

# C9120AXE-EWC-B Datasheet

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## Overview

The Cisco Embedded Wireless Controller on Catalyst Access Points (EWC-AP) is the next-generation Wi-Fi solution. Built for intent-based networking and Cisco DNA, the EWC-AP helps you simplify complexity, optimize IT, and reduce operational costs by leveraging intelligence, automation, and human expertise that no other vendor can deliver, regardless of where you are in the intent-based networking journey.

### Quick Specs

Table 1 shows the Quick Specs.

<b>Product Code</b>	<b>C9120AXE-EWC-B</b>
<b>Description</b>	Cisco Embedded Wireless Controller on Catalyst Access Points: Indoor, challenging environments, with external antennas, B regulatory domain.
<b>Minimum software requirement</b>	Cisco IOS XE Software Release 16.12.2 or later
<b>Maximum number of access points</b>	Up to 100
<b>Maximum number of clients</b>	Up to 2000
<b>Maximum number of WLANs</b>	16
<b>Deployment modes</b>	Cisco FlexConnect®
<b>Maximum FlexConnect APs per site</b>	100
<b>Regulatory Domain</b>	<b>B regulatory domain:</b> <ul style="list-style-type: none"><li>• 2.412 to 2.462 GHz; 11 channels</li><li>• 5.180 to 5.320 GHz; 8 channels</li><li>• 5.500 to 5.700 GHz; 11 channels</li><li>• 5.745 to 5.865 GHz; 7 channels</li></ul>

## Product Details

**Cisco Catalyst 9120 EWC-AP Series provides these features and benefits:**

### Resiliency

- With active and standby controllers running simultaneously on two 9100 access points, redundancy keeps your network, services, and clients always on, even in unplanned events
- Seamless software updates enable faster resolution of critical issues and introduction of new access points with minimal downtime

### Security

- Rogue detection, classification, and containment
- 802.1X supplicant support on EWC-AP
- Walled garden and DNS ACLs

### Management

- Cisco DNA Center for Automation and Assurance
- Dashboard (web browser) and easy-to-use mobile app for deploying, provisioning, and monitoring
- Standards-based interoperability tools using programmable interfaces
- Open standards-based programmability with NETCONF and YANG

### Guest

- Central web authentication, local web authentication, and BYOD
- Cisco DNA Spaces integration for personalized and relevant guest experience

### Intelligent Capture

- Intelligent Capture probes the network and provides Cisco DNA Center with deep analysis. The software can track over 240 anomalies and instantaneously review all packets on demand, emulating the onsite network administrator. This feature allows for more informed decisions on your wireless networks

### Apple features

- Apple and Cisco have partnered to create an optimal mobile experience for iOS devices on corporate networks based on Cisco technologies. Using new features in iOS 10, in combination with the latest software and hardware from Cisco, businesses can now more effectively use their network infrastructure to deliver an enhanced user experience across all business applications
- At the center of the collaboration is a unique handshake between the Cisco WLAN and Apple devices. This handshake enables the Cisco WLAN to provide an optimal Wi-Fi roaming experience to Apple devices. Additionally, the Cisco WLAN trusts Apple devices and gives priority treatment for business-critical applications specified by the Apple device. This feature is also known as Fast Lane

### Wi-Fi 6 (802.11ax) and RF features

- Cisco RF Application-Specific Integrated Circuit (ASIC): On 9100 access points with the RF ASIC, the access point can perform advanced RF



spectrum analysis and delivers features such as Cisco CleanAir®, Wireless Intrusion Prevention System (WIPS), Fast Locate, \* and Dynamic Frequency Selection (DFS) detection( \* Future)

