



# Cisco Catalyst 9120AX Series Access Points Datasheet



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## OVERVIEW

The Cisco® Catalyst® 9120AX Series Access Points are the next generation of enterprise access points. They are resilient, secure, and intelligent.

We are more dependent on our wireless networks than ever before. Additional devices connect to the network every year and the Cisco Catalyst 9120AX Series Access Points will provide a seamless experience anywhere for everyone. Going beyond the Wi-Fi 6 (802.11ax) standard, the 9120AX Series provides integrated security, resiliency, and operational flexibility as well as increased network intelligence.

Extending Cisco's intent-based network and perfect for networks of all sizes, the Cisco Catalyst 9120AX Series scales to the growing demands of IoT while fully supporting the latest innovations and new technologies. Not only that, but the 9120AX Series is the leader in performance, security, and analytics.

The Cisco Catalyst 9120AX Series Access Points, paired with Cisco DNA, are enterprise-class products that will address your current and future needs. These access points are the first step in updating your network so that you can take better advantage of all of the features and benefits that Wi-Fi 6 provides.

Key features:

- Four radios: 5 GHz (4x4) flexible radio with 2.4 or 5 GHz (4x4), unified RF engine and 802.15.4 for IoT 01
- OFDMA and MU-MIMO
- Multigigabit support
- Internal or external antenna and also external antenna for professional installations
- Available with optional embedded wireless controller

Future feature support:

- IoT ready (BLE, Zigbee, and other multiprotocol 802.15.4 devices)

## APPEARANCE

**Figure 1.** Cisco Catalyst 9115AX Series



## FEATURES AND BENEFITS

**Table 1. Features and benefits of Cisco Catalyst 9120AX Series**

Feature	Benefits
<b>Wi-Fi 6 (802.11ax)</b>	The IEEE 802.11ax emerging standard, also known as High-Efficiency-Wireless (HEW) or Wi-Fi 6, builds on 802.11ac. It delivers a better experience in typical environments with more predictable performance for advanced applications such as 4K or 8K video, high-density, high-definition collaboration apps, all-wireless offices, and IoT. Wi-Fi 6 is designed to use both the 2.4-GHz and 5-GHz bands, unlike the 802.11ac standard.
<b>Cisco RF ASIC</b>	Cisco RF ASIC is a fully integrated software-defined radio (SDR) that can perform advanced RF spectrum analysis and delivers features like Cisco CleanAir®, Wireless Intrusion Prevention System (wIPS), Fast Locate,* and DFS detection. (*Future)
<b>Uplink/downlink OFDMA</b>	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.
<b>MU- MIMO technology</b>	Supporting four spatial streams, MU-MIMO enables access points to split spatial streams between client devices, to maximize throughput.
<b>BSS coloring</b>	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.
<b>Target wake time</b>	A new power savings mode called Target Wake Time (TWT) 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.
<b>Intelligent Capture</b>	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. Intelligent Capture allows for more informed decisions on your wireless networks.
<b>Flexible Radio Assignment</b>	Allows the access points to intelligently determine the operating mode of serving radios based on the RF environment. The access points can operate in the following modes: <ul style="list-style-type: none"> <li>• 2.4-GHz and 5-GHz mode: One radio will serve clients in 2.4-GHz mode, while the other serves clients in 5-GHz mode.</li> <li>• Dual 5-GHz mode: Both radios inside the access point operate on the 5-GHz band, maximizing the benefits of Wi-Fi 6 and increasing client device capacity.</li> </ul>
<b>Dual 5-GHz radio support</b>	Enables both radios to operate in 5-GHz client serving mode, allowing an industry-leading 5.2 Gbps (2 x 2.6 Gbps) over-the-air speeds while increasing client capacity.
<b>Smart antenna connector</b>	An intelligent second physical antenna connector is included on 9120AX Series access points with an external antenna. This connector provides advanced network design flexibility for high-density and large open-area environments such as auditoriums, convention centers, libraries, cafeterias, and arenas/stadiums, allowing two sets of antennas to be connected and active on a single access point.
<b>Cisco Embedded Wireless Controller</b>	The 9120AX Series Wi-Fi 6 access points is available with a built-in controller. The Cisco Embedded Wireless Controller on Catalyst 9100 Access Points provides an easy-to-deploy and manage option that does not require a physical appliance. The control resides on the access point so there is no added footprint or complexity. And, because it uses Cisco Catalyst 9800 Series code, it's easy to migrate your network as your needs grow.
<b>Multigigabit Ethernet support</b>	Provides uplink speeds of 2.5 Gbps, in addition to 100 Mbps and 1 Gbps. All speeds are supported on Category 5e cabling for an industry first, as well as 10GBASE-T (IEEE 802.3bz) cabling.
<b>Bluetooth 5</b>	Integrated Bluetooth Low Energy (BLE) 5 radio to enable IoT use cases such as location tracking and wayfinding.
<b>Container support for applications</b>	Enables edge computing capabilities for IoT applications on the host access point.
<b>Apple features</b>	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.

