

# C9120AXE-D Datasheet

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## Overview

The Cisco Catalyst 9120 Series Access Points are the next generation of enterprise access points. They are resilient, secure, and intelligent. Wi-Fi 6; 4x4:4 MIMO, D Domain.

### Quick Specs

Table 1 shows the Quick Specs.

<b>Product Code</b>	<a href="#">C9120AXE-D</a>
<b>Description</b>	Cisco Catalyst 9120AXE Series, D Domain
<b>Software</b>	<ul style="list-style-type: none"><li>• Cisco Unified Wireless Network Software Release 8.9.x or later</li><li>• Cisco IOS® XE Software Release 16.11 with AP Device Pack, or later</li></ul>
<b>Supported wireless LAN controllers</b>	<ul style="list-style-type: none"><li>• Cisco Catalyst 9800 Series Wireless Controllers</li><li>• Cisco 3500, 5520, and 8540 Series Wireless Controllers and Cisco Virtual Wireless Controller</li></ul>
<b>Dimensions (W x L x H)</b>	8.5 x 8.05x 2.0" (21.6 x 21.6 x 5.1 cm)
<b>System memory</b>	<ul style="list-style-type: none"><li>• 2048 MB DRAM</li><li>• 1024 MB flash</li></ul>
<b>Frequency band and 20-MHz operating channels</b>	<b>D (D 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 AP 9120 Series provides these features:

- Wi-Fi 6 (802.11ax)
- Cisco RF ASIC
- Uplink/downlink OFDMA
- MU-MIMO technology
- BSS coloring
- Target wake time
- Intelligent Capture
- Flexible Radio Assignment
- Dual 5-GHz radio support
- Smart antenna connector
- Cisco Mobility Express
- Multigigabit Ethernet support
- Bluetooth 5
- Container support for applications
- Apple Features

### Supported Platforms

Table 2 shows the supported platforms and software.

<b>Supported wireless LAN controllers and Software</b>	<b>Recommended Model</b>
Cisco 3500 Series Wireless Controllers	<a href="#">AIR-CT3504-K9</a>
Cisco 5520 Series Wireless Controllers	<a href="#">AIR-CT5520-K9</a>
Cisco 8540 Series Wireless Controllers	<a href="#">AIR-CT8540-K9</a> <a href="#">AIR-CT8540-1K-K9</a>
Cisco 9800 series Wireless Controllers	<a href="#">C9800-40-K9</a> <a href="#">C9800-80-K9</a>
Cisco Virtual Wireless Controller	/

Cisco Unified Wireless Network Software Release 8.9 or later	/
Cisco IOS® XE Software Release 16.11 or later	/

### Compare to Similar Items

Table 3 shows the comparison of Cisco AP 9120AXE Series.

Product Code	Description
<u>C9120AXE-A</u>	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, A Domain
<u>C9120AXE-B</u>	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, B Domain
<u>C9120AXE-D</u>	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, D Domain
C9120AXE-E	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, E Domain
C9120AXE-F	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, F Domain
C9120AXE-G	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, G Domain
C9120AXE-H	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, H Domain
C9120AXE-I	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, I Domain
C9120AXE-K	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, K Domain
C9120AXE-N	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, N Domain
C9120AXE-Q	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, Q Domain
C9120AXE-R	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, R Domain
C9120AXE-S	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, S Domain
C9120AXE-T	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, T Domain
C9120AXE-Z	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, Z Domain

### Get More Information

Do you have any question about the C9120AXE-D?

Contact us now at [sales@gntme.com](mailto:sales@gntme.com).

## Specification

C9120AXE-D Specification	
Description	Cisco Catalyst 9120AXE Series, D Domain
Software	<ul style="list-style-type: none"> <li>Cisco Unified Wireless Network Software Release 8.9.x or later</li> <li>Cisco IOS® XE Software Release 16.11 with AP Device Pack, or later</li> </ul>
Supported wireless LAN controllers	<ul style="list-style-type: none"> <li>Cisco Catalyst 9800 Series Wireless Controllers</li> <li>Cisco 3500, 5520, and 8540 Series Wireless Controllers and Cisco Virtual Wireless Controller</li> </ul>

