

# Cisco Aironet 2700 Series Access Points



Dual-band 2.4 GHz and 5 GHz access points (APs) with 802.11ac Wave 1 support on the integrated 5-GHz radio

#### Cisco Aironet 2702i Access Point

- · Sleek design with internal antennas
- Ideal for office environments
- Classify over 20 different types of interference, including non-Wi-Fi interference, within 5 to 30 seconds
- Automatic remedial action and less manual intervention
- UL 2043 plenum-rated for above-ceiling installation or for suspending from drop ceilings

#### Cisco Aironet 2702e Access Points

- Rugged metal housing and extended operating temperature
- Ideal for factories, warehouses, and other indoor industrial environments
- Versatile RF coverage with external antennas
- UL 2043 plenum-rated for above-ceiling installation or for suspending from drop ceilings
- Classification of over 20 different types of interference, including non-Wi-Fi interference, within 5 to 30 seconds
- Automatic remedial action and less manual intervention

## Troubleshooting Forensics for Faster Interference Resolution and Proactive Action

- Historic interference information for back-in-time analysis and faster problem solving
- 24x7 monitoring with remote access for reduced travel and speedier resolution
- Air quality index in Cisco CleanAir<sup>®</sup> technology provides a snapshot of network performance and the impact of interference

#### **Robust Security and Policy Enforcement**

- Industry's first AP with non-Wi-Fi detection for offchannel rogues
- Supports rogue AP detection and detection of denial-of-service attacks
- Management frame protection detects malicious users and alerts network administrators
- Enables policies to prohibit devices that interfere with the Wi-Fi network or jeopardize network security

### Secure Interoperability

Controller-based deployment and standalone deployments



The Cisco® Aironet® 2700 Series of Wi-Fi access points (APs) delivers industry-leading 802.11ac performance at a price point ideal for plugging capacity and coverage gaps in dense indoor environments. The Aironet 2700 Series extends 802.11ac speed and features to a new generation of smartphones, tablets, and high-performance laptops now shipping with the faster, 802.11ac Wi-Fi radios.

The Aironet 2700 series supports 802.11ac "Wave 1" In its first implementation, providing a theoretical connection rate of up to 1.3 Gbps. That's roughly triple the rates offered by today's high-end 802.11n APs. The boost helps you stay ahead of the performance and bandwidth expectations of today's mobile worker, who usually uses multiple Wi-Fi devices instead of just one. As such, users are adding proportionally larger traffic loads to the wireless LAN, which has outpaced Ethernet as the default enterprise access network.

#### High Density Experience (HD Experience)

Building on the Cisco Aironet heritage of RF excellence, the 2700 Series APs run on a purpose-built, innovative chipset with a best-inclass RF architecture. This chipset provides a high-density experience for enterprise networks designed for mission-critical, high-performance applications. The 2700 is a component of a Cisco series of flagship, 802.11ac-enabled APs that delivers a robust mobility experience based on the following product features:

 802.11ac with 3x4 multiple-input multiple-output (MIMO) technology supporting three spatial streams. This architecture offers a sustained 1.3-Gbps rates over a greater range for more capacity and reliability than competing APs.

- Cross-AP Noise Reduction, a Cisco innovation that enables APs to intelligently collaborate in real time about RF conditions so that users connect with optimized signal quality and performance.
- Optimized AP Roaming to ensure that client devices associate with the AP in their coverage range that offers the fastest data rate available.
- Cisco ClientLink 3.0 technology to improve downlink performance to all mobile devices, including one-, two-, and three-spatial-stream devices on 802.11ac. At the same time, the technology improves battery life on mobile devices.
- Cisco CleanAir technology enhanced with 80MHz channel support. CleanAir delivers proactive, high-speed spectrum intelligence across 20-, 40-, and 80-MHz-wide channels to combat performance problems due to wireless interference.
- MIMO equalization capabilities, which optimize uplink performance and reliability by reducing the impact of signal fade.

