# AIR-AP1815T-H-K9

# Datasheet

## Overview

The Cisco Aironet 1815i delivers industry-leading wireless performance with support for the latest Wi-Fi standard, IEEE's 802.11ac Wave 2. The 1815i extends support to a new generation of Wi-Fi clients, such as smartphones, tablets, and high-performance laptops that have integrated 802.11ac Wave 1 or Wave 2 support.

### Product Details

**Table 1 shows the Features and Benefits.**

| Feature | Benefit |
|---|---|
| **MU-MIMO** | Multiuser (MU) multiple-input multiple-output (MU-MIMO) allows transmission of data to multiple 802.11ac Wave 2–capable clients simultaneously to improve the client experience. Prior to MU-MIMO, 802.11n and 802.11ac Wave 1 access points could transmit data to only one client at a time, typically referred to as single-user MIMO (SU-MIMO).<br>802.11ac Wave 2 with 2x2:2 MIMO technology uses two spatial streams when operating in SU-MIMO or MU-MIMO mode, offering 867-Mbps rates for more capacity and reliability than competing access points. |
| **Cisco Mobility Express solution** | Flexible deployment through the Mobility Express solution is ideal for small to medium-sized deployments. Easy setup allows the 1815i to be deployed on networks without a physical controller. |
| **Integrated Bluetooth 4.1** | Integrated Bluetooth low-energy (BLE) 4.1 radio for location and asset tracking (future availability). |

**Table 2 shows the models list.**

| SKU | Description |
|---|---|
| AIR-AP1815I-A-K9 | Cisco Aironet 1815i Series (not for US), Reg Domain A |
| AIR-AP1815I-A-K9C | Cisco Aironet Mobility Express 1815i Series, Reg Domain A |
| AIR-AP1815I-E-K9 | Cisco Aironet 1815i Series, Reg Domain E |
| AIR-AP1815I-E-K9C | Cisco Aironet Mobility Express 1815i Series, Reg Domain E |
| AIR-AP1815I-I-K9 | Cisco Aironet 1815i Series, Reg Domain I |
| AIR-AP1815I-I-K9C | Cisco Aironet Mobility Express 1815i Series, Reg Domain I |
| AIR-AP1815I-N-K9 | Cisco Aironet 1815i Series, Reg Domain N |
| AIR-AP1815I-N-K9C | Cisco Aironet Mobility Express 1815i Series, Reg Domain N |
| AIR-AP1815I-S-K9 | Cisco Aironet 1815i Series, Reg Domain S |
| AIR-AP1815I-S-K9C | Cisco Aironet Mobility Express 1815i Series, Reg Domain S |
| AIR-AP1815I-Z-K9 | Cisco Aironet 1815i Series, Reg Domain Z |
| AIR-AP1815I-Z-K9C | Cisco Aironet Mobility Express 1815i Series, Reg Domain Z |
| AIR-AP1815I-B-K9 | Cisco Aironet 1815i Series (for US), Reg Domain B |
| AIR-AP1815I-B-K9C | Cisco Aironet Mobility Express 1815i Series, Reg Domain B |
| AIR-AP1815I-C-K9 | Cisco Aironet 1815i Series, Reg Domain C |
| AIR-AP1815I-D-K9 | Cisco Aironet 1815i Series, Reg Domain D |