**Note:** Features available in a future release: Target Wake Time, BSS coloring, Uplink/downlink OFDMA, Cisco Intelligent Capture

## CISCO DNA SUPPORT

Pairing the Cisco Catalyst 9120AX Series Access Points with Cisco DNA allows for a total network transformation. Cisco DNA allows you to truly understand your network with real-time analytics, quickly detect and contain security threats, and easily provide networkwide consistency through automation and virtualization.

Cisco DNA with Software-Defined Access (SD-Access) is the network fabric that powers business. It is an open and extensible, software-driven architecture that accelerates and simplifies your enterprise network operations. The programmable architecture frees your IT staff from time-consuming, repetitive network configuration tasks so they can focus instead on innovation that positively transforms your business. By decoupling network functions from the hardware, you can build and manage your entire wired and wireless network from a single user interface. SD-Access enables policy-based automation from edge to cloud with foundational capabilities. These include:

- Simplified device deployment
- Unified management of wired and wireless networks
- Network virtualization and segmentation
- Group-based policies
- Context-based analytics

The Cisco Catalyst 9120AX Series Access Points support Software-Defined Access, Cisco's leading enterprise architecture.

Working together, the Cisco Catalyst 9120AX Series and Cisco DNA offer such features as:

- Cisco DNA Spaces
- Cisco Identity Services Engine
- Cisco DNA Analytics and Assurance

## PRODUCT SPECIFICATIONS

**Table 2. Specifications**

Item	Specification
<p><b>Part numbers</b></p>	<p>Cisco Catalyst 9120AXI Access Point: Indoor environments, with internal antennas</p> <ul style="list-style-type: none"> <li>• C9120AXI-x: Cisco Catalyst 9120AX Series</li> </ul> <p>Cisco Catalyst 9120AXE Access Point: Indoor, challenging environments, with external antennas</p> <ul style="list-style-type: none"> <li>• C9120AXE-x: Cisco Catalyst 9120AX Series</li> </ul> <p>Cisco Catalyst 9120AXP Access Point: Indoor, professional installations</p> <ul style="list-style-type: none"> <li>• C9120AXP-x: Cisco Catalyst 9120AX Series</li> </ul> <p>Cisco Catalyst 9120AXI Access Point: Indoor environments, with internal antennas, with embedded wireless controller</p> <ul style="list-style-type: none"> <li>• C9120AXI-EWC-x: Cisco Catalyst 9120AX Series</li> </ul> <p>Cisco Catalyst 9120AXE Access Point: Indoor, challenging environments, with external antennas, with embedded wireless controller</p> <ul style="list-style-type: none"> <li>• C9120AXE-EWC-x: Cisco Catalyst 9120AX Series</li> </ul> <p>Cisco Catalyst 9120AXP Access Point: Indoor, professional installations, with embedded wireless controller</p> <ul style="list-style-type: none"> <li>• C9120AXP-EWC-x: Cisco Catalyst 9120AX Series</li> </ul> <p>Regulatory domains: (x = regulatory domain)</p> <p>Customers are responsible for verifying approval for use in their individual countries.</p> <p>Not all regulatory domains have been approved. As they are approved, the part numbers will be available on the Global Price List.</p> <p>Cisco Wireless LAN Services</p> <ul style="list-style-type: none"> <li>• AS-WLAN-CNSLT: Cisco Wireless LAN Network Planning and Design Service</li> <li>• AS-WLAN-CNSLT: Cisco Wireless LAN 802.11n Migration Service</li> <li>• AS-WLAN-CNSLT: Cisco Wireless LAN Performance and Security Assessment Service</li> </ul>

