

Cisco Aironet 2800 Series Access Points

The Cisco[®] Aironet[®] 2800 Series Wi-Fi access points are highly versatile and deliver the most functionality in the industry.

Product overview



For organizations paving the way for the new 802.11ac Wave 2 standard, the Cisco Aironet 2800 Series is the perfect solution. The access points go beyond getting ready for the new standard, providing the ultimate in flexibility and versatility.

For large enterprise organizations that rely on Wi-Fi to engage with customers, the 2800 Series is a hands-off product that's intelligent enough to make decisions based on end-device activities and usage. This automation allows you to devote time to other pressing matters, secure in the knowledge that your Wi-Fi network is performing to its utmost potential.

The Aironet 2800 Series is packed with the features and capabilities that have made Cisco the industry leader, at a price point that is ideal for managing wireless growth, capacity, and coverage gaps in dense indoor environments.

Features and benefits

Feature	Benefit
802.11ac Wave 2 support	Provides a theoretical connection rate of up to 2.6 Gbps per radio—roughly double the rates offered by today's highend 802.11ac access points.
High Density Experience (HDX)	Best-in-class RF architecture, which provides high-performance coverage for a high density of client devices, giving the end user a seamless wireless experience. HDX includes features such as custom hardware in 802.11ac Wave 2 radios, Cisco CleanAir®, ClientLink 4.0, cross-access point noise reduction, and an optimized client roaming experience.
Multiuser Multiple-Input Multiple-Output (MU-MIMO) technology	Supporting three spatial streams, MU-MIMO enables access points to split spatial streams between client devices, to maximize throughput.

Feature	Benefit				
Flexible Radio Assignment	Allows the access points to intelligently determine the operating mode of serving radios based on the RF environment. The access points can operate in the following modes:				
	• 2.4-GHz and 5-GHz mode: One radio will serve clients in 2.4-GHz mode, while the other serves clients in 5-GHz mode.				
	 Dual 5-GHz mode: Both radios inside the access point operate on the 5-GHz band, maximizing the benefits of 802.11ac Wave 2 and increasing client device capacity. 				
	 Security Monitoring and 5-GHz mode, One radio will serve 5-GHz clients, while the other is scanning the full spectrum for wIPS attackers, CleanAir interferers, and rogue devices. 				
Dual 5-GHz radio support	Enables both radios to operate in 5-GHz client serving mode, allowing an industry-leading 5.2 Gbps (2 x 2.6 Gbps) over-the-air speeds while increasing client capacity.				
Smart antenna connector	An intelligent second physical antenna connector is included on 2800 Series models with an external antenna. This connector provides advanced network design flexibility for high-density and large open-area environments such as auditoriums, convention centers, libraries, cafeterias, and arenas/stadiums, allowing two sets of antennas to be connected and active on a single access point.				
160-MHz channel support	Supporting channels up to 160 MHz wide, Dynamic Bandwidth Selection allows the access point to dynamically switch between 20-, 40-, 80-, and 160-MHz channels, depending on the RF channel conditions, providing the industry's best-performing wireless network.				
Optimized access point roaming	Helps ensure that client devices associate with the access point in their coverage range that offers the fastest data rate available.				
Zero Impact Application Visibility and Control	Uses dedicated hardware acceleration to improve the performance of line-speed applications such as Application Visibility and Control.				
Auto Link Aggregation (LAG) support	802.3ad (LACP) compliant, allowing both Gigabit Ethernet interfaces to automatically LAG, increasing overall throughput to the access point.				
ClientLink 4.0	Cisco ClientLink 4.0 technology to improve downlink performance to all mobile devices, including one-, two-, and three-spatial-stream devices on 802.11a/b/g/n/ac while improving battery life on mobile devices such as smartphones and tablets.				
CleanAir 160 MHz	Cisco CleanAir technology, enhanced with 160-MHz channel support, provides proactive, high-speed spectrum intelligence across 20-, 40-, 80-, or 160-MHz-wide channels to combat performance problems due to wireless interference.				
Cisco Mobility Express	Flexible deployment mode through the Cisco Mobility Express Solution is ideal for medium-sized deployments and can support up to 100 access points. Easy setup allows the 2800 Series Access Points to be deployed on networks without a physical controller.				

