

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

- · Sleek design with external antenna
- 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 Hyperlocation Module with Advanced Security
- Cisco Aironet Access Point Module for Wireless Security
- Cisco Universal Small Cell 8718
- Cisco Universal Small Cell 5310

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 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-in-class 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 Reduction¹ 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 80-MHz 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 Series</u>, enabling flexible add-on options in the form of the Cisco Aironet <u>Access Point Module for Wireless Security</u>, <u>Cisco Hyperlocation Module with Advanced Security</u>, and Cisco Universal Small Cell <u>8718 module</u>, or <u>5310 module</u>, all of 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, Cisco Universal Small Cell 5310 Module, and the future Cisco Aironet 802.11ac Wave 2 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.

¹ 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-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-x/C40.5 AIR					
	• AIR-CAP3702P-xK910: Eco-pack (dual-band 802.11a/g/n/ac) 10 quantity access points					
	Cisco Smart Net Total Care [™] for the Cisco Aironet 3700i Access Point with internal antennas					
	CON-SNT-3702IA: SNTC-8X5XNBD 802.11ac Ctrlr AP 4x Duration: 12 Month(s) Cive Control of Table 2 and Appendix 12 Month (s) Cive Control of Table 2 and Ap					
	Cisco Smart Net Total Care for the Cisco Aironet 3700e Access Point with external antennas					
	• CON-SNT-3702EA: SNTC-8X5XNBD 802.11ac Ctrlr AP 4x4:3SS w/Cisco CleanAir; Ex Duration: 12 Month(s)					
	Cisco Smart Net Total Care for the Cisco Aironet 3700p Access Point with external antennas					
	CON-SNT-AIR3APAK: SNTC-8X5XNBD 802.11ac Ctrlr AP 4x Duration: 12 Month(s)					
	Cisco Wireless LAN Services					
	AS-WLAN-CNSLT: Cisco Wireless LAN Network Planning and Design Service AS-WLAN-CNSLT: Cisco Wireless LAN Network Planning and Design Service 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 by model of Access Point, visit http://www.cisco.com/go/aironet/compliance .					
	As regulatory domains are approved, the part numbers will be available on the Global Price List.					
Software	Cisco Unified Wireless Network Software Release with AireOS Wireless Controllers:					
	• 7.6 or later for the Cisco Aironet 3700 Series Access Point					
	• 7.6 or later for support of the Wireless Security Module for the 3700 Series Access Point					
	Cisco IOS XE Software Release:					
	3.3.1SE or later for the Cisco Aironet 3700 Series Access Point					
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, Cisco Catalyst 3650 Series Switches 					
Madula antiona						
Module options	Hyperlocation Module with Advanced Security A Hyperlocation Module provides full executive securing both 2.4 and 5.0Hz, for comprehensive detection and					
	 Hyperlocation Module provides full-spectrum scanning, both 2.4 and 5 GHz, for comprehensive detection and mitigation of over-the-network attacks, Cisco CleanAir technology to detect devices causing network interference, roque device detection, context (location) awareness, FastLocate, and radio resource management (RRM) solutions 					
	BLE Beacon, incorporates five centrally managed virtual BLE beacons with separate Universal Unique Identifiers (UUIDs) and power levels					
	FastLocate provides faster updates per Wi-Fi device for a quicker refresh of the device's location					
	One meter of location accuracy of associated Wi-Fi clients, when paired with the Hyperlocation Antenna					
	 Provides full scanning of all 2.4- and 5-GHz channels while the access point is serving data clients on the integrated radios 					
	Cisco Aironet Access Point Module for Wireless Security					
	 Provides full-spectrum scanning for comprehensive detection and mitigation of over-the-network attacks, Cisco CleanAir technology to detect devices causing network interference, roque device detection, context (location) awareness, FastLocate, and radio resource management (RRM) solutions 					
	FastLocate provides faster updates per Wi-Fi device for a quicker refresh of the device's location					
	Provides full scanning of all 2.4- and 5-GHz channels while the access point is serving data clients on the integrated radios (802.11b/g/n and 802.11a/n)					
	Cisco Universal Small Cell 8718 Dual-band, switchable multimode module, first band for LTE with 2x50 mw MIMO, one band for 3G with 100 mw transmit and receive diversity					

