AIR-CT3504-K9 Datasheet

Overview

AIR-CT3504-K9 is the Cisco 3504 Wireless Controller. The Cisco 3504 Wireless Controller provides centralized control, management, and troubleshooting for small to medium-sized enterprises and branch offices. It offers 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. As a component of the Cisco Unified Wireless Network, the 3504 controller provides real-time communications between Cisco Aironet® access points, Cisco Prime® Infrastructure, and the Cisco Mobility Services Engine, and is interoperable with the Cisco 5520 and 8540 Wireless Controllers.

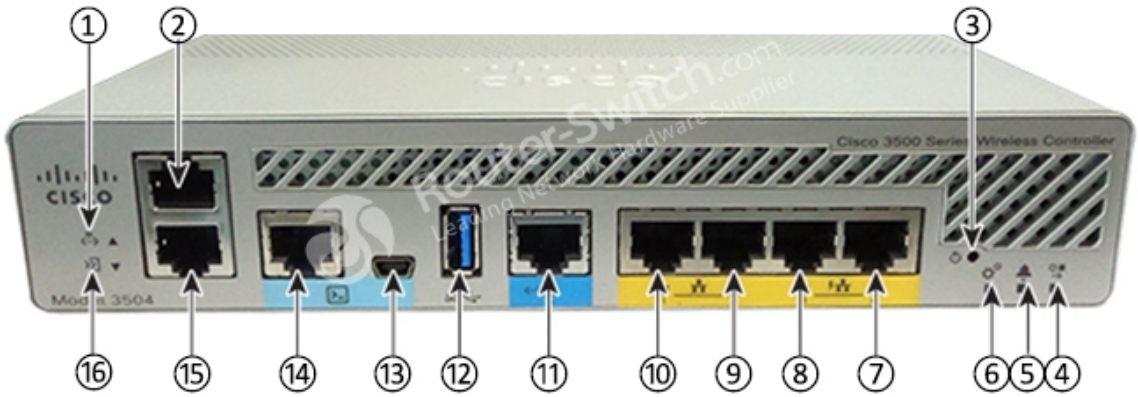
Quick Spec

Table 1 shows the quick spec.

Model	AIR-CT3504-K9
Chassis Height	One rack-unit (1RU)
Throughput	4 Gbps
Number of APs supported	150
Number of clients supported	3000
Processor	Cavium Network Processor—CN7240-AAP 8-core, 1.5 GHz
Memory Options	Control/Data Plane Memory—8GB DDR4 Boot Flash—8MB SPI NOR Serial Boot Bulk Flash—32GB eMMC
Redundancy, Service Ports	2x 1G Cu
Data Ports	1x 5G/mGig Cu, 4x 1G Cu (2 ports 802.3at PSE)

Product Details

Figure 1 shows the front panel of AIR-CT3504-K9.



Note:

(1)	Service Port LED	(9)	GigE port
(2)	Service Port (SP) (RJ-45) for out-of-band management	(10)	GigE port
(3)	Reset button	(11)	1x 5 G/mGig port
(4)	High Availability LED	(12)	Type A 3.0 USB port

(5)	Alarm LED that determines a status or error occurred.	(13)	Mini-B USB console port
(6)	System LED that determines if the system is powered up.	(14)	CPU console port
(7)	GigE PoE PSE port	(15)	Redundancy Port (RP) (RJ-45)
(8)	GigE PoE PSE port	(16)	Redundancy Port LED

The Options

Table 2 shows the recommend optional accessories.

Model	Description
LIC-CT3504-1A	Cisco 3504 Wireless Controller 1 AP Adder License
PWR-115W-AC=	Cisco 3504 Wireless Controller Power Supply
LIC-CT3504-DTLS-K9	Cisco 3504 Wireless Controller DTLS License
LIC-CT3504-UPG	Cisco 3504 Wireless Controller upgrade SKU
LIC-CT3504-1A	Cisco 3504 Wireless Controller 1 access point adder license

Compare to Similar Item

Table 3 shows the comparison.

