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Cisco Aironet 3700 Series Access Points



Dual-band 2.4 GHz and 5 GHz with 802.11ac Wave 1 support on the integrated 5-GHz radio Cisco Aironet 3700i Access Point

- Sleek design with internal antennas
- · Ideal for office environments

Cisco Aironet 3700e and 3700p 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
- Classify over 20 different types of interference, including non-Wi-Fi interference, within 5 to 30 seconds
- Automatic remedial action and less manual intervention

Investment Protection with Flexible Modular Architecture Design

- Cisco Aironet Wireless Security and Spectrum Intelligence Module now shipping
- Cisco 3G Small Cell Module (available 2HCY13)
- Cisco Aironet 802.11ac Wave 2 Module (target CY2015)

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 reduces travel and speeds resolution
- Cisco Spectrum Expert Connect provides real-time, raw spectrum data to help with difficult-to-diagnose interference problems
- Air quality index in Cisco CleanAir[®] technology provides a snapshot of network performance and the impact of interference

Robust Security and Policy Enforcement

- Industry's first access point with non-Wi-Fi detection for off-channel rogues
- Supports rogue access point 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 only



With the industry's only enterprise class 4x4 MIMO, three-spatial-stream access points that support the IEEE's new 802.11ac specification, the Cisco[®] Aironet[®] 3700 Series delivers industry-leading performance and a High Density Experience (HD Experience) for both the enterprise and service provider markets. The Aironet 3700 Series extends support to a new generation of Wi-Fi clients, such as smartphones, tablets, and high-performance laptops that have integrating 802.11ac support.

In its first implementation, 802.11ac wave 1 provides a rate of up to 1.3 Gbps, roughly triple the rates offered by today's high-end 802.11n access points. This provides the necessary foundation for enterprise and service provider networks alike 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 highperformance experience while allowing users to move freely around the corporate environment.

By Utilizing a Purpose-built Innovative Chipset with the Best-inclass RF Architecture for a High Density Experience (HD Experience)

High Density Experience (HD Experience)

Building on the Cisco Aironet heritage of RF excellence, the 3700 Series utilizes a Purpose-built Innovative Chipset with the Best-in-class RF Architecture. This chipset provides a High Density Experience for enterprise network designed for mission critical, high performance applications. The 3700 is a series of flagship access points, delivering industry-leading performance for highly secure and reliable <u>wireless</u> connections and delivers a robust mobility experience that includes:

- 802.11ac with 4x4 multiple-input multiple-output (MIMO) technology with three spatial streams, offering sustained 1.3-Gbps rates over a greater range for more capacity and reliability than competing access points.
- Cross AP Noise Reduction is a Cisco innovation that enables Access Points to intelligently collaborate in real-time to allow more users to connect with optimized signal quality and performance.
- Optimized AP Roaming ensures clients will associate with the best AP offering the best 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 while improving battery life on mobile devices such as smartphones and tablets.
- Cisco CleanAir technology enhanced with 80MHz Channel Support, provides proactive, high-speed spectrum intelligence across 20-, 40-, and 80-MHz-wide channels to combat performance problems due to wireless interference.
- Modular architecture design that is carried forward from the <u>Cisco Aironet 3600</u>, enabling flexible add-on options in the form of the Cisco Aironet <u>Wireless Security and Spectrum Intelligence Module</u>, the upcoming <u>Cisco 3G Small Cell Module</u>, and the future Cisco Aironet 802.11ac Wave 2 Module, which are tightly integrated with the Aironet 3700 Series Access Point platform and are completely field-upgradable.
- MIMO equalization optimizes uplink performance and reliability by reducing the impact of signal fade.

The new Cisco Aironet 3700 Series sustains reliable connections at higher speeds farther from the access point than competing solutions, resulting in up to three times more availability of 1.3-Gbps rates and optimizing the performance of more mobile devices. The 3700 Series carries forward the modular architecture first introduced with the Aironet 3600 Series and offers unparalleled investment protection, with support for the Cisco Aironet Wireless Security and Spectrum Intelligence Module and the upcoming Cisco 3G Small Cell Module.

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 <u>802.11n and 802.11ac antennas</u>, delivering optimal coverage for a variety of deployment scenarios.

Scalability

The Cisco Aironet 3700 Series is a component of the Cisco Unified Wireless Network, which can scale to as many as 18,000 access points with full Layer 3 mobility across central or remote locations on the enterprise campus, in branch offices, and at remote sites. The Cisco Unified Wireless Network is the industry's most flexible, resilient, and scalable architecture, delivering highly secure access to mobility services and applications and offering the lowest total cost of ownership and investment protection by integrating smoothly with the existing wired network.

