

C9117AXI-A 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. C9117AXI-A is the Cisco Catalyst 9117AX Access Point, Internal antenna; Wi-Fi 6; 8x8:8 MIMO, A Domain.

Product Details

Cisco AP 9117 series provides these features:

- 802.11ax (Wi-Fi 6)
- 802.11ac Wave 2 support
- OFDMA
- MU-MIMO technology
- 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-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 9117I series.

SKU	Description
C9117AXI-A	Cisco Catalyst 9117AX Access Point, Internal antenna; Wi-Fi 6; 8x8:8 MIMO, A Domain
C9117AXI-B	Cisco Catalyst 9117AX Access Point, Internal antenna; Wi-Fi 6; 8x8:8 MIMO, B Domain
C9117AXI-B-EDU	Cisco Catalyst 9117AX Access Point, Internal antenna; Wi-Fi 6; 8x8:8 MIMO, B Domain
C9117AXI-D	Cisco Catalyst 9117AX Access Point, Internal antenna; Wi-Fi 6; 8x8:8 MIMO, D Domain
C9117AXI-E	Cisco Catalyst 9117AX Access Point, Internal antenna; Wi-Fi 6; 8x8:8 MIMO, E Domain

C9117AXI-K	Cisco Catalyst 9117AX Access Point, Internal antenna; Wi-Fi 6; 8x8:8 MIMO, K Domain
C9117AXI-Q	Cisco Catalyst 9117AX Access Point, Internal antenna; Wi-Fi 6; 8x8:8 MIMO, Q Domain
C9117AXI-S	Cisco Catalyst 9117AX Access Point, Internal antenna; Wi-Fi 6; 8x8:8 MIMO, S Domain
C9117AXI-Z	Cisco Catalyst 9117AX Access Point, Internal antenna; Wi-Fi 6; 8x8:8 MIMO, Z Domain

Get More Information

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Specification

C9117AXI-A Specification	
Description	Cisco Catalyst 9117AX Access Point, Internal antenna; Wi-Fi 6; 8x8:8 MIMO, A Domain
Software	<ul style="list-style-type: none"> • Cisco Unified Wireless Network Software Release 8.9 or later • Cisco IOS® XE Software Release 16.11 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"> • 8x8 MIMO with four spatial streams for 5-GHz band • 4x4 MIMO with four spatial streams for 2.4-GHz band • Maximal Ratio Combining (MRC) • 20- and 40-MHz channels • PHY data rates up to 600 Mbps (40 MHz with 5 GHz) • Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive) • 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 3.5 Gbps at 5 GHz • Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive) • CSD support
802.11ax	<ul style="list-style-type: none"> • 8x8 MIMO with eight spatial streams for 5-GHz band • 4x4 MIMO with four spatial streams for 2.4-GHz band • Downlink OFDMA • TWT • MRC • 802.11ax beamforming • 20-, 40-, 80, and 160-MHz channels • PHY data rates up to 5 Gbps at 5 GHz • Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive) • CSD 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
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 with up to 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 bracket and mounting features): 8.70 x 8.70 x 1.94 in. (22 x 22 x 4.93 cm) • Access point (without mounting bracket): 8.70 x 8.70 x 2.19 in. (22 x 22 x 5.56 cm)
Weight	<ul style="list-style-type: none"> • 3.02 lb (1.4 kg)

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) <p>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 2.5 Gbps; in addition, the USB port will be off.</p>
Environmental	<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.
System memory	<ul style="list-style-type: none"> ● 2048 MB DRAM ● 1024 MB flash
DFS	<ul style="list-style-type: none"> ● 802.11 dynamic frequency selection (DFS)
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 (0.78 mW) ● -4 dBm (0.4 mW) ● -6 dBm (0.25 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 (0.78 mW) ● -4 dBm (0.4 mW)
Frequency band and 20-MHz operating channels	<p>A (A 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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