

Cisco Aironet 1850 Series Access Points



Product Overview

Ideal for small and medium-sized networks, the Cisco[®] Aironet[®] 1850 Series delivers industry-leading performance for enterprise and service provider markets via enterprise-class 4x4 MIMO, four-spatial-stream access points that support the IEEE's new 802.11ac Wave 2 specification. The Aironet 1850 Series 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.

Features and Benefits

With 802.11ac Wave 2, the Aironet 1850 Series provides a data rate of up to 1.7 Gbps on the 5-GHz radio, more than triple the rates offered by today's high-end 802.11n access points. It also enables a total aggregate dual-radio data rate of 2.0 Gbps, providing the necessary foundation for enterprise and service provider networks to stay ahead of the performance and bandwidth expectations and needs of their wireless users.

Due to its convenience, wireless access is increasingly the preferred form of network connectivity for corporate users. Along with this shift, there is an expectation that wireless should not slow down users' day-to-day work, but should enable a high-performance experience while allowing users to move freely. The 1850 Series delivers industry-leading performance for highly secure and reliable wireless connections and provides a robust mobility experience that includes:

- 802.11ac Wave 2 with 4x4 multiple-input multiple-output (MIMO) technology with four spatial streams when operating in single-user MIMO mode and three spatial streams while operating in multiuser MIMO mode, offering 1.7-Gbps rates for more capacity and reliability than competing access points.
- Multiuser MIMO, allowing transmission of data to multiple 802.11ac Wave 2 capable clients simultaneously
 to improve client experience. Prior to multiuser 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.
- Transmit beamforming technology to improve downlink performance to mobile devices, including one-, two-, and three-spatial-stream devices on 802.11ac, while improving battery life on mobile devices such as smartphones and tablets.

 Flexible deployment mode through the Cisco Mobility Express Solution is ideal for small to medium-sized deployments that that require 25 or fewer access points. Easy setup allows the 1850 Series to be deployed on networks without a physical controller.

All of these features help ensure the best possible end-user experience on the wireless network. Cisco also offers the industry's broadest selection of 802.11n and 802.11ac antennas, delivering optimal coverage for a variety of deployment scenarios.

Product Specifications

Table 1. Product Specifications

Feature	Specifications								
Software	Cisco Unified Wireless	Network Software Relea	se with AireOS wireless of	controllers:					
		the Cisco Aironet 1850							
Deployment modes	Centralized local, Stand	dalone [*] , Sniffer, Cisco Fle	exConnect [™] , Monitor ^{**} , Of	fficeExtend**, Mesh**					
Supported wireless LAN controllers	 Cisco 2500 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 Fiex® 7500 Series Wireless Controllers, Cisco 8500 Series Wireless Controllers, Cisco Virtual Wireless Controller®, Cisco 5760 Series Wireless Controllers®, Cisco Catalyst 3650/3850 Series switch with integrated controller® Cisco Mobility Express 								
802.11n version 2.0 (and related) capabilities	 4x4 MIMO with four spatial streams Maximal ratio combining (MRC) 20- and 40-MHz channels PHY data rates up to 600 Mbps (40 MHz with 5 GHz) Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) 802.11 dynamic frequency selection (DFS) Cyclic shift diversity (CSD) support 								
802.11ac Wave 1 and 2 capabilities	 4x4 MIMO with thre MRC 802.11ac beamform 20-, 40-, and 80-MI PHY data rates up t 	 802.11ac beamforming (transmit beamforming) 20-, 40-, and 80-MHz channels PHY data rates up to 1.7 Gbps (80 MHz in 5 GHz) Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) 							
Data rates supported	802.11a: 6, 9, 12, 18, 2	4, 36, 48, and 54 Mbps							
	802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps								
	802.11n data rates on 2.4 GHz (only 20 MHz and MCS 0 to MCS 23) and 5 GHz:								
	MCS Index ¹	GI ² = 800 ns	GI = 800 ns	GI = 400 ns	GI = 400 ns				
		20-MHz Rate (Mbps)	40-MHz Rate (Mbps)	20-MHz Rate (Mbps)	40-MHz Rate (Mbps)				
	0	6.5	13.5	7.2	15				
	1	13	27	14.4	30				
	2	19.5	40.5	21.7	45				
	3	26	54	28.9	60				
	4	39	81	43.3	90				
	5	52	108	57.8	120				