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|---|---|
| AIR-AP1815I-T-K9 | Cisco Aironet 1815i Series, Reg Domain T |
| AIR-AP1815I-D-K9C | Cisco Aironet Mobility Express 1815i Series, Reg Domain D |
| AIR-AP1815I-H-K9C | Cisco Aironet Mobility Express 1815i Series, Reg Domain H |
| AIR-AP1815I-K-K9 | Cisco Aironet 1815i Series, Reg Domain K |
| AIR-AP1815I-K-K9C | Cisco Aironet Mobility Express 1815i Series, Reg Domain K |
| AIR-AP1815I-Q-K9 | Cisco Aironet 1815i Series, Reg Domain Q |
| AIR-AP1815I-Q-K9C | Cisco Aironet Mobility Express 1815i Series, Reg Domain Q |
| AIR-AP1815I-T-K9C | Cisco Aironet Mobility Express 1815i Series, Reg Domain T |
| AIR-AP1815I-F-K9 | Cisco Aironet 1815i Series, Reg Domain F |
| AIR-AP1815I-F-K9C | Cisco Aironet Mobility Express 1815i Series, Reg Domain F |
| **Note** | • AIR-AP1815i-x-K9: Dual-band, controller-based 802.11a/g/n/ac, Wave 2<br>• AIR-AP1815i-x-K9C: Dual-band 802.11a/g/n/ac Wave 2 with default software Mobility Express<br>◦ Regulatory domains: (x = regulatory domain)<br>◦For Mobility Express, part number AIR-AP1815i-x-K9C offers default software option Mobility Express |

## Supported Platforms

**Table 3 shows the Supported WLAN Controllers of this AP series.**

| Supported WLAN Controllers | Recommended Model |
|---|---|
| Cisco 2500 Series Wireless Controllers | AIR-CT2504-5-K9 AIR-CT2504-15-K9 AIR-CT2504-25-K9 |
| Cisco 3500 Series Wireless Controllers | AIR-CT3504-K9 |
| Cisco Wireless Controller Module for ISR G2 | / |
| Cisco Wireless Services Module 2 (WiSM2) for Catalyst® 6500 Series Switches | / |
| Cisco 5500 Series Wireless Controllers | AIR-CT5508-12-K9 AIR-CT5508-25-K9 AIR-CT5520-K9 |
| Cisco Flex® 7500 Series Wireless Controllers | AIR-CT7510-300-K9 AIR-CT7510-500-K9 |
| Cisco 8500 Series Wireless Controllers | AIR-CT8510-300-K9 AIR-CT8540-K9 |
| Cisco 9800 series Wireless Controllers | C9800-40-K9 C9800-80-K9 |
| Cisco Mobility Express | / |

## Get More Information

Do you have any question about the Cisco Aironet 1815i Access Point?

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# Specification

# Cisco Aironet 1815i Access Point Specification

| | |
|---|---|
| **Authentication and security** | • Advanced Encryption Standard (AES) for Wi-Fi Protected Access 2 (WPA2)<br>• 802.1X, RADIUS authentication, authorization, and accounting (AAA)<br>• 802.11r<br>• 802.11i |
| **Software** | • Cisco Unified Wireless Network Software with AireOS Wireless Controllers Release 8.5 or later<br>• Cisco Mobility Express |
| **Supported WLAN Controllers** | •Cisco 2500 Series Wireless Controllers, Cisco 3500 Series Wireless Controllers, Cisco Wireless Controller Module for ISR G2, Cisco Wireless Services Module 2 (WiSM2) for Catalyst® 6500 Series Switches, Cisco 5500 Series Wireless Controllers, Cisco Flex® 7500 Series Wireless Controllers, Cisco 8500 Series Wireless Controllers, Cisco 9800 series Wireless Controllers,<br>• Cisco Mobility Express |
| **Maximum clients** | • Maximum number of associated wireless clients: 200 per Wi-Fi radio, in total 400 clients per access point |
| **802.11ac** | • 2x2 single-user/multiuser MIMO with two spatial streams<br>• Maximal ratio combining (MRC)<br>• 20-, 40- and 80-MHz channels<br>• PHY data rates up to 866.7 Mbps (80 MHz on 5 GHz)<br>• Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Rx)<br>• 802.11 Dynamic Frequency Selection (DFS)<br>• Cyclic shift diversity (CSD) support |
| **Ethernet ports** | • Authentication with 802.1X or MAC filtered<br>• Dynamic VLAN or per port<br>• Traffic locally switched or tunneled back to wireless LAN controller |
| **Bluetooth (future availability)** | • Integrated Bluetooth 4.1 (including BLE) radio<br>• Maximum transmit power: 4 dBm<br>• Antenna gain: 2 dBi |
| **Data rates supported** | 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps |
| | 802.11b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps |
| | 802.11n data rates on 2.4 GHz: |

