

AIR-AP1815I-A-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	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

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 <p>•5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)</p> <p>•5.745 to 5.825 GHz; 5 channels</p> <p>B (B 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 5.720 GHz; 12 channels <p>•5.745 to 5.825 GHz; 5 channels</p> <p>C (C regulatory domain):</p> <ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels <p>•5.745 to 5.825 GHz; 5 channels</p> <p>D (D 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 <p>•5.745 to 5.825 GHz; 5 channels</p> <p>E (E 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 <p>•5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)</p> <p>F (F regulatory domain):</p> <ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels <p>•5.745 to 5.805 GHz; 4 channels</p> <p>G (G regulatory domain):</p> <ul style="list-style-type: none"> • 2.412 to 2.472 GHz; 13 channels <p>•5.745 to 5.865 GHz; 7 channels</p> <p>H (H 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 <p>•5.745 to 5.825 GHz; 5 channels</p> <p>I (I 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 	<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 <p>•5.745 to 5.805 GHz; 4 channels</p> <p>N (N 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 <p>•5.745 to 5.825 GHz; 5 channels</p> <p>Q (Q 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 <p>•5.500 to 5.700 GHz; 11 channels</p> <p>R (R 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 • 5.660 to 5.700 GHz; 3 channels <p>•5.745 to 5.805 GHz; 4 channels</p> <p>S (S 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 5.700 GHz; 11 channels <p>•5.745 to 5.825 GHz; 5 channels</p> <p>T (T regulatory domain):</p> <ul style="list-style-type: none"> • 2.412 to 2.462 GHz; 11 channels • 5.280 to 5.320 GHz; 3 channels <p>•5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)</p> <p>•5.745 to 5.825 GHz; 5 channels</p> <p>Z (Z 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 <p>•5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)</p> <ul style="list-style-type: none"> • 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	<p>2.4 GHz</p> <p>20 dBm (100 mW)</p> <p>17 dBm (50 mW)</p> <p>14 dBm (25 mW)</p> <p>11 dBm (12.5 mW)</p> <p>8 dBm (6.25 mW)</p> <p>5 dBm (3.13 mW)</p> <p>2 dBm (1.56 mW)</p> <p>-1 dBm (0.78 mW)</p>	<p>5 GHz</p> <p>20 dBm (100 mW)</p> <p>17 dBm (50 mW)</p> <p>14 dBm (25 mW)</p> <p>11 dBm (12.5 mW)</p> <p>8 dBm (6.25 mW)</p> <p>5 dBm (3.13 mW)</p> <p>2 dBm (1.56 mW)</p> <p>-1 dBm (0.78mW)</p>
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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