The Cisco Aironet 2700 Series sustains higher-speed connections farther from the AP than competing solutions. The result is up to three times greater availability of 1.3-Gbps rates in the Cisco environment for optimum mobile device performance and user experiences.

Cisco also offers the industry's broadest selection of <u>802.11n and 802.11ac antennas</u>, delivering optimal coverage to different deployment scenarios.

#### Scalability

The Cisco Aironet 2700 Series is a component of the Cisco Unified Wireless Network, a foundation for operating both wired and wireless LANs in an integrated manner. The Unified Wireless Network can scale to as many as 18,000 APs with full Layer-3 mobility across locations on the enterprise campus, in branch offices, and at remote sites. The Cisco Unified Wireless Network delivers highly secure access to mobility services and applications. It offers the lowest total cost of ownership (TCO) and investment protection by integrating smoothly with existing wired networks.

### **Product Specifications**

Table 1 lists the specifications for the Cisco Aironet 2700 Series Access Points.

Table 1. Aironet 2700 Access Point Product Specifications

Item	Specification						
Part numbers	Cisco Aironet 2700i Access Point: Indoor environments, with internal antennas						
	AIR-CAP2702I-x-K9: Dual-band, controller-based 802.11a/g/n/ac						
	• AIR-CAP2702I-xK910: Eco-pack (dual-band 802.11a/g/n/ac) 10 quantity access points						
	Cisco Aironet 2700e Access Point: Indoor, challenging environments, with external antennas						
	AIR-CAP2702E-x-K9: Dual-band controller-based 802.11a/g/n/ac						
	• AIR-CAP2702E-xK910: Eco-pack (dual-band 802.11a/g/n/ac), 10 quantity access points						
	Cisco SMARTnet® Service for the Cisco Aironet 2700i Access Point with internal antennas						
	• CON-SNT-C272Ix: SMARTnet 8x5xNBD for 2700i access point (dual-band 802.11a/g/n/ac)						
	• CON-SNT-C272Ix10: SMARTnet 8x5xNBD for 10-quantity eco-pack 2700i access point (dual-band 802.11a/g/n/ac)						
	Cisco SMARTnet Service for the Cisco Aironet 2700e Access Point with external antennas						
	• CON-SNT-C272Ex: SMARTnet 8x5xNBD for 2700e access point (dual-band 802.11a/g/n/ac)						
	• QCON-SNT-C272Ex10: SMARTnet 8x5xNBD for 1- quantity eco-pack 2700e access point (dual-band 802.11a/g/n/ac)						
	Regulatory domains: (x = regulatory domain)						
	Customers are responsible for verifying approval for use in their individual countries. To verify approval and to identify the regulatory domain that corresponds to a particular country, visit <a href="http://www.cisco.com/go/aironet/compliance">http://www.cisco.com/go/aironet/compliance</a> .						
	Not all regulatory domains have been approved. As they are approved, the part numbers will be available on the Global Price List.						