¹ MCS Index: The Modulation and Coding Scheme (MCS) index determines the number of spatial streams, the modulation, the coding rate, and data rate values

² GI: A guard interval (GI) between symbols helps receivers overcome the effects of multipath delay spreads.

eature	Specifications									
Data rates supported	MCS Index ³ GI ⁴ = 800 ns			800 ns	GI = 800	ns	GI = 400 ns		GI = 400 ns	
			20-M	Hz Rate (Mbps)	40-MHz	Rate (Mbps)	20-MHz Rate (Mbp		40-MF	Iz Rate (Mbps
	7	65			135		72.2		150	
	8	13			27		14.4		30	
	9		26		54		28.9		60	
	10		39		81		43.3		90	
	11		52		108		57.8		120	
	12		78		162		86.7		180	
	13		104		216		115.6		240	
	14		117		243		130		270	
	15		130		270		144.4		300	
	16		19.5		40.5		21.7		45	
	17		39		81		43.3		90	
	18		58.5		121.5		65		135	
	19		78		162		86.7		180	
	20		117		243		130		270	
	21	156			324		173.3		360	
	22	2 175.5		<u> </u>	364.5		195		405	
	23	195			405		216.7		450	
	24	26			54		28.9		60	
	25	52			108		57.8		120	
	26	78			162		86.7		180	
	27	10-			216		115.6		240	
	28			156			173.3		360	
			208		324 432		231.1		480	
				234			260		540	
	31			260			288.9		600	
		31 260 540 288.9 600 802.11ac data rates (5 GHz):								
	MCS Index	Spatial Streams		GI = 800 ns			GI = 400 ns			
				Rate	40-MHz Rate (Mbps)	80-MHz Rate (Mbps)	20-MHz Rate (Mbps)	40-MH (Mbps	z Rate)	80-MHz Rat (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			81	175.5	43.3	90		195
	5	1		52	108	234	57.8	120		260
	6	1			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

³ MCS Index: The Modulation and Coding Scheme (MCS) index determines the number of spatial streams, the modulation, the coding rate, and data rate values.

⁴ GI: A guard interval (GI) between symbols helps receivers overcome the effects of multipath delay spreads.

Feature	Specificat	Specifications									
	MCS Index	Spatial Streams	GI = 800 ns	GI = 800 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)			
	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			
	0	3	19.5	40.5	87.8	21.7	45	97.5			
	1	3	39	81	175.5	43.3	90	195			
	2	3	58.5	121.5	263.3	65	135	292.5			
	3	3	78	162	351	86.7	180	390			
	4	3	117	243	526.5	130	270	585			
	5	3	156	324	702	173.3	360	780			
	6	3	175.5	364.5	-	195	405	-			
	7	3	195	405	877.5	216.7	450	975			
	8	3	234	486	1053	260	540	1170			
	9	3	260	540	1170	288.9	600	1300			
	0	4	26	54	117	28.9	60	130			
	1	4	52	108	234	57.8	120	260			
	2	4	78	162	351	86.7	180	390			
	3	4	104	216	468	115.6	240	520			
	4	4	156	324	702	173.3	360	780			
	5	4	208	432	936	231.1	480	1040			
	6	4	234	486	1053	260	540	1170			
	7	4	260	540	1170	288.9	600	1300			
	8	4	312	648	1404	346.7	720	1560			
	9	4	-	720	1560	-	800	1733.3			

