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 require multiple access points. Easy setup allows the 1850 Series to be deployed on networks without a physical controller.

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

Product specifications

Table 1.Product specifications

Feature	Specifications								
Software	Cisco Unified Wireless Network Software Release with AireOS wireless controllers:								
	8.2.100.0 or later for the Cisco Aironet 1850 Series Access Points								
Deployment modes	Centralized local, Stand	Centralized local, Standalone, Sniffer, Cisco FlexConnect [™] , Monitor, OfficeExtend, Mesh [™]							
Supported wireless LAN controllers	ISR G2, Cisco Wire Controllers, Cisco F Wireless 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 5760 Series Wireless Controllers, Cisco Catalyst 3650/3850 Series switch with integrated controller Cisco Mobility Express 							
802.11n version 2.0 (and related) capabilities	 Maximal Ratio Com 20- and 40-MHz chains PHY data rates up to Packet aggregation 802.11 Dynamic Free 	 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 to 	to 1.7 Gbps (80 MHz in 5 : A-MPDU (Tx/Rx), A-MS	ser MIMO ng) i GHz)						
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, a	nd 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	Gl 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				

Feature	Specifications	Specifications						
	5	52	108	57.8	120			
	6	58.5	121.5	65	135			

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.

Feature	Specifications										
Data rates supported	MCS Index ³		GI ⁴ =	800 ns	GI = 80) ns	GI = 400 ns		GI = 4	00 ns	
			20-M	Hz Rate (Mbps) 40-MHz	Rate (Mbps)	20-MHz Rate (Mbps)		40-MHz 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	18 58.5			121.5		65		135		
	19	78			162		86.7		180		
	20	117			243	243		130			
	21	156			324	324		173.3			
	22	175.5		175.5		364.5		195			
	23		195		405	405		216.7			
	24		26		54	54		28.9			
	25	52		52		108			120		
	26		78		162	162			180		
	27		104		216	216		115.6		240	
	28		156		324	324		173.3		360	
	29		208		432		231.1		480		
	30		234		486	486		260		540	
	31		260		540	540		288.9		600	
	802.11ac da	ta rates (5	GHz):								
	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-MH 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	

Feature	Specifications							
	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

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	tions						
	MCS index	Spatial streams	GI = 800 n:	5		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)
	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

Feature	Specifications									
	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		
Maximum number of	-			120			1	1700.0		
nonoverlapping	(.J.	atory domain):				gulatory doma	•			
channels		o 2.462 GHz; 3				2 to 2.472 GHz				
		o 5.320 GHz; 8 (o 5.700 GHz; 8 (0 to 5.320 GHz 0 to 5.620 GHz				
		les 5.600 to 5.64				5 to 5.805 GHz	,			
	• 5.745 te	o 5.825 GHz; 5	channels		-	gulatory doma	,			
	B (B regul	atory domain):				2 to 2.462 GHz	•			
	• 2.412 to	o 2.462 GHz; 3	channels			0 to 5.320 GHz				
	• 5.180 te	o 5.320 GHz; 8	channels			5 to 5.825 GHz				
	• 5.500 to	o 5.720 GHz; 12	channels			gulatory doma				
	• 5.745 te	o 5.825 GHz; 5	channels			2 to 2.472 GHz				
	C (C regul	atory domain):				0 to 5.320 GHz				
	• 2.412 to	o 2.472 GHz; 3	channels			0 to 5.700 GHz	,			
	• 5.745 te	o 5.825 GHz; 5	channels			gulatory doma				
	D (D regul	atory domain):					,			
	• 2.412 to	o 2.462 GHz; 3	channels			 2.412 to 2.472 GHz; 3 channels 5.180 to 5.320 GHz; 8 channels 				
	• 5.180 te	o 5.320 GHz; 8	channels			 5.660 to 5,805 GHz; 7 channels 				
	• 5.745 te	o 5.825 GHz; 5	channels		S (S regulatory domain):					
	E (E regula	atory domain):				• 2.412 to 2.472 GHz; 3 channels				
	• 2.412 to	o 2.472 GHz; 3	channels			• 5.180 to 5.320 GHz; 8 channels				
	• 5.180 to	o 5.320 GHz; 8	channels			0 to 5.700 GHz				
		o 5.700 GHz; 8				• 5.745 to 5.825 GHz; 5 channels				
		les 5.600 to 5.64	10 GHz)		T (T reg	T (T regulatory domain):				
		atory domain):			• 2.41	• 2.412 to 2.462 GHz; 3 channels				
		o 2.472 GHz; 3			• 5.28	• 5.280 to 5.320 GHz; 3 channels				
		o 5.825 GHz; 4			• 5.50	 5.500 to 5.700 GHz; 8 channels 				
		atory domain):			(exc	(excludes 5.600 to 5.640 GHz) • 5.745 to 5.825 GHz; 5 channels				
		o 2.472 GHz; 3			• 5.74					
		o 5.350 GHz; 8				Z (Z regulatory domain):				
		o 5.825 GHz; 5 (channels			• 2.412 to 2.462 GHz; 3 channels				
		ory domain): 0 2.472 GHz; 3 (channols			• 5.180 to 5.320 GHz; 8 channels				
		o 5.320 GHz; 8				0 to 5.700 GHz				
	• 5.100 1	0 0.020 0112, 0 0	channels			(excludes 5.600 to 5.640 GHz) • 5.745 to 5.825 GHz; 5 channels				
Note: Customers are r				heir individual				to a particular		
country, visit <u>https://wv</u>		/go/aironet/comp	<u>oliance</u>							
Maximum number of nonoverlapping					5 GHz					
channels		• 802.11b/g:				11a:				
	• 20 MHz: 3				 20 MHz: 25 					
		• 802.11n:				• 802.11n:				
	∘ 20 M	IHz: 3) MHz: 25				
) MHz: 12				
					• 802.					
) MHz: 21				
) MHz: 12				
					• 80) MHz: 6				