Item	Specification						
	 Software configurable to operate as UMTS and LTE. Band 1/3 (USC8718-M13-K9) Software configurable to operate as UMTS and LTE. Band 1/7 (USC8718-M17-K9) Software configurable to operate as UMTS and LTE. Band 2/4 (USC8718-M24-K9) Cisco Universal Small Cell 5310 3GPP band 1 (2100 MHz), 16 users, voice (R99), packet data (HSPA/HSDPA+) 3GPP band 2/5 (band 2 - 1930 and band 5 - 869), 16 users, voice (R99), packet data (HSPA/HSDPA+) 						
802.11n version 2.0 (and related) capabilities	 Maximal ratio combi 802.11n and 802.11 20- and 40-MHz cha PHY data rates up to Packet aggregation: 	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)					
802.11ac Wave 1 capabilities	 MRC 802.11ac beamform 20-, 40-, and 80-MH PHY data rates up to 	 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 					
Data rates supported	802.11a: 6, 9, 12, 18, 24	4, 36, 48, and 54 Mbps					
	802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps						
	802.11n data rates on	2.4 GHz:	1				
	MCS Index ²	GI ³ = 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 52	43.3 57.8				
	12	78	86.7				
	13	104	115.6				
	15	130	144.4				
	16	19.5	21.7				
	17	39	43.3				
	18	58.5	65				
	.0	55.5	33				

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.

Item	Specification								
	19		78		86.7				
	20		117		130				
	21		156 173.		173.3				
	22		175.5 195		195				
	23		195 216		216.7				
	802.11ac data rates (5 GHz):								
	MCS Index	Spatial Streams	GI ³ =		GI ³ = 800ns		GI = 400ns		
			20-MHz Rate (Mbps)	40-MHz (Mbps)		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
	,	_	=20	5.5			=55.5		. 555

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 channels	• 5.745 to 5.825 GHz; 5 channels				
	(excludes 5.600 to 5.640 GHz)	Q (Q regulatory domain):				
	• 5.745 to 5.825 GHz; 5 channels	• 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 channels	• 5.500 to 5.700 GHz; 11 channels				
	• 5.745 to 5.825 GHz; 5 channels	R (R regulatory domain):				
	D (D regulatory domain):	• 2.412 to 2.472 GHz; 13 channels				
	• 2.412 to 2.462 GHz; 11 channels	• 5.180 to 5.320 GHz; 8 channels				
	• 5.180 to 5.320 GHz; 8 channels	• 5.660 to 5,805 GHz; 7 channels				
	• 5.745 to 5.825 GHz; 5 channels	S (S regulatory domain):				
	E (E regulatory domain):	 2.412 to 2.472 GHz; 13 channels 				
	• 2.412 to 2.472 GHz; 13 channels	• 5.180 to 5.320 GHz; 8 channels				
	• 5.180 to 5.320 GHz; 8 channels	• 5.500 to 5.700 GHz;, 11 channels				
	• 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)	• 5.745 to 5.825 GHz; 5 channels				
	H (H regulatory domain):	T (T regulatory domain):				
	• 2.412 to 2.472 GHz; 13 channels	• 2.412 to 2.462 GHz; 11 channels				
	• 5.150 to 5.350 GHz; 8 channels	• 5.280 to 5.320 GHz; 3 channels				
	• 5.745 to 5.825 GHz; 5 channels	• 5.500 to 5.700 GHz; 8 channels				
	I (I regulatory domain):	(excludes 5.600 to 5.640 GHz)				
	• 2.412 to 2.472 GHz; 13 channels	• 5.745 to 5.825 GHz; 5 channels				
	• 5.180 to 5.320 GHz; 8 channels	Z (Z regulatory domain):				
	K (K regulatory domain):	• 2.412 to 2.462 GHz; 11 channels				
	• 2.412 to 2.472 GHz; 13 channels	• 5.180 to 5.320 GHz; 8 channels				
	• 5.180 to 5.320 GHz; 8 channels	 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz) 				
	• 5.500 to 5.620 GHz; 7 channels	• 5.745 to 5.825 GHz; 5 channels				
	• 5.745 to 5.805 GHz; 4 channels					
Note: Customers are re-	sponsible for verifying approval for use in their indiv	idual countries				
	o identify the regulatory domain that corresponds to	a particular country by model of Access Point, visit				
Maximum number of	2.4 GHz	5 GHz				
nonoverlapping		• 802.11a:				
channels	• 802.11b/g: • 20 MHz: 3	○ 20 MHz: 21				
	• 802.11n:	• 802.11n:				
	○ 20 MHz: 3	• 20 MHz: 21				
	20 1011 12. 0	∘ 40 MHz: 9				
		• 802.11ac:				
		• 20 MHz: 21				
		• 40 MHz: 9				
		∘ 80 MHz: 4				
Note: This varies by req	ulatory domain. Refer to the product documentation					
Receive sensitivity	• 802.11b (CCK) • 802.11g (non F	,				
	 -101 dBm @ 1 Mbps -91 dBm @ € -98 dBm @ 2 Mbps -91 dBm @ € 	·				
	·					
	○ -89 dBm @ 11 Mbps ○ -90 dBm @ 2 ○ -87 dBm @ 2	·				
	∘ -87 dBm @ 2 ∘ -85 dBm @ 3					
	• -85 dBm @ 4	·				
	∘ -60 dBiff @ 2	·				
	v -/9 dbiii @ :	י -סט טיד ווושט יי -סט טיד ווושט טיד יי ווושט טיד יי				