Feature	Specifications				
Maximum number of	A (A regulatory domain):		K (K regulatory domain):		
nonoverlapping	• 2.412 to 2.462 GHz; 3 cha	innels	• 2.412 to 2.472 GHz; 3 channels		
channels	• 5.180 to 5.320 GHz; 8 cha		• 5.180 to 5.320 GHz; 8 channel		
	• 5.500 to 5.700 GHz; 8 cha		• 5.500 to 5.620 GHz; 7 channel		
	(excludes 5.600 to 5.640 0		• 5.745 to 5.805 GHz; 4 channel		
	• 5.745 to 5.825 GHz; 5 cha	innels	N (N regulatory domain):		
	B (B regulatory domain):		• 2.412 to 2.462 GHz; 3 channels		
	• 2.412 to 2.462 GHz; 3 cha	innels	• 5.180 to 5.320 GHz; 8 channels		
	• 5.180 to 5.320 GHz; 8 cha	innels	• 5.745 to 5.825 GHz; 5 channels		
	• 5.500 to 5.720 GHz; 12 ch	annels	Q (Q regulatory domain):		
	• 5.745 to 5.825 GHz; 5 cha	innels	• 2.412 to 2.472 GHz; 3 channels		
	C (C regulatory domain):		• 5.180 to 5.320 GHz; 8 channel		
	• 2.412 to 2.472 GHz; 3 cha	innels	• 5.500 to 5.700 GHz; 11 channel		
	• 5.745 to 5.825 GHz; 5 cha	innels	R (R regulatory domain):	<i>,</i> 10	
	D (D regulatory domain):		• 2.412 to 2.472 GHz; 3 channel	6	
	• 2.412 to 2.462 GHz; 3 cha	innels	• 5.180 to 5.320 GHz; 8 channel		
	• 5.180 to 5.320 GHz; 8 cha	innels			
	• 5.745 to 5.825 GHz; 5 cha		• 5.660 to 5,805 GHz; 7 channel	0	
	E (E regulatory domain):		S (S regulatory domain):	6	
	 2.412 to 2.472 GHz; 3 cha 	innels	• 2.412 to 2.472 GHz; 3 channels		
	• 5.180 to 5.320 GHz; 8 cha		• 5.180 to 5.320 GHz; 8 channels		
	• 5.500 to 5.700 GHz; 8 cha		• 5.500 to 5.700 GHz;, 11 channels		
	(excludes 5.600 to 5.640 0		• 5.745 to 5.825 GHz; 5 channels		
	F (F regulatory domain):		T (T regulatory domain): • 2.412 to 2.462 GHz; 3 channels		
	• 2.412 to 2.472 GHz; 3 cha	innels	,		
	• 5.745 to 5.825 GHz; 4 cha	innels	• 5.280 to 5.320 GHz; 3 channel		
	H (H regulatory domain):		 5.500 to 5.700 GHz; 8 channel (excludes 5.600 to 5.640 GHz) 		
	• 2.412 to 2.472 GHz; 3 cha	innels	• 5.745 to 5.825 GHz; 5 channel		
	• 5.150 to 5.350 GHz; 8 cha	innels	Z (Z regulatory domain):	•	
	• 5.745 to 5.825 GHz; 5 cha	innels	• 2.412 to 2.462 GHz; 3 channel	9	
	I (I regulatory domain):		• 5.180 to 5.320 GHz; 8 channel		
	• 2.412 to 2.472 GHz; 3 cha	innels	• 5.500 to 5.700 GHz; 8 channel		
	• 5.180 to 5.320 GHz; 8 cha	innels	(excludes 5.600 to 5.640 GHz)		
			• 5.745 to 5.825 GHz; 5 channels		
	esponsible for verifying approval		ntries. To verify approval that corresp	oonds to a particular	
Maximum number of	2.4 GHz	-	5 GHz		
nonoverlapping	• 802.11b/g:		• 802.11a:		
channels	● 802.11b/g. • 20 MHz: 3		● 602.11a. • 20 MHz: 25		
	• 802.11n:		• 802.11n:		
			● 302.1111. • 20 MHz: 25		
	∘ 20 MHz: 3				
			• 40 MHz: 12		
			• 802.11ac:		
			∘ 20 MHz: 21		
			• 40 MHz: 12		
			∘ 80 MHz: 6		
Note: This varies by red	gulatory domain. Refer to the pr	oduct documentation for specif	fic details for each regulatory domain	າ.	
TOLC. THIS VALIES BY ICE	• 802.11b (CCK)	• 802.11g (non HT20)	• 802.11a (non HT20)		
-	● 002.11b (CCR)				
-	• -101 dBm @ 1 Mbps	∘ -96 dBm @ 6 Mbps	 -96 dBm @ 6 Mbps 		
-	· -101 dBm @ 1 Mbps	· -96 dBm @ 6 Mbps			
	 -101 dBm @ 1 Mbps -98 dBm @ 2 Mbps 	<u> </u>	· -95 dBm @ 9 Mbps		
	· -101 dBm @ 1 Mbps	 -96 dBm @ 6 Mbps -95 dBm @ 9 Mbps -94 dBm @ 12 Mbps 	-95 dBm @ 9 Mbps-94 dBm @ 12 Mbps		
Receive sensitivity	 -101 dBm @ 1 Mbps -98 dBm @ 2 Mbps -92 dBm @ 5.5 Mbps 	 -96 dBm @ 6 Mbps -95 dBm @ 9 Mbps -94 dBm @ 12 Mbps -92 dBm @ 18 Mbps 	 -95 dBm @ 9 Mbps -94 dBm @ 12 Mbps -92 dBm @ 18 Mbps 		
	 -101 dBm @ 1 Mbps -98 dBm @ 2 Mbps -92 dBm @ 5.5 Mbps 	 -96 dBm @ 6 Mbps -95 dBm @ 9 Mbps -94 dBm @ 12 Mbps -92 dBm @ 18 Mbps -88 dBm @ 24 Mbps 	 -95 dBm @ 9 Mbps -94 dBm @ 12 Mbps -92 dBm @ 18 Mbps -88 dBm @ 24 Mbps 		
-	 -101 dBm @ 1 Mbps -98 dBm @ 2 Mbps -92 dBm @ 5.5 Mbps 	 -96 dBm @ 6 Mbps -95 dBm @ 9 Mbps -94 dBm @ 12 Mbps -92 dBm @ 18 Mbps 	 -95 dBm @ 9 Mbps -94 dBm @ 12 Mbps -92 dBm @ 18 Mbps 		

