



Cisco 3504 Wireless Controller

Compact, Highly Scalable, Service-Rich, Resilient, and Flexible Platform
Enables Next-Generation Wireless Networks for Small to Medium-sized Enterprises



 AIR-CT3504-K9

Optimized for 11ac Wave 2	4 Gbps Max Throughput	150 Max APs	3,000 Max Clients	Central Mode	FlexConnect	Mesh	FlexConnect + Mesh	OfficeExtend
1-port mGig	2-port GE PoE+	2-port GE	Fanless	Desktop	Optional Side-by-Side Rack Mount			

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Management Platform	Access Points		Switches	Controllers	Cloud
	Single Point Setup	Mobility Express			
Components	<p>Wireless Access Points (WAP)</p>	<p>Aironet Access Points</p>	<p>Catalyst Switches</p> <p>Aironet Access Points</p>	<p>Wireless Controllers</p> <p>Aironet Access Points</p>	<p>Meraki MR Cloud Managed Access Points</p>
Highlights	<ul style="list-style-type: none"> Supports 16 APs (500 Series WAP) No license requirement 	<ul style="list-style-type: none"> Supports 100 APs, 2,000 clients (Aironet 2800/3800) No license requirement 	<ul style="list-style-type: none"> Supports 100 APs, 2,000 clients (Catalyst 3850) Converged wired and wireless access for operational simplicity and scale 	<ul style="list-style-type: none"> Supports 150 APs, 3,000 clients (WC 3504) Supports various deployment modes: central, distributed, and mesh 	<ul style="list-style-type: none"> Provides unified visibility and control of the entire network via a single dashboard: not only wireless, but also switching, and security appliances
Cisco Start Products	<ul style="list-style-type: none"> Cisco 100 Series Wireless Access Points (WAP)*1 Cisco 300 Series Wireless Access Points (WAP) Cisco 500 Series Wireless Access Points (WAP) 	<ul style="list-style-type: none"> Cisco Aironet 1800 Series*2 Cisco Aironet 2800 Series Cisco Aironet 3800 Series 	<ul style="list-style-type: none"> Cisco Catalyst 3650 Series Cisco Catalyst 3850 Series 	<ul style="list-style-type: none"> Cisco 3504 Wireless Controller Cisco Aironet 1800 Series Cisco Aironet 2800 Series Cisco Aironet 3800 Series 	<ul style="list-style-type: none"> Cisco Meraki MR20 Cisco Meraki MR30H Cisco Meraki MR33 Cisco Meraki MR42 Cisco Meraki MR42E

*1 Cisco WAP125/131 do not support Single Point Setup.

*2 Cisco Aironet 1815t does not support Mobility Express.

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High-Performance, Easy-to-Deploy, and Highly Secure Business-Class Wireless

Today Wi-Fi is the primary way for mobile access; small to medium-sized businesses are now looking for simple, yet easy-to-deploy Wi-Fi networks where they can provide the best experience to their employees and customers. To stay productive, they need dependable, business-class access to network applications throughout the office.

The **Cisco Wireless Access Points (WAP)** provide a simple, cost-effective way to extend highly secure, high-performance mobile networking to your employees and guests, so they can stay connected anywhere in the office, regardless of what mobile devices they use.



Highlights

- IEEE 802.11ac Wave 2-compatible (WAP581)
- IEEE 802.11ac Wave 1-compatible (most models)
- Multigigabit uplink (WAP581)
- Dual GE uplinks (WAP571/581)
- PoE/PoE+ input (all models)
- PoE output (WAP361)
- Built-in managed switch (WAP361)
- Integrated wireless spectrum analysis tool (WAP581)
- Single Point Setup for easy, cost-effective deployment of multiple access points (most models)
- Easy to set up and use with wizard-based configuration (all models)

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1.7 Gbps			 WAP581
1.3 Gbps		 WAP571  WAP571E  WAP371	
867 Mbps		 WAP125  WAP361  WAP150	
300 Mbps	 WAP121  WAP131		
	11n	11ac Wave 1	11ac Wave 2

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Cisco 100 Series Wireless Access Points (WAP)

