

Refurbished CISCO C1-AIR-K9 Datasheet

CISCO > WIRELESS

Cisco 3500 Series Wireless Controllers

Features and benefits	
Feature	
Feature	Benefits
Cisco DNA SD-Access Wireless	<p>SD-Access Wireless is Cisco's next-generation architecture for enterprise networks. It is the industry's first policy-based automation from the edge to the cloud. It enables network access in minutes for any user or device to any application without compromising on security.</p> <p>SD-Access Wireless enables policy-based automation for wired and wireless, automated provisioning of wired and wireless networks, group-based policy for users and connected devices, and a distributed wireless data plane for campus deployments. In addition, all client roams are treated as Layer 2 roams across the network for distributed traffic.</p> <p>Learn more at https://www.cisco.com/c/en/us/solutions/enterprise-networks/software-defined-access/index.html.</p>
Cisco DNA Analytics and Assurance	<p>Cisco DNA Analytics and Assurance offer comprehensive network visibility. It collects data from users, devices, and applications to proactively identify problems. Network analytics and automation help IT quickly resolve issues, so you can increase availability and deliver a better user experience.</p> <p>Learn more at https://www.cisco.com/c/en/us/solutions/enterprise-networks/dna-analytics-assurance.html.</p>
Scalability and performance	<p>Optimized to enable 802.11ac Wave 2 next-generation networks, supporting:</p> <ul style="list-style-type: none"> 4-Gbps throughput 150 access points 3000 clients 1x Multigigabit Ethernet interface (up to 5 Gigabit Ethernet), + 4x 1 Gigabit Ethernet 4096 VLANs
Flexibility and ease of deployment	<p>Only 10-in. (25-cm) depth to fit nicely in reduced-depth cabinet or desktop deployments</p> <p>Quiet and fanless operation for cabinet or desktop (up to 86°F [30°C] ambient) deployment. The fans are used by the controller only under certain conditions</p> <p>For quick and easy deployment, access points can be connected directly to the controller via two Power Over Ethernet (PoE) ports</p>
RF management	<p>Proactively identifies and mitigates signal interference for better performance</p> <p>Provides both real-time and historical information about RF interference affecting network performance across controllers, through systemwide integration with Cisco CleanAir technology</p>
Multimode with indoor/ outdoor mesh access points	<p>Versatile controller with support for