Available in a future release.

802.11ac Wave 2 and beyond

The Aironet 2800 Series extends 802.11ac speed and features to a new generation of smartphones, tablets, and high-performance laptops, providing a greater end-user experience. Whether your project involves wholesale changes to your current wireless network or upgrading your legacy Wi-Fi deployments (802.11a/b/g/n/ac wave 1 deployments), the 2800 Series can handle the job.

The 2800 Series supports 802.11ac Wave 2, providing a theoretical connection rate of up to 5.2 Gbps—that's roughly 4x the rates offered by today's high-end 802.11ac access points. 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.

Cisco DNA support

Pairing the 2800 Series access points with the Cisco Digital Network Architecture (Cisco DNA™) allows for a total network transformation. Cisco DNA allows you to truly understand your network with real-time analytics, quickly detect and contain security threats, and easily provide networkwide consistency through automation and virtualization. By decoupling network functions from the hardware, you can build and manage your entire wired and wireless network from a single user interface.

Working together, the 2800 Series and DNA offer such features as:

- Flexible Radio Assignment
- Cisco Connected Mobile Experiences
- · Cisco High Density Experience
- Apple FastLane
- · Cisco Identity Services Engine
- · And much more

The result? Your network stays relevant, becomes digital-ready, and is the lifeblood of your organization.

High-density experience

Building on the Cisco Aironet heritage of RF excellence, the 2800 Series access points run on a purpose-built, innovative chipset with a best-in-class RF architecture. This chipset provides a high-density experience for enterprise networks designed for mission-critical, high-performance applications.

The 2800 Series is a component of Cisco's portfolio of flagship, 802.11ac-enabled access points, and delivers a robust mobility experience based on the following product features:

 802.11ac Wave 2 with 4x4 Multiuser Multiple-Input Multiple-Output (MU-MIMO) technology supporting three spatial streams. MU-MIMO enables access points to split spatial streams between client devices to maximize throughput.

With two radios built into each access point, the 2800 Series is more versatile than any access point currently on the market. These radios are outfitted with Flexible Radio Assignment, which means that the access points automatically self-optimize to better serve the environment. For example, one of the radios broadcasts its signal on the 5-GHz channel and the other sends out a 2.4-GHz signal. The access point understands the wireless environment and will automatically switch the 2.4-GHz signal to a 5-GHz signal, increasing the reliability of your Wi-Fi use. This setting automatically works in reverse too, the access point recognizes that the RF environment has changed as reverts changes back to its original configuration.

The access point also dynamically changes the radio settings based on the wireless environment. The 2800 Series Wave 2 access point will allow one of the radios to operate in Wireless Security Monitoring mode. Allowing you to detect wireless security threats, interference, and combat rogue access. This valuable information can be culled in an easy-to-understand matrix to inform you about your customers.

- Optimized access point roaming to ensure that client devices associate with the access point in their coverage range that offers the fastest data rate available.
- Cisco ClientLink 4.0 technology to improve downlink performance to all mobile devices, including one-, two-, and three-spatial-stream devices on 802.11a/b/g/n/ac. At the same time, the technology improves battery life on mobile devices.
- Cisco CleanAir technology enhanced with 160-MHz channel support. CleanAir delivers proactive, high-speed spectrum intelligence across 20-, 40-, and 80-, and 160-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.

