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Overview

Optimized for 802.11ac Wave2 performance, the Cisco 8540 Wireless Controller is a highly scalable, service-rich, resilient, and flexible platform that enables next-generation wireless networks for medium-sized to large enterprise and campus deployments.

Quick Specification

Figure 1 shows the appearance of AIR-CT8540 controller with cover.

Table 1 shows the Quick Specification.

Product Code	AIR-CT8540-K9
Description	Cisco 8540 Wireless Controller with rack mounting kit
Chassis Height	Two rack-unit (2RU)
Throughput	40 Gbps
Max AP Support	6000
Max Client Support	64000
Max VLANs	4096
Data Ports	4 x 10 Gigabit Ethernet interfaces or 4 x 1 Gigabit Ethernet interfaces
Storage	Dual SSD with Hardware RAID
Power Options	1200 W AC, 930 W DC Redundant PSUs
Dimensions (W x L x H)	18.96 x 30.18 x 3.43 in. (48.2 x 76.6 x 8.70 cm)
Net Weight	44 lb (19.9 kg)

Product Details

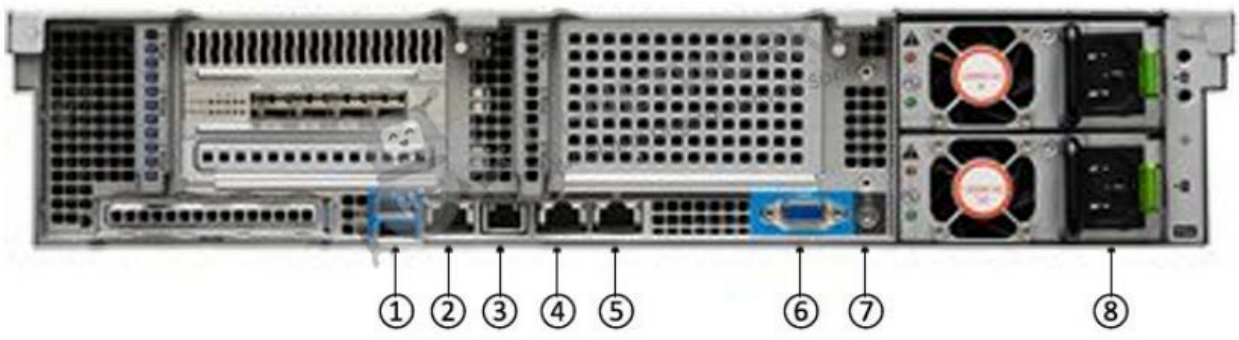
Figure 2 shows the front panel of AIR-CT8540 controller.

Note:

(1)	LEDs Area
(2)	KVM connector

- LEDs include:
  - Power button/power status LED
  - Temperature status LED
  - Locator (Unit identification) button LED
  - Power supply status LED
  - System status LED,
  - Network link activity LED (this indicates the network activity only on Service port, - RP port, and CIMC port)
  - Fan status LED
- KVM connector is used with KVM cable that provides two USB 2.0, one VGA, and one serial connector.

Figure 3 shows the back panel of AIR-CT8540 controller.



Note

(1)	2 × Type A 3.0 USB ports	(5)	Redundancy Port (RP)
(2)	CIMC port 10/100/1000 Base-T	(6)	VGA Connector
(3)	SerialCOM Connector—Standard RS-232 Serial COM port using RJ-45 connector	(7)	ID Switch and LED
(4)	Ethernet Service Port (SP)—Management 10/100/1000 Base-T	(8)	Power Supply

◦ Rear panel has a standard VGA port using a female D-Sub-15 Connector (does not show anything once the Cisco WLC software starts except the initial BIOS parameters. All the prints from this point onwards are available on the serial console).

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-CT8540-K9	AIR-CT8510-100-K9
Max Access Points with licenses	6000	6000
Max Client Support with licenses	64,000	64,000
Ports	4 x 10G SFP+	2 x 10G SFP
Bundle	None	100 Access Points

Get More Information

Do you have any question about the AIR-CT8540-K9?

Contact us now via info@hi-network.com.

