4</sup>
Maximum Transmit Output Power	<ul style="list-style-type: none"> <li>• FCC at 2.4 GHz: 27.5 dBm (with 3 streams)</li> <li>• FCC at 5 GHz: 27.5 dBm (with 3 streams)</li> <li>• ETSI at 2.4 GHz: 15.5 dBm (with 3 streams)</li> <li>• ETSI at 5 GHz: 24.5 dBm (with 3 streams)</li> </ul>
Maximum Power Consumption	• 18.03 Watts
Temperature	<ul style="list-style-type: none"> <li>• Operating: 0 to 40 °C (32 to 104 °F)</li> <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> <li>• Storage: 5% to 95% non-condensing</li> </ul>
Certifications	<ul style="list-style-type: none"> <li>• FCC</li> <li>• NCC/BSMI</li> <li>• CE</li> <li>• UL</li> <li>• Wi-Fi<sup>®</sup> Certified</li> </ul>
Order Information	
<i>Part Number</i>	<i>Description</i>
DAP-2695	AirPremier AC1750 Concurrent Dual Band PoE Access Point

<sup>1</sup> Maximum wireless signal rate derived from IEEE standard 802.11 and draft 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> Feature available in 2015.

<sup>3</sup> Please note that operating frequency ranges vary depending on the regulations of individual countries and jurisdictions. The DAP-2695 may not support the 5.25-5.35 GHz and 5.47-5.725 GHz frequency ranges in certain regions. This product is based on draft IEEE 802.11ac specifications and is not guaranteed to be forward compatible with future versions of IEEE 802.11ac specifications. Compatibility with 802.11ac 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.

<sup>4</sup> Only compliant with 802.3at PoE switches, the 802.3af PoE standard cannot supply a sufficient amount of power for the DAP-2695.

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