

# 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><br><a href="#">AIR-CT8540-1K-K9</a> |
| Cisco 9800 series Wireless Controllers                       | <a href="#">C9800-40-K9</a><br><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 |
| 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 |
| <a href="#">C9115AXI-S</a> | 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

Do you have any question about the C9115AXI-S?

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