

# 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 Module
- Cisco Universal Small Cell 5310 (available Q3 CY2014)
- Cisco Aironet 802.11ac Wave 2 Module (target 2H 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<sup>®</sup> 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 integrated 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 user's day-to-day work, but should enable a high-performance 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<sup>1</sup> 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 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 Module and in Q3 CY2014 the Cisco Universal Small Cell 5310 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.

<sup>&</sup>lt;sup>1</sup> Post FCS, enabled in a future software release

# **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-CAP3702x: SMARTnet 8x5xNBD for 3700i access point (dual-band 802.11a/g/n/ac)							
	Qty(10) CON-SNT-CAP372Ix: 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-CAP3702x: SMARTnet 8x5xNBD for 3700e access point (dual-band 802.11a/g/n/ac)							
	Qty(10) CON-SNT-CAP372Ex: 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-CAP3702x: SMARTnet 8x5xNBD for 3700p access point (dual-band 802.11a/g/n/ac)							
	<ul> <li>Qty(10) CON-SNT-CAP372Px: SMARTnet 8x5xNBD for 10 quantity eco-pack 3700p access point (dual-band 802.11a/g/n/ac)</li> </ul>							
	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							
	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.							
Software	Cisco Unified Wireless Network Software Release 7.6 or later							
Supported wireless LAN controllers	<ul> <li>Cisco 2500 Series Wireless Controllers, Cisco Wireless Controller Module for ISR G2, Cisco Wireless Services Module 2 (WiSM2) for Catalyst<sup>®</sup> 6500 Series Switches, Cisco 5500 Series Wireless Controllers, Cisco Flex<sup>®</sup> 7500 Series Wireless Controllers, Cisco 8500 Series Wireless Controllers, Cisco Virtual Wireless Controller</li> </ul>							
	Cisco 5760 Wireless LAN Controller, Cisco Catalyst 3850 Series Switches, Cisco Catalyst 3650 Series Switches							
Module options	Cisco Aironet Wireless Security Module							
	<ul> <li>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</li> </ul>							
	Cisco Universal Small Cell 5310 - supported Q3 CY2014							
	• 3GPP band 1 (2100 MHz), 16 users, voice (R99), packet data (HSPA/HSDPA+)							
	Cisco Aironet Access Point 802.11ac Wave 2 Module - target 2H CY2015)							

Item	Specification						
802.11n version 2.0 (and related) capabilities	4x4 MIMO with three spatial streams     Maximal ratio combining (MRC)     802.11n and 802.11a/g beamforming     20- and 40-MHz channels     PHY data rates up to 450 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 capabilities	<ul> <li>4x4 MIMO with three spatial streams</li> <li>MRC</li> <li>802.11ac beamforming</li> <li>20-, 40-, and 80-MHz channels</li> <li>PHY data rates up to 1.3 Gbps (80 MHz with 5 GHz)</li> <li>Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)</li> <li>802.11 DFS</li> <li>CSD support</li> </ul>						
Data rates supported	802.11a: 6, 9, 12, 18, 24	-					
		11, 12, 18, 24, 36, 48, a	nd 54 Mbps				
	802.11n data rates on	1					
	MCS Index <sup>2</sup>	GI <sup>3</sup> = 800 ns 20-MHz Rate (Mbps)	GI = 400 ns				
	0	6.5	20-MHz Rate (Mbps)				
	0	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 78	65 86.7				
	20	117	130				
	21	156	173.3				
	22 175.5 195						

MCS Index: The Modulation and Coding Scheme (MCS) index determines the number of spatial streams, the modulation, the coding rate, and data rate values.
 GI: A guard interval (GI) between symbols helps receivers overcome the effects of multipath delay spreads.