Product specifications

Item	Specification			
Part numbers	Cisco Aironet 2800i Access Point: Indoor environments, with internal antennas			
	AIR-AP2802I-x-K9: Dual-band, controller-based 802.11a/g/n/ac			
	AIR-AP2802I-xK910: Eco-pack (dual-band 802.11a/g/n/ac) 10 quantity access points			
	AIR-AP2802I-D-K9I: Dual-band, controller-based 802.11a/g/n/ac (India only)			
	Cisco Aironet 2800i Access Point Configurable: Indoor environments, with internal antennas			
	AIR-AP2802I-x-K9C: Dual-band, controller-based 802.11a/g/n/ac, configurable			
	AIR-AP2802I-xK910C: Eco-pack (dual-band 802.11a/g/n/ac) 10 quantity access points, configurable			
	Cisco Aironet 2800e Access Point: Indoor, challenging environments, with external antennas			
	AIR-AP2802E-x-K9: Dual-band controller-based 802.11a/g/n/ac			
	• AIR-AP2802E-xK910: Eco-pack (dual-band 802.11a/g/n/ac), 10 quantity access points			
	Cisco Aironet 2800e Access Point Configurable: Indoor, challenging environments, with external antennas			
	AIR-AP2802E-x-K9C: Dual-band controller-based 802.11a/g/n/ac, configurable			
	• AIR-AP2802E-xK910C: Eco-pack (dual-band 802.11a/g/n/ac), 10 quantity access points, configurable			
	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 https://www.cisco.com/go/aironet/compliance .			
	Not all regulatory domains have been approved. As they are approved, the part numbers will be available on the Global Price List.			
	Cisco Wireless LAN Services			
	AS-WLAN-CNSLT: <u>Cisco Wireless LAN Network Planning and Design Service</u>			
	AS-WLAN-CNSLT: Cisco Wireless LAN 802.11n Migration Service			
	AS-WLAN-CNSLT: <u>Cisco Wireless LAN Performance and Security Assessment Service</u>			
Software	Cisco Unified Wireless Network Software Release 8.2.111.0 or later			
	Cisco IOS® XE Software Release 16.3			
Supported wireless LAN controllers	 Cisco 2500 Series Wireless Controllers, Cisco 3500 Series Wireless Controllers, Cisco Wireless Controller Module for ISR G2, Cisco Wireless Services Module 2 (WiSM2) for Catalyst[®] 6500 Series Switches, Cisco 5500 Series Wireless Controllers, Cisco Flex[®] 7500 Series Wireless Controllers, Cisco 8500 Series Wireless Controllers, Cisco 9800 series Wireless Controllers, Cisco Virtual Wireless Controller Cisco Catalyst 3850 Series Switches, Cisco Catalyst 3650 Series Switches 			
	Cisco Mobility Express			
	7 1			
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	4x4 MIMO with three spatial streams			
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			
802.11ac Wave 2 capabilities	 4x4 MU-MIMO with three spatial streams MRC 802.11ac beamforming 20-, 40-, 80, 160-MHz channels PHY data rates up to 5.2 Gbps Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx) 802.11 DFS CSD support 			

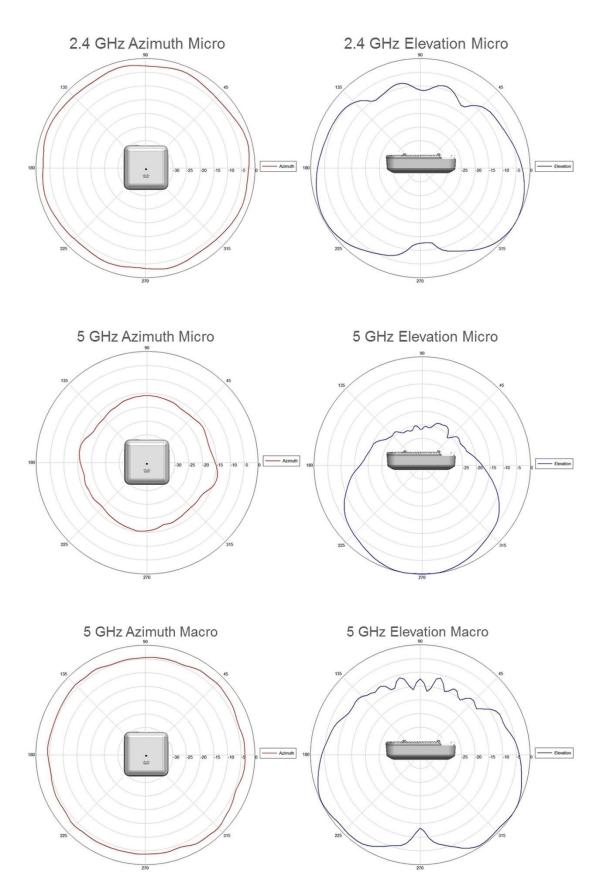
Item	Specification					
Integrated antenna	Flexible radio (either 2.4 GHz or 5 GHz) • 2.4 GHz, gain 4 dBi, internal antenna, omnidirectional in azimuth • 5 GHz, gain 6 dBi, internal directional antenna, elevation plane beamwidth 90° Dedicated 5-GHz radio					
External antenna (sold separately)	 5 GHz, gain 5 dBi, internal antenna, omnidirectional in azimuth 2802e Series access points are certified for use with antenna gains up to 6 dBi (2.4 GHz and 5 GHz) Cisco offers the industry's broadest selection of antennas, delivering optimal coverage for a variety of deployment scenarios 					
Smart antenna connector	Available on the 2802e Series access points only Requires the AIR-CAB002-DART-R= 2 ft smart antenna antenna to the access point Required when running the flexible radio as either a serradio	a connector to RP-TNC connectors to connect a second cond 5-GHz serving radio or Wireless Security Monitoring				
Interfaces	2802I/E 2x100/1000BASE-T autosensing (RJ-45) Management console port (RJ-45) USB 2.0 (enabled via future software)					
Indicators	Status LED indicates boot loader status, association staterrors	atus, operating status, boot loader warnings, boot loader				
Dimensions (W x L x H)	Access point (without mounting brackets): 2802l: 8.66"	x 8.68" x 2.17", 2802E: 8.66" x 8.77" x 2.50"				
Weight	Cisco Aironet 2802i ■ 3.53 lb (1.6 kg) Cisco Aironet 2802e ■ 4.6 lb (2.09 kg)					
Input power requirements	802.3at PoE+, Cisco Universal PoE (Cisco UPOE®) 802.3at power injector (AIR-PWRINJ6=)					
Power draw	 22.5W at the PSE (20W at the PD) with all features enabled except for the USB 2.0 port 26.5W at the PSE (23W at the PD) with the USB 2.0 port enabled 					
Environmental	Cisco Aironet 2802i 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% (noncondensing) Operating altitude test: 40°C, 9843 ft. Cisco Aironet 2802e 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	1024 MB DRAM 256 MB flash					
Warranty	Limited lifetime hardware warranty					
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)				

