

AIR-AP1815I-E-K9C Datasheet

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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	Multuser (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). 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

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	<ul style="list-style-type: none"> ● AIR-AP1815i-x-K9: Dual-band, controller-based 802.11a/g/n/ac, Wave 2 ● AIR-AP1815i-x-K9C: Dual-band 802.11a/g/n/ac Wave 2 with default software Mobility Express <ul style="list-style-type: none"> ◦ Regulatory domains: (x = regulatory domain) ◦ 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	/

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Specification

Cisco Aironet 1815i Access Point Specification

Authentication and security	<ul style="list-style-type: none"> Advanced Encryption Standard (AES) for Wi-Fi Protected Access 2 (WPA2) 802.1X, RADIUS authentication, authorization, and accounting (AAA) 802.11r 802.11i 																																																																																
Software	<ul style="list-style-type: none"> Cisco Unified Wireless Network Software with AireOS Wireless Controllers Release 8.5 or later Cisco Mobility Express 																																																																																
Supported WLAN Controllers	<ul style="list-style-type: none"> 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, Cisco Mobility Express 																																																																																
Maximum clients	<ul style="list-style-type: none"> Maximum number of associated wireless clients: 200 per Wi-Fi radio, in total 400 clients per access point 																																																																																
802.11ac	<ul style="list-style-type: none"> 2x2 single-user/multiuser MIMO with two spatial streams Maximal ratio combining (MRC) 20-, 40- and 80-MHz channels PHY data rates up to 866.7 Mbps (80 MHz on 5 GHz) Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Rx) 802.11 Dynamic Frequency Selection (DFS) Cyclic shift diversity (CSD) support 																																																																																
Ethernet ports	<ul style="list-style-type: none"> Authentication with 802.1X or MAC filtered Dynamic VLAN or per port Traffic locally switched or tunneled back to wireless LAN controller 																																																																																
Bluetooth (future availability)	<ul style="list-style-type: none"> Integrated Bluetooth 4.1 (including BLE) radio Maximum transmit power: 4 dBm Antenna gain: 2 dBi 																																																																																
Data rates supported	<p>802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</p> <p>802.11b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps</p> <p>802.11n data rates on 2.4 GHz:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="text-align: left;">MCS Index1</th> <th colspan="2">GI = 800 ns</th> <th colspan="2">GI = 400 ns</th> </tr> <tr> <th colspan="2">20-MHz Rate (Mbps)</th> <th colspan="2">20-MHz Rate (Mbps)</th> </tr> </thead> <tbody> <tr><td>0</td><td>6.5</td><td></td><td>7.2</td><td></td></tr> <tr><td>1</td><td>13</td><td></td><td>14.4</td><td></td></tr> <tr><td>2</td><td>19.5</td><td></td><td>21.7</td><td></td></tr> <tr><td>3</td><td>26</td><td></td><td>28.9</td><td></td></tr> <tr><td>4</td><td>39</td><td></td><td>43.3</td><td></td></tr> <tr><td>5</td><td>52</td><td></td><td>57.8</td><td></td></tr> <tr><td>6</td><td>58.5</td><td></td><td>65</td><td></td></tr> <tr><td>7</td><td>65</td><td></td><td>72.2</td><td></td></tr> <tr><td>8</td><td>13</td><td></td><td>14.4</td><td></td></tr> <tr><td>9</td><td>26</td><td></td><td>28.9</td><td></td></tr> <tr><td>10</td><td>39</td><td></td><td>43.3</td><td></td></tr> <tr><td>11</td><td>52</td><td></td><td>57.8</td><td></td></tr> <tr><td>12</td><td>78</td><td></td><td>86.7</td><td></td></tr> <tr><td>13</td><td>104</td><td></td><td>115.6</td><td></td></tr> </tbody> </table>		MCS Index1	GI = 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	
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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	<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 B (B regulatory domain): • 2.412 to 2.462 GHz; 11 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.720 GHz; 12 channels • 5.745 to 5.825 GHz; 5 channels C (C regulatory domain): • 2.412 to 2.472 GHz; 13 channels • 5.745 to 5.825 GHz; 5 channels D (D regulatory domain): • 2.412 to 2.462 GHz; 11 channels • 5.180 to 5.320 GHz; 8 channels • 5.745 to 5.825 GHz; 5 channels E (E regulatory domain): • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz) F (F regulatory domain): • 2.412 to 2.472 GHz; 13 channels • 5.745 to 5.805 GHz; 4 channels G (G regulatory domain): • 2.412 to 2.472 GHz; 13 channels • 5.745 to 5.865 GHz; 7 channels H (H regulatory domain): • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.745 to 5.825 GHz; 5 channels I (I regulatory domain): • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels 	<p>K (K regulatory domain):</p> <ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.620 GHz; 7 channels • 5.745 to 5.805 GHz; 4 channels N (N regulatory domain): • 2.412 to 2.462 GHz; 11 channels • 5.180 to 5.320 GHz; 8 channels • 5.745 to 5.825 GHz; 5 channels Q (Q regulatory domain): • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz; 11 channels R (R regulatory domain): • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.660 to 5.700 GHz; 3 channels • 5.745 to 5.805 GHz; 4 channels S (S regulatory domain): • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz; 11 channels • 5.745 to 5.825 GHz; 5 channels T (T regulatory domain): • 2.412 to 2.462 GHz; 11 channels • 5.280 to 5.320 GHz; 3 channels • 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz) • 5.745 to 5.825 GHz; 5 channels Z (Z regulatory domain): • 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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Note: This varies by regulatory domain. Refer to the product documentation for specific details for each regulatory domain.

