

# AIR-AP1815M-B-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
<b>MU-MIMO</b>	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.
<b>Cisco Mobility Express solution</b>	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.
<b>Integrated Bluetooth 4.1</b>	Integrated Bluetooth low-energy (BLE) 4.1 radio for location and asset tracking (future availability).

Table 2 shows the models list.

SKU	Description
<a href="#">AIR-AP1815I-A-K9</a>	Cisco Aironet 1815i Series (not for US), Reg Domain A
<a href="#">AIR-AP1815I-A-K9C</a>	Cisco Aironet Mobility Express 1815i Series, Reg Domain A
<a href="#">AIR-AP1815I-E-K9</a>	Cisco Aironet 1815i Series, Reg Domain E
<a href="#">AIR-AP1815I-E-K9C</a>	Cisco Aironet Mobility Express 1815i Series, Reg Domain E
<a href="#">AIR-AP1815I-I-K9</a>	Cisco Aironet 1815i Series, Reg Domain I
<a href="#">AIR-AP1815I-I-K9C</a>	Cisco Aironet Mobility Express 1815i Series, Reg Domain I
<a href="#">AIR-AP1815I-N-K9</a>	Cisco Aironet 1815i Series, Reg Domain N
<a href="#">AIR-AP1815I-N-K9C</a>	Cisco Aironet Mobility Express 1815i Series, Reg Domain N
<a href="#">AIR-AP1815I-S-K9</a>	Cisco Aironet 1815i Series, Reg Domain S
<a href="#">AIR-AP1815I-S-K9C</a>	Cisco Aironet Mobility Express 1815i Series, Reg Domain S
<a href="#">AIR-AP1815I-Z-K9</a>	Cisco Aironet 1815i Series, Reg Domain Z
<a href="#">AIR-AP1815I-Z-K9C</a>	Cisco Aironet Mobility Express 1815i Series, Reg Domain Z
<a href="#">AIR-AP1815I-B-K9</a>	Cisco Aironet 1815i Series (for US), Reg Domain B
<a href="#">AIR-AP1815I-B-K9C</a>	Cisco Aironet Mobility Express 1815i Series, Reg Domain B
<a href="#">AIR-AP1815I-C-K9</a>	Cisco Aironet 1815i Series, Reg Domain C
<a href="#">AIR-AP1815I-D-K9</a>	Cisco Aironet 1815i Series, Reg Domain D

<a href="#">AIR-AP1815I-T-K9</a>	Cisco Aironet 1815i Series, Reg Domain T
<a href="#">AIR-AP1815I-D-K9C</a>	Cisco Aironet Mobility Express 1815i Series, Reg Domain D
<a href="#">AIR-AP1815I-H-K9C</a>	Cisco Aironet Mobility Express 1815i Series, Reg Domain H
<a href="#">AIR-AP1815I-K-K9</a>	Cisco Aironet 1815i Series, Reg Domain K
<a href="#">AIR-AP1815I-K-K9C</a>	Cisco Aironet Mobility Express 1815i Series, Reg Domain K
<a href="#">AIR-AP1815I-Q-K9</a>	Cisco Aironet 1815i Series, Reg Domain Q
<a href="#">AIR-AP1815I-Q-K9C</a>	Cisco Aironet Mobility Express 1815i Series, Reg Domain Q
<a href="#">AIR-AP1815I-T-K9C</a>	Cisco Aironet Mobility Express 1815i Series, Reg Domain T
<a href="#">AIR-AP1815I-F-K9</a>	Cisco Aironet 1815i Series, Reg Domain F
<a href="#">AIR-AP1815I-F-K9C</a>	Cisco Aironet Mobility Express 1815i Series, Reg Domain F
<b>Note</b>	<ul style="list-style-type: none"><li>• AIR-AP1815i-x-K9: Dual-band, controller-based 802.11a/g/n/ac, Wave 2</li><li>• AIR-AP1815i-x-K9C: Dual-band 802.11a/g/n/ac Wave 2 with default software Mobility Express<ul style="list-style-type: none"><li>◦ Regulatory domains: (x = regulatory domain)</li><li>◦ For Mobility Express, part number AIR-AP1815i-x-K9C offers default software option Mobility Express</li></ul></li></ul>

### Supported Platforms

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

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

### Get More Information

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## Specification

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## Cisco Aironet 1815i Access Point Specification