Item Specificati	on							
2.4 GHz ■ 802.11r □ -90 d □ -90 d □ -88 d □ -85 d	2.4 GHz ■ 802.11n (HT20) □ -90 dBm @ MCS0 □ -90 dBm @ MCS1 □ -90 dBm @ MCS2 □ -88 dBm @ MCS3 □ -85 dBm @ MCS4 □ -80 dBm @ MCS5				I (HT20) Bm @ MCS0 Bm @ MCS1 Bm @ MCS2 Bm @ MCS3 Bm @ MCS4 Bm @ MCS4 Bm @ MCS5	5 GHz ■ 802.11n (HT40) □ -90 dBm @ MCS0 □ -90 dBm @ MCS1 □ -89 dBm @ MCS2 □ -86 dBm @ MCS3 □ -83 dBm @ MCS4 □ -78 dBm @ MCS5		
· -77 d · -90 d · -90 d · -89 d · -86 d · -82 d · -78 d	 -78 dBm @ MCS6 -77 dBm @ MCS7 -90 dBm @ MCS8 -90 dBm @ MCS9 -89 dBm @ MCS10 -86 dBm @ MCS11 -82 dBm @ MCS12 -78 dBm @ MCS13 -77 dBm @ MCS14 -75 dBm @ MCS15 -90 dBm @ MCS16 -89 dBm @ MCS17 -87 dBm @ MCS18 -84 dBm @ MCS19 -81 dBm @ MCS20 -76 dBm @ MCS21 -75 dBm @ MCS21 -75 dBm @ MCS21 -75 dBm @ MCS22 -74 dBm @ MCS23 			• -80 dE • -79 dE • -93 dE • -93 dE • -90 dE • -87 dE • -80 dE • -80 dE		 -76 dl -90 dl -87 dl -84 dl -81 dl -77 dl 	dBm @ MCS6 dBm @ MCS7 dBm @ MCS8 dBm @ MCS9 dBm @ MCS10 dBm @ MCS11 dBm @ MCS12 dBm @ MCS13 dBm @ MCS13	
· -75 d · -90 d · -89 d · -87 d · -84 d · -81 d · -76 d · -75 d				 -77 d -93 d -92 d -89 d -86 d -83 d -79 d -77 d 	Bm @ MCS14 Bm @ MCS15 Bm @ MCS16 Bm @ MCS17 Bm @ MCS18 Bm @ MCS19 Bm @ MCS20 Bm @ MCS21 Bm @ MCS21 Bm @ MCS22 Bm @ MCS23	 -74 dl -90 dl -89 dl -86 dl -83 dl -80 dl -76 dl -74 dl 	Bm @ MCS14 Bm @ MCS15 Bm @ MCS16 Bm @ MCS17 Bm @ MCS18 Bm @ MCS19 Bm @ MCS20 Bm @ MCS21 Bm @ MCS22 Bm @ MCS23	
802.11ac (I • -86 dBr	non HT80) n @ 6 Mbps n @ 54 Mbps Spatial Streams	vity		'		,		
IIIdex		HT20	VHT40	VHT80	VTH20-STBC	VHT40-STBC	VHT80-STBC	
0 8		4 dBm 7 dBm	-91 dBm	-86 dBm	-94 dBm -77 dBm	-91 dBm	-86 dBm	
9	2 -9	14 dBm	-72 dBm -91 dBm	-69 dBm -86 dBm		-73 dBm	-70 dBm	
8	2 -7	'5 dBm	-71 dBm	-67 dBm				
0 9	3 -9	4 dBm 1 dBm	-91 dBm -70 dBm	-86 dBm -65 dBm				