- Uplink/downlink OFDMA: Orthogonal Frequency-Division Multiple Access (OFDMA)-based scheduling splits the bandwidth into smaller chunks called Resource Units (RUs), which can be allocated to individual clients in both the downlink and uplink directions to reduce overhead and latency
- MU-MIMO: Multiuser Multiple-Input Multiple-Output (MU-MIMO) enables access points to split spatial streams between client devices to maximize throughput
- BSS coloring: Spatial reuse (also known as Basic Service Set [BSS] coloring) allows the access points and their clients to differentiate between BSSs, thus permitting more simultaneous transmissions
- Target Wake Time (TWT): TWT is a new power-saving mode that allows the client to stay asleep and to wake up only at prescheduled (target) times to exchange data with the access point. This offers significant energy savings for battery-operated devices, up to 3x to 4x compared to 802.11n and 802.11ac
- Flexible Radio Assignment: Allows the access points to intelligently determine the operating mode of serving radios based on the RF environment

### Compare to Similar Items

Table 2 shows the comparison of Cisco AP 9120AXE-EWC Series.

Product Code	Description
<u>C9120AXE-EWC-A</u>	Cisco Embedded Wireless Controller on Catalyst Access Points: Indoor, challenging environments, with external antennas, A Domain
<u>C9120AXE-EWC-B</u>	Cisco Embedded Wireless Controller on Catalyst Access Points: Indoor, challenging environments, with external antennas, B Domain
C9120AXE-EWC-D	Cisco Embedded Wireless Controller on Catalyst Access Points: Indoor, challenging environments, with external antennas, D Domain
C9120AXE-EWC-E	Cisco Embedded Wireless Controller on Catalyst Access Points: Indoor, challenging environments, with external antennas, E Domain
C9120AXE-EWC-F	Cisco Embedded Wireless Controller on Catalyst Access Points: Indoor, challenging environments, with external antennas, F Domain
C9120AXE-EWC-G	Cisco Embedded Wireless Controller on Catalyst Access Points: Indoor, challenging environments, with external antennas, G Domain
C9120AXE-EWC-H	Cisco Embedded Wireless Controller on Catalyst Access Points: Indoor, challenging environments, with external antennas, H Domain
C9120AXE-EWC-I	Cisco Embedded Wireless Controller on Catalyst Access Points: Indoor, challenging environments, with external antennas, I Domain
C9120AXE-EWC-K	Cisco Embedded Wireless Controller on Catalyst Access Points: Indoor, challenging environments, with external antennas, K Domain
C9120AXE-EWC-N	Cisco Embedded Wireless Controller on Catalyst Access Points: Indoor, challenging environments, with external antennas, N Domain
C9120AXE-EWC-Q	Cisco Embedded Wireless Controller on Catalyst Access Points: Indoor, challenging environments, with external antennas, Q Domain
C9120AXE-EWC-S	Cisco Embedded Wireless Controller on Catalyst Access Points: Indoor, challenging environments, with external antennas, S Domain
C9120AXE-EWC-T	Cisco Embedded Wireless Controller on Catalyst Access Points: Indoor, challenging environments, with external antennas, T Domain
C9120AXE-EWC-Z	Cisco Embedded Wireless Controller on Catalyst Access Points: Indoor, challenging environments, with external antennas, Z Domain

### Get More Information

Do you have any question about the C9120AXE-EWC-B? Contact us now at [sales@gntme.com](mailto:sales@gntme.com).

## Specification

### C9120AXE-EWC-B Specification

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<b>Deployment modes</b>	Cisco FlexConnect®
<b>Maximum FlexConnect APs per site</b>	100
<b>License</b>	Smart License enabled
<b>Operating system</b>	Cisco IOS® XE Software
<b>Management</b>	Cisco DNA Center 1.3.2, integrated WebUI, mobile app, and third party (open standards APIs)
<b>Policy engine</b>	Cisco Identity Services Engine (ISE) 2.2, 2.3, and 2.4
<b>Access points</b>	Cisco Catalyst 9100 Access Points and Aironet® 802.11ac Wave 2 access points (operating in client serving mode only)
<b>Regulatory Domain</b>	<b>B regulatory domain:</b> <ul style="list-style-type: none"> <li>• 2.412 to 2.462 GHz; 11 channels</li> <li>• 5.180 to 5.320 GHz; 8 channels</li> <li>• 5.500 to 5.700 GHz; 11 channels</li> <li>• 5.745 to 5.865 GHz; 7 channels</li> </ul>

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