Product SKU	Service (CSE) SKU	IEEE 802			2.4 GHz	5 GHz	Concurrent Radios	Active Clients per Radio	APs per Cluster (SPS)	Ports			PoE (PD) ^{*1}		AC Power
		11n	11ac Wave 1	11ac Wave 2						FE	GE	mGig	802.3af	802.3at	
WAP121-x-K9-xx	-	●	-	-	●	-	-	16	4	1	-	-	●	●	External
WAP125-x-K9-xx	CON-SMBS-WAP12K9x	●	●	-	●	●	-	16	-	-	1	-	●	●	External
WAP131-x-K9-xx	CON-SMBS-WAP131AK	●	-	-	●	●	●	16	-	-	1	-	●	●	External
WAP150-x-K9-xx	CON-SMBS-WAP159xx	●	●	-	●	●	●	16	4	-	1	-	●	●	External

*1 Power Adapter (included) or Power Injector is required when not using PoE receiving.

Cisco 300 Series Wireless Access Points (WAP)

Product SKU	Service (CSE) SKU	IEEE 802			2.4 GHz	5 GHz	Concurrent Radios	Active Clients per Radio	APs per Cluster (SPS)	Ports			PoE (PD) ^{*1}		AC Power
		11n	11ac Wave 1	11ac Wave 2						FE	GE	mGig	802.3af	802.3at	
WAP361-x-K9	CON-SMBS-WAP361xK	●	●	-	●	●	●	32	8	-	5 ^{*2}	-	● ^{*3}	●	External
WAP371-x-K9	CON-SMBS-WAP71xK9	●	●	-	●	●	●	32	8	-	1	-	● ^{*3}	●	External

*1 Power Adapter or Power Injector is required when not using PoE receiving.

*2 GE PoE (PSE) x 1 is included. *3 Some features are disabled when powered via 802.3af PoE.

Cisco 500 Series Wireless Access Points (WAP)

Product SKU	Service (CSE) SKU	IEEE 802			2.4 GHz	5 GHz	Concurrent Radios	Active Clients per Radio	APs per Cluster (SPS)	Ports			PoE (PD) ^{*1}		AC Power
		11n	11ac Wave 1	11ac Wave 2						FE	GE	mGig	802.3af	802.3at	
WAP571-x-K9	CON-SMBS-WAP57xK9	●	●	-	●	●	●	64	16	-	2	-	● ^{*2}	●	-
WAP571E-x-K9	CON-SMBS-WAP571Ex	●	●	-	●	●	●	64	16	-	2	-	● ^{*2}	●	-
WAP581-x-K9	CON-SMBS-WAP581xK	●	●	●	●	●	●	64	16	-	1	1	● ^{*2}	●	-

*1 Power Adapter or Power Injector is required when not using PoE receiving.

*2 Some features are disabled when powered via 802.3af PoE.

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Industry-Leading Wireless Performance

Ideal for small and medium-sized networks, the Cisco Aironet Access Points deliver industry-leading wireless performance with support for the latest Wi-Fi standard, IEEE's new 802.11ac Wave 2 specification, and meet the growing requirements of wireless networks by delivering a better user experience. For organizations paving the way for the new 11ac Wave 2 standard, the Cisco Aironet Access Points are the perfect solution. The access points go beyond getting ready for the new standard, providing the ultimate in flexibility and versatility.

Highlights

- IEEE 802.11ac Wave 2-compatible (all models)
- Dual 5-GHz radios allowing an industry-leading 5.2 Gbps (2 x 2.6 Gbps) over-the-air speeds (Aironet 2800/3800)
- Cisco High Density Experience (HDX) including features such as custom hardware in 11ac Wave 2 radios, Cisco CleanAir, Cisco ClientLink 4.0, cross-access point noise reduction, and an optimized client roaming experience (Aironet 2800/3800)
- Multigigabit uplink (Aironet 3800)
- Dual GE uplinks (Aironet 1850/2800/3800)
- PoE/PoE+ input (all models)
- PoE output (Aironet 1815t/w)
- Built-in managed switch (Aironet 1815t/w)
- Cisco Mobility Express for easy, cost-effective deployment of multiple access points (most models)



