C9115AXI-Q Datasheet

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Overview

Cisco Catalyst 9115 Series Wi-Fi 6 Access Points are the next generation of enterprise access points. They are resilient, secure, and intelligent. C9115AXI-Q is the Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, Q Domain.

Product Details

Cisco AP 9115 series provides these features:

- 802.11ax (Wi-Fi 6)

- Uplink/downlink OFDMA

- MU-MIMO technology

- BSS coloring

- Target wake time

- Cisco Mobility Express

- Multigigabit Ethernet support

- Bluetooth 5.0

- Apple Features

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-CT5520-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 9115I series.

SKU	Description
C9115AXI-A	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, A Domain
C9115AXI-B	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, B Domain
C9115AXI-B-EDU	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, B Domain
C9115AXI-D	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, D Domain
C9115AXI-E	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, E Domain

C9115AXI-K	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, K Domain
C9115AXI-Q	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, Q Domain
C9115AXI-S	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, S Domain
C9115AXI-Z	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, Z Domain

Get More Information

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Specification

C9115AXI-Q Specification

Description	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, Q Domain
Software	● Cisco Unified Wireless Network Software Release 8.9 or later ● Cisco IOS ® XE Software Release 16.11 or later
Supported wireless LAN controllers	● 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	● 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	● 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	● 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	● 2.4 GHz, peak gain 3 dBi, internal antenna, omnidirectional in azimuth ● 5 GHz, peak gain 4 dBi, internal antenna, omnidirectional in azimuth
External antenna (sold separately)	● Cisco Catalyst 9115AXE Access Points are certified for use with antenna gains up to 6 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
Interfaces	● 1x 100, 1000, 2500 Multigigabit Ethernet (RJ-45) – IEEE 802.3bz ● Management console port (RJ-45) ● USB 2.0 (enabled via future software)
Indicators	●Status LED indicates boot loader status, association status, operating status, boot loader warnings, and boot loader errors

Dimensions (W x L x H)	●Access point (without mounting brackets): C9115I: 8.0 x 8.0 x 1.5 in. (20.3 x 20.3 x 3.8 cm), C9115E: 8.0 x 8.0 x 1.7 in. (20.3 x 20.3 x 4.3 cm)
Input power require ments	● 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) Note: When 802.3af PoE is the source of power, both 2.4-GHz and 5-GHz radios will be reduced to 2x2 and Ethernet downgraded to 1 Gigabit Ethernet. In addition, the USB port will be off.
Environmental	Cisco Catalyst 9115AXI ● 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. 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, and the USB interface will be disabled. Cisco Catalyst 9115AXE ● 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	● 2048 MB DRAM ● 1024 MB flash
Available transmit power settings	2.4 GHz ● 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) 5 GHz ● 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)
Frequency band and 20-MHz operating channels	Q (Q regulatory domain): ● 2.412 to 2.472 GHz; 13 channels ● 5.180 to 5.320 GHz; 8 channels ● 5.500 to 5.700 GHz; 11 channels

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