Note: This varies by regulatory domain. Refer to the product documentation for specific details for each regulatory domain.

Feature	Specifications					
Feature Receive sensitivity	Specifications • 802.11b (CCK) • -101 dBm @ 1 Mb • -98 dBm @ 2 Mbp • -92 dBm @ 5.5 M • -92 dBm @ 11 Mb • 89 dBm @ MCS0 • 96 dBm @ MCS2 • 93 dBm @ MCS2 • 93 dBm @ MCS2 • 93 dBm @ MCS2 • 87 dBm @ MCS2 • 79 dBm @ MCS2 • 90 dBm @ MCS2 • 78 dBm @ MCS2 • 90 dBm @ MCS2 • 90 dBm @ MCS2 • 90 dBm @ MCS2 • 87 dBm @ MCS2 • 76 dBm @ MCS2 • 75 dBm @ MCS2 <	 95 dBm @ 94 dBm @ 92 dBm @ 92 dBm @ 88 dBm @ 85 dBm @ 85 dBm @ 81 dBm @ 79 dBm @ - 79 dBm @ 79 dBm @ -	6 Mbps 9 Mbps 12 Mbps 18 Mbps 24 Mbps 36 Mbps 48 Mbps 54 Mbps	 -96 d -95 d -94 d -92 d -88 d -85 d -80 d -79 d 5 GHz 802.11r -96 d -92 d -90 d -86 d -83 d -77 d -76 d -77 d -83 d -83 d -83 d -83 d -83 d -80 d -76 d -76 d -77 d -76 d -77 d -87 d -87 d -87 d -87 d -87 d -87 d -85 d -81 d 	a (non HT20) Bm @ 6 Mbps Bm @ 9 Mbps Bm @ 12 Mbps Bm @ 18 Mbps Bm @ 24 Mbps Bm @ 24 Mbps Bm @ 36 Mbps Bm @ 48 Mbps Bm @ 48 Mbps Bm @ 48 Mbps Bm @ MCS0 Bm @ MCS1 Bm @ MCS1 Bm @ MCS3 Bm @ MCS4 Bm @ MCS5 Bm @ MCS5 Bm @ MCS5 Bm @ MCS10 Bm @ MCS10 Bm @ MCS10 Bm @ MCS11 Bm @ MCS13 Bm @ MCS13 Bm @ MCS14 Bm @ MCS15 Bm @ MCS15 Bm @ MCS16 Bm @ MCS17 Bm @ MCS18 Bm @ MCS18 Bm @ MCS19 Bm @ MCS19 Bm @ MCS19 Bm @ MCS19 Bm @ MCS20	5 GHz • 802.11n (HT40) • -93 dBm @ MCS0 • -90 dBm @ MCS1 • -87 dBm @ MCS2 • -84 dBm @ MCS3 • -80 dBm @ MCS3 • -76 dBm @ MCS5 • -75 dBm @ MCS6 • -73 dBm @ MCS7 • 90 dBm @ MCS1 • -76 dBm @ MCS1 • -77 dBm @ MCS1 • -77 dBm @ MCS12 • -73 dBm @ MCS13 • -72 dBm @ MCS13 • -72 dBm @ MCS14 • -70 dBm @ MCS15 • -88 dBm @ MCS16 • -85 dBm @ MCS18 • -79 dBm @ MCS19 • -75 dBm @ MCS19 • -75 dBm @ MCS20
	 -88 dBm @ MCS1 -85 dBm @ MCS1 -82 dBm @ MCS1 	17 18 19 20 21 22		 -87 d -85 d -81 d -78 d -72 d -72 d -71 d -89 d -85 d -83 d 	Bm @ MCS17 Bm @ MCS18 Bm @ MCS19	 ∘ -85 dBm @ MCS17 ∘ -82 dBm @ MCS18 ∘ -79 dBm @ MCS19
	802.11ac receive sens	itivity		∘ -72 d ∘ -70 d	Bm @ MCS28 Bm @ MCS29 Bm @ MCS30 Bm @ MCS31	 -73 dBm @ MCS28 -69 dBm @ MCS29 -68 dBm @ MCS30 -66 dBm @ MCS31
	802.11ac (non HT80) • -89 dBm @ 6 Mbps • -73 dBm @ 54 Mbps					
	MCS index	Spatial streams				
			VHT20		VHT40	VHT80
	0	1	-96 dBm		-93 dBm	-89 dBm
	7	1	-76 dBm		-73 dBm	-70 dBm
	8	1	-71 dBm		-69 dBm	-66 dBm
	9	1	NA		-67 dBm	-64 dBm
	0	2	-93 dBm		-90 dBm	-86 dBm

