

# Cisco AIR-AP1815W-B-K9 Datasheet



Cisco AIR-AP1815W-B-K9 Aironet 1815W 802.11ac Wave 2 Access Point, (for US), Reg Domain B

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The Cisco Aironet 1815w Access Point offers a compact, wall plate-mountable access point, ideal for hospitality, cruise ships, residential halls, or other multiple-dwelling-unit deployments.

Packing 802.11ac Wave 2 wireless support and Gigabit Ethernet wired connectivity into a sleek device, the 1815w is built to take full advantage of existing cabling infrastructure while blending into the visual footprint. This combination provides best-in-class performance while reducing total cost of ownership.

## Features and benefits

By adhering to the 802.11ac Wave 2 standard, the 1815w provides a data rate of up to 867 Mbps on its 5-GHz radio. This exceeds the data rates offered by access points that support the 802.11n standard. It also enables a total aggregate dual-radio data rate of up to 1 Gbps. This provides the necessary foundation for enterprise and service provider networks to stay ahead of the performance expectations and needs of their wireless users.

In recent years corporate users have increasingly preferred wireless access as their form of network connectivity, due to its convenience. With this shift, there is an expectation that wireless should not slow down users' day-to-day activities, but should enable a high-performance experience while allowing users to move about freely. The 1815w delivers industry-leading performance with highly secure and reliable wireless connections that provide a robust,

mobile end-user experience.

With the 1815w, you can secure remote workers or the micro-office. Any Cisco Aironet or Catalyst access point can function as an OfficeExtend access point (OEAP). With an OEAP, an employee at home or in a temporary micro-office will have access to the corporate SSID and the corporate network without the need to set up a VPN or have any advanced technical know-how.

Cisco User Defined Network, a feature available in Cisco DNA Center, allows IT to give end users control of their very own wireless network partition on a shared network. End users can then remotely and securely deploy their devices on this network. Perfect for university dormitories or extended hospital stays, Cisco User Defined Network grants both device security and control, allowing each user to choose who can connect to their network. (Available second half of calendar year 2020.)

The Wi-Fi 6 readiness dashboard is a new dashboard in the Assurance menu of Cisco DNA Center. It will look through the inventory of all devices on the network and verify device, software, and client compatibility with the new Wi-Fi 6 standard. After upgrading, advanced wireless analytics will indicate performance and capacity gains as a result of the Wi-Fi 6 deployment. This is an incredible tool that will help your team define where and how the wireless network should be upgraded. It will also give you insights into the access point distribution by protocol (802.11 ac/n/abg), wireless airtime efficiency by protocol, and granular performance metrics.

## Specifications

Item	Specification
Authentication and Security	<ul style="list-style-type: none"><li>• Advanced Encryption Standard (AES) for Wi-Fi Protected Access 3 (WPA3), WPA2, WPA</li><li>• 802.1X, RADIUS Authentication, Authorization and Accounting (AAA)</li><li>• 802.11r</li><li>• 802.11i</li></ul>
	• Cisco Unified Wireless Network Software with AireOS Wireless Controllers

<b>Item</b>	<b>Specification</b>
Software	<ul style="list-style-type: none"> <li>? Release 8.4.100.0/84 CCO or later</li> <li>? Cisco Mobility Express</li> </ul>
Supported WLAN	<ul style="list-style-type: none"> <li>? Cisco 2500 Series Wireless Controllers, Cisco 3500 Series Wireless Controllers, Cisco Wireless Controller Module for ISR G2, Cisco Wireless Services Module 2 (WiSM2) for Catalyst® 6500 Series Switches, Cisco 5500 Series Wireless Controllers, Cisco Flex® 7500 Series Wireless Controllers, Cisco 8500 Series Wireless Controllers, Cisco Catalyst® 9800 Series Wireless Controllers</li> <li>? Cisco Mobility Express</li> </ul>
Maximum clients	<ul style="list-style-type: none"> <li>? Maximum number of associated wireless clients: 200 per Wi-Fi radio, in total 400 clients per access point</li> </ul>
802.11ac	<ul style="list-style-type: none"> <li>? 2x2 single-user/multiuser MIMO with two spatial streams</li> <li>? Maximal Ratio Combining (MRC)</li> <li>? 20-, 40-, and 80-MHz channels</li> <li>? PHY data rates up to 866.7 Mbps (80 MHz on 5 GHz)</li> <li>? Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Rx)</li> <li>? 802.11 Dynamic Frequency Selection (DFS)</li> <li>? Cyclic Shift Diversity (CSD) support</li> </ul>
Ethernet ports	<ul style="list-style-type: none"> <li>? Authentication with 802.1X or MAC filtered</li> <li>? Dynamic VLAN or per port</li> <li>? Traffic locally switched or tunneled back to wireless LAN controller</li> </ul>
Bluetooth availability	<ul style="list-style-type: none"> <li>? Integrated Bluetooth 4.1 (including BLE) radio</li> <li>? Maximum transmit power: 4 dBm</li> <li>? Antenna gain: 2 dBi</li> </ul>

Maximum number of non-overlapping channels

- B (B regulatory domain):
- 2.412 to 2.462 GHz; 11 channels
- 5.180 to 5.320 GHz; 8 channels
- 5.500 to 5.720 GHz; 12 channels
- 5.745 to 5.825 GHz; 5 channels

For more information of this Cisco AIR-AP1815W-B-K9, please visit Cisco website:

<https://www.cisco.com/c/en/us/products/collateral/wireless/aironet-1815-series-access-points/datasheet-c78-738481.html>

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