Item	Specification	
Frequency band and 20-MHz operating channels	A (A regulatory domain): 2.412 to 2.462 GHz; 11 channels 5.180 to 5.320 GHz; 8 channels (excludes 5.600 to 5.640 GHz) 5.745 to 5.825 GHz; 5 channels (excludes 5.600 to 5.640 GHz) 5.745 to 5.825 GHz; 5 channels (excludes 5.600 to 5.640 GHz) 5.745 to 5.825 GHz; 5 channels B (B regulatory domain): 2.412 to 2.462 GHz; 11 channels 5.180 to 5.320 GHz; 8 channels 5.745 to 5.825 GHz; 5 channels 5.180 to 5.320 GHz; 8 channels 5.500 to 5.700 GHz; 8 channels 5.500 to 5.700 GHz; 8 channels 6.5.745 to 5.805 GHz; 13 channels 5.745 to 5.805 GHz; 13 channels 5.745 to 5.805 GHz; 13 channels 5.745 to 5.825 GHz; 5 channels 4.412 to 2.472 GHz; 13 channels 5.745 to 5.825 GHz; 5 channels	I (I regulatory domain): • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels K (K regulatory domain): • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.620 GHz; 7 channels • 5.745 to 5.805 GHz; 4 channels N (N regulatory domain): • 2.412 to 2.462 GHz; 11 channels • 5.180 to 5.320 GHz; 8 channels • 5.745 to 5.825 GHz; 5 channels Q (Q regulatory domain): • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz; 11 channels R (R regulatory domain): • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.180 to 5.320 GHz; 8 channels • 5.660 to 5,805 GHz; 7 channels S (S regulatory domain): • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.320 GHz; 8 channels • 5.180 to 5.320 GHz; 8 channels • 5.180 to 5.320 GHz; 11 channels • 5.180 to 5.320 GHz; 3 channels T (T regulatory domain): • 2.412 to 2.462 GHz; 11 channels • 5.745 to 5.825 GHz; 5 channels T (T regulatory domain): • 2.412 to 2.462 GHz; 11 channels • 5.280 to 5.320 GHz; 8 channels • 5.500 to 5.700 GHz; 8 channels • 5.415 to 5.825 GHz; 5 channels 2 (z regulatory domain): • 2.412 to 2.462 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 2 (Z regulatory domain): • 2.412 to 2.462 GHz; 11 channels • 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)
	oonsible for verifying approval for use in their indiv to a particular country, visit https://www.cisco.com	idual countries. To verify approval and to identify the regulatory /go/aironet/compliance.
Maximum number of nonoverlapping channels	2.4 GHz • 802.11b/g: • 20 MHz: 3 • 802.11n: • 20 MHz: 3	5 GHz ■ 802.11a: □ 20 MHz: 25 FCC, 16 EU ■ 802.11n: □ 20 MHz: 25 FCC, 16 EU □ 40 MHz: 12 FCC, 7 EU □ 20 MHz: 25 FCC, 16 EU □ 40 MHz: 7 FCC, 7 EU □ 80 MHz: 6 FCC, 3 EU □ 160 MHz 2 FCC, 1 EU
Note: This varies by regu	latory domain. Refer to the product documentation	for specific details for each regulatory domain.
Compliance standards	 UL 60950-1 CAN/CSA-C22.2 No. 60950-1 UL 2043 IEC 60950-1 EN 60950-1 	