Item	Specification						
	Cisco Wireless LAN Services						
	AS-WLAN-CNSLT: C	Cisco Wireless LAN Netwo	ork Planning and Design S	<u>Service</u>			
	AS-WLAN-CNSLT: C	<u> Cisco Wireless LAN 802.1</u>	1n Migration Service				
	AS-WLAN-CNSLT: C	Cisco Wireless LAN Perfo	rmance and Security Asse	essment Service			
Software	Cisco Unified Wireless Network Software Release 7.6MR2 or later						
Supported wireless LAN controllers	2 (WiSM2) for Cataly Wireless Controllers,	rst® 6500 Series Switches Cisco 8500 Series Wirel	s, Cisco 5500 Series Wireless Controllers, Cisco Virt	ule for ISR G2, Cisco Wireless Services Module less Controllers, Cisco Flex <sup>®</sup> 7500 Series tual Wireless Controller nes, Cisco Catalyst 3650 Series Switches			
802.11n version 2.0 (and related) capabilities	<ul> <li>3x4 MIMO with three spatial streams</li> <li>Maximal ratio combining (MRC)</li> <li>802.11n and 802.11a/g beamforming</li> <li>20- and 40-MHz channels</li> <li>PHY data rates up to 450 Mbps (40 MHz with 5 GHz)</li> <li>Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)</li> <li>802.11 dynamic frequency selection (DFS)</li> <li>Cyclic shift diversity (CSD) support</li> <li>3x4 MIMO with three spatial streams</li> </ul>						
capabilities	MRC  802.11ac beamforming  20-, 40-, and 80-MHz channels  PHY data rates up to 1.3 Gbps (80 MHz in 5 GHz)  Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)  802.11 DFS  CSD support						
Data rates	802.11a: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps						
supported	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:						
	MCS Index <sup>1</sup>	Gl <sup>2</sup> = 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				
	10	150	174.4				

<sup>&</sup>lt;sup>1</sup> MCS Index: The Modulation and Coding Scheme (MCS) index determines the number of spatial streams, the modulation, the coding rate, and data rate values. <sup>2</sup> GI: A guard interval (GI) between symbols helps receivers overcome the effects of multipath delays.

Item	Specification								
	16		19.5		21.7				
	17		39		43.3				
	18		58.5		65				
	19		78		86.7				
	20		117		130				
	21		156		173.3				
	22		175.5		195				
	23		195		216.7				
	802.11ac da	ac data rates (5 GHz):							
	MCS Index <sup>3</sup>	Spatial Streams		GI <sup>4</sup> = 3	800ns			GI = 400ns	
			20-MHz Rate (Mbps)	40-MHz (Mbps)	Rate	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	78	780		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

<sup>&</sup>lt;sup>3</sup> MCS Index: The Modulation and Coding Scheme (MCS) index determines the number of spatial streams, the modulation, the coding rate, and data rate values. 
<sup>4</sup> GI: A guard interval (GI) between symbols helps receivers overcome the effects of multipath delays.

Item	Specification							
	8	3	234	486	1053	260	540	1170
	9	3	260	540	1170	288.9	600	1300
Frequency band and 20-MHz operating channels	9  A (A regular	-	260 ): 11 channels 3 channels 3 channels 5 channels 5 channels 5 channels 5 channels 7 channels 8 channels 8 channels 8 channels 8 channels 8 channels 9 channels 13 channels 13 channels 8 channels 8 channels 14 channels 8 channels 15 channels 16 channels 17 channels 18 channels 18 channels 18 channels 19 channels 19 channels 19 channels 10 channels 10 channels 10 channels 11 channels 12 channels 13 channels 13 channels 13 channels 13 channels 15 channels 16 channels 17 channels 18 channels 18 channels 19 channels 19 channels 10 channels 10 channels 10 channels 11 channels 12 channels 13 channels 13 channels 15 channels 15 channels		1170  N (N regular  2.412 to 5.180 to 5.745 to Q (Q regular 2.412 to 5.180 to 5.500 to R (R regular 2.412 to 5.180 to 5.660 to S (S regular 2.412 to 5.180 to T (T regular 2.412 to 5.280 to 5.280 to 5.745 to C (Z regular 2.412 to 5.180 to 5.500 to 6.5745 to C (Z regular 2.412 to 5.180 to 6.500 to 6.5745 to C (Z regular 2.412 to 5.180 to 6.500 to 6.5745 to C (Z regular 6.180 to 6.500 to		annels	
Note: Customers are domain that correspon	responsible fo		proval for use in			y approval and to	identify the regu	latory
Maximum number of nonoverlapping channels	2.4 GHz  • 802.11t  • 20 Mi  • 802.11r  • 20 Mi	o/g: Hz: 3 n:	vioit <u>intp://www.C</u>	usco.com/go/alioneu	• 802.11a: • 802.11a: • 802.11n: • 20 MH	lz: 21		

