

# C9130AXI-Z Datasheet

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## Overview



The Cisco® Catalyst® 9130AX Series Access Points are the next generation of enterprise access points. They are resilient, secure, and intelligent. C9130AXI-Z is the Cisco Catalyst 9130AX Series Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, Z Domain.

### Product Details

Cisco AP C9130AX Series provides these features:

- Wi-Fi 6 certified, supporting 802.11ax on both 2.4-GHz and 5-GHz bands
- Up to four Wi-Fi radios: 5GHz flexible radio (single 8x8 or dual 4x4), 2.4GHz (4x4) and Cisco RF ASIC
- OFDMA and MU-MIMO
- Multigigabit support
- Internal and external antenna

Future feature support:

- IoT ready (BLE, other 802.15.4 protocols\*\* like Zigbee)

\*\* - Supported in future software releases

### Supported Platforms

Table 1 shows the supported platforms and software.

Supported wireless LAN controllers and Software	Recommended Model
Cisco 3500 Series Wireless Controllers	<a href="#">AIR-CT3504-K9</a>
Cisco 5520 Series Wireless Controllers	<a href="#">AIR-CT3504-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 2 shows the comparison of Cisco AP 9130AXI Series.

SKU	Description
C9130AXI-A	Cisco Catalyst 9130AX Series Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, A Domain
C9130AXI-B	Cisco Catalyst 9130AX Series Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, B Domain
C9130AXI-D	Cisco Catalyst 9130AX Series Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, D Domain
C9130AXI-E	Cisco Catalyst 9130AX Series Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, E Domain

<b>C9130AXI-F</b>	Cisco Catalyst 9130AX Series Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, F Domain
<b>C9130AXI-G</b>	Cisco Catalyst 9130AX Series Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, G Domain
<b>C9130AXI-H</b>	Cisco Catalyst 9130AX Series Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, H Domain
<b>C9130AXI-I</b>	Cisco Catalyst 9130AX Series Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, I Domain
<b>C9130AXI-K</b>	Cisco Catalyst 9130AX Series Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, K Domain
<b>C9130AXI-Q</b>	Cisco Catalyst 9130AX Series Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, Q Domain
<b>C9130AXI-R</b>	Cisco Catalyst 9130AX Series Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, R Domain
<b>C9130AXI-S</b>	Cisco Catalyst 9130AX Series Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, S Domain
<b>C9130AXI-T</b>	Cisco Catalyst 9130AX Series Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, T Domain
<a href="#"><u>C9130AXI-Z</u></a>	Cisco Catalyst 9130AX Series Access Point, internal antennas; Wi-Fi 6; 4x4:4 MIMO, Z Domain

### Get More Information

Do you have any question about the C9130AXI-Z?

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

## Specification

<b>C9130AXI-Z Specification</b>	
<b>Software</b>	Catalyst 9130AXI <ul style="list-style-type: none"> <li>• Cisco Unified Wireless Network Software Release 8.10.x or later</li> <li>• Cisco IOS<sup>®</sup> XE Software Release 16.12.1 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 3504, 5520, and 8540 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</li> <li>• 20- and 40-MHz channels</li> <li>• PHY data rates up to 1.5 Gbps (40 MHz with 5 GHz and 20 MHz with 2.4 GHz)</li> <li>• Packet aggregation: Aggregate MAC Protocol Data Unit (A-MPDU) (transmit and receive), Aggregate MAC Service Data Unit (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>• 8x8 downlink MU-MIMO with eight 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 6.9 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> <li>• WPA3 support</li> </ul>
<b>802.11ax</b>	<ul style="list-style-type: none"> <li>• 8x8 uplink/downlink MU-MIMO with eight 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 10 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> <li>• WPA3 support</li> </ul>
<b>Integrated antenna</b>	<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 6 dBi, internal antenna, omnidirectional in azimuth</li> </ul>
<b>External antenna with Smart antenna connector</b>	<ul style="list-style-type: none"> <li>• The Cisco Catalyst 9130AXE Access Point is certified for use with antenna gains up to 13 dBi (2.4 GHz and 5 GHz)</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 the Smart antenna connector</li> <li>• Smart antenna connector is a compact multi-RF connector with 8- DART interface</li> <li>• Requires the AIR-CAB002-D8-R= 2-fppt smart antenna connector when used with antennas with a RP-TNC connector</li> <li>• Requires the AIR-CAB003-D8-N= 3 ft smart antenna connector when used with AIR-ANT2513P4M-N= antenna</li> </ul>
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>• 1x 100, 1000, 2500, 5000 Multigigabit Ethernet (RJ-45) – IEEE 802.3bz</li> <li>• Management console port (RJ-45)</li> <li>• USB 2.0 at 4.5W (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): - C9130AXI: 8.9 x 8.9 x 1.88 in. (22.6 x 22.6 x 4.8 cm)</li> </ul>
<b>Environmental</b>	<p>Cisco Catalyst 9130AXI</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 (4600 m)</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 (3000 m)</li> </ul> <p>Note: When the ambient operating temperature exceeds 40 °C, the access point will shift from 8x8 to 4x4 on the 5 GHz radio, uplink Ethernet will downgrade to 1 Gigabit Ethernet; however, the USB interface will remain enabled.</p>
<b>System memory</b>	<ul style="list-style-type: none"> <li>• 2048 MB DRAM</li> <li>• 1024 MB flash</li> </ul>
<b>Warranty</b>	<p>Limited lifetime hardware warranty</p>