Receive sensitivity	2.4 GHz		5	5 GHz	5	GHz
	• 802.11n (HT20)			• 802.11n (F		• 802.11n (HT40)
	• -96 dBm @ MCS0			∘ -96 dBm		• -93 dBm @ MCS0
	• -93 dBm @ MCS1			∘ -92 dBm		• -90 dBm @ MCS1
	 -90 dBm @ MCS2 -87 dBm @ MCS3 			 -90 dBm -86 dBm 		 -87 dBm @ MCS2 -84 dBm @ MCS3
	• -84 dBm @ MCS4			∘ -83 dBm		• -80 dBm @ MCS4
	∘ -79 dBm @ MCS5			∘ -79 dBm		∘ -76 dBm @ MCS5
	∘ -78 dBm @ MCS6			∘ -77 dBm		• -75 dBm @ MCS6
	∘ -76 dBm @ MCS7			∘ -76 dBm		· -73 dBm @ MCS7
	∘ -93 dBm @ MCS8	3		∘ -93 dBm	n @ MCS8	· -90 dBm @ MCS8
	∘ -90 dBm @ MCS9)		∘ -89 dBm	n @ MCS9	· -87 dBm @ MCS9
	 -87 dBm @ MCS1 	0		∘ -87 dBm	n @ MCS10	· -84 dBm @ MCS10
	 -84 dBm @ MCS1 	1		∘ -83 dBm	n @ MCS11	· -81 dBm @ MCS11
	 -81 dBm @ MCS1 	2		∘ -80 dBm	n @ MCS12	 -77 dBm @ MCS12
	 -76 dBm @ MCS1 				n @ MCS13	 -73 dBm @ MCS13
	• -75 dBm @ MCS1				n @ MCS14	• -72 dBm @ MCS14
	• -73 dBm @ MCS1				n @ MCS15	• -70 dBm @ MCS15
	• -91 dBm @ MCS1				n @ MCS16	• -88 dBm @ MCS16
	• -88 dBm @ MCS1				n @ MCS17	• -85 dBm @ MCS17
	• -85 dBm @ MCS1				n @ MCS18 n @ MCS19	-82 dBm @ MCS18-79 dBm @ MCS19
	 -82 dBm @ MCS1 -79 dBm @ MCS2 				n @ MCS20	• -79 dBm @ MCS19
	• -79 dBm @ MCS2				n @ MCS21	• -71 dBm @ MCS21
	74 dBm @ MCS2				n @ MCS22	• -70 dBm @ MCS22
					n @ MCS23	-68 dBm @ MCS23 -68 dBm @ MCS23
					n @ MCS24	· -86 dBm @ MCS24
					n @ MCS25	∘ -83 dBm @ MCS25
				∘ -83 dBm	n @ MCS26	· -80 dBm @ MCS26
				∘ -79 dBm	n @ MCS27	· -77 dBm @ MCS27
				∘ -76 dBm	n @ MCS28	· -73 dBm @ MCS28
				∘ -72 dBm	n @ MCS29	 -69 dBm @ MCS29
					n @ MCS30	 -68 dBm @ MCS30
				∘ -69 dBm	n @ MCS31	· -66 dBm @ MCS31
	802.11ac Receive Sens	sitivity				
	802.11ac (non HT80)					
	• -89 dBm @ 6 Mbps					
	• -73 dBm @ 54 Mbps	3				
	MCS Index	Spatial Streams				
			VHT20	VH	HT40	VHT80
	0	1	-96 dBm	-93	3 dBm	-89 dBm
	7	1	-76 dBm	-73	3 dBm	-70 dBm
	8	1	-71 dBm	-69	9 dBm	-66 dBm
	9	1	NA	-67	7 dBm	-64 dBm
	0	2	-93 dBm	-90	0 dBm	-86 dBm
	7	2	-73 dBm	-70	0 dBm	-67 dBm
	8	2	-68 dBm	-66	6 dBm	-63 dBm
	9	2	NA	-64	4 dBm	-61 dBm
	0	3	-91 dBm	-88	8 dBm	-84 dBm
	7	3	-71 dBm	-68	8 dBm	-65 dBm
	8	3	-66 dBm	-64	4 dBm	-61 dBm