Maximum number	2.4 GHz	5 GHz
of nonoverlapping channels	• 802.11b/g:	• 802.11a:
Citatilleis	∘ 20 MHz: 3	∘ 20 MHz: 21
	• 802.11n:	• 802.11n:
	∘ 20 MHz: 3	∘ 20 MHz: 21
		∘ 40 MHz: 9
		• 802.11ac:
		∘ 20 MHz: 21
		∘ 40 MHz: 9
		∘ 80 MHz: 5

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

Item	Specificati	on							
Receive sensitivity	∘ -100 ∘ -93 d	o (CCK) dBm @ 1 Mbp dBm @ 2 Mbp Bm @ 5.5 Mb Bm @ 11 Mbp	os	1g (non HT20) dBm @ 6 Mbps dBm @ 9 Mbps dBm @ 12 Mbp dBm @ 18 Mbp dBm @ 24 Mbp dBm @ 36 Mbp dBm @ 48 Mbp dBm @ 54 Mbp	s s s	<ul> <li>-93 d</li> <li>-93 d</li> <li>-93 d</li> <li>-93 d</li> <li>-92 d</li> <li>-89 d</li> <li>-86 d</li> <li>-81 d</li> </ul>	a (non HT20) Bm @ 6 Mbps Bm @ 9 Mbps Bm @ 12 Mbps Bm @ 18 Mbps Bm @ 24 Mbps Bm @ 36 Mbps Bm @ 48 Mbps Bm @ 48 Mbps Bm @ 54 Mbps		
	-93 d -91 d -88 d -85 d -80 d -79 d -78 d -93 d -91 d -89 d -86 d -77 d -76 d -93 d -91 d -84 d -77 d -76 d -82 d -77 d	Bm @ MCS0 Bm @ MCS1 Bm @ MCS2 Bm @ MCS3 Bm @ MCS4 Bm @ MCS5 Bm @ MCS6 Bm @ MCS7 Bm @ MCS8 Bm @ MCS1 Bm @ MCS1 Bm @ MCS12 Bm @ MCS12 Bm @ MCS13 Bm @ MCS14 Bm @ MCS15 Bm @ MCS15 Bm @ MCS15 Bm @ MCS16 Bm @ MCS16 Bm @ MCS16 Bm @ MCS18 Bm @ MCS18 Bm @ MCS22 Bm @ MCS22	2 2 3 4 5 5 6 6 7 7 3 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		-	• -93 d • -91 d • -88 d • -85 d • -81 d • -79 d • -78 d • -93 d • -91 d • -89 d • -86 d • -77 d • -75 d • -93 d • -90 d • -88 d • -85 d • -82 d • -77 d • -76 d	In (HT20)  BM @ MCS0  BM @ MCS1  BM @ MCS2  BM @ MCS3  BM @ MCS4  BM @ MCS5  BM @ MCS6  BM @ MCS7  BM @ MCS9  BM @ MCS10  BM @ MCS10  BM @ MCS11  BM @ MCS12  BM @ MCS15  BM @ MCS16  BM @ MCS17  BM @ MCS17  BM @ MCS17  BM @ MCS19  BM @ MCS19  BM @ MCS19  BM @ MCS20  BM @ MCS21  BM @ MCS21  BM @ MCS22  BM @ MCS23	-89 dl -82 dl -85 dl -82 dl -77 dl -76 dl -75 dl -90 dl -88 dl -86 dl -79 dl -75 dl -75 dl -74 dl -79 dl -72 dl -87 dl -87 dl -74 dl -72 dl -87 dl -74 dl -73 dl -79 dl -73 dl	a (HT40) Bm @ MCS0 Bm @ MCS1 Bm @ MCS2 Bm @ MCS3 Bm @ MCS4 Bm @ MCS5 Bm @ MCS6 Bm @ MCS7 Bm @ MCS8 Bm @ MCS10 Bm @ MCS11 Bm @ MCS11 Bm @ MCS12 Bm @ MCS15 Bm @ MCS16 Bm @ MCS16 Bm @ MCS17 Bm @ MCS17 Bm @ MCS18 Bm @ MCS19 Bm @ MCS20 Bm @ MCS21 Bm @ MCS22 Bm @ MCS23
	<ul> <li>-74 dBm @ MCS23</li> <li>802.11ac Receive Sensitivity</li> <li>802.11ac (non HT80)</li> </ul>								
	• -86 dBm @ 6 Mbps • -75 dBm @ 54 Mbps								
	MCS Index <sup>5</sup>	Spatial Streams		l <del>.</del>	l		l		
	0	1	<b>VHT20</b> -92 dBm	-89 dBm	-85 dl		VTH20-STBC -92 dBm	VHT40-STBC -89 dBm	-85 dBm
	8	1	-74 dBm	JJ GDIII	00 ul	2111	-74 dBm	33 dbill	JJ UDIII
	9	1			-66 dl			-69 dBm	-66 dBm
	0	2	-92 dBm	m -88 dBm -		3m			
	8	2	-72 dBm						
	9	2		-67 dBm	-63 dl	3m			
	0	3	-92 dBm	-88 dBm	-84 dl	3m			
	9	3	-68 dBm	-66 dBm	-62 dl	3m			