<p><b>Available transmit power settings</b></p>	<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>• -1 dBm (0.79 mW)</li> <li>• -4 dBm(0.39 mW)</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>• -1 dBm (0.79 mW)</li> </ul>
<p><b>Maximum number of nonoverlapping channels</b></p>	<p><b>2.4 GHz</b></p> <ul style="list-style-type: none"> <li>• 802.11b/g: - 20 MHz: 3</li> <li>• 802.11n: - 20 MHz: 3</li> <li>• 802.11ax: - 20 MHz: 3</li> </ul> <p><b>5 GHz</b></p> <ul style="list-style-type: none"> <li>• 802.11a: - 20 MHz: 26 FCC, 16 EU</li> <li>• 802.11n: - 20 MHz: 26 FCC, 16 EU - 40 MHz: 12 FCC, 7 EU</li> <li>• 802.11ac/ax: - 20 MHz: 26 FCC, 16 EU - 40 MHz: 12 FCC, 7 EU - 80 MHz: 5 FCC, 3 EU - 160 MHz 2 FCC, 1 EU</li> </ul> <p>Note: This varies by regulatory domain. Refer to the product documentation for specific details for each regulatory domain.</p>

## Compliance standards

- **Safety:**
  - IEC 60950-1
  - EN 60950-1
  - UL 60950-1
  - CAN/CSA-C22.2 No. 60950-1
  - AS/NZS60950.1
  - UL 2043
  - Class III equipment
- **Emissions:**
  - CISPR 32 (rev. 2015)
  - EN 55032 (rev. 2012/AC:2013)
  - EN 55032 (rev. 2015)
  - 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
  - CNS (rev. 13438)
  - KN-32
  - QCVN 118:2018/BTTTT
- **Immunity:**
  - CISPR 24 (rev. 2010)
  - EN 55024 + AMD 1(rev. 2010)
  - EN 55035: 2017
  - KN35
- **Emissions and immunity:**
  - EN 301 489-1 (v2.1.1 2017-02)
  - EN 301 489-17 (v3.1.1 2017-02)
  - QCVN (18:2014)
  - QCVN 112:2017/BTTTT
  - KN 489-1
  - KN 489-17
  - EN 60601-1-2:2015
  - EN 61000-6-1: 2007
- **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 802.11a/b/g/n/ac/ax
  - IEEE 802.11h, 802.11d
- **Security:**
  - 802.11i, Wi-Fi Protected Access 2 (WPA2), WPA3
  - 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 (MSCHAP) v2
  - Protected EAP (PEAP) v0 or EAP-MSCHAP v2
  - EAP-Flexible Authentication via Secure Tunneling (EAP-FAST)
  - PEAP v1 or EAP-Generic Token Card (GTC)
  - EAP-Subscriber Identity Module (SIM)



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