Specification

AIR-CT8540-K9 Specification	
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 Wave1 and Wave2
Wired/switching/routing	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX specification, 1000BASE-T. 1000BASE-SX, 1000-BASE-LH, IEEE 802.1Q VLAN tagging, IEEE 802.1AX Link Aggregation
Data request for comments (RFC)	RFC 768 UDP RFC 791 IP RFC 2460 IPv6 RFC 792 ICMP RFC 793 TCP RFC 826 ARP RFC 1122 Requirements for Internet Hosts RFC 1519 CIDR RFC 1542 BOOTP RFC 2131 DHCP RFC 5415 CAPWAP Protocol Specification RFC 5416 CAPWAP Binding for 802.11
Security standards	Wi-Fi Protected Access (WPA) IEEE 802.11i (WPA2, RSN) RFC 1321 MD5 Message-Digest Algorithm RFC 1851 ESP Triple DES Transform RFC 2104 HMAC: Keyed Hashing for Message Authentication RFC 2246 TLS Protocol Version 1.0 RFC 2401 Security Architecture for the Internet Protocol RFC 2403 HMAC-MD5-96 within ESP and AH RFC 2404 HMAC-SHA-1-96 within ESP and AH RFC 2405 ESP DES-CBC Cipher Algorithm with Explicit IV RFC 2407 Interpretation for ISAKMP RFC 2408 ISAKMP RFC 2409 IKE RFC 2451 ESP CBC-Mode Cipher Algorithms RFC 3280 Internet X.509 PKI Certificate and CRL Profile RFC 4347 Datagram Transport Layer Security RFC 5426 TLS Protocol Version 1.2
Encryption	Wired Equivalent Privacy (WEP) and Temporal Key Integrity Protocol-Message Integrity Check (TKIP-MIC): RC440, 104 and 128 bits (both static and shared keys) Advanced Encryption Standard (AES): Cipher Block Chaining (CBC), Counter with CBC-MAC (CCM), Counter with Cipher Block Chaining Message Authentication Code Protocol (CCMP) Data Encryption Standard (DES): DES-CBC, 3DES Secure Sockets Layer (SSL) and Transport Layer Security (TLS): RC4 128-bit and RSA 1024- and 2048-bit DTLS: AES-CBC IPsec: DES-CBC, 3DES, AES-CBC 802.1AE MACsec encryption
Authentication, authorization, and accounting (AAA)	IEEE 802.1X RFC 2548 Microsoft Vendor-Specific RADIUS Attributes RFC 2716 PPP EAP-TLS RFC 2865 RADIUS Authentication RFC 2866 RADIUS Accounting RFC 2867 RADIUS Tunnel Accounting RFC 2869 RADIUS Extensions RFC 3576 Dynamic Authorization Extensions to RADIUS RFC 5176 Dynamic Authorization Extensions to RADIUS RFC 3579 RADIUS Support for EAP

	RFC 3580 IEEE 802.1X RADIUS Guidelines RFC 3748 Extensible Authentication Protocol (EAP) Web-based authentication TACACS support for management users
Management	Simple Network Management Protocol (SNMP) v1, v2c, v3 RFC 854 Telnet RFC 1155 Management Information for TCP/IP-Based Internets RFC 1156 MIB RFC 1157 SNMP RFC 1213 SNMP MIB II RFC 1350 TFTP RFC 1643 Ethernet MIB RFC 2030 SNTP RFC 2616 HTTP RFC 2665 Ethernet-Like Interface types MIB RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual Extensions RFC 2819 RMON MIB RFC 2863 Interfaces Group MIB RFC 3164 Syslog RFC 3414 User-Based Security Model (USM) for SNMPv3 RFC 3418 MIB for SNMP RFC 3636 Definitions of Managed Objects for IEEE 802.3 MAUs Cisco private MIBs
Management Interfaces	Web-based: HTTP/HTTPS Command-line interface: Telnet, Secure Shell (SSH) Protocol, serial port Cisco Prime Infrastructure
Interfaces and Indicators	4 x 10 Gigabit Ethernet interfaces or 4 x 1 Gigabit Ethernet interfaces Small Form-Factor Pluggable Plus (SFP+) options (only Cisco SFP+s supported), including S-Class Optics Small Form-Factor Pluggable (SFP) options (only Cisco SFPs supported), including S-Class Optics 1 x service port: 1 Gigabit Ethernet port (RJ-45) 1 x redundancy port: 1 Gigabit Ethernet port (RJ-45) 1 x Cisco Integrated Management Controller port: 1 10/100/1000 Ethernet (RJ-45) 1 x console port: Serial port (RJ-45) LED indicators: Network Link, Diagnostics
Physical dimensions	Dimensions (WxDxH): 18.96 x 30.18 x 3.43 in. (48.2 x 76.6 x 8.70 cm) including handles Weight: 44 lb (19.9 kg) with 2 power supplies
Environmental Conditions	Air temperature: Appliance operating: 41° to 104°F (5° to 40°C), derate the maximum temperature by 1.0°C per every 1000 ft. (305m) of altitude above sea level Appliance nonoperating: -40° to 149°F (-40° to 65°C) Humidity: Appliance operating: 10% to 90%; noncondensing at 82°F (28°C) Appliance nonoperating: 5% to 93% at 82°F (28°C) Altitude: Appliance operating: 0 to 3,000m (0 to 10,000 ft.) Appliance nonoperating: 0 to 12,192 m (0 to 40,000 ft.) Electrical input: AC input frequency range: 47 to 63 Hz Input voltage range: - Minimum: 90 VAC - Maximum: 264 VAC - Maximum power 538W Heat dissipation: 1836 BTU/hr Sound power level measure: - A-weighted per ISO 7779 LpAm (dBA), operation at 77°F (25°C): 59.4
Regulatory compliance	CE Markings per directives 2004/108/EC and 2006/95/EC Safety: UL 60950-1 Second Edition CAN/CSA-C22.2 No. 60950-1 Second Edition EN 60950-1 Second Edition IEC 60950-1 Second Edition AS/NZS 60950-1 GB4943 2001 EMC - Emissions:

	47CFR Part 15 (CFR 47) Class A AS/NZS CISPR22 Class A EN55022 Class A ICES003 Class A VCCI Class A EN61000-3-2 EN61000-3-3 KN22 Class A CNS13438 Class A EMC - Immunity: EN55024 CISPR24 EN300386 KN24

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