Specifica	Specification							
23		195	216	6.7				
802.11ac	data rates (5	GHz):						
MCS Index	Spatial Streams		GI <sup>3</sup> = 800r	ıs		GI = 400ns		
		20-MHz Rate (Mbps)	40-MHz Ra (Mbps)	te 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	15 32. 30 65 45 97. 60 136 120 266 135 292 150 328 180 390 120 433 30 65 60 130 90 198 120 260 135 292 150 328 180 390 200 433 30 65 60 130 90 198 120 260 180 390 240 520 270 588 300 650 360 780 400 866 45 97. 90 198 135 292 180 390 270 588 360 780 405 405 - 450 978	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	

Item	Specification					
Frequency band and	A (A regulatory domain):  N (N regulatory domain):					
20-MHz operating	2.412 to 2.462 GHz; 11 channels		2.412 to 2.462 GHz; 11 channels			
channels	• 5.180 to 5.320 GHz; 8 channels		• 5.180 to 5.320 GHz; 8 channels			
	• 5.500 to 5.700 GHz; 8 cha	annels	• 5.745 to 5.825 GHz; 5 channels			
	(excludes 5.600 to 5.640 (	•	Q (Q regulatory domain):			
	• 5.745 to 5.825 GHz; 5 cha	annels	• 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 ch		• 5.500 to 5.700 GHz; 11 channels			
	• 5.745 to 5.825 GHz; 5 cha	annels	R (R regulatory domain):			
	D (D regulatory domain):		• 2.412 to 2.472 GHz; 13 channels			
	• 2.412 to 2.462 GHz; 11 ch		• 5.180 to 5.320 GHz; 8 channels			
	• 5.180 to 5.320 GHz; 8 cha		• 5,660 to 5,805 GHz; 7 channels			
	• 5.745 to 5.825 GHz; 5 cha	annels	S (S regulatory domain):			
	E (E regulatory domain):		• 2.412 to 2.472 GHz; 13 channels			
	• 2.412 to 2.472 GHz; 13 ch		• 5.180 to 5.320 GHz; 8 channels			
	• 5.180 to 5.320 GHz; 8 cha		• 5.500 to 5.700 GHz;, 11 channels			
	• 5.500 to 5.700 GHz; 8 cha		• 5.745 to 5.825 GHz; 5 channels			
	(excludes 5.600 to 5.640 (	3N2)	T (T regulatory domain):			
	H (H regulatory domain):	ann ala	• 2.412 to 2.462 GHz; 11 channels			
	• 2.412 to 2.472 GHz; 13 ch		• 5.280 to 5.320 GHz; 3 channels			
	• 5.150 to 5.350 GHz; 8 cha		• 5.500 to 5.700 GHz; 8 channels			
	• 5.745 to 5.825 GHz; 5 cha	anneis	(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 ch		Z (Z regulatory domain):			
	• 5.180 to 5.320 GHz; 8 cha	anneis	• 2.412 to 2.462 GHz; 11 channels			
	K (K regulatory domain):	1.	• 5.180 to 5.320 GHz; 8 channels			
	• 2.412 to 2.472 GHz; 13 ch		• 5.500 to 5.700 GHz; 8 channels			
	• 5.180 to 5.320 GHz; 8 cha		(excludes 5.600 to 5.640 GHz)			
	• 5.500 to 5.620 GHz; 7 cha		• 5.745 to 5.825 GHz; 5 channels			
	• 5.745 to 5.805 GHz; 4 cha	annels				
	sponsible for verifying approval ls to a particular country, visit <u>ht</u>		ntries. To verify approval and to identify the regulatory /compliance.			
Maximum number of	2.4 GHz		5 GHz			
nonoverlapping	• 802.11b/g:		• 802.11a:			
channels	。 20 MHz: 3		∘ 20 MHz: 21			
	• 802.11n:		• 802.11n:			
	。 20 MHz: 3		。 20 MHz: 21			
			<ul><li>40 MHz: 9</li><li>802.11ac:</li><li>20 MHz: 21</li></ul>			
			∘ 40 MHz: 9			
			∘ 80 MHz: 4			
Note: This varies by reg	ulatory domain. Refer to the pro	oduct documentation for specif	fic details for each regulatory domain.			
Receive sensitivity	• 802.11b (CCK)	• 802.11g (non HT20)	• 802.11a (non HT20)			
	<ul> <li>-101 dBm @ 1 Mbps</li> <li>-98 dBm @ 2 Mbps</li> <li>-92 dBm @ 5.5 Mbps</li> <li>-91 dBm @ 9 Mbps</li> <li>-91 dBm @ 12 Mbps</li> </ul>		• -93 dBm @ 6 Mbps			
			• -93 dBm @ 9 Mbps			
			• -93 dBm @ 12 Mbps			
	• -89 dBm @ 11 Mbps	• -90 dBm @ 18 Mbps	• -92 dBm @ 18 Mbps			
	00 02 © 11 Milipo	∘ -87 dBm @ 24 Mbps	• -89 dBm @ 24 Mbps			
		• -85 dBm @ 36 Mbps	• -89 dBm @ 24 Mbps • -86 dBm @ 36 Mbps			
		• -80 dBm @ 48 Mbps	• -82 dBm @ 48 Mbps			
		7.5 dDill @ 04 lvlbps	∘ -80 dBm @ 54 Mbps			