Product Specifications

Table 1 lists the specifications for the Cisco Aironet 3700 Series Access Points.

 Table 1.
 Product Specifications

Item	Specification					
Part numbers	Cisco Aironet 3700i Access Point: Indoor environments, with internal antennas					
	• AIR-CAP3702I-x-K9: Dual-band, controller-based 802.11a/g/n/ac					
	• AIR-CAP3702I-xK910: Eco-pack (dual-band 802.11a/g/n/ac) 10 quantity access points					
	Cisco Aironet 3700e Access Point: Indoor, challenging environments, with external antennas					
	 AIR-CAP3702E-x-K9: Dual-band controller-based 802.11a/g/n/ac 					
	• AIR-CAP3702E-xK910: Eco-pack (dual-band 802.11a/g/n/ac) 10 quantity access points					
	Cisco Aironet 3700p Access Point: high-density environments, with narrow-beamwidth, high-gain, antennas					
	• AIR-CAP3702P-x-K9: Dual-band controller-based 802.11a/g/n/ac					
	• AIR-CAP3702P-xK910: Eco-pack (dual-band 802.11a/g/n/ac) 10 quantity access points					
	Cisco SMARTnet® Service for the Cisco Aironet 3700i Access Point with internal antennas					
	• CON-SNT-C372Ix: SMARTnet 8x5xNBD for 3700i access point (dual-band 802.11a/g/n/ac)					
	• CON-SNT-C372Ix10: SMARTnet 8x5xNBD for 10 quantity eco-pack 3700i access point (dual-band 802.11a/g/n/ac)					
	Cisco SMARTnet Service for the Cisco Aironet 3700e Access Point with external antennas					
	• CON-SNT-C372Ex: SMARTnet 8x5xNBD for 3700e access point (dual-band 802.11a/g/n/ac)					
	• QCON-SNT-C372Ex10: SMARTnet 8x5xNBD for 10 quantity eco-pack 3700e access point (dual-band 802.11a/g/n/ac)					
	Cisco SMARTnet Service for the Cisco Aironet 3700p Access Point with external antennas					
	• CON-SNT-C372Px: SMARTnet 8x5xNBD for 3700p access point (dual-band 802.11a/g/n/ac)					
	• CON-SNT-C372Px10: SMARTnet 8x5xNBD for 10 quantity eco-pack 3700p access point (dual-band 802.11a/g/n/ac)					
	Cisco Wireless LAN Services					
	AS-WLAN-CNSLT: Cisco Wireless LAN Network Planning and Design Service					
	AS-WLAN-CNSLT: <u>Cisco Wireless LAN 802.11n Migration Service</u>					
	AS-WLAN-CNSLT: Cisco Wireless LAN Performance and Security Assessment Service					
	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 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.					
Software	Cisco Unified Wireless Network Software Release 7.6 or later					
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 Flex[®] 7500 Series Wireless Controllers, Cisco 8500 Series Wireless Controllers, Cisco Virtual Wireless Controller 					
	 Cisco 5760 Wireless LAN Controller, Cisco Catalyst 3850 Series Switches 					
Module options	Cisco Aironet Wireless Security and Spectrum Intelligence Module - now shipping					
	 Provides full-spectrum, off-channel scanning for a comprehensive wireless intrusion prevention system (wIPS), including Cisco CleanAir technology, rogue detection, context awareness, and radio resource management (RRM) solutions. Scans 2.4- and 5-GHz channels while serving data clients on the base dual-band access point platform 					
	Cisco 3G Small Cell Module (available 2HCY13)					
	• 3GPP band 1 (2100 MHz), 16 users, voice (R99), packet data (HSPA/HSDPA+)					
	Cisco Aironet Access Point 802.11ac Wave 2 Module (target CY2015)					

Item	Specification		Specification				
802.11n version 2.0 (and related) capabilities		, /g beamforming nels 450 Mbps (40 MHz with 5 A-MPDU (Tx/Rx), A-MSDI ency selection (DFS)					
802.11ac Wave 1 capabilities	 4x4 MIMO with three spatial streams MRC 802.11ac beamforming 20-, 40-, and 80-MHz channels PHY data rates up to 1.3 Gbps (80 MHz with 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, 1	1, 12, 18, 24, 36, 48, and	I 54 Mbps				
	802.11n data rates on 2	4 GHz:					
	MCS Index ¹						
		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				
	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				

 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 delays.