| MCS Index1 | GI2 = 800 ns | GI = 400 ns |
|---|---|---|
| | 20-MHz Rate (Mbps) | 20-MHz Rate (Mbps) |
| 0 | 6.5 | 7.2 |
| 1 | 13 | 14.4 |
| 2 | 19.5 | 21.7 |
| 3 | 26 | 28.9 |
| 4 | 39 | 43.3 |
| 5 | 52 | 57.8 |
| 6 | 58.5 | 65 |
| 7 | 65 | 72.2 |
| 8 | 13 | 14.4 |
| 9 | 26 | 28.9 |
| 10 | 39 | 43.3 |
| 11 | 52 | 57.8 |
| 12 | 78 | 86.7 |
| 13 | 104 | 115.6 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 14 | | 117 | | | 130 | | |
| 15 | | 130 | | | 144.4 | | |

802.11ac data rates on 5 GHz:

| MCS Index | Spatial Streams | GI = 800 ns | | | GI = 400 ns | | |
|---|---|---|---|---|---|---|---|
| | | 20-MHz Rate (Mbps) | 40-MHz Rate (Mbps) | 80-MHz Rate (Mbps) | 20-MHz Rate (Mbps) | 40-MHz Rate (Mbps) | 80-MHz Rate (Mbps) |
| 0 | 1 | 6.5 | 13.5 | 29.3 | 7.2 | 15 | 32.5 |
| 1 | 1 | 13 | 27 | 58.5 | 14.4 | 30 | 65 |
| 2 | 1 | 19.5 | 40.5 | 87.8 | 21.7 | 45 | 97.5 |
| 3 | 1 | 26 | 54 | 117 | 28.9 | 60 | 130 |
| 4 | 1 | 39 | 81 | 175.5 | 43.3 | 90 | 195 |
| 5 | 1 | 52 | 108 | 234 | 57.8 | 120 | 260 |
| 6 | 1 | 58.5 | 121.5 | 263.3 | 65 | 135 | 292.5 |
| 7 | 1 | 65 | 135 | 292.5 | 72.2 | 150 | 325 |
| 8 | 1 | 78 | 162 | 351 | 86.7 | 180 | 390 |
| 9 | 1 | – | 180 | 390 | – | 200 | 433.3 |
| 0 | 2 | 13 | 27 | 58.5 | 14.4 | 30 | 65 |
| 1 | 2 | 26 | 54 | 117 | 28.9 | 60 | 130 |
| 2 | 2 | 39 | 81 | 175.5 | 43.3 | 90 | 195 |
| 3 | 2 | 52 | 108 | 234 | 57.8 | 120 | 260 |
| 4 | 2 | 78 | 162 | 351 | 86.7 | 180 | 390 |
| 5 | 2 | 104 | 216 | 468 | 115.6 | 240 | 520 |
| 6 | 2 | 117 | 243 | 526.5 | 130 | 270 | 585 |
| 7 | 2 | 130 | 270 | 585 | 144.4 | 300 | 650 |
| 8 | 2 | 156 | 324 | 702 | 173.3 | 360 | 780 |
| 9 | 2 | – | 360 | 780 | – | 400 | 866.7 |