Item	Specification							
Item	2.4 GHz  • 802.11r  • -90 d  • -90 d  • -90 d  • -85 d  • -85 d  • -77 d  • -90 d  • -90 d  • -78 d  • -77 d  • -75 d  • -90 d  • -89 d  • -84 d  • -84 d  • -81 d  • -76 d		2 3 4 5 5 6 6 7 8 8 9 9 00 21		-93 d -92 d -89 d -86 d -81 d -80 d -79 d -93 d -93 d -93 d -93 d -97 d -87 d -87 d -87 d -93 d -93 d -93 d -93 d -93 d -97 d -88 d -88 d -88 d -88 d	m (HT20) Bm @ MCS0 Bm @ MCS1 Bm @ MCS2 Bm @ MCS3 Bm @ MCS4 Bm @ MCS5 Bm @ MCS6 Bm @ MCS7 Bm @ MCS7 Bm @ MCS8 Bm @ MCS10 Bm @ MCS11 Bm @ MCS11 Bm @ MCS12 Bm @ MCS15 Bm @ MCS16 Bm @ MCS17 Bm @ MCS17 Bm @ MCS19 Bm @ MCS20 Bm @ MCS20 Bm @ MCS21 Bm @ MCS21	-90 dl -89 dl -89 dl -89 dl -89 dl -89 dl -78 dl -77 dl -76 dl -90 dl -87 dl -77 dl -76 dl -77 dl -77 dl -77 dl -78 dl -89 dl -89 dl -89 dl -88 dl -80 dl -80 dl -80 dl	a (HT40) Bm @ MCS0 Bm @ MCS1 Bm @ MCS2 Bm @ MCS3 Bm @ MCS4 Bm @ MCS5 Bm @ MCS5 Bm @ MCS6 Bm @ MCS7 Bm @ MCS9 Bm @ MCS10 Bm @ MCS11 Bm @ MCS11 Bm @ MCS12 Bm @ MCS13 Bm @ MCS14 Bm @ MCS15 Bm @ MCS16 Bm @ MCS17 Bm @ MCS17 Bm @ MCS19 Bm @ MCS20 Bm @ MCS20 Bm @ MCS21 Bm @ MCS21 Bm @ MCS21
		Bm @ MCS2			∘ -76 d	Bm @ MCS23	∘ -73 d	Bm @ MCS23
	802.11ac (I • -86 dBn • -76 dBn	n @ 6 Mbps n @ 54 Mbps	·					
	MCS Index <sup>4</sup>	Spatial Streams						
			VHT20	VHT40	VHT80	VTH20-STBC	VHT40-STBC	VHT80-STBC
	0 1 -94 dBm -91 dBm -86 dBm		-86 dBm	-94 dBm	-91 dBm	-86 dBm		
	8	1	-77 dBm			-77 dBm		
	9	1		-72 dBm	-69 dBm		-73 dBm	-70 dBm
	0	2 -94 dBm -91 dBm -86 dBm		-86 dBm				
	8	2	-75 dBm					
	9	2		-71 dBm	-67 dBm			
	0	3	-94 dBm	-91 dBm	-86 dBm			
	9	3	-71 dBm	-70 dBm	-65 dBm			