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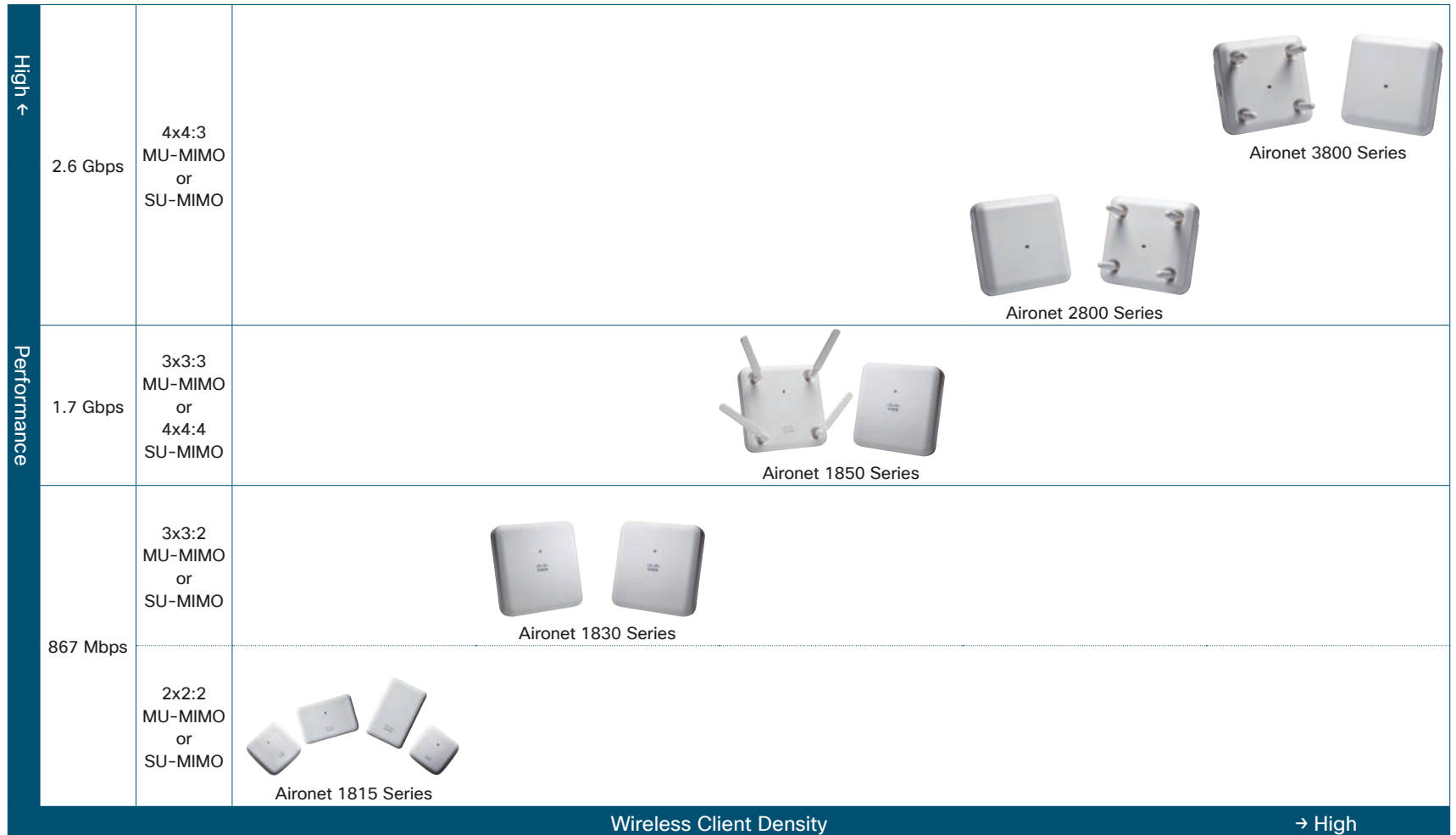
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Cisco Aironet 1815 Series