| | | |
|---|---|---|
| **Maximum number of non-overlapping channels** | A (A regulatory domain):<br>• 2.412 to 2.462 GHz; 11 channels<br>• 5.180 to 5.320 GHz; 8 channels<br>•5.500 to 5.700 GHz; 8 channels<br>(excludes 5.600 to 5.640 GHz)<br>•5.745 to 5.825 GHz; 5 channels<br>B (B regulatory domain):<br>• 2.412 to 2.462 GHz; 11 channels<br>• 5.180 to 5.320 GHz; 8 channels<br>• 5.500 to 5.720 GHz; 12 channels<br>•5.745 to 5.825 GHz; 5 channels<br>C (C regulatory domain):<br>• 2.412 to 2.472 GHz; 13 channels<br>•5.745 to 5.825 GHz; 5 channels<br>D (D regulatory domain):<br>• 2.412 to 2.462 GHz; 11 channels<br>• 5.180 to 5.320 GHz; 8 channels<br>•5.745 to 5.825 GHz; 5 channels<br>E (E regulatory domain):<br>• 2.412 to 2.472 GHz; 13 channels<br>• 5.180 to 5.320 GHz; 8 channels<br>•5.500 to 5.700 GHz; 8 channels<br>(excludes 5.600 to 5.640 GHz)<br>F (F regulatory domain):<br>• 2.412 to 2.472 GHz; 13 channels<br>•5.745 to 5.805 GHz; 4 channels<br>G (G regulatory domain):<br>• 2.412 to 2.472 GHz; 13 channels<br>•5.745 to 5.865 GHz; 7 channels<br>H (H regulatory domain):<br>• 2.412 to 2.472 GHz; 13 channels<br>• 5.180 to 5.320 GHz; 8 channels<br>•5.745 to 5.825 GHz; 5 channels<br>I (I regulatory domain):<br>• 2.412 to 2.472 GHz; 13 channels<br>• 5.180 to 5.320 GHz; 8 channels | K (K regulatory domain):<br>• 2.412 to 2.472 GHz; 13 channels<br>• 5.180 to 5.320 GHz; 8 channels<br>• 5.500 to 5.620 GHz; 7 channels<br>•5.745 to 5.805 GHz; 4 channels<br>N (N regulatory domain):<br>• 2.412 to 2.462 GHz; 11 channels<br>• 5.180 to 5.320 GHz; 8 channels<br>•5.745 to 5.825 GHz; 5 channels<br>Q (Q regulatory domain):<br>• 2.412 to 2.472 GHz; 13 channels<br>• 5.180 to 5.320 GHz; 8 channels<br>•5.500 to 5.700 GHz; 11 channels<br>R (R regulatory domain):<br>• 2.412 to 2.472 GHz; 13 channels<br>• 5.180 to 5.320 GHz; 8 channels<br>• 5.660 to 5.700 GHz; 3 channels<br>•5.745 to 5.805 GHz; 4 channels<br>S (S regulatory domain):<br>• 2.412 to 2.472 GHz; 13 channels<br>• 5.180 to 5.320 GHz; 8 channels<br>• 5.500 to 5.700 GHz; 11 channels<br>•5.745 to 5.825 GHz; 5 channels<br>T (T regulatory domain):<br>• 2.412 to 2.462 GHz; 11 channels<br>• 5.280 to 5.320 GHz; 3 channels<br>•5.500 to 5.700 GHz; 8 channels<br>(excludes 5.600 to 5.640 GHz)<br>•5.745 to 5.825 GHz; 5 channels<br>Z (Z regulatory domain):<br>• 2.412 to 2.462 GHz; 11 channels<br>• 5.180 to 5.320 GHz; 8 channels<br>•5.500 to 5.700 GHz; 8 channels<br>(excludes 5.600 to 5.640 GHz)<br>• 5.745 to 5.825 GHz; 5 channels |
| **Note: This varies by regulatory domain. Refer to the product documentation for specific details for each regulatory domain.** | | |
| **Available transmit power settings** | 2.4 GHz<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 (0.78 mW) | 5 GHz<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 (0.78mW) |
| **Note: The maximum power setting will vary by channel and according to individual country regulations. Refer to the product documentation for specific details.** | | |
| **Integrated antennas** | • 2.4 GHz, gain 2 dBi<br>• 5 GHz, gain 4 dBi | |
| **Interfaces** | • 1 x 10/100/1000BASE-T autosensing (RJ-45), Power over Ethernet (PoE)<br>• Management console port (RJ-45) | |
| **Indicators** | • Status LED indicates boot loader status, association status, operating status, boot loader warnings, boot loader errors | |
| **Dimensions (W x L x H)** | • Access point (without mounting bracket): 6 x 6 x 1.3 in (150.8 x 150.8 x 33 mm) | |
| **Weight** | • Access point without mounting bracket or any other accessories: 14 oz (400 g) | |
| **Environmental** | • Operating<br>◦ Temperature: 32° to 104°F (0° to 40°C)<br>◦ Humidity: 10% to 90% (noncondensing)<br>◦ Max. altitude: 9843 ft (3000 m) @ 40°C<br>• Nonoperating (storage and transportation)<br>◦ Temperature: -22° to 158°F (-30° to 70°C)<br>◦ Humidity: 10% to 90% (noncondensing)<br>◦ Max. altitude: 15,000 ft (4500 m) @ 25°C | |