Item		Specification							
 EN 50155 for 2800e (Operating temperature -20° to 50°C) 									
		Radio approvals:							
		FCC Part 15.107, 15.109, 15.247, 15.407, 14-30							
		RSS-247 (Canada)							
		 EN 300.328, EN 301.893 (Europe) 							
		ARIB-STD 66	6 (Japan)						
		ARIB-STD T	71 (Japan)						
		EMI and sus	ceptibility (Class B)						
		ICES-003 (Canada)							
		 VCCI (Japan 	1)						
		 EN 301.489-1 and -17 (Europe) 							
		∘ EN 60601-1-	2 EMC requirement	s for the Medical Dire	ective 93/42/EEC				
		IEEE standards	S:						
		∘ IEEE 802.11	a/b/g, 802.11n, 802.	.11h, 802.11d					
		∘ IEEE 802.11	ac						
		Security:							
		。 802.11i, Wi-F	Fi Protected Access	2 (WPA2), WPA					
		。 802.1X							
		Advanced Er	ncryption Standards	(AES)					
			hentication Protocol						
			ort Layer Security (T						
		EAP-Tunnel	ed TLS (TTLS) or M	icrosoft Challenge Ha	andshake Authentica	ation Protocol Versic	on 2 (MCSHAPv2)		
			AP (PEAP) v0 or EAI	_			,		
				Secure Tunneling (F	AST)				
			EAP-Generic Token		,				
	 EAP-Subscriber Identity Module (SIM) Multimedia: 								
		Wi-Fi Multime	edia (WMM)						
		• Other:							
		FCC Bulletin OET-65C							
		∘ RSS-102							
Data ratas si	unnorted		and 11 Mbna						
Data rates si	upported	802.11b: 1, 2, 5.5, and 11 Mbps 802.11a/a: 6.9.12.18.24.36.48. and 54 Mbps							
		802.11a/g: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps							
		802.11n HT20: 6.5 to 216.7 Mbps (MCS0 to MCS23)							
		802.11n HT40: 13.5 to 450 Mbps (MCS0 to MCS23)							
		802.11ac VHT20: 6.5 to 288.9 Mbps (MCS0 to 8 – SS 1, MCS0 to 9 – SS 2 and 3)							
		802.11ac VHT40: 13.5 to 600 Mbps (MCS0 to 9 – SS 1 to 3)							
802.11ac VHT80: 29.3 to 1300 Mbps (MCS0 to 9 – SS 1					•	20.0)			
			: 58.5 to 2304 Mbps	(MCS0 to 9 – SS 1 a	and 2, MCS0 to 8 – 8	3 S 3)			
		eive sensitivity							
Spatial streams		5-GHz radio		2.4-GHz flexible ra		5-GHz flexible rad	lio		
		Total Tx power (dBm)	Rx sensitivity (dBm)	Total Tx power (dBm)	Rx sensitivity (dBm)	Total Tx power (dBm)	Rx sensitivity (dBm)		
802.11/11b									
1 Mbps	1	NA	NA	23	-101	NA	NA		
44 Mb	1	NA	NA	23	-88	NA			
11 Mbps				23	-00	INA	NA		