Model	AIR-CT3504-K9	AIR-CT2504-5-K9
Description	Cisco 3504 Wireless Controller	Cisco 2500 Controller AIR-CT2504-5-K9 2504 Wireless Controller with 5 AP Licenses
Chassis Height	One rack-unit (1RU)	Desktop
Throughput	4 Gbps	1 Gbps
Number of APs supported	150	75
Number of clients supported	3000	1000

Get More Information

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Specification

AIR-CT3504-K9 Specification	
Chassis Height	One rack-unit (1RU)
Throughput	4 Gbps
Number of APs supported	150
Number of clients supported	3000
Processor	Cavium Network Processor—CN7240-AAP 8-core, 1.5 GHz

Memory Options	Control/Data Plane Memory—8GB DDR4 Boot Flash—8MB SPI NOR Serial Boot Bulk Flash—32GB eMMC
Redundancy, Service Ports	2x 1G Cu
Data Ports	1x 5G/mGig Cu, 4x 1G Cu (2 ports 802.3at PSE)
Storage Temperature	–4° F to 158° F (–20° C to 70° C)
Operating Temperature	32° F to 104° F (0° C to 40° C)
Storage Humidity	0% to 95% RH non-condensing
Operating Humidity	5% to 95% RH non-condensing
Power Adapter	54VDC/1.05A, 12VDC/3.75A
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 Wave 1 and Wave 2
Wired, switching, and 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 Internet Control Message Protocol (ICMP) · RFC 793 TCP · RFC 826 Address Resolution Protocol (ARP) · RFC 1122 Requirements for Internet Hosts · RFC 1519 Classless Interdomain Routing (CIDR) · RFC 1542 BOOTP · RFC 2131 Dynamic Host Configuration Protocol (DHCP) · RFC 5415 CAPWAP Protocol · 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 Encapsulating Security Payload (ESP) Triple Data Encryption Standard (3DES) Transform · RFC 2104 HMAC: Keyed Hashing for Message Authentication · RFC 2246 Transport Layer Security (TLS) Protocol Version 1.0 · RFC 2401 Security Architecture for the Internet Protocol · RFC 2403 HMAC-MD5-96 within ESP and Authentication Header (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 Internet Security Association and Key Management Protocol (ISAKMP) · RFC 2408 ISAKMP · RFC 2409 Internet Key Exchange (IKE) · RFC 2451 ESP Cipher Block Chaining (CBC)-Mode Cipher Algorithms · RFC 3280 Internet X.509 Public Key Infrastructure (PKI) Certificate and Certificate Revocation List (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): · RC4 40, 104 and 128 bits (both static and shared keys) · Advanced Encryption Standard (AES): CBC, Counter with CBC-MAC (CCM), Counter with CBC Message Authentication Code Protocol (CCMP) · Data Encryption Standard (DES): DES-CBC, 3DES · Secure Sockets Layer (SSL) and 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 Point-to-Point Protocol (PPP) Extensible Authentication Protocol (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 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 Trivial File Transfer Protocol (TFTP) · RFC 1643 Ethernet MIB · RFC 2030 Simple Network Time Protocol (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 Remote Monitoring 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	· 1x Multigigabit Ethernet interface (up to 5 Gigabit Ethernet) + 4x 1 Gigabit Ethernet interfaces (RJ-45) · 1x service port: 1 Gigabit Ethernet port (RJ-45) · 1x redundancy port: 1 Gigabit Ethernet port (RJ-45) · 1x console port: Serial port (RJ-45) · 1x console port: Serial port (mini-B USB) · 1x USB 3.0 port · LED indicators: Network link, diagnostics
Physical and environmental	Dimensions: 1.73 x 9.5 x 8.5 in. (43.94 x 214.3 x 215.9 mm) Weight: 4.4lbs Temperature: Operating: 32 to 104 °F (0 to 40°C) Storage: -4 to 158 °F (-20 to 70°C) Humidity: Operating Humidity: 5% to 95% RH non-condensing Storage Humidity: 0% to 95% RH non-condensing Power adapter: Input power: 100 to 240 VAC; 50/60 Hz Heat dissipation (without PoE): 47W, 160BTU/hr Heat dissipation (with PoE): 98W, 335BTU/hr
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 2011 EMC - Emissions: · 47CFR Part 15 (CFR 47) Class B · AS/NZS CISPR22 Class B · EN 55032 Class B · ICES003 Class A VCCI Class B · EN 61000-3-2 EN 61000-3-3 KN22 Class B · CNS13438 Class B EMC - Immunity: · EN 55024 · CISPR24 · EN 300386 · KN24

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