 $<sup>^{5}</sup>$  MCS Index: The Modulation and Coding Scheme (MCS) index determines the number of spatial streams, the modulation, the coding rate, and data rate values.

Item	Specification					
	•	E CH2				
Maximum transmit power	2.4 GHz	5 GHz				
	• 802.11b	• 802.11a				
	22 dBm, 3 antennas	23 dBm, 4 antennas				
	• 802.11g	• 802.11n (HT20)				
	22 dBm, 3 antennas	23 dBm, 4 antennas				
	• 802.11n (HT20)	• 802.11n (HT40)				
	<ul> <li>22 dBm, 3 antennas</li> </ul>	<ul> <li>23 dBm, 4 antennas</li> </ul>				
		• 802.11ac				
		o non-HT80: 23 dBm, 4 antennas				
		<ul> <li>VHT20 23 dBm, 4 antennas</li> </ul>				
		<ul> <li>VHT40: 23 dBm, 4 antennas</li> </ul>				
		<ul> <li>VHT80: 23 dBm, 4 antennas</li> </ul>				
		<ul> <li>VHT20-STBC: 23 dBm, 4 antennas</li> </ul>				
		<ul> <li>VHT40-STBC: 23 dBm, 4 antennas</li> </ul>				
		<ul> <li>VHT80-STBC: 23 dBm, 4 antennas</li> </ul>				
<b>Note:</b> The maximum p specific details.	ower setting will vary by channel and according to individual co	ountry regulations. Refer to the product documentation for				
Available transmit	2.4 GHz	5 GHz				
power settings	• 22 dBm (160 mW)	• 23 dBm (200 mW)				
_	• 19 dBm (80 mW)	• 20 dBm (100 mW)				
	• 16 dBm (40 mW)	, ,				
	,	• 17 dBm (50 mW)				
	• 13 dBm (20 mW)	• 14 dBm (25 mW)				
	• 10 dBm (10 mW)	• 11 dBm (12.5 mW)				
	• 7 dBm (5 mW)	• 8 dBm (6.25 mW)				
	• 4 dBm (2.5 mW)	• 5 dBm (3.13 mW)				
	• 2 dBm (1.25 mW)	• 2 dBm (1.56 mW)				
<b>Note:</b> The maximum p specific details.	power setting will vary by channel and according to individual co	puntry regulations. Refer to the product documentation for				
Integrated antenna	• 2.4 GHz, gain 4 dBi, internal omni, horizontal beamwidth 360°					
	5 GHz, gain 6 dBi, internal omni, horizontal beamwidth 36					
External antenna (sold separately)	<ul> <li>Certified for use with antenna gains up to 6 dBi (2.4 GHz and 5 GHz)</li> <li>Cisco offers the industry's broadest selection of <u>antennas</u>, delivering optimal coverage for a variety of deployment scenarios</li> </ul>					
Interfaces	<ul> <li>2x10/100/1000BASE-T autosensing (RJ-45)</li> <li>Management console port (RJ-45)</li> </ul>					
Indicators	Status LED indicates boot loader status, association statu	us, operating status, boot loader warnings, boot loader errors				
Dimensions (W x L x H)	Access point (without mounting bracket): 8.69 x 8.69 x 1.					
Weight	• 2.2 lb (1.0 kg)					
Environmental	Cisco Aironet 2702i					
Lavironniental		to 70°C)				
	<ul> <li>Nonoperating (storage) temperature: -22° to 158°F (-30°</li> <li>Nonoperating (storage) altitude test: 25°C, 15,000 ft.</li> </ul>	10 TO O)				
	Operating temperature: 32° to 104°F (0° to 40°C)     Operating hymidity: 100′ to 00′′ percent (percent percent)					
	Operating humidity: 10% to 90% percent (noncondensing     Operating altitude tools 40°C, 0843 ft	)				
	Operating altitude test: 40°C, 9843 ft.      Class Aircraft 9700s					
	Cisco Aironet 2700e	4- 7000)				
	• Nonoperating (storage) temperature: -22° to 158°F (-30°	to /U <sup>-</sup> 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 took 40°C, 0843 ft					
0.1	Operating altitude test: 40°C, 9843 ft.					
System memory	• 512 MB DRAM					
	64 MB flash					

