

C9120AXE-Z 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, Z Domain.

Quick Specs

Table 1 shows the Quick Specs.

| | |
|---|--|
| Product Code | C9120AXE-Z |
| Description | Cisco Catalyst 9120AXE Series, Z 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 | Z (Z regulatory domain): <ul style="list-style-type: none">• 2.412 to 2.462 GHz; 11 channels• 5.180 to 5.320 GHz; 8 channels• 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)• 5.745 to 5.825 GHz; 5 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 | / |

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|--|---|
| 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 |
|--------------|---|
| 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 |
| 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-Z?

Contact us now at sales@gntme.com.

Specification

| C9120AXE-Z Specification | |
|------------------------------------|---|
| Description | Cisco Catalyst 9120AXE Series, Z 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 Dedicated 5GHz radio • 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) |

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|---|--|
| 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>Cisco Catalyst 9120AXI</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 | <p>Limited lifetime hardware warranty</p> |
| Available transmit power settings | <p>2.4 GHz</p> <ul style="list-style-type: none"> • 23 dBm (200 mW) • 20 dBm (100 mW) • 17 dBm (50 mW) • 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 (400 mW) • 23 dBm (200 mW) • 20 dBm (100 mW) • 17 dBm (50 mW) • 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>Z (Z regulatory domain):</p> <ul style="list-style-type: none"> • 2.412 to 2.462 GHz; 11 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz) • 5.745 to 5.825 GHz; 5 channels |

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