Product SKU	Service (CSE) SKU	Default Mode ^{*1}		IEEE 802			HDX	Maximum Clients		Ports		PoE (PD) ^{*2}		Antenna
		ME Master	Controller based	11n	11ac Wave 1	11ac Wave 2		w/o ClientLink	with ClientLink	GE	mGig	802.3af	802.3at	
AIR-AP1815I-x-K9C	CON-SMBS-xxxx	●	-	●	●	●	-	400	-	1	-	●	●	Internal
AIR-AP1815I-x-K9	CON-SMBS-xxxx	-	●	●	●	●	-	400	-	1	-	●	●	Internal
AIR-AP1815M-x-K9C	CON-SMBS-xxxx	●	-	●	●	●	-	400	-	1	-	●	●	Internal
AIR-AP1815M-x-K9	CON-SMBS-xxxx	-	●	●	●	●	-	400	-	1	-	●	●	Internal
AIR-AP1815T-x-K9	CON-SMBS-xxxx	-	● ^{*3}	●	●	●	-	400	-	4 ^{*4}	-	-	-	Internal
AIR-AP1815W-x-K9C	CON-SMBS-xxxx	●	-	●	●	●	-	400	-	4 ^{*4}	-	● ^{*5}	●	Internal
AIR-AP1815W-x-K9	CON-SMBS-xxxx	-	●	●	●	●	-	400	-	4 ^{*4}	-	● ^{*5}	●	Internal

*1 Mode migration is supported. *2 Power Adapter or Power Injector is required when not using PoE receiving.

*3 Mode migration is not supported. *4 Local GE x 2 and PoE power supplying local GE x 1 are included.

*5 Some features are disabled when powered via 802.3af PoE.

Cisco Aironet 1830 Series

Product SKU	Service (CSE) SKU	Default Mode ^{*1}		IEEE 802			HDX	Maximum Clients		Ports		PoE (PD) ^{*2}		Antenna
		ME Master	Controller based	11n	11ac Wave 1	11ac Wave 2		w/o ClientLink	with ClientLink	GE	mGig	802.3af	802.3at	
AIR-AP1832I-x-K9C	CON-SMBS-xxxx	●	-	●	●	●	-	400	-	1	-	● ^{*3}	●	Internal
AIR-AP1832I-x-K9	CON-SMBS-xxxx	-	●	●	●	●	-	400	-	1	-	● ^{*3}	●	Internal

*1 Mode migration is supported. *2 Power Adapter or Power Injector is required when not using PoE receiving.

*3 Some features are disabled when powered via 802.3af PoE.

Cisco Aironet 1850 Series

Product SKU	Service (CSE) SKU	Default Mode ^{*1}		IEEE 802			HDX	Maximum Clients		Ports		PoE (PD) ^{*2}		Antenna
		ME Master	Controller based	11n	11ac Wave 1	11ac Wave 2		w/o ClientLink	with ClientLink	GE	mGig	802.3af	802.3at	
AIR-AP1852I-x-K9C	CON-SMBS-xxxx	●	-	●	●	●	-	400	-	2	-	● ^{*3}	●	Internal
AIR-AP1852I-x-K9	CON-SMBS-xxxx	-	●	●	●	●	-	400	-	2	-	● ^{*3}	●	Internal
AIR-AP1852E-x-K9C	CON-SMBS-xxxx	●	-	●	●	●	-	400	-	2	-	● ^{*3}	●	External
AIR-AP1852E-x-K9	CON-SMBS-xxxx	-	●	●	●	●	-	400	-	2	-	● ^{*3}	●	External

*1 Mode migration is supported. *2 Power Adapter or Power Injector is required when not using PoE receiving.

*3 Some features are disabled when powered via 802.3af PoE.

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Cisco Aironet 2800 Series

Product SKU	Service (CSE) SKU	Default Mode ^{*1}		IEEE 802			HDX	Maximum Clients		Ports		PoE (PD) ^{*2}		Antenna
		ME Master	Controller based	11n	11ac Wave 1	11ac Wave 2		w/o ClientLink	with ClientLink	GE	mGig	802.3af	802.3at	
AIR-AP2802I-x-K9C	-	●	-	●	●	●	●	400	256	2	-	● ^{*3}	●	Internal
AIR-AP2802I-x-K9	-	-	●	●	●	●	●	400	256	2	-	● ^{*3}	●	Internal
AIR-AP2802E-x-K9C	-	●	-	●	●	●	●	400	256	2	-	● ^{*3}	●	External
AIR-AP2802E-x-K9	-	-	●	●	●	●	●	400	256	2	-	● ^{*3}	●	External

*1 Mode migration is supported. *2 Power Injector is required when not using PoE receiving.