Feature	Specifications						
	7	2	-73 dBm		-70 dBm	-67 dBm	
	8	2	-68 dBm		-66 dBm	-63 dBm	
	9	2 NA			-64 dBm	-61 dBm	
	0	3 -91 dBm			-88 dBm	-84 dBm	
	7	3	-71 dBm		-68 dBm	-65 dBm	
	8	3	-66 dBm		-64 dBm	-61 dBm	
	9	3	-64 dBm		-62 dBm	-59 dBm	
	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	
Note: The maximum p specific details. Available transmit power settings	 22 dBm, 3 antenr 802.11g 22 dBm, 3 antenr 802.11n (HT20) 22 dBm, 3 antenr 22 dBm, 3 antenr 22 dBm, 3 antenr 22 dBm 19 dBm 16 dBm 13 dBm 10 dBm 7 dBm 4 dBm 	nas	individual co	 802.11 23 d 802.11 23 d 802.11 802.11 802.11 NOn- VHT VHT VHT 	HT80: 23 dBm, 4 ante 20: 23 dBm, 4 antenn 40: 23 dBm, 4 antenn 80: 23 dBm, 4 antenn 180: 24 dBm, 4 antenn 180: 25 dBm, 4 antenn 180: 26 dBm, 4 antenn 180: 27 dBm, 4 antenn 180: 28 dBm, 4 antenn 180:	as as as	
Note: The maximum p specific details.	• 1 dBm ower setting will vary by c	hannel and according to	individual co	 2 dBm untry regula 		duct documentation for	
Integrated antenna		, internal omni, horizonta nternal omni, horizontal b					
External antenna (sold separately)		n antenna gains up to 6 c ustry's broadest selection				a variety of deployment	
Interfaces	1 x 10/100/1000BAManagement conso	 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	s boot loader status, ass	ociation stat	us, operatin	g status, boot loader v	varnings, boot loader errors	
Dimensions (W x L x H)	Access point (witho	ut mounting bracket): 8.3	x 8.3 x 2 in.	(210.8 x 21	0.8 x 50.8 mm)		

Feature	Specifications
Weight	• 3.12 lb (1.41 kg)
Environmental	Cisco Aironet 1850i Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C) Nonoperating (storage) altitude test: 25°C, 15,000 ft. Operating temperature: 32° to 122°F (0° to 50°C) Operating humidity: 10% to 90% (noncondensing) Operating altitude test: 40°C, 9843 ft. Cisco Aironet 1850e Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C) 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 Input power	 1 GB DRAM 256 MB flash AP1850: 44 to 57 VDC
requirements Power draw	 Power supply and power injector: 100 to 240 VAC; 50 to 60 Hz 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-PWRINJ6= Cisco local power supply, AIR-PWR-D= 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	 United lifetine factorial warranty UL 60950-1 CAN/CSA-C22.2 No. 60950-1 UL 2043 IEC 60950-1 EN 60950-1 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, 802.11n, 802.11h, 802.11d IEEE 802.11a b/g, 802.11n, 802.11d Security: 802.11X Advanced Encryption Standard (AES) Extensible Authentication Protocol (EAP) types:

Feature	Specifications
	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:
	Wi-Fi Multimedia (WMM)
	Other:
	◦ FCC Bulletin OET-65C
	 RSS-102

^{*} Supported via Cisco Mobility Express with controller function running on the access point - not Cisco IOS[®] Software Autonomous based.

Future.

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 https://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 Series	 Cisco Aironet 1852i Access Point: Indoor environments, with internal antennas 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-K9: Dual-band, controller-based 802.11a/g/n/ac, Wave 2 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 https://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 https://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: Cisco Wireless LAN Performance and Security Assessment Service

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For more information

For more information about the Cisco Aironet 1850 Series, visit <u>https://www.cisco.com/go/wirelesslanservices</u> or contact your local account representative.



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