

C9130AXE-R 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. [C9130AXE-R](#) is the Cisco Catalyst 9130AX Series Access Point, external antennas; Wi-Fi 6; 4x4:4 MIMO, R 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	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	/

Compare to Similar Items

Table 2 shows the comparison of Cisco AP 9130AXE Series.

SKU	Description
C9130AXE-A	Cisco Catalyst 9130AX Series Access Point, external antennas; Wi-Fi 6; 4x4:4 MIMO, A Domain
C9130AXE-B	Cisco Catalyst 9130AX Series Access Point, external antennas; Wi-Fi 6; 4x4:4 MIMO, B Domain
C9130AXE-D	Cisco Catalyst 9130AX Series Access Point, external antennas; Wi-Fi 6; 4x4:4 MIMO, D Domain
C9130AXE-E	Cisco Catalyst 9130AX Series Access Point, external antennas; Wi-Fi 6; 4x4:4 MIMO, E Domain

C9130AXE-H	Cisco Catalyst 9130AX Series Access Point, external antennas; Wi-Fi 6; 4x4:4 MIMO, H Domain
C9130AXE-K	Cisco Catalyst 9130AX Series Access Point, external antennas; Wi-Fi 6; 4x4:4 MIMO, K Domain
C9130AXE-Q	Cisco Catalyst 9130AX Series Access Point, external antennas; Wi-Fi 6; 4x4:4 MIMO, Q Domain
<u>C9130AXE-R</u>	Cisco Catalyst 9130AX Series Access Point, external antennas; Wi-Fi 6; 4x4:4 MIMO, R Domain
C9130AXE-S	Cisco Catalyst 9130AX Series Access Point, external antennas; Wi-Fi 6; 4x4:4 MIMO, S Domain

Get More Information

Do you have any question about the C9130AXE-R?

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Specification

C9130AXE-R Specification	
Software	Catalyst 9130AXE <ul style="list-style-type: none"> • Cisco Unified Wireless Network Software Release 8.10MR1 or later • Cisco IOS ® XE Software Release 17.1.1 s or later
Supported wireless LAN controllers	<ul style="list-style-type: none"> • Cisco Catalyst 9800 Series Wireless Controllers • Cisco 3504, 5520, and 8540 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 • 20- and 40-MHz channels • PHY data rates up to 1.5 Gbps (40 MHz with 5 GHz and 20 MHz with 2.4 GHz) • Packet aggregation: Aggregate MAC Protocol Data Unit (A-MPDU) (transmit and receive), Aggregate MAC Service Data Unit (A-MSDU) (transmit and receive) • 802.11 Dynamic Frequency Selection (DFS) • Cyclic Shift Diversity (CSD) support
802.11ac	<ul style="list-style-type: none"> • 8x8 downlink MU-MIMO with eight spatial streams • MRC • 802.11ac beamforming • 20-, 40-, 80-, and 160-MHz channels • PHY data rates up to 6.9 Gbps (160 MHz with 5 GHz) • Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive) • 802.11 DFS • CSD support • WPA3 support
802.11ax	<ul style="list-style-type: none"> • 8x8 uplink/downlink MU-MIMO with eight spatial streams • Uplink/downlink OFDMA • TWT • BSS coloring • MRC • 802.11ax beamforming • 20-, 40-, 80-, and 160-MHz channels • PHY data rates up to 10 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 • WPA3 support

Integrated antenna	<ul style="list-style-type: none"> • 2.4 GHz: Peak gain 4 dBi, internal antenna, omnidirectional in azimuth • 5 GHz: Peak gain 6 dBi, internal antenna, omnidirectional in azimuth
External antenna with Smart antenna connector	<ul style="list-style-type: none"> • The Cisco Catalyst 9130AXE Access Point is certified for use with antenna gains up to 13 dBi (2.4 GHz and 5 GHz) • Cisco offers the industry's broadest selection of antennas, delivering optimal coverage for a variety of deployment scenarios • Supports Self-Identifiable Antennas (SIA) on the Smart antenna connector • Smart antenna connector is a compact multi-RF connector with 8- DART interface • Requires the AIR-CAB002-D8-R= 2-fpft smart antenna connector when used with antennas with a RP-TNC connector • Requires the AIR-CAB003-D8-N= 3 ft smart antenna connector when used with AIR-ANT2513P4M-N= antenna
Interfaces	<ul style="list-style-type: none"> • 1x 100, 1000, 2500, 5000 Multigigabit Ethernet (RJ-45) – IEEE 802.3bz • Management console port (RJ-45) • USB 2.0 at 4.5W (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): - C9130AXE: 9.17 x 9.17 x 1.58 in. (23.3 x 23.3 x 4.0 cm)
Environmental	<p>Cisco Catalyst 9130AXE</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 (4600 m) • Operating temperature: -4° to 122°F (-20° to 50°C) • Operating humidity: 10% to 90% (noncondensing) • Operating altitude test: 40°C, 9843 ft.(3000 m)
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 (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) • -1 dBm (0.79 mW) • -4 dBm(0.39 mW) <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) • -1 dBm (0.79 mW)

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