Feature

Specifications

Feature	Specifications							
	MCS Index	Spatial Streams						
			VHT20		VHT40	VHT80		
	0	4	-89 dBm		-86 dBm	-82 dBm		
	7	4	-69 dBm		-66 dBm	-63 dBm		
	8	4	-64 dBm		-62 dBm	-59 dBm		
	9	4	NA		-60 dBm	-57 dBm		
Maximum transmit power	2.4 GHz • 802.11b • 22 dBm, 3 antenr • 802.11g • 22 dBm, 3 antenr • 802.11n (HT20) • 22 dBm, 3 antenr	nas		5 GHz • 802.11a • 23 dBm, 4 antennas • 802.11n (HT20) • 23 dBm, 4 antennas • 802.11n (HT40) • 23 dBm, 4 antennas • 802.11ac • non-HT80: 23 dBm, 4 antennas • VHT20: 23 dBm, 4 antennas • VHT40: 23 dBm, 4 antennas • VHT80: 23 dBm, 4 antennas				
Note: The maximum perspecific details.	ower setting will vary by c	hannel and according to	individual co	untry regula	ations. Refer to the	e product documentation for		
Available transmit power settings	2.4 GHz • 22 dBm • 19 dBm • 16 dBm • 13 dBm • 10 dBm • 7 dBm • 4 dBm • 1 dBm		5 GHz					
Note: The maximum perspecific details.	ower setting will vary by c	hannel and according to	individual co	untry regula	ations. Refer to the	e product documentation for		
Integrated antenna	_	, internal omni, horizont nternal omni, horizontal						
External antenna (sold separately)	 Certified for use with antenna gains up to 6 dBi (2.4 GHz and 5 GHz) Cisco offers the industry's broadest selection of <u>antennas</u>, delivering optimal coverage for a variety of deployment scenarios 							
Interfaces	1 x 10/100/1000BAManagement consc	 1 x 10/100/1000BASE-T autosensing (RJ-45), Power over Ethernet (PoE) 1 x 10/100/1000BASE-T autosensing (RJ-45), AUX (used for Link Aggregation) Management console port (RJ-45) USB 2.0 (enabled via future software) 						
Indicators	Status LED indicate	es boot loader status, as	sociation state	us, operatin	g status, boot loa	der warnings, boot loader errors		
Dimensions (W x L x H)	Access point (without)	ut mounting bracket): 8.	3 x 8.3 x 2 in.	(210.8 x 21	0.8 x 50.8 mm)			
Weight	• 3.12 lb (1.41 kg)							
Environmental	 Nonoperating (storal Operating temperate Operating humidity: Operating altitude to Cisco Aironet 1850e	age) temperature: -22° to age) altitude test: 25°C, of ure: 32° to 104°F (0° to 10% to 90% (nonconde est: 40°C, 9843 ft.	15,000 ft. 40°C) ensing)					

