

C9120AXE-F 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, F Domain.

Quick Specs

Table 1 shows the Quick Specs.

Product Code	C9120AXE-F
Description	Cisco Catalyst 9120AXE Series, F Domain
Software	<ul style="list-style-type: none">• Cisco Unified Wireless Network Software Release 8.9.x or later• Cisco IOS® XE Software Release 16.11 with AP Device Pack, or later
Supported wireless LAN controllers	<ul style="list-style-type: none">• Cisco Catalyst 9800 Series Wireless Controllers• Cisco 3500, 5520, and 8540 Series Wireless Controllers and Cisco Virtual Wireless Controller
Dimensions (W x L x H)	8.5 x 8.05x 2.0" (21.6 x 21.6 x 5.1 cm)
System memory	<ul style="list-style-type: none">• 2048 MB DRAM• 1024 MB flash
Frequency band and 20-MHz operating channels	F (F regulatory domain): <ul style="list-style-type: none">• 2.412 to 2.472 GHz; 13 channels• 5.250 to 5.350 GHz; 4 channels• 5.725 to 5.825 GHz; 4 channels

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.

Supported wireless LAN controllers and Software	Recommended Model
Cisco 3500 Series Wireless Controllers	AIR-CT3504-K9
Cisco 5520 Series Wireless Controllers	AIR-CT3504-K9
Cisco 8540 Series Wireless Controllers	AIR-CT8540-K9 AIR-CT8540-1K-K9
Cisco 9800 series Wireless Controllers	C9800-40-K9 C9800-80-K9
Cisco Virtual Wireless Controller	/
Cisco Unified Wireless Network Software Release 8.9 or later	/
Cisco IOS® XE Software Release 16.11 or later	/

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
C9120AXE-A	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, A Domain
C9120AXE-B	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, B Domain
C9120AXE-D	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
<u>C9120AXE-F</u>	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-F?

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Specification

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

802.11n version 2.0 (and related) capabilities	<ul style="list-style-type: none"> • 4x4 MIMO with four spatial streams • Maximal Ratio Combining (MRC) • 802.11n and 802.11a/g beamforming • 20- and 40-MHz channels • PHY data rates up to 890 Mbps (40 MHz with 5 GHz and 20 MHz with 2.4 GHz) • Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive) • 802.11 Dynamic Frequency Selection (DFS) • Cyclic Shift Diversity (CSD) support
802.11ac	<ul style="list-style-type: none"> • 4x4 downlink MU-MIMO with four spatial streams • MRC • 802.11ac beamforming • 20-, 40-, 80-, and 160-MHz channels • PHY data rates up to 3.47 Gbps (160 MHz with 5 GHz) • Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive) • 802.11 DFS • CSD support
802.11ax	<ul style="list-style-type: none"> • 4x4 downlink MU-MIMO with four spatial streams • Uplink/downlink OFDMA • TWT • BSS coloring • MRC • 802.11ax beamforming • 20-, 40-, 80-, and 160-MHz channels • PHY data rates up to 5.38 Gbps (160 MHz with 5 GHz and 20 MHz with 2.4 GHz) • Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive) • 802.11 DFS • CSD support
Integrated antenna	<p>Flexible radio (either on 2.4GHz or on 5GHz)</p> <ul style="list-style-type: none"> • 2.4 GHz, peak gain 4 dBi, internal antenna, omnidirectional in azimuth • 5 GHz, peak gain 5 dBi, internal antenna, omnidirectional in azimuth • 5 GHz, peak gain 4 dBi, internal antenna, omnidirectional in azimuth
External antenna (sold separately)	<ul style="list-style-type: none"> • Cisco Catalyst 9120E Access Points are certified for use with antenna gains up to 6 dBi (2.4 GHz and 5 GHz) • 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 • Cisco offers the industry's broadest selection of antennas, delivering optimal coverage for a variety of deployment scenarios • Supports Self-Identifiable Antennas (SIA) on one RP-TNC port
Smart Antenna Connector	<ul style="list-style-type: none"> • Available on the 9120E and on the 9120P only • Compact multi RF connector with DART interface • Requires the AIR-CAB002-DART-R= 2 ft smart antenna connector when used with antennas with RP-TNC connector • Required when running the flexible radio as either a second 5-GHz serving radio or a Wireless Security Monitoring radio
Interfaces	<ul style="list-style-type: none"> • 1x 100, 1000, 2500 Multigigabit Ethernet (RJ-45) –IEEE 802.3bz • Management console port (RJ-45) • USB 2.0 @ 3.75W (enabled via future software)
Indicators	<ul style="list-style-type: none"> • Status LED indicates boot loader status, association status, operating status, boot loader warnings, and boot loader errors
Dimensions (W x L x H)	<ul style="list-style-type: none"> • 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)

Input power requirements	<ul style="list-style-type: none"> •802.3at Power over Ethernet Plus (PoE+), 802.3bt Cisco Universal PoE (Cisco UPOE+, Cisco UPOE*) • Cisco power injector, AIR-PWRINJ6= • 802.3af PoE •Cisco power injector, AIR-PWRINJ5= (Note: This injector supports only 802.3af)
Environmental	<p><u>Cisco Catalyst 9120AXI</u></p> <ul style="list-style-type: none"> • Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C) • Nonoperating (storage) altitude test: 25°C, 15,000 ft. • Operating temperature: 32° to 122°F (0° to 50°C) • Operating humidity: 10% to 90% (noncondensing) • Operating altitude test: 40°C, 9843 ft. <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"> • Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C) • Nonoperating (storage) altitude test: 25°C, 15,000 ft. • Operating temperature: -4° to 122°F (-20° to 50°C) • Operating humidity: 10% to 90% (noncondensing) • Operating altitude test: 40°C, 9843 ft.
System memory	<ul style="list-style-type: none"> • 2048 MB DRAM • 1024 MB flash
Warranty	Limited lifetime hardware warranty
Available transmit power settings	<p>2.4 GHz</p> <ul style="list-style-type: none"> • 23 dBm (200mW) • 20 dBm (100mW) • 17 dBm (50mW) • 14 dBm (25 mW) • 11 dBm (12.5 mW) • 8 dBm (6.25 mW) • 5 dBm (3.13 mW) • 2 dBm (1.56 mW) • -1dBm (0.79mW) • -4dBm(0.39mW) <p>5 GHz</p> <ul style="list-style-type: none"> • 26 dBm (400mW) • 23 dBm (200mW) • 20 dBm (100mW) • 17 dBm (50mW) • 14 dBm (25 mW) • 11 dBm (12.5 mW) • 8 dBm (6.25 mW) • 5 dBm (3.13 mW) • 2 dBm (1.56 mW) • -1dBm (0.79mW)
Frequency band and 20-MHz operating channels	<p>F (F regulatory domain):</p> <ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels • 5.250 to 5.350 GHz; 4 channels • 5.725 to 5.825 GHz; 4 channels

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