<b>802.11n version 2.0 (and related) capabilities</b>	<ul style="list-style-type: none"> <li>• 4x4 MIMO with four spatial streams</li> <li>• Maximal Ratio Combining (MRC)</li> <li>• 802.11n and 802.11a/g beamforming</li> <li>• 20- and 40-MHz channels</li> <li>• PHY data rates up to 890 Mbps (40 MHz with 5 GHz and 20 MHz with 2.4 GHz)</li> <li>• Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive)</li> <li>• 802.11 Dynamic Frequency Selection (DFS)</li> <li>• Cyclic Shift Diversity (CSD) support</li> </ul>
<b>802.11ac</b>	<ul style="list-style-type: none"> <li>• 4x4 downlink MU-MIMO with four spatial streams</li> <li>• MRC</li> <li>• 802.11ac beamforming</li> <li>• 20-, 40-, 80-, and 160-MHz channels</li> <li>• PHY data rates up to 3.47 Gbps (160 MHz with 5 GHz)</li> <li>• Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive)</li> <li>• 802.11 DFS</li> <li>• CSD support</li> </ul>
<b>802.11ax</b>	<ul style="list-style-type: none"> <li>• 4x4 downlink MU-MIMO with four spatial streams</li> <li>• Uplink/downlink OFDMA</li> <li>• TWT</li> <li>• BSS coloring</li> <li>• MRC</li> <li>• 802.11ax beamforming</li> <li>• 20-, 40-, 80-, and 160-MHz channels</li> <li>• PHY data rates up to 5.38 Gbps (160 MHz with 5 GHz and 20 MHz with 2.4 GHz)</li> <li>• Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive)</li> <li>• 802.11 DFS</li> <li>• CSD support</li> </ul>
<b>Integrated antenna</b>	<p>Flexible radio (either on 2.4GHz or on 5GHz)</p> <ul style="list-style-type: none"> <li>• 2.4 GHz, peak gain 4 dBi, internal antenna, omnidirectional in azimuth</li> <li>• 5 GHz, peak gain 5 dBi, internal antenna, omnidirectional in azimuth Dedicated 5GHz radio</li> <li>• 5 GHz, peak gain 4 dBi, internal antenna, omnidirectional in azimuth</li> </ul>
<b>External antenna (sold separately)</b>	<ul style="list-style-type: none"> <li>• <a href="#">Cisco Catalyst 9120E</a> Access Points are certified for use with antenna gains up to 6 dBi (2.4 GHz and 5 GHz)</li> <li>• Cisco Catalyst 9120P Access Points are certified for use with antenna gains up to 13 dBi (2.4 GHz and 5 GHz) with the AIR-ANT2513-P4M-N= antenna</li> <li>• Cisco offers the industry's broadest selection of antennas, delivering optimal coverage for a variety of deployment scenarios</li> <li>• Supports Self-Identifiable Antennas (SIA) on one RP-TNC port</li> </ul>
<b>Smart Antenna Connector</b>	<ul style="list-style-type: none"> <li>• Available on the 9120E and on the 9120P only</li> <li>• Compact multi RF connector with DART interface</li> <li>• Requires the AIR-CAB002-DART-R= 2 ft smart antenna connector when used with antennas with RP-TNC connector</li> <li>• Required when running the flexible radio as either a second 5-GHz serving radio or a Wireless Security Monitoring radio</li> </ul>
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>• 1x 100, 1000, 2500 Multigigabit Ethernet (RJ-45) –IEEE 802.3bz</li> <li>• Management console port (RJ-45)</li> <li>• USB 2.0 @ 3.75W (enabled via future software)</li> </ul>
<b>Indicators</b>	<ul style="list-style-type: none"> <li>• Status LED indicates boot loader status, association status, operating status, boot loader warnings, and boot loader errors</li> </ul>
<b>Dimensions (W x L x H)</b>	<ul style="list-style-type: none"> <li>• Access point (without mounting brackets): C9120I: 8.5 x 8.5 x 1.7" (21.6 x 21.6 x 4.3 cm), C9120E and C9120P: 8.5 x 8.05x 2.0" (21.6 x 21.6 x 5.1 cm)</li> </ul>

<b>Input power requirements</b>	<ul style="list-style-type: none"> <li>• 802.3at Power over Ethernet Plus (PoE+), 802.3bt Cisco Universal PoE (Cisco UPOE+, Cisco UPOE*)</li> <li>• Cisco power injector, AIR-PWRINJ6=</li> <li>• 802.3af PoE</li> <li>• Cisco power injector, AIR-PWRINJ5= (Note: This injector supports only 802.3af)</li> </ul>
<b>Environmental</b>	<p><a href="#">Cisco Catalyst 9120AXI</a></p> <ul style="list-style-type: none"> <li>• Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C)</li> <li>• Nonoperating (storage) altitude test: 25°C, 15,000 ft.</li> <li>• Operating temperature: 32° to 122°F (0° to 50°C)</li> <li>• Operating humidity: 10% to 90% (noncondensing)</li> <li>• Operating altitude test: 40°C, 9843 ft.</li> </ul> <p>Note: When the ambient operating temperature exceeds 40 °C, the access point will shift from 4x4 to 2x2 on both the 2.4-GHz and 5-GHz radios, uplink Ethernet will downgrade to 1 Gigabit Ethernet; however, the USB interface will remain enabled Cisco Catalyst 9120AXE and 9120AXP</p> <ul style="list-style-type: none"> <li>• Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C)</li> <li>• Nonoperating (storage) altitude test: 25°C, 15,000 ft.</li> <li>• Operating temperature: -4° to 122°F (-20° to 50°C)</li> <li>• Operating humidity: 10% to 90% (noncondensing)</li> <li>• Operating altitude test: 40°C, 9843 ft.</li> </ul>
<b>System memory</b>	<ul style="list-style-type: none"> <li>• 2048 MB DRAM</li> <li>• 1024 MB flash</li> </ul>
<b>Warranty</b>	Limited lifetime hardware warranty
<b>Available transmit power settings</b>	<p><b>2.4 GHz</b></p> <ul style="list-style-type: none"> <li>• 23 dBm (200 mW)</li> <li>• 20 dBm (100 mW)</li> <li>• 17 dBm (50 mW)</li> <li>• 14 dBm (25 mW)</li> <li>• 11 dBm (12.5 mW)</li> <li>• 8 dBm (6.25 mW)</li> <li>• 5 dBm (3.13 mW)</li> <li>• 2 dBm (1.56 mW)</li> <li>• -1dBm (0.79mW)</li> <li>• -4dBm(0.39mW)</li> </ul> <p><b>5 GHz</b></p> <ul style="list-style-type: none"> <li>• 26 dBm (400 mW)</li> <li>• 23 dBm (200 mW)</li> <li>• 20 dBm (100 mW)</li> <li>• 17 dBm (50 mW)</li> <li>• 14 dBm (25 mW)</li> <li>• 11 dBm (12.5 mW)</li> <li>• 8 dBm (6.25 mW)</li> <li>• 5 dBm (3.13 mW)</li> <li>• 2 dBm (1.56 mW)</li> <li>• -1dBm (0.79mW)</li> </ul>
<b>Frequency band and 20-MHz operating channels</b>	<p><b>D (D regulatory domain):</b></p> <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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