Feature	Specifications
Environmental	 Nonoperating (storage) altitude test: 25°C, 15,000 ft. Operating temperature: -4° to 122°F (-20° to 50°C) Operating humidity: 10% to 90% (noncondensing) Operating altitude test: 40°C, 9843 ft.
System memory	• 1 GB DRAM • 256 MB flash
Input power requirements	 AP1850: 44 to 57 VDC Power supply and power injector: 100 to 240 VAC; 50 to 60 Hz
Power draw	• 20.9W Note: When deployed using a Power over Ethernet (PoE) specification, the power drawn from the power sourcing equipment will be higher by some amount, depending on the length of the interconnecting cable.
Powering options	 802.3at Enhanced PoE Cisco power injector, AIR-PWRINJ4= Cisco local power supply, AIR-PWR-C= Cisco power injector, AIR-PWRINJ5= (Note: this injector supports 802.3af only) 802.3af Note: If 802.3af PoE is the source of power,(1) the 1852e 2.4-GHz radio will shift to 2x3 from 3x4,(2)The USB port and AUX Ethernet port are disabled on both the 1852i and 1852e.
Warranty	Limited lifetime hardware warranty
Compliance standards	 UL 60950-1 CAN/CSA-C22.2 No. 60950-1 UL 2043 IEC 60950-1 EN 60950-1 EN 60950-1 EN 50155 Radio approvals: FCC Part 15.247, 15.407 RSS-210 (Canada) EN 300.328, EN 301.893 (Europe) ARIB-STD 66 (Japan) ARIB-STD 66 (Japan) ARIB-STD 71 (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 60601-1-2 EMC requirements for the Medical Directive 93/42/EEC IEEE standards: IEEE 802.11a/b/g, 802.11n, 802.11h, 802.11d IEEE 802.11a/b/g, 802.15h, 802.11h, 802.11d IEEE 802.11a/bryl Frotected Access 2 (WPA2), WPA 802.1X Advanced Encryption Standard (AES) Extensible Authentication Protocol (EAP) types: 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: Wi-Fi Multimedia (WMM) Other: FCC Bulletin OET-65C RSS-102

Warranty Information

The Cisco Aironet 1850 Series Access Points come with a limited lifetime warranty that provides full warranty coverage of the hardware for as long as the original end user continues to own or use the product. The warranty includes 10-day advance hardware replacement and ensures that software media are defect-free for 90 days. For more details, visit http://www.cisco.com/go/warranty.

Ordering Information

To place an order, visit the Cisco How to Buy page. To download software, visit the Cisco Software Center.

Table 2. Ordering Information

Product Name	Part Number
Aironet 1850	Cisco Aironet 1852i Access Point: Indoor environments, with internal antennas
Series	AIR-AP1852I-x-K9: Dual-band, controller-based 802.11a/g/n/ac, Wave 2
	AIR-AP1852I-x-K9C: Dual-band, controller-based 802.11a/g/n/ac, Wave 2, configurable
	Regulatory domains: (x = regulatory domain)
	Cisco Aironet 1852e Access Point: Indoor, challenging environments, with external antennas
	AIR-AP1852E-x-K9: Dual-band, controller-based 802.11a/g/n/ac, Wave 2
	AIR-AP1852E-x-K9C: Dual-band, controller-based 802.11a/g/n/ac, Wave 2, configurable
	Regulatory domains: (x = regulatory domain)
	Customers are responsible for verifying approval for use in their individual countries. To verify approval that corresponds to a particular country or the regulatory domain used in a specific country, visit http://www.cisco.com/go/aironet/compliance .
	Not all regulatory domains have been approved. As they are approved, the part numbers will be available on the Global Price List.

Cisco Services

Realize the full business value of your technology investments faster with intelligent, customized services from Cisco and our partners. Backed by deep networking expertise and a broad ecosystem of partners, Cisco Wireless LAN Services help you deploy a sound, scalable mobility network that enables rich media collaboration while improving the operational efficiency gained from a converged wired and wireless network infrastructure based on the Cisco Unified Wireless Network. Together with partners, we offer expert plan, build, and run services to accelerate your transition to advanced mobility services while continuously optimizing the performance, reliability, and security of that architecture after it is deployed. For more details, visit http://www.cisco.com/go/wirelesslanservices.

Cisco Wireless LAN Services

- AS-WLAN-CNSLT: Cisco Wireless LAN Network Planning and Design Service
- AS-WLAN-CNSLT: Cisco Wireless LAN 802.11n Migration Service
- AS-WLAN-CNSLT: <u>Cisco Wireless LAN Performance and Security Assessment Service</u>

Supported via Cisco Mobility Express with controller function running on the access point - not Cisco IOS® Software Autonomous based.

^{**} Future.

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For More Information

For more information about the Cisco Aironet 1850 Series, visit http://www.cisco.com/go/wireless or contact your local account representative.



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