<sup>&</sup>lt;sup>4</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					
	•	5 GH7				
Maximum transmit power	■ 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  • VHT80: 23 dBm, 4 antennas  • VHT20-STBC: 23 dBm, 4 antennas  • VHT40-STBC: 23 dBm, 4 antennas  • VHT80-STBC: 23 dBm, 4 antennas				
<b>Note:</b> The maximum pospecific details.	bwer setting will vary by channel and according to individual c	·				
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)				
<b>Note:</b> The maximum pospecific details.	ower setting will vary by channel and according to individual c	country regulations. Refer to the product documentation for				
Integrated antenna	<ul> <li>2.4 GHz, gain 4 dBi, internal omni, horizontal beamwidth 360°</li> <li>5 GHz, gain 6 dBi, internal omni, horizontal beamwidth 360°</li> </ul>					
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>10/100/1000BASE-T autosensing (RJ-45)</li> <li>Management console port (RJ-45)</li> </ul>					
Indicators	Status LED indicates boot loader status, association st errors	atus, operating status, boot loader warnings, boot loader				
Dimensions (W x L x H)	Access point (without mounting bracket): 8.7 x 8.7 x 2.1	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 158°F (-30° to 70°C)  Nonoperating (storage) altitude test: 25°C, 15,000 ft.  Operating temperature: 32° to 104°F (0° to 40°C)  Operating humidity: 10% to 90% percent (noncondensing)  Operating altitude test: 40°C, 9843 ft.  Cisco Aironet 3700e/3700p  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	<ul><li>512 MB DRAM</li><li>64 MB flash</li></ul>					

Item	Specification								
Input power requirements	AP3700: 44 to 57 VDC     Power supply and power injector: 100 to 240 VAC; 50 to 60 Hz								
Power draw	*This is the power required at the PSE, which is a switch or injector.								
	Description	AP Functionality	PoE Budget (Watts)	802.3af	E-PoE	802.3at PoE+ PWRINJ4			
PoE+	3700 - No external module installed	4x4:3 on 2.4/5 GHz	16.1	х	✓	<b>✓</b>			
802.3at	3700 + Wireless Security Module	4x4:3 on 2.4/5 GHz + WSM	19.6	x	✓	✓			
PoE 802.3af	3700 - No external module installed	3x3:3 on 2.4/5 GHz	15.4	<b>✓</b>	n/a	n/a			
602.3af	3700 + Wireless Security Module	2x2:2 on 2.4/5 GHz + WSM	15.4	✓	n/a	n/a			
Warranty	Limited lifetime hardware warranty								
Compliance standards	<ul> <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> <li>EN 50155</li> <li>Radio approvals:</li> <li>FCC Part 15.247, 15.407</li> <li>RSS-210 (Canada)</li> <li>EN 300.328, EN 301.893 (Eu ARIB-STD 66 (Japan)</li> <li>ARIB-STD 771 (Japan)</li> <li>EMI and susceptibility (Class</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 (Europ</li> <li>EN 60601-1-2 EMC requirem</li> <li>IEEE 802.11a/b/g, 802.11n, 8</li> <li>IEEE 802.11ac Draft 5</li> <li>Security:</li> <li>802.11i, Wi-Fi Protected Accessociation</li> <li>802.1X</li> <li>Advanced Encryption Standar</li> <li>Extensible Authentication Protor</li> <li>EAP-Tunneled TLS (TTLS) or</li> <li>Protected EAP (PEAP) v0 or</li> <li>EAP-Flexible Authentication v</li> <li>PAP-Flexible Authentication v</li> <li>PEAP v1 or EAP-Generic Tokes EAP-Subscriber Identity Mode</li> <li>Multimedia:</li> <li>Wi-Fi Multimedia (WMM)</li> <li>Other:</li> <li>FCC Bulletin OET-65C</li> <li>RSS-102</li> </ul>	rope)  B)  e) ents for the Medical Directive 93  202.11h, 802.11d  ess 2 (WPA2), WPA  rds (AES), Temporal Key Integrol (EAP) types: y (TLS) r Microsoft Challenge Handshak EAP-MSCHAPv2 via Secure Tunneling (FAST) ken Card (GTC)	ity Protocol (TKIF		ersion 2 (N	MSCHAPv2)			

# 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 <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 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 <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 3700 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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