*3 Some features are disabled when powered via 802.3af PoE.

Cisco Aironet 3800 Series

Product SKU	Service (CSE) SKU	Default Mode ^{*1}		IEEE 802			HDX	Maximum Clients		Ports		PoE (PD) ^{*2}		Antenna
		ME Master	Controller based	11n	11ac Wave 1	11ac Wave 2		w/o ClientLink	with ClientLink	GE	mGig	802.3af	802.3at	
AIR-AP3802I-x-K9C	-	●	-	●	●	●	●	400	256	1	1	● ^{*3}	●	Internal
AIR-AP3802I-x-K9	-	-	●	●	●	●	●	400	256	1	1	● ^{*3}	●	Internal
AIR-AP3802E-x-K9C	-	●	-	●	●	●	●	400	256	1	1	● ^{*3}	●	External
AIR-AP3802E-x-K9	-	-	●	●	●	●	●	400	256	1	1	● ^{*3}	●	External
AIR-AP3802P-x-K9C	-	●	-	●	●	●	●	400	256	1	1	● ^{*3}	●	External
AIR-AP3802P-x-K9	-	-	●	●	●	●	●	400	256	1	1	● ^{*3}	●	External

*1 Mode migration is supported. *2 Power Injector is required when not using PoE receiving.

*3 Some features are disabled when powered via 802.3af PoE.

 What is Meant by a "x" Included in the SKU

Country ^{*1}	Australia	Brunei	China	Fiji	Hong Kong	India	Indonesia	Japan	Korea	Macau
x (Regulatory Domain)	Z	S	H	N	N, S	D, N	F	Q	K	C, S

Country ^{*1}	Malaysia	Mongolia	New Zealand	Pakistan	Philippines	Singapore	Sri Lanka	Taiwan	Thailand	Vietnam
x (Regulatory Domain)	C, K	E, H	Z	C, G	A	S	E	T	E, S	E, S

*1 Customers are responsible for verifying approval for use in their individual countries.

To verify approval that corresponds to a particular country, or the regulatory domain used in a specific country, see <http://www.cisco.com/go/aironet/compliance>. Not all models available for all regulatory domains. Not all regulatory domains have been approved. As they are approved, the SKU will be available on the Global Price List.

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Cisco Aironet Power Injectors & Power Supplies

Product SKU	Description	Compatible Models											
		1815i	1815m	1815t	1815w	1830i	1850i	1850e	2800i	2800e	3800i	3800e	3800p
AIR-PWRINJ5=	Power Injector (802.3af)	●	●	-	●	●*1	●*1	●*1	-	-	-	-	-
AIR-PWRINJ6=	Power Injector (802.3af)	●	●	-	●	●	●	●	●	●	●	●	●
AIR-PWR-C=	Power Supply (Black)	-	-	-	-	●	●	●	-	-	-	-	-
AIR-PWR-D=	Power Supply (White)	-	-	●	-	●	●	●	-	-	-	-	-
AIR-PWR-50=	Power Supply (White)	-	-	-	-	-	-	-	-	-	●	●	●

*1 Some features are disabled.

Cisco Aironet Antennas

Product SKU	Description	Compatible Models											
		1815i	1815m	1815t	1815w	1830i	1850i	1850e	2800i	2800e	3800i	3800e	3800p
AIR-ANT2524DB-R	Dual-Band Dipole Antenna (Black)	-	-	-	-	-	-	●	-	●	-	●	●
AIR-ANT2524DG-R	Dual-Band Dipole Antenna (Gray)	-	-	-	-	-	-	●	-	●	-	●	●
AIR-ANT2524DW-R	Dual-Band Dipole Antenna (White)	-	-	-	-	-	-	●	-	●	-	●	●
AIR-ANT2535SDW-R	Short Dual-Band Omni Antenna (White)	-	-	-	-	-	-	●	-	●	-	●	●
AIR-ANT2524V4C-R	Dual-Band Ceiling Mount Omnidirectional Antenna	-	-	-	-	-	-	●	-	●	-	●	●
AIR-ANT2544V4M-R	Dual-Band Wall-Mounted Omnidirectional Antenna	-	-	-	-	-	-	●	-	●	-	●	●
AIR-ANT2566P4W-R	Dual-Band Patch Antenna	-	-	-	-	-	-	●	-	●	-	●	●
AIR-ANT2566D4M-R	Dual-Band Polarization-Diverse Directional Array Antenna	-	-	-	-	-	-	●	-	●	-	●	●
AIR-ANT2513P4M-N	Dual-Band Polarization-Diverse Array Antenna	-	-	-	-	-	-	-	-	-	-	-	●