⁴ 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			
power	● 802.11b • 23 dBm, 4 antennas • 802.11g	802.11a 23 dBm, 4 antennas 802.11n (HT20)			
	 23 dBm, 4 antennas 802.11n (HT20) 23 dBm, 4 antennas 	 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 			
Note: The maximum pospecific details.	ower setting will vary by channel and according to individual of	ountry 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 pospecific details.	ower setting will vary by channel and according to individual o	ountry regulations. Refer to the product documentation for			
Integrated antenna	 2.4 GHz, gain 4 dBi, internal omni, horizontal beamwid 5 GHz, gain 4 dBi, internal omni, horizontal beamwidth 				
External antenna (sold separately)	 AP3700E: Certified for use with antenna gains up to 6 dBi (2.4 GHz and 5 GHz) with the AP3700E AP3700P: Certified for use with antenna gains up to 6 dBi (2.4 GHz and 5 GHz), similar to the AP3700E and with the addition of support for <u>AIR-ANT2513P4M-N=</u> 13 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 status, 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 158°F (-30°) 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°) 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.	ng)			

Item	Specification							
System memory	512 MB DRAM 64 MB flash							
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+ 802.3at	3700 - No external module installed	4x4:3 on 2.4/5 GHz	16.1	x	✓	✓		
602.3at	3700 + Wireless Security Module	4x4:3 on 2.4/5 GHz + WSM	19.6	x	✓	✓		
PoE	3700 - No external module installed	3x3:3 on 2.4/5 GHz	15.4	✓	n/a	n/a		
802.3af	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 60950-1 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 (Eu ARIB-STD 66 (Japan) ARIB-STD 771 (Japan) EMI and susceptibility (Class FCC Part 15.107 and 15.109 ICES-003 (Canada) VCCI (Japan) EN 301.489-1 and -17 (Europ EN 60601-1-2 EMC requirem IEEE standards: IEEE 802.11a/b/g, 802.11n, 8 IEEE 802.11a Draft 5 Security: 802.11i, Wi-Fi Protected Accessociation 802.1X Advanced Encryption Standar Extensible Authentication Protor EAP-Tunneled TLS (TTLS) or Protected EAP (PEAP) v0 or EAP-Flexible Authentication v PAP-Flexible Authentication v PEAP v1 or EAP-Generic Tokes EAP-Subscriber Identity Mode Multimedia: Wi-Fi Multimedia (WMM) Other: FCC Bulletin OET-65C RSS-102 	rope) B) e) ents for the Medical Directive 93 202.11h, 802.11d ess 2 (WPA2), WPA rds (AES), Temporal Key Integricol (EAP) types: y (TLS) r Microsoft Challenge Handshak EAP-MSCHAPv2 via Secure Tunneling (FAST) ken Card (GTC)	ty Protocol (TKIP		ersion 2 (M	/ISCHAPv2)		

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.

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



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