<b>Authentication and security</b>	<ul style="list-style-type: none"> <li>• Advanced Encryption Standard (AES) for Wi-Fi Protected Access 2 (WPA2)</li> <li>• 802.1X, RADIUS authentication, authorization, and accounting (AAA)</li> <li>• 802.11r</li> <li>• 802.11i</li> </ul>		
<b>Software</b>	<ul style="list-style-type: none"> <li>• Cisco Unified Wireless Network Software with AireOS Wireless Controllers Release 8.5 or later</li> <li>• Cisco Mobility Express</li> </ul>		
<b>Supported WLAN Controllers</b>	<ul style="list-style-type: none"> <li>• 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,</li> <li>• Cisco Mobility Express</li> </ul>		
<b>Maximum clients</b>	<ul style="list-style-type: none"> <li>• Maximum number of associated wireless clients: 200 per Wi-Fi radio, in total 400 clients per access point</li> </ul>		
<b>802.11ac</b>	<ul style="list-style-type: none"> <li>• 2x2 single-user/multiuser MIMO with two spatial streams</li> <li>• Maximal ratio combining (MRC)</li> <li>• 20-, 40- and 80-MHz channels</li> <li>• PHY data rates up to 866.7 Mbps (80 MHz on 5 GHz)</li> <li>• Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Rx)</li> <li>• 802.11 Dynamic Frequency Selection (DFS)</li> <li>• Cyclic shift diversity (CSD) support</li> </ul>		
<b>Ethernet ports</b>	<ul style="list-style-type: none"> <li>• Authentication with 802.1X or MAC filtered</li> <li>• Dynamic VLAN or per port</li> <li>• Traffic locally switched or tunneled back to wireless LAN controller</li> </ul>		
<b>Bluetooth (future availability)</b>	<ul style="list-style-type: none"> <li>• Integrated Bluetooth 4.1 (including BLE) radio</li> <li>• Maximum transmit power: 4 dBm</li> <li>• Antenna gain: 2 dBi</li> </ul>		
<b>Data rates supported</b>	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

<b>Maximum number of non-overlapping channels</b>	<p>A (A regulatory domain):</p> <ul style="list-style-type: none"> <li>• 2.412 to 2.462 GHz; 11 channels</li> <li>• 5.180 to 5.320 GHz; 8 channels</li> <li>• 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul> <p>B (B regulatory domain):</p> <ul style="list-style-type: none"> <li>• 2.412 to 2.462 GHz; 11 channels</li> <li>• 5.180 to 5.320 GHz; 8 channels</li> <li>• 5.500 to 5.720 GHz; 12 channels</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul> <p>C (C regulatory domain):</p> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul> <p>D (D regulatory domain):</p> <ul style="list-style-type: none"> <li>• 2.412 to 2.462 GHz; 11 channels</li> <li>• 5.180 to 5.320 GHz; 8 channels</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul> <p>E (E 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; 8 channels (excludes 5.600 to 5.640 GHz)</li> </ul> <p>F (F regulatory domain):</p> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.745 to 5.805 GHz; 4 channels</li> </ul> <p>G (G regulatory domain):</p> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.745 to 5.865 GHz; 7 channels</li> </ul> <p>H (H 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>• 5.745 to 5.825 GHz; 5 channels</li> </ul> <p>I (I 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> </ul>	<p>K (K 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 5.620 GHz; 7 channels</li> <li>• 5.745 to 5.805 GHz; 4 channels</li> </ul> <p>N (N regulatory domain):</p> <ul style="list-style-type: none"> <li>• 2.412 to 2.462 GHz; 11 channels</li> <li>• 5.180 to 5.320 GHz; 8 channels</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul> <p>Q (Q 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> </ul> <p>R (R 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>• 5.660 to 5.700 GHz; 3 channels</li> <li>• 5.745 to 5.805 GHz; 4 channels</li> </ul> <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> <p>T (T regulatory domain):</p> <ul style="list-style-type: none"> <li>• 2.412 to 2.462 GHz; 11 channels</li> <li>• 5.280 to 5.320 GHz; 3 channels</li> <li>• 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul> <p>Z (Z regulatory domain):</p> <ul style="list-style-type: none"> <li>• 2.412 to 2.462 GHz; 11 channels</li> <li>• 5.180 to 5.320 GHz; 8 channels</li> <li>• 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul>
<b>Note: This varies by regulatory domain. Refer to the product documentation for specific details for each regulatory domain.</b>		
<b>Available transmit power settings</b>	<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>
<b>Note: The maximum power setting will vary by channel and according to individual country regulations. Refer to the product documentation for specific details.</b>		
<b>Integrated antennas</b>	<ul style="list-style-type: none"> <li>• 2.4 GHz, gain 2 dBi</li> <li>• 5 GHz, gain 4 dBi</li> </ul>	
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>• 1 x 10/100/1000BASE-T autosensing (RJ-45), Power over Ethernet (PoE)</li> <li>• Management console port (RJ-45)</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, boot loader errors</li> </ul>	
<b>Dimensions (W x L x H)</b>	<ul style="list-style-type: none"> <li>• Access point (without mounting bracket): 6 x 6 x 1.3 in (150.8 x 150.8 x 33 mm)</li> </ul>	
<b>Weight</b>	<ul style="list-style-type: none"> <li>• Access point without mounting bracket or any other accessories: 14 oz (400 g)</li> </ul>	
<b>Environmental</b>	<ul style="list-style-type: none"> <li>• Operating <ul style="list-style-type: none"> <li>◦ Temperature: 32° to 104°F (0° to 40°C)</li> <li>◦ Humidity: 10% to 90% (noncondensing)</li> <li>◦ Max. altitude: 9843 ft (3000 m) @ 40°C</li> </ul> </li> <li>• Nonoperating (storage and transportation) <ul style="list-style-type: none"> <li>◦ Temperature: -22° to 158°F (-30° to 70°C)</li> <li>◦ Humidity: 10% to 90% (noncondensing)</li> <li>◦ Max. altitude: 15,000 ft (4500 m) @ 25°C</li> </ul> </li> </ul>	

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

## Contact Us

### Want to buy this series of products? please contact us:

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