Available transmit power settings	<p>2.4 GHz</p> <ul style="list-style-type: none"> 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) 	<p>5 GHz</p> <ul style="list-style-type: none"> 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 (0.78mW)
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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	<ul style="list-style-type: none"> • 2.4 GHz, gain 2 dBi • 5 GHz, gain 4 dBi
Interfaces	<ul style="list-style-type: none"> • 1 x 10/100/1000BASE-T autosensing (RJ-45), Power over Ethernet (PoE) • Management console port (RJ-45)
Indicators	<ul style="list-style-type: none"> • Status LED indicates boot loader status, association status, operating status, boot loader warnings, boot loader errors
Dimensions (W x L x H)	<ul style="list-style-type: none"> • Access point (without mounting bracket): 6 x 6 x 1.3 in (150.8 x 150.8 x 33 mm)
Weight	<ul style="list-style-type: none"> • Access point without mounting bracket or any other accessories: 14 oz (400 g)
Environmental	<ul style="list-style-type: none"> • Operating <ul style="list-style-type: none"> ◦ Temperature: 32° to 104°F (0° to 40°C) ◦ Humidity: 10% to 90% (noncondensing) ◦ Max. altitude: 9843 ft (3000 m) @ 40°C • Nonoperating (storage and transportation) <ul style="list-style-type: none"> ◦ Temperature: -22° to 158°F (-30° to 70°C) ◦ Humidity: 10% to 90% (noncondensing) ◦ Max. altitude: 15,000 ft (4500 m) @ 25°C

System	<ul style="list-style-type: none"> • 1 GB DRAM • 256 MB flash • 710 MHz quad core
Input power requirements	<ul style="list-style-type: none"> • Power injector: AIR-PWRINJ5= or AIR-PWRINJ6=
Powering options	<ul style="list-style-type: none"> • 802.3af/at Ethernet switch • Optional Cisco power injectors (AIR-PWRINJ5=, AIR-PWRINJ6=)
Power draw	<ul style="list-style-type: none"> • 8.3W (maximum, on PoE)
Physical security	<ul style="list-style-type: none"> • Torx security screw, included with the access point
Mounting	<ul style="list-style-type: none"> • Included with the access point: mounting bracket AIR-AP-BRACKET8
Accessories	<ul style="list-style-type: none"> • Mounting bracket: AIR-AP-BRACKET8= (available as spare) • 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	<ul style="list-style-type: none"> • Safety: <ul style="list-style-type: none"> ◦ UL 60950-1 ◦ CAN/CSA-C22.2 No. 60950-1 ◦ UL 2043 ◦ IEC 60950-1 ◦ EN 60950-1 • Radio approvals: <ul style="list-style-type: none"> ◦ FCC Part 15.247, 15.407 ◦ RSS-247 (Canada) ◦ EN 300.328, EN 301.893 (Europe) ◦ ARIB-STD 66 (Japan) ◦ ARIB-STD T71 (Japan) ◦ EMI and susceptibility (Class B) ◦ FCC Part 15.107 and 15.109 ◦ ICES-003 (Canada) ◦ VCCI (Japan) ◦ EN 301.489-1 and -17 (Europe) ◦ EN 50385 • IEEE standards: <ul style="list-style-type: none"> ◦ IEEE 802.11a/b/g, 802.11n, 802.11h, 802.11d ◦ IEEE 802.11ac • Security: <ul style="list-style-type: none"> ◦ 802.11i, WPA2, WPA ◦ 802.1X ◦ AES • Extensible Authentication Protocol (EAP) types: <ul style="list-style-type: none"> ◦ EAP-Transport Layer Security (TLS) ◦ EAP-Tunneled TLS (TTLS) or Microsoft Challenge Handshake Authentication Protocol Version 2 (MSCHAPv2) ◦ Protected EAP (PEAP) v0 or EAP-MSCHAPv2 ◦ EAP-Flexible Authentication via Secure Tunneling (FAST) ◦ PEAP v1 or EAP-Generic Token Card (GTC) ◦ EAP-Subscriber Identity Module (SIM) • Multimedia: <ul style="list-style-type: none"> ◦ Wi-Fi Multimedia (WMM) • Other: <ul style="list-style-type: none"> ◦ FCC Bulletin OET-65C ◦ RSS-102

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