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Centralized Control, Management, and Troubleshooting for Small to Medium-Sized Wireless Networks

The Cisco Wireless Controllers provide centralized control, management, and troubleshooting for small to medium-sized enterprises and branch offices. They offer flexibility to support multiple deployment modes in the same controller—a centralized mode for campus environments, Cisco FlexConnect mode for lean branches managed over the WAN, and a mesh (bridge) mode for deployments in which full Ethernet cabling is unavailable.

Highlights

- Flexibility to configure wireless policy, management or security settings at any time
- Faster response to business needs by centrally managing wireless networks
- Standardized access point configuration for software versioning
- Networkwide quality of service (QoS) for voice and video across wired and wireless networks
- Networkwide centralized security policies across wired and wireless networks



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<p>Appliance</p>	    <p>3504 Wireless Controller 5520 Wireless Controller 8540 Wireless Controller</p>		
<p>Virtual Machine</p>	 <p>Virtual Wireless Controller</p>		
<p>Switch</p>	  <p>Catalyst 3650 Series Catalyst 3850 Series</p>		
<p>Access Point Mobility Express</p>	    <p>Aironet 1815/1830/1850 Series Aironet 2800/3800 Series</p>		
<p>Maximum Access Points → More</p>			

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Cisco Aironet 1815/1830/1850/2800/3800 Series Access Points

Series Name	Deployment Mode						Managed Access Points		Clients	RF Tags	Through-put	Ports ^{*1}		Rack Mount
	Central	Flex Connect	Mesh	Flex Connect + Mesh	Office Extend	Mobility Express	Default	Maximum				GE	mGig	
Aironet 1815/1830/1850	-	-	-	-	-	●	50	50	1,000	-	1 Gbps	-	-	-
Aironet 2800/3800	-	-	-	-	-	●	100	100	2,000	-	1 Gbps	-	-	-

*1 Depends on models.

Cisco 3504 Wireless Controller

Product SKU	Service (CSE) SKU	Deployment Mode						Managed Access Points		Clients	RF Tags	Through-put	Ports		Rack ^{*1} Mount
		Central	Flex Connect	Mesh	Flex Connect + Mesh	Office Extend	Mobility Express	Default	Maximum				GE	mGig	
AIR-CT3504-K9	-	●	●	●	●	●	-	0	150	3,000	1,500	4 Gbps	4	1	1 RU

*1 Rack Mount Bracket (AIR-3504-RMNT=) is required.

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Cisco 3504 Wireless Controller License*1

Product SKU	Description
LIC-CT3504-1A	1 Access Point Adder License

*1 LIC-CT3504-UPG is required in CCW.

Cisco 3504 Wireless Controller Rack Mount Bracket

Product SKU	Description
AIR-3504-RMNT=	Rack Mount Bracket



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100 % Cloud Managed for Faster Deployment, Simplified Administration, and Richer Visibility

The Cisco Meraki MR Cloud Managed Access Points are built from the highest grade components and carefully optimized for a seamless user experience. The outcome: faster connections, greater user capacity, more coverage, and fewer support calls.

The Cisco Meraki wireless solution includes a complete, robust feature set right out of the box. No additional purchase required.