Specific	Specification									
23		195 216.7		216.7						
802.11a	802.11ac data rates (5 GHz):									
MCS Index ³	Spatial Streams	GI ⁴ = 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		
8	3	234	486		1053	260	540	1170		
9	3	260	540		1170	288.9	600	1300		

 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 delays.

Item	Specification						
Frequency band	A (A regulatory domain):		N (N regulatory domain):				
and 20-MHz	 2.412 to 2.462 GHz; 11 cha 	nnels	• 2.412 to 2.462 GHz; 11 channels				
operating channels	 5.180 to 5.320 GHz; 8 char 		 5.180 to 5.320 GHz; 8 channels 				
	 5.500 to 5.700 GHz; 8 char 		 5.745 to 5.825 GHz; 5 channels 				
	(excludes 5.600 to 5.640 G		Q (Q regulatory domain):				
	 5.745 to 5.825 GHz; 5 char 	inels	• 2.412 to 2.472 GHz; 13 channels				
	C (C regulatory domain):		 5.180 to 5.320 GHz; 8 channels 				
	• 2.412 to 2.472 GHz; 13 cha	innels	 5.500 to 5.700 GHz; 11 channels 				
	• 5.745 to 5.825 GHz; 5 char	inels	R (R regulatory domain):				
	D (D regulatory domain):		 2.412 to 2.472 GHz; 13 channels 				
	• 2.412 to 2.462 GHz; 11 cha	innels	 5.180 to 5.320 GHz; 8 channels 				
	• 5.180 to 5.320 GHz; 8 char	inels	 5,660 to 5,805 GHz; 7 channels 				
	• 5.745 to 5.865 GHz; 7 char	inels	S (S regulatory domain):				
	E (E regulatory domain):		 2.412 to 2.472 GHz; 13 channels 				
	• 2.412 to 2.472 GHz; 13 cha	innels	 5.180 to 5.320 GHz; 8 channels 				
	• 5.180 to 5.320 GHz; 8 char	inels	 5.500 to 5.700 GHz;, 11 channels 				
	• 5.500 to 5.700 GHz; 8 char	inels	 5.500 to 5.700 GHz;, 11 channels 5.745 to 5.825 GHz; 5 channels 				
	(excludes 5.600 to 5.640 G	Hz)					
	H (H regulatory domain):		T (T regulatory domain):				
	• 2.412 to 2.472 GHz; 13 cha	innels	 2.412 to 2.462 GHz; 11 channels 5.200 to 5.220 CHz; 2 channels 				
	• 5.150 to 5.350 GHz; 8 char	inels	 5.280 to 5.320 GHz; 3 channels 5.500 to 5.700 GHz; 8 channels 				
	• 5.745 to 5.825 GHz; 5 char	inels	 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz) 				
	I (I regulatory domain):		 5.745 to 5.825 GHz; 5 channels 				
	• 2.412 to 2.472 GHz; 13 cha	innels	Z (Z regulatory domain):				
	• 5.180 to 5.320 GHz; 8 char	inels	• 2.412 to 2.462 GHz; 11 channels				
	K (K regulatory domain):		 5.180 to 5.320 GHz; 8 channels 				
	• 2.412 to 2.472 GHz; 13 cha	nnels	 5.500 to 5.700 GHz; 8 channels 				
	• 5.180 to 5.320 GHz; 8 char	inels	(excludes 5.600 to 5.640 GHz)				
	• 5.500 to 5.620 GHz; 7 char	inels	 5.745 to 5.825 GHz; 5 channels 				
	• 5.745 to 5.805 GHz; 4 char	inels					
	responsible for verifying approval particular country, visit http://www		tries. To verify approval and to identify the regulatory domain				
Maximum number	2.4 GHz		5 GHz				
of nonoverlapping	• 802.11b/g:		• 802.11a:				
channels	• 20 MHz: 3		• 20 MHz: 21				
	• 802.11n:		• 802.11n:				
	• 20 MHz: 3		• 20 MHz: 21				
			• 40 MHz: 9				
			• 802.11ac:				
			 802.11ac: 20 MHz: 21 				
			• 20 MHz: 21 • 40 MHz: 9				
			 80 MHz: 5 				
Note: This varies by r	egulatory domain. Refer to the pro-	oduct documentation for specifi	ic details for each regulatory domain.				
Receive sensitivity	• 802.11b (CCK)	• 802.11g (non HT20)	• 802.11a (non HT20)				
	 -101 dBm @ 1 Mbps 08 dBm @ 2 Mbps 	 ∘ -91 dBm @ 6 Mbps ∘ 01 dBm @ 0 Mbps 	• -90 dBm @ 6 Mbps				
	 -98 dBm @ 2 Mbps -92 dBm @ 5 5 Mbps 	 ∘ -91 dBm @ 9 Mbps ∘ 01 dBm @ 12 Mbps 	• -90 dBm @ 9 Mbps				
	 -92 dBm @ 5.5 Mbps -92 dBm @ 44 Mbps 	 ∘ -91 dBm @ 12 Mbps ○ -91 dBm @ 10 Mbps 	• -90 dBm @ 12 Mbps				
	 -89 dBm @ 11 Mbps 	 -90 dBm @ 18 Mbps 07 dBm @ 04 Mbps 	• -89 dBm @ 18 Mbps				
		• -87 dBm @ 24 Mbps	• -86 dBm @ 24 Mbps				
		• -85 dBm @ 36 Mbps	• -83 dBm @ 36 Mbps				
		• -80 dBm @ 48 Mbps	• -78 dBm @ 48 Mbps				
		 -79 dBm @ 54 Mbps 	 -77 dBm @ 54 Mbps 				

