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Overview

Cisco 8500 Series Wireless Controllers are a highly scalable and flexible platform that enables mission-critical wireless networking for enterprise and service provider deployments. AIR-CT8510-300-K9 supports 300 APs.

Quick Specs

Figure 1 shows the appearance of AIR-CT8510 controller.



Table 1 shows the Quick Specs.

Product Code	AIR-CT8510-300-K9
Description	Cisco 8500 Series Wireless Controller Supporting 300 Aps
Features (Cisco 8500 Series)	<ul style="list-style-type: none"> - Supports 100,300, 500, 1000, 3000, or 6000 access points - Supports up to 64,000 clients with licenses - Supports up to 6000 branch locations (up to 2000 Cisco FlexConnect groups) with 100 access points per Flexgroup and multiple Flex-groups per remote location - Supports up to 4096 VLANs
Interfaces	<ul style="list-style-type: none"> - 2 x 10 Gigabit Ethernet interfaces - Small Form-Factor Pluggable (SFP) options - LED indicators: Network Link, Diagnostics - 1 x service port: 10/100/1000 Mbps Ethernet (RJ-45)
Wireless	IEEE 802.11a, 802.11b, 802.11g, 802.11d, WMM/802.11e, 802.11h, 802.11n, 802.11k, 802.11r, 802.11u, 802.11w, 802.11ac
Dimensions (W x L x H)	17.30 x 28.00 x 1.69 in. (440.0 x 711.4 x 43.0 mm)
Net Weight	35.1 lb (15.9 kg)

Product Details

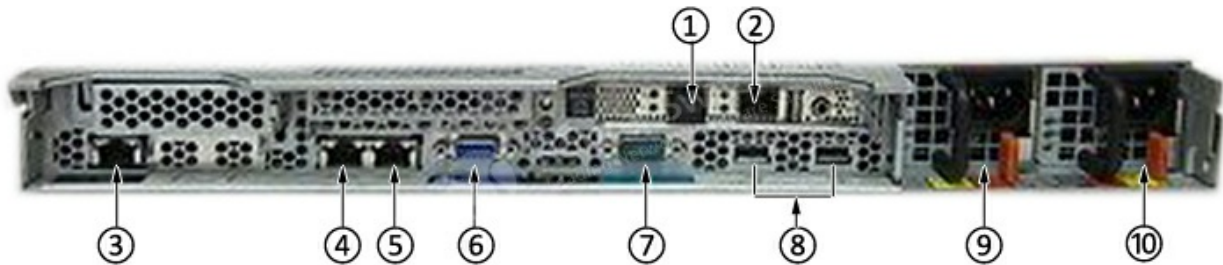
Figure 2 shows the front panel of AIR-CT8510 controller.



Note

(1)	Drive Bay 0	(6)	USB 1 Connector
(2)	Drive Bay 2	(7)	Optical Drive Eject Button
(3)	Video Connector	(8)	Optical Drive Bay
(4)	Power Control Button and LED	(9)	Drive Bay 3
(5)	USB 2 Connector	(10)	Drive Bay 1

Figure 3 shows the back panel of AIR-CT8510 controller.



Note

(1)	10G Port 1	(6)	Video Connector
(2)	10G Port 2	(7)	Serial Connector
(3)	IMM 10/100Mbps Ethernet Port	(8)	USB Connectors
(4)	Service Port	(9)	Power Supply 1
(5)	HA Port	(10)	Power Supply 2

- The Integrated Management Module (IMM) combines service processor functions. The IMM provides advanced service-processor control, monitoring, and alerting function. If an environmental condition exceeds a threshold or if a system component fails, the IMM lights LEDs to help you diagnose the problem, records the error in the event log, and alerts you to the problem. The IMM provides remote server management through the following industry-standard interfaces:

- Simple Network Management Protocol (SNMP) version 3
- Web browser

The SFP Support

Table 2 shows some recommended SFP for this wireless controller.

SFP	Description
SFP-10G-SR	10GBASE-SR SFP Module
SFP-10G-LR	10GBASE-LR SFP+ Module for SMF 10 Gbps
SFP-H10GB-CU1M	Cisco Direct-Attach Twinax Copper Cable Assembly with SFP+ Connectors, SFP-H10GB-CU1M
SFP-H10GB-CU3M	Cisco Direct-Attach Twinax Copper Cable Assembly with SFP+ Connectors, SFP-H10GB-CU3M
SFP-H10GB-CU5M	SFP-H10GB-CU5M,5M Passive Copper Twinax Cable F, Nexus,24AWG cable assembly

Compare to Similar Items

Table 3 shows the comparison of similar items.

Models	AIR-CT8510-100-K9	AIR-CT8510-300-K9
Max Access Points with licenses	6000	6000
Max Client Support with licenses	64,000	64,000
Ports	2 x 10G SFP	2 x 10G SFP
Bundle	100 Access Points	300 Access Points

Get more information

Do you have any question about the AIR-CT8510-300-K9?

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Specification

AIR-CT8510-300-K9 Specification	
Maximum throughput:	10 Gbps
Link Aggregation Group (LAG):	Yes
Form factor:	1 RU Appliance
Flexconnect + mesh:	Yes
Max WLANs:	512
Maximum access point:	6,000
Interfaces or network I/O:	Two 10 GE
Access control lists (ACLs):	Yes
Radio Resource Management (RRM):	Yes
Bonjour Gateway:	Yes
Mesh:	Yes
Max Power consumption:	675W
Cisco VideoStream:	Yes
OfficeExtend:	Yes

Rendundant power:	Yes (installed) AC or DC
Guest anchor:	Yes
Workgroup bridge:	Yes
Max Number of Flex Groups:	2,000
Guest services (wireless):	Yes
Minimum access points:	100
Maximum RF Tag support:	50,000
QoS:	Yes
Application Visibility and Control (AVC):	Yes
HA with Client SSO:	Yes
Max Access Points per Group:	100
Datagram Transport Layter Security (DTLS):	Yes
Cisco Compatible Extensions Call Admission Control (CAC)/Wi-Fi Multimedia (WMM):	Yes
HA with AP SSO:	Yes
Bi-directional rate limiting:	Yes
Max VLANs:	4096
Rendundant fans:	Yes
Integrated Wireless Policy Engine:	Yes
Maximum client support:	64,000
Central Mode (formerly Local Mode):	Yes
Max Number of access point groups:	6,000
Mobililty:	L2 & L3
FlexConnect:	Yes

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