Item	em Specification								
802.11a/g									
6 Mbps	1	23	-93	23	-91	23	-92		
24 Mbps	1	23	-89	23	-87	23	-89		
54 Mbps	1	23	-81	23	-77	22	-80		
802.11n HT20									
MCS0	1	23	-93	23	-91	23	-93		
MCS4	1	23	-88	23	-86	23	-87		
MCS7	1	23	-79	23	-77	22	-78		
MCS8	2	23	-93	23	-91	21	-93		
MCS12	2	23	-86	23	-85	23	-86		
MCS15	2	23	-79	23	-77	21	-78		
MCS16	3	23	-93	23	-91	23	-92		
MCS20	3	23	-85	23	-84	22	-84		
MCS23	3	23	-78	23	-76	18	-77		
802.11n HT	10								
MCS0	1	23	-90			23	-89		
MCS4	1	23	-85			23	-84		
MCS7	1	23	-76			23	-75		
MCS8	2	23	-90			23	-89		
MCS12	2	23	-83			23	-83		
MCS15	2	23	-76			21	-76		
MCS16	3	23	-90			23	-89		
MCS20	3	23	-82			23	-81		
MCS23	3	23	-75			20	-74		
802.11ac VH	IT20								
MCS0	1	23	-93			23	-92		
MCS4	1	23	-88			23	-87		
MCS7	1	23	-82			22	-80		
MCS8	1	23	-77			21	-75		
MCS0	2	23	-93			23	-91		
MCS4	2	23	-86			23	-84		
MCS7	2	23	-79			21	-77		
MCS8	2	23	-75			20	-73		
MCS9	2	NA	NA			NA	NA		
MCS0	3	23	-93			23	-91		
MCS4	3	23	-85			22	-83		
MCS7	3	23	-78			20	-76		
MCS8	3	23	-74			19	-72		
MCS9	3	23	-72			18	-70		
802.11ac VHT40									
MCS0	1	23	-90			23	-89		
MCS4	1	23	-85			23	-84		
MCS7	1	23	-78			22	-77		
MCS8	1	23	-75			21	-73		

Item		Specification				
MCS9	1	23	-73		20	-72
MCS0	2	23	-90		23	-89
MCS4	2	23	-83		23	-82
MCS7	2	23	-76		21	-75
MCS8	2	23	-73		20	-72
MCS9	2	23	-71		19	-69
MCS0	3	23	-90		23	-89
MCS4	3	23	-82		23	-80
MCS7	3	23	-74		20	-73
MCS8	3	23	-70		19	-68
MCS9	3	23	-69		18	-67
802.11ac VH	T80					
MCS0	1	23	-87		23	-86
MCS4	1	23	-83		23	-81
MCS7	1	23	-76		22	-74
MCS8	1	23	-72		21	-70
MCS9	1	23	-69		20	-68
MCS0	2	23	-87		23	-86
MCS4	2	23	-80		23	-79
MCS7	2	23	-73		21	-72
MCS8	2	23	-69		20	-68
MCS9	2	23	-67		19	-66
MCS0	3	23	-87		23	-86
MCS4	3	23	-77		23	-77
MCS7	3	23	-72		20	-70
MCS8	3	23	-67		19	-66
MCS9	3	22	-65		18	-64
802.11ac VH	IT160					
MCS0	1	23	-83		23	-83
MCS4	1	23	-78		23	-78
MCS7	1	23	-71		22	-71
MCS8	1	23	-67		21	-68
MCS9	1	23	-66		20	-66
MCS0	2	23	-83		23	-83
MCS4	2	23	-76		23	-76
MCS7	2	23	-69		21	-69
MCS8	2	23	-65		20	-66
MCS9	2	23	-63		19	-63
MCS0	3	23	-82		23	-83
MCS4	3	23	-74		22	-74
MCS7	3	23	-67		20	-68
MCS8	3	23	-62		19	-62



Warranty information

The Cisco Aironet 2800 Series Access Points come with a limited lifetime warranty that provides full warranty coverage of the hardware for as long as the original end user continues to own or use the product. The warranty includes 10-day advance hardware replacement and ensures that software media are defect-free for 90 days. For more details, visit https://www.cisco.com/go/warranty.

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