Item	Specificati	on								
	2.4 GHz				5 GHz		5 GHz			
	• 802.11r	n (HT20)			• 802.11r	n (HT20)	• 802.11r	i (HT40)		
	∘ -90 d	Bm @ MCS0			∘ -91 d	Bm @ MCS0	∘ -88 dl	Bm @ MCS0		
	∘ -90 d	Bm @ MCS1			∘ -90 d	Bm @ MCS1	∘ -87 dl	Bm @ MCS1		
	∘ -90 d	Bm @ MCS2			∘ -89 d	Bm @ MCS2	∘ -86 dl	Bm @ MCS2		
	∘ -88 d	Bm @ MCS3			∘ -86 d	Bm @ MCS3	∘ -82 dl	Bm @ MCS3		
	∘ -85 d	Bm @ MCS4			∘ -83 d	Bm @ MCS4	∘ -80 dl	Bm @ MCS4		
	∘ -80 d	Bm @ MCS5			∘ -78 d	Bm @ MCS5	∘ -75 dl	Bm @ MCS5		
		Bm @ MCS6				Bm @ MCS6		Bm @ MCS6		
		Bm @ MCS7				Bm @ MCS7		Bm @ MCS7		
		Bm @ MCS8				Bm @ MCS8		Bm @ MCS8		
		Bm @ MCS9				Bm @ MCS9		Bm @ MCS9		
		Bm @ MCS1(Bm @ MCS10		Bm @ MCS10		
		Bm @ MCS11				Bm @ MCS11		Bm @ MCS11		
		Bm @ MCS12				Bm @ MCS12		Bm @ MCS12		
		Bm @ MCS13				Bm @ MCS13		• -73 dBm @ MCS13		
		Bm @ MCS14				Bm @ MCS14		Bm @ MCS14		
		Bm @ MCS15				Bm @ MCS15		• -70 dBm @ MCS15		
		Bm @ MCS16 Bm @ MCS17								
		Bm @ MCS17				Bm @ MCS17 Bm @ MCS18		 -84 dBm @ MCS17 -82 dBm @ MCS18 -78 dBm @ MCS19 -75 dBm @ MCS20 		
		Bm @ MCS19				Bm @ MCS19				
		Bm @ MCS2(Bm @ MCS20				
		Bm @ MCS21				Bm @ MCS21		Bm @ MCS21		
		Bm @ MCS22				Bm @ MCS22		Bm @ MCS22		
		Bm @ MCS23				Bm @ MCS23		Bm @ MCS23		
	802.11ac R	eceive Sensi	tivity							
	802.11ac (r	non HT80)								
	• -87 dBn	n @ 6 Mbps								
	• -73 dBn	n @ 54 Mbps	1							
	MCS Index⁵	Spatial Streams								
			VHT20	VHT40	VHT80	VTH20-STBC	VHT40-STBC	VHT80-STBC		
	0	1	-92 dBm	-89 dBm	-86 dBm	-92 dBm	-89 dBm	-86 dBm		
	8	1	-70 dBm			-70 dBm				
	9	1		-66 dBm	-63 dBm		-66 dBm	-63 dBm		
	0	2	-91 dBm	-88 dBm	-85 dBm					
	8	2	-69 dBm							
	9	2		-65 dBm	-62 dBm					
	0	3	-90 dBm	-87 dBm	-84 dBm					
	9	3	-67 dBm	-64 dBm	-61 dBm					