Highlights

- **Centralized Management:** Seamlessly manage campus-wide Wi-Fi deployments and distributed multi-site networks from a single pane-of-glass.
- **Multigigabit Ethernet:** Pass 2.5Gbps of traffic over a single cable in order to take full advantage of high speed 802.11ac Wave 2 wireless.
- **Location Analytics:** Reveal powerful metrics such as visitor capture rate, user visit time, and repeat visits by listening for wireless devices.
- **Application Visibility & Control:** Identify which applications are being used, and then prioritize critical apps while limiting recreational apps.
- **High Capacity 802.11ac:** RF optimization with real-time spectrum analysis enables high performance wireless in dense, demanding environments.
- **Automatic RF Optimization:** Automatically optimize Wi-Fi by measuring channel utilization, signal strength, throughput, and interference.
- **Dedicated Security Radio:** Instantly detects interference, vulnerabilities, and attacks on all channels.
- **Identity-Based Firewall:** Automatically assigns firewall and traffic shaping rules, VLAN tags, and bandwidth limits to enforce the right policies for each class of users.



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High ←	1,733 Mbps (5 GHz) + 800 Mbps (2.4 GHz)	4x4:4 MU-MIMO or SU-MIMO	 <p>MR53 MR53E</p>	
			 <p>MR52</p>	
	Performance	1,300 Mbps (5 GHz) + 600 Mbps (2.4 GHz)	3x3:3 MU-MIMO or SU-MIMO	 <p>MR42</p>
866 Mbps (5 GHz) + 400 Mbps (2.4 GHz)		2x2:2 MU-MIMO or SU-MIMO	 <p>MR30H</p>	
			 <p>MR33</p>	
	 <p>MR20</p>			
Wireless Client Density → High				

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Product SKU	Cloud Management	IEEE 802			2.4 GHz	5 GHz	Concurrent Radios	WIDS/WIPS	Bluetooth Low Energy	Ports		PoE (PD) ^{*1}		Antenna
		11n	11ac Wave 1	11ac Wave 2						GE	mGig	802.3af	802.3at	
MR20-HW	●	●	●	●	●	●	●	-	-	1	-	●	●	Internal
MR30H-HW	●	●	●	●	●	●	●	●	-	5 ^{*1}	-	● ^{*2}	●	Internal
MR33-HW	●	●	●	●	●	●	●	●	●	1	-	●	●	Internal
MR42-HW	●	●	●	●	●	●	●	●	●	1	-	● ^{*2}	●	Internal
MR42E-HW	●	●	●	●	●	●	●	●	●	1	-	● ^{*2}	●	External

*1 Local GE x 3 and PoE power supplying local GE x 1 are included.

*2 Some features are disabled when powered via 802.3af PoE.

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Cisco Meraki MR Cloud Managed Access Points Enterprise Licenses

Product SKU	Description	Compatible Models				
		MR20	MR30H	MR33	MR42	MR42E
LIC-ENT-1YR	License and Support, 1-Year	●	●	●	●	●
LIC-ENT-3YR	License and Support, 3-Years	●	●	●	●	●
LIC-ENT-5YR	License and Support, 5-Years	●	●	●	●	●
LIC-ENT-7YR	License and Support, 7-Years	●	●	●	●	●
LIC-ENT-10YR	License and Support, 10-Years	●	●	●	●	●

Cisco Meraki MR Cloud Managed Access Points Injectors & Power Supplies

Product SKU	Description	Compatible Models				
		MR20	MR30H	MR33	MR42	MR42E
MA-INJ-4-xx	PoE Injector (802.3at)	●	●	●	●	-
MA-INJ-5-xx	Multigigabit PoE Injector (802.3at)	-	-	-	-	●
MA-PWR-30W-xx	Power Supply	●	-	●	●	●

Cisco Meraki MR Cloud Managed Access Points Antennas

Product SKU	Description	Compatible Models				
		MR20	MR30H	MR33	MR42	MR42E
MA-ANT-3-A5	Dipole Antenna	-	-	-	-	●
MA-ANT-3-B5	Dipole Antenna (Bendable)	-	-	-	-	●
MA-ANT-3-C5	Panel Omni Antenna	-	-	-	-	●
MA-ANT-3-D5	Downtilt Panel Omni Antenna	-	-	-	-	●
MA-ANT-3-E5	Wide Patch Antenna	-	-	-	-	●
MA-ANT-3-F5	Narrow Patch Antenna	-	-	-	-	●

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