

# C9115AXI-S 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-S is the Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, S 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	<a href="#">AIR-CT3504-K9</a>
Cisco 5520 Series Wireless Controllers	<a href="#">AIR-CT5520-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 9115I series.

SKU	Description
<a href="#">C9115AXI-A</a>	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, A Domain
<a href="#">C9115AXI-B</a>	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, B Domain
<a href="#">C9115AXI-B-EDU</a>	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, B Domain
<a href="#">C9115AXI-D</a>	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, D Domain
<a href="#">C9115AXI-E</a>	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, E Domain
<a href="#">C9115AXI-K</a>	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, K Domain

<a href="#">C9115AXI-Q</a>	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, Q Domain
<a href="#">C9115AXI-S</a>	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, S Domain
<a href="#">C9115AXI-Z</a>	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, Z Domain

## Get More Information

Do you have any question about the C9115AXI-S?

Contact us now via [Live Chat](#) or [sales@router-switch.com](mailto:sales@router-switch.com).

## Specification

C9115AXI-S Specification	
<b>Description</b>	Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, S Domain
<b>Software</b>	<ul style="list-style-type: none"> <li>● Cisco Unified Wireless Network Software Release 8.9 or later</li> <li>● Cisco IOS® XE Software Release 16.11 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> <li>● 802.11 DFS</li> <li>● CSD support</li> </ul>
<b>Integrated antenna</b>	<ul style="list-style-type: none"> <li>● 2.4 GHz, peak gain 3 dBi, internal antenna, omnidirectional in azimuth</li> <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 9115AXE Access Points are certified for use with antenna gains up to 6 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> </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 (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): 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)</li> </ul>

<b>Input power requirements</b>	<ul style="list-style-type: none"> <li>● 802.3at Power over Ethernet Plus (PoE+), 802.3bt Cisco Universal PoE (Cisco UPOE+, Cisco UPOE ®)</li> <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> <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 1 Gigabit Ethernet. In addition, the USB port will be off.</p>
<b>Environmental</b>	<p>Cisco Catalyst 9115AXI</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: 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, and the USB interface will be disabled.</p> <p>Cisco Catalyst 9115AXE</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>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>● 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>
<b>Frequency band and 20-MHz operating channels</b>	<p>S (S regulatory domain):</p> <ul style="list-style-type: none"> <li>● 2.412 to 2.472 GHz; 13 channels</li> <li>● 5.180 to 5.320 GHz; 8 channels</li> <li>● 5.500 to 5.700 GHz; 11 channels</li> <li>● 5.745 to 5.825 GHz; 5 channels</li> </ul>

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