| | |
|---|---|
| **System** | • 1 GB DRAM<br>• 256 MB flash<br>• 710 MHz quad core |
| **Input power requirements** | • Power injector: AIR-PWRINJ5= or AIR-PWRINJ6= |
| **Powering options** | • 802.3af/at Ethernet switch<br>• Optional Cisco power injectors (AIR-PWRINJ5=, AIR-PWRINJ6=) |
| **Power draw** | • 8.3W (maximum, on PoE) |
| **Physical security** | • Torx security screw, included with the access point |
| **Mounting** | • Included with the access point: mounting bracket AIR-AP-BRACKET8 |
| **Accessories** | • Mounting bracket: AIR-AP-BRACKET8= (available as spare)<br>•Physical security kit: AIR-SEC-50= (sold separately), with 50 pcs. Security screws used to secure access point onto wall-mounting bracket, 50 pcs. RJ-45 caps and 2 pcs. unlock keys used to block physical access to Ethernet ports |
| **Warranty** | Limited Lifetime Hardware Warranty |
| **Compliance** | • Safety:<br>◦ UL 60950-1<br>◦ CAN/CSA-C22.2 No. 60950-1<br>◦ UL 2043<br>◦ IEC 60950-1<br>◦ EN 60950-1<br>• Radio approvals:<br>◦ FCC Part 15.247, 15.407<br>◦ RSS-247 (Canada)<br>◦ EN 300.328, EN 301.893 (Europe)<br>◦ ARIB-STD 66 (Japan)<br>◦ ARIB-STD T71 (Japan)<br>◦ EMI and susceptibility (Class B)<br>◦ FCC Part 15.107 and 15.109<br>◦ ICES-003 (Canada)<br>◦ VCCI (Japan)<br>◦ EN 301.489-1 and -17 (Europe)<br>◦ EN 50385<br>• IEEE standards:<br>◦ IEEE 802.11a/b/g, 802.11n, 802.11h, 802.11d<br>◦ IEEE 802.11ac<br>• Security:<br>◦ 802.11i, WPA2, WPA<br>◦ 802.1X<br>◦ AES<br>• Extensible Authentication Protocol (EAP) types:<br>◦ EAP-Transport Layer Security (TLS)<br>◦ EAP-Tunneled TLS (TTLS) or Microsoft Challenge Handshake Authentication Protocol Version 2 (MSCHAPv2)<br>◦ Protected EAP (PEAP) v0 or EAP-MSCHAPv2<br>◦ EAP-Flexible Authentication via Secure Tunneling (FAST)<br>◦ PEAP v1 or EAP-Generic Token Card (GTC)<br>◦ EAP-Subscriber Identity Module (SIM)<br>• Multimedia:<br>◦ Wi-Fi Multimedia (WMM)<br>• Other:<br>◦ FCC Bulletin OET-65C<br>◦ RSS-102 |

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