<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>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> </ul>



	<ul style="list-style-type: none"> <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</li> </ul> <p>Dedicated 5GHz radio</p> <ul style="list-style-type: none"> <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>● Cisco Catalyst 9120E 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>Weight</b>	<p>Cisco Catalyst 9120AXI</p> <ul style="list-style-type: none"> <li>● 2.87 lb (1.3 kg)</li> </ul> <p>Cisco Catalyst 9120AXE/P</p> <ul style="list-style-type: none"> <li>● 3 lb (1.36 kg)</li> </ul>
<b>Input power</b>	<ul style="list-style-type: none"> <li>● 802.3at Power over Ethernet Plus (PoE+), 802.3bt Cisco Universal PoE (Cisco UPOE+),</li> </ul>

<b>requirements</b>	Cisco UPOE <sup>®</sup> ) <ul style="list-style-type: none"> <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>Power draw</b>	<table border="1"> <tr> <td colspan="6" data-bbox="437 414 1356 472">Catalyst 9120AXI</td> </tr> <tr> <th data-bbox="437 472 612 613">PoE power consumption</th> <th data-bbox="612 472 751 613">2.4-GHz radio</th> <th data-bbox="751 472 916 613">5-GHz radio</th> <th data-bbox="916 472 1066 613">Link speed</th> <th data-bbox="1066 472 1225 613">USB</th> <th data-bbox="1225 472 1356 613">LLDP</th> </tr> <tr> <td data-bbox="437 613 612 714">802.3at (PoE+)</td> <td data-bbox="612 613 751 714">4x4</td> <td data-bbox="751 613 916 714">4x4</td> <td data-bbox="916 613 1066 714">2.5G</td> <td data-bbox="1066 613 1225 714">Y</td> <td data-bbox="1225 613 1356 714">25.5W</td> </tr> <tr> <td colspan="6" data-bbox="437 714 1356 772">Catalyst 9120AXE / 9120AXP</td> </tr> <tr> <th data-bbox="437 772 612 913">PoE power consumption</th> <th data-bbox="612 772 751 913">2.4-GHz radio</th> <th data-bbox="751 772 916 913">5-GHz radio</th> <th data-bbox="916 772 1066 913">Link speed</th> <th data-bbox="1066 772 1225 913">USB</th> <th data-bbox="1225 772 1356 913">LLDP</th> </tr> <tr> <td data-bbox="437 913 612 1014">802.3at (PoE+)</td> <td data-bbox="612 913 751 1014">4x4</td> <td data-bbox="751 913 916 1014">4x4</td> <td data-bbox="916 913 1066 1014">2.5G</td> <td data-bbox="1066 913 1225 1014">Y</td> <td data-bbox="1225 913 1356 1014">25.5W</td> </tr> <tr> <td colspan="6" data-bbox="437 1014 1356 1072">Catalyst 9120AXI / 9120AXE / 9120AXP</td> </tr> <tr> <th data-bbox="437 1072 612 1214">PoE power consumption</th> <th data-bbox="612 1072 751 1214">2.4-GHz radio</th> <th data-bbox="751 1072 916 1214">5-GHz radio</th> <th data-bbox="916 1072 1066 1214">Link speed</th> <th data-bbox="1066 1072 1225 1214">USB</th> <th data-bbox="1225 1072 1356 1214">LLDP</th> </tr> <tr> <td data-bbox="437 1214 612 1272">802.3af PoE</td> <td data-bbox="612 1214 751 1272">1x1</td> <td data-bbox="751 1214 916 1272">1x1</td> <td data-bbox="916 1214 1066 1272">1G</td> <td data-bbox="1066 1214 1225 1272">N</td> <td data-bbox="1225 1214 1356 1272">13.4W</td> </tr> <tr> <td data-bbox="437 1272 612 1330">802.3af PoE</td> <td data-bbox="612 1272 751 1330">2x2</td> <td data-bbox="751 1272 916 1330">N</td> <td data-bbox="916 1272 1066 1330">1G</td> <td data-bbox="1066 1272 1225 1330">N</td> <td data-bbox="1225 1272 1356 1330">13.4W</td> </tr> <tr> <td data-bbox="437 1330 612 1391">802.3af PoE</td> <td data-bbox="612 1330 751 1391">N</td> <td data-bbox="751 1330 916 1391">2x2</td> <td data-bbox="916 1330 1066 1391">1G</td> <td data-bbox="1066 1330 1225 1391">N</td> <td data-bbox="1225 1330 1356 1391">13.4W</td> </tr> </table>						Catalyst 9120AXI						PoE power consumption	2.4-GHz radio	5-GHz radio	Link speed	USB	LLDP	802.3at (PoE+)	4x4	4x4	2.5G	Y	25.5W	Catalyst 9120AXE / 9120AXP						PoE power consumption	2.4-GHz radio	5-GHz radio	Link speed	USB	LLDP	802.3at (PoE+)	4x4	4x4	2.5G	Y	25.5W	Catalyst 9120AXI / 9120AXE / 9120AXP						PoE power consumption	2.4-GHz radio	5-GHz radio	Link speed	USB	LLDP	802.3af PoE	1x1	1x1	1G	N	13.4W	802.3af PoE	2x2	N	1G	N	13.4W	802.3af PoE	N	2x2	1G	N	13.4W
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<b>Environmental</b>	Cisco Catalyst 9120AXI <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</p>																																																																							