⁵ 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				
Maximum transmit	2.4 GHz	5 GHz			
Maximum transmit power	 2.4 GHZ 802.11b 23 dBm, 4 antennas 802.11g 23 dBm, 4 antennas 802.11n (HT20) 23 dBm, 4 antennas 	 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 VHT40: 23 dBm, 4 antennas VHT80: 23 dBm, 4 antennas VHT80: 23 dBm, 4 antennas VHT80: 23 dBm, 4 antennas VHT80: 23 dBm, 4 antennas VHT80: 23 dBm, 4 antennas VHT40: STBC: 23 dBm, 4 antennas VHT40-STBC: 23 dBm, 4 antennas 			
Note: The maximum p specific details.	ower setting will vary by channel and according to individual co	 VHT80-STBC: 23 dBm, 4 antennas puntry regulations. Refer to the product documentation for 			
Available transmit power settings	2.4 GHz • 23 dBm (200 mW) • 20 dBm (100 mW) • 17 dBm (50 mW) • 14 dBm (25 mW) • 11 dBm (12.5 mW) • 8 dBm (6.25 mW) • 5 dBm (3.13 mW) • 2 dBm (1.56 mW)	5 GHz • 23 dBm (200 mW) • 20 dBm (100 mW) • 17 dBm (50 mW) • 14 dBm (25 mW) • 11 dBm (12.5 mW) • 8 dBm (6.25 mW) • 5 dBm (3.13 mW) • 2 dBm (1.56 mW)			
Note: The maximum p specific details.	ower setting will vary by channel and according to individual co	ountry regulations. Refer to the product documentation for			
Integrated antenna	 2.4 GHz, gain 4 dBi, internal omni, horizontal beamwidth 5 GHz, gain 6 dBi, internal omni, horizontal beamwidth 36 				
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	 10/100/1000BASE-T autosensing (RJ-45) Management console port (RJ-45) 				
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): 8.7 x 8.7 x 2.11	in. (22.1 x 22.1 x 5.4 cm)			
Weight	• 2.5 lb (1.13 kg)				
Environmental	 Cisco Aironet 3700i Nonoperating (storage) temperature: -22°to 158F (- 30°ti Nonoperating (storage) altitude test: 25°C, 15,000 ft. Operating temperature: 32°to 104F (0°to 40°C) Operating humidity: 10% to 90% percent (noncondensing Operating altitude test: 40°C, 9843 ft. Cisco Aironet 3700e/3700p Nonoperating (storage) altitude test: 25°C, 15,000 ft. Operating temperature: -22°to 158F (- 30°ti Nonoperating (storage) altitude test: 25°C, 15,000 ft. Operating temperature: -4°to 122F (-20°to 50°C) Operating altitude test: 40°C, 9843 ft.)			
System memory	512 MB DRAM64 MB flash				

Item	Specification
Input power	• AP3700: 44 to 57 VDC
requirements	 Power supply and power injector: 100 to 240 VAC; 50 to 60 Hz
Power draw	• AP3700: 15W
	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.
Powering options	Aironet 3700 without an add-on module
	• 802.3at PoE+
	Enhanced PoE
	 Cisco AP3700 power injectors (AIR-PWRINJ4=)
	Cisco AP3700 local power supply (AIR-PWR-B=)
	Note: If 802.3af PoE is the source of power, the access point will dynamically shift from 4x4 to 3x3 and come up under PoE.
	Aironet 3700 with an add-on module
	• 802.3at PoE+
	Enhanced PoE
	 Cisco AP3700 power injectors (AIR-PWRINJ4=)
	 Cisco AP3700 local power supply (AIR-PWR-B=)
	Note: If 802.3af PoE is the source of power, the access point with module will dynamically shift from 4x4 to 2x2 and come up under PoE.
Warranty	Limited lifetime hardware warranty
Compliance	• UL 60950-1
standards	• CAN/CSA-C22.2 No. 60950-1
	 UL 2043 IEC 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 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 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 802.11ac 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) Brotoctod EAP (PEAP) v0 or EAP 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

Limited Lifetime Hardware Warranty

The Cisco Aironet 3700 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.

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 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.

For More Information

For more information about the Cisco Aironet 3700 Series, visit <u>http://www.cisco.com/go/wireless</u> or contact your local account representative.



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