# C9115AXE-F 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. C9115AXE-H is the Cisco Catalyst 9115AX Series Access Point, Internal antenna; Wi-Fi 6; 4x4:4 MIMO, F Domain.

## Product Details

**Cisco AP C9115AXE Series** provides these features:

- 802.11ax (Wi-Fi 6)

- Uplink/downlink OFDMAFDMA

- 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 9115AXE Series.**

| SKU | Description |
|---|---|
| **C9115AXE-A** | Cisco Embedded Wireless Controller on Catalyst Access Point; Wi-Fi 6; 4x4:4 MIMO, A Domain |
| **C9115AXE-B** | Cisco Embedded Wireless Controller on Catalyst Access Point; Wi-Fi 6; 4x4:4 MIMO, B Domain |
| **C9115AXE-D** | Cisco Embedded Wireless Controller on Catalyst Access Point; Wi-Fi 6; 4x4:4 MIMO, D Domain |
| **C9115AXE-E** | Cisco Embedded Wireless Controller on Catalyst Access Point; Wi-Fi 6; 4x4:4 MIMO, E Domain |

| | |
|---|---|
| [C9115AXE-F](C9115AXE-F) | Cisco Embedded Wireless Controller on Catalyst Access Point; Wi-Fi 6; 4x4:4 MIMO, F Domain |
| C9115AXE-H | Cisco Embedded Wireless Controller on Catalyst Access Point; Wi-Fi 6; 4x4:4 MIMO, H Domain |
| C9115AXE-I | Cisco Embedded Wireless Controller on Catalyst Access Point; Wi-Fi 6; 4x4:4 MIMO, I Domain |
| C9115AXE-K | Cisco Embedded Wireless Controller on Catalyst Access Point; Wi-Fi 6; 4x4:4 MIMO, K Domain |
| C9115AXE-N | Cisco Embedded Wireless Controller on Catalyst Access Point; Wi-Fi 6; 4x4:4 MIMO, N Domain |
| C9115AXE-Q | Cisco Embedded Wireless Controller on Catalyst Access Point; Wi-Fi 6; 4x4:4 MIMO, Q Domain |
| C9115AXE-S | Cisco Embedded Wireless Controller on Catalyst Access Point; Wi-Fi 6; 4x4:4 MIMO, S Domain |
| C9115AXE-T | Cisco Embedded Wireless Controller on Catalyst Access Point; Wi-Fi 6; 4x4:4 MIMO, T Domain |
| C9115AXE-Z | Cisco Embedded Wireless Controller on Catalyst Access Point; Wi-Fi 6; 4x4:4 MIMO, Z Domain |

## Get More Information

Do you have any question about the C9115AXE-F?

Contact us now at **sales@gntme.com**.

# Specification

| C9115AXE-F Specification | |
|---|---|
| **Description** | Cisco Embedded Wireless Controller on Catalyst Access Point, F Domain |
| **Software** | • Cisco Unified Wireless Network Software Release 8.9 or later<br>• Cisco IOS ® XE Software Release 16.11or later |
| **Supported wireless LAN controllers** | • Cisco Catalyst 9800 Series Wireless Controllers<br>•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<br>• Maximal Ratio Combining (MRC)<br>• 802.11n and 802.11a/g beamforming<br>• 20- and 40-MHz channels<br>• PHY data rates up to 890 Mbps (40 MHz with 5 GHz and 20 MHz with 2.4 GHz)<br>•Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive)<br>• 802.11 Dynamic Frequency Selection (DFS)<br>• Cyclic Shift Diversity (CSD) support |
| **802.11ac** | • 4x4 downlink MU-MIMO with four spatial streams<br>• MRC<br>• 802.11ac beamforming<br>• 20-, 40-, 80-, and 160-MHz channels<br>• PHY data rates up to 3.47 Gbps (160 MHz with 5 GHz)<br>•Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive)<br>• 802.11 DFS<br>•CSD support |

| | |
|---|---|
| **802.11ax** | • 4x4 downlink MU-MIMO with four spatial streams<br>• Uplink/downlink OFDMA<br>• TWT<br>• BSS coloring<br>• MRC<br>• 802.11ax beamforming<br>• 20-, 40-, 80-, and 160-MHz channels<br>•PHY data rates up to 5.38 Gbps (160 MHz with 5 GHz and 20 MHz with 2.4 GHz)<br>•Packet aggregation: A-MPDU (transmit and receive), A-MSDU (transmit and receive)<br>• 802.11 DFS<br>• CSD support |
| **Integrated antenna** | •2.4 GHz, peak gain 3 dBi, internal antenna, omnidirectional in azimuth<br>• 5 GHz, peak gain 6 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)<br>•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<br>• Management console port (RJ-45)<br>• 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 requirements** | •802.3at Power over Ethernet Plus (PoE+), 802.3bt Cisco Universal PoE (Cisco UPOE+, Cisco UPOE ®)<br>• Cisco power injector, AIR-PWRINJ6=<br>• 802.3af PoE<br>•Cisco power injector, AIR-PWRINJ5= (Note: This injector supports only 802.3af)<br>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<br>• Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C)<br>• Nonoperating (storage) altitude test: 25˚C, 15,000 ft.<br>• Operating temperature: 32° to 122°F (0° to 50°C)<br>• Operating humidity: 10% to 90% (noncondensing)<br>• Operating altitude test: 40˚C, 9843 ft.<br>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.<br>Cisco Catalyst 9115AXE<br>• Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C)<br>• Nonoperating (storage) altitude test: 25˚C, 15,000 ft.<br>• Operating temperature: -4° to 122°F (-20° to 50°C)<br>• Operating humidity: 10% to 90% (noncondensing)<br>• Operating altitude test: 40˚C, 9843 ft. |
| **System memory** | • 2048 MB DRAM<br>• 1024 MB flash |

| | |
|---|---|
| **Available transmit power settings** | 2.4 GHz<br>• 23 dBm (200 mW)<br>• 20 dBm (100 mW)<br>• 17 dBm (50 mW)<br>• 14 dBm (25 mW)<br>• 11 dBm (12.5 mW)<br>• 8 dBm (6.25 mW)<br>• 5 dBm (3.13 mW)<br>• 2 dBm (1.56 mW)<br>• -1 dBm (0.79 mW)<br>• -4 dBm (0.39 mW)<br>5 GHz<br>• 26 dBm (400 mW)<br>• 23 dBm (200 mW)<br>• 20 dBm (100 mW)<br>• 17 dBm (50 mW)<br>• 14 dBm (25 mW)<br>• 11 dBm (12.5 mW)<br>• 8 dBm (6.25 mW)<br>• 5 dBm (3.13 mW)<br>• 2 dBm (1.56 mW)<br>• -1 dBm (0.79 mW)<br>• -4 dBm (0.39 mW) |
| **Frequency band and 20-MHz operating channels** | **F regulatory domain:**<br>• 2.412 to 2.472 GHz; 13 channels<br>• 5.250 to 5.350 GHz; 4 channels<br>• 5.725 to 5.825 GHz; 4 channels |

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