	<p>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>2.4 GHz</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>5 GHz</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> </ul>

	<ul style="list-style-type: none"> <li>● -1dBm (0.79mW)</li> </ul>
<b>Maximum number of nonoverlapping channels</b>	<p><b>2.4 GHz</b></p> <ul style="list-style-type: none"> <li>● 802.11b/g: <ul style="list-style-type: none"> <li>- 20 MHz: 3</li> </ul> </li> <li>● 802.11n: <ul style="list-style-type: none"> <li>- 20 MHz: 3</li> </ul> </li> <li>● 802.11ax: <ul style="list-style-type: none"> <li>- 20MHz:3</li> </ul> </li> </ul> <p><b>5 GHz</b></p> <ul style="list-style-type: none"> <li>● 802.11a: <ul style="list-style-type: none"> <li>- 20 MHz: 26 FCC, 16 EU</li> </ul> </li> <li>● 802.11n: <ul style="list-style-type: none"> <li>- 20 MHz: 26 FCC, 16 EU</li> <li>- 40 MHz: 12 FCC, 7 EU</li> </ul> </li> <li>● 802.11ac/ax: <ul style="list-style-type: none"> <li>- 20 MHz: 26 FCC, 16 EU</li> <li>- 40 MHz: 12 FCC, 7 EU</li> <li>- 80 MHz: 5 FCC, 3 EU</li> <li>- 160 MHz 2 FCC, 1 EU</li> </ul> </li> </ul>
<p>Note: This varies by regulatory domain. Refer to the product documentation for specific details for each regulatory domain.</p>	
<b>Compliance standards</b>	<ul style="list-style-type: none"> <li>● <b>Safety:</b> <ul style="list-style-type: none"> <li>- IEC 60950-1</li> <li>- EN 60950-1</li> <li>- UL 60950-1</li> <li>- CAN/CSA-C22.2 No. 60950-1</li> <li>- AS/NZS 60950-1</li> <li>- UL 2043</li> <li>- Class III equipment</li> </ul> </li> <li>● <b>Emissions:</b> <ul style="list-style-type: none"> <li>- CISPR 32 (rev. 2015)</li> </ul> </li> </ul>