Item	Specification
Input power requirements	<ul> <li>AP2700: 44 to 57 VDC</li> <li>Power supply and power injector: 100 to 240 VAC; 50 to 60 Hz</li> </ul>
Power draw	<ul> <li>AP2700: 15W</li> <li>Note: When deployed using a Power over Ethernet (PoE) specification, the power drawn from the power sourcing equipment will be higher by some amount dependent on the length of the interconnecting cable.</li> </ul>
Powering options	<ul> <li>802.3at PoE+</li> <li>Enhanced PoE</li> <li>Cisco AP2700 power injectors (AIR-PWRINJ4=)</li> <li>Cisco AP2700 local power supply (AIR-PWR-B=)</li> <li>Note: If 802.3af PoE is the source of power, the access point will dynamically shift from 3x4 to 3x3 and come up under PoE.</li> </ul>
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 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 671 (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 60601-12 EMC requirements for the Medical Directive 93/42/EEC IEEE standards: IEEE 802.11a/b/g, 802.11n, 802.11h, 802.11d IEEE 802.11ac Draft 5 Security: 802.11i, Wi-Fi Protected Access 2 (WPA2), WPA 802.1X Advanced Encryption Standards (AES), Temporal Key Integrity Protocol (TKIP) Extensible Authentication Protocol (EAP) types: 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

## Limited Lifetime Hardware Warranty

The Cisco Aironet 2700 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 <a href="http://www.cisco.com/go/warranty">http://www.cisco.com/go/warranty</a>.

#### Cisco Wireless LAN 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 enable you to deploy a sound, scalable mobility network that fosters rich media collaboration. At the same time, you can improve 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. Then, we help you continuously optimize the performance, reliability, and security of that architecture after deployment. For more details, visit <a href="http://www.cisco.com/go/wirelesslanservices">http://www.cisco.com/go/wirelesslanservices</a>.

#### For More Information

For more information about the Cisco Aironet 2700 Series, visit <a href="http://www.cisco.com/go/wireless">http://www.cisco.com/go/wireless</a> or contact your local account representative.



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