- EN 55032 (rev. 2012/AC:2013)
- EN 55032 (rev. 2015)
- EN 55035 2010
- EN61000-3-2 (rev. 2014)
- EN61000-3-3 (rev. 2013)
- KN61000-3-2
- KN61000-3-3
- AS/NZS CISPR 32 Class B (rev. 2015)
- 47 CFR FCC Part 15B
- ICES-003 (rev. 2016 Issue 6, Class B)
- VCCI-CISPR 32:2016
- VCCI (V3)
- CNS (rev. 13438)
- KN-32
- KN-35
- KN 301 489-17
- TCVN 7189 (rev. 2009)
- **Immunity:**
- CISPR 24 (rev. 2010)
- EN 55024 / EN 55035 (rev. 2010)
- **Emissions and immunity:**
- EN 301 489-1 (v2.1.1 2017-02)
- EN 301 489-17 (v3.1.1 2017-02)
- QCVN (18:2014)
- KN 489-1
- KN 489-17
- EN 60601 (1-1:2015)
- **Radio:**
- EN 300 328 (v2.1.1)
- EN 301 893 (v2.1.1)

- AS/NZS 4268 (rev. 2017)
- 47 CFR FCC Part 15C, 15.247, 15.407
- RSP-100
- RSS-GEN
- RSS-247
- China regulations SRRC
- LP0002 (rev 2018.1.10)
- Japan Std. 33a, Std. 66, and Std. 71
- **RF safety:**
- EN 50385 (rev. Aug 2002)
- ARPANSA
- AS/NZS 2772 (rev. 2016)
- EN 62209-1 (rev. 2016)
- EN 62209-2 (rev. 2010)
- 47 CFR Part 1.1310 and 2.1091
- RSS-102
- **IEEE standards:**
- IEEE 802.3
- IEEE 802.3ab
- IEEE 802.3af/at
- IEEE 802.11 a/b/g/n/ac/ax
- IEEE 802.11h, 802.11d
- **Security:**
- 802.11i, Wi-Fi Protected Access 3 (WPA3), WPA2, WPA
- 802.1X
- Advanced Encryption Standard (AES)
- **Extensible Authentication Protocol (EAP) types:**
- EAP-Transport Layer Security (TLS)
- EAP-Tunneled TLS (TTLS) or Microsoft Challenge Handshake Authentication Protocol Version 2 (MSCHAPv2)
- Protected EAP (PEAP) v0 or EAP-MSCHAPv2

	<ul style="list-style-type: none"> <li>- EAP-Flexible Authentication via Secure Tunneling (EAP-FAST)</li> <li>- PEAP v1 or EAP-Generic Token Card (GTC)</li> <li>- EAP-Subscriber Identity Module (SIM)</li> </ul>
<b>Data rates supported</b>	802.11b: 1, 2, 5.5, and 11 Mbps
	802.11a/g: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps
	802.11n data rates on 2.4 GHz (only 20 MHz and MCS 0 to MCS 31): and 5 GHz

## ORDERING INFORMATION

**Table 3. Ordering information**

<b>Product number</b>	<b>Product description</b>
<a href="#">C9120AXE-A</a>	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, A Domain
<a href="#">C9120AXE-B</a>	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, B Domain
<a href="#">C9120AXE-D</a>	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, D Domain
<a href="#">C9120AXE-E</a>	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, E Domain
<a href="#">C9120AXE-F</a>	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, F Domain
<a href="#">C9120AXE-G</a>	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, G Domain
<a href="#">C9120AXE-H</a>	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, H Domain
<a href="#">C9120AXE-I</a>	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, I Domain
<a href="#">C9120AXE-K</a>	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, K Domain
<a href="#">C9120AXE-N</a>	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, N Domain
<a href="#">C9120AXE-Q</a>	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, Q Domain
<a href="#">C9120AXE-R</a>	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, R Domain

<a href="#">C9120AXE-S</a>	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, S Domain
<a href="#">C9120AXE-T</a>	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, T Domain
<a href="#">C9120AXE-Z</a>	Cisco Catalyst 9120AXE Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, Z Domain
<a href="#">C9120AXI-A</a>	Cisco Catalyst 9120AXI Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, A Domain
<a href="#">C9120AXI-B</a>	Cisco Catalyst 9120AXI Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, B Domain
<a href="#">C9120AXI-D</a>	Cisco Catalyst 9120AXI Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, D Domain
<a href="#">C9120AXI-E</a>	Cisco Catalyst 9120AXI Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, E Domain
<a href="#">C9120AXI-F</a>	Cisco Catalyst 9120AXI Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, F Domain
<a href="#">C9120AXI-G</a>	Cisco Catalyst 9120AXI Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, G Domain
<a href="#">C9120AXI-H</a>	Cisco Catalyst 9120AXI Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, H Domain
<a href="#">C9120AXI-I</a>	Cisco Catalyst 9120AXI Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, I Domain
<a href="#">C9120AXI-K</a>	Cisco Catalyst 9120AXI Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, K Domain
<a href="#">C9120AXI-N</a>	Cisco Catalyst 9120AXI Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, N Domain
<a href="#">C9120AXI-Q</a>	Cisco Catalyst 9120AXI Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, Q Domain
<a href="#">C9120AXI-R</a>	Cisco Catalyst 9120AXI Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, R Domain
<a href="#">C9120AXI-S</a>	Cisco Catalyst 9120AXI Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, S Domain
<a href="#">C9120AXI-T</a>	Cisco Catalyst 9120AXI Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, T Domain
<a href="#">C9120AXI-Z</a>	Cisco Catalyst 9120AXI Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, Z Domain
<a href="#">C9120AXP-A</a>	Cisco Catalyst 9120AXP Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, A Domain



<a href="#">C9120AXP-B</a>	Cisco Catalyst 9120AXP Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, B Domain
<a href="#">C9120AXP-D</a>	Cisco Catalyst 9120AXP Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, D Domain
<a href="#">C9120AXP-E</a>	Cisco Catalyst 9120AXP Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, E Domain
<a href="#">C9120AXP-G</a>	Cisco Catalyst 9120AXP Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, G Domain
<a href="#">C9120AXP-I</a>	Cisco Catalyst 9120AXP Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, I Domain
<a href="#">C9120AXP-K</a>	Cisco Catalyst 9120AXP Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, K Domain
<a href="#">C9120AXP-N</a>	Cisco Catalyst 9120AXP Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, N Domain
<a href="#">C9120AXP-Q</a>	Cisco Catalyst 9120AXP Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, Q Domain
<a href="#">C9120AXP-S</a>	Cisco Catalyst 9120AXP Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, S Domain
<a href="#">C9120AXP-T</a>	Cisco Catalyst 9120AXP Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, T Domain

## WHERE TO BUY

**Want to buy this series of products? please contact:**

- Tel: +1-626-239-8066 (USA) +852-3050-1066 / +852-3174-6166
- Fax: +852-3050-1066 (Hong Kong)
- Email: [cisco@router-switch.com](mailto:cisco@router-switch.com) (Sales Inquiries)

**Or visit:** [Cisco Catalyst 9120AX Series Access Points](#)

### About us

Router-switch.com (HongKong Yejian Technologies Co., Ltd), founded in 2002, is one of the biggest Global Network Hardware Supplier. We are a leading provider of network products with 18,000+ customers in over 200 countries. We provide original new and used network equipments ([Cisco](#), [Huawei](#), [HPE](#), [Dell](#), [Juniper](#), EMC, etc.), including Routers, Switches, Servers, Storage, Telepresence and Videoconferencing, IP Phones, Firewalls, Wireless APs & Controllers, EHWIC/HWIC/VWIC Cards, SFPs, Memory & Flash, Hard Disk, Cables, and all kinds of network solutions related products.

## SOURCES

<https://www.cisco.com/c/en/us/products/collateral/wireless/catalyst-9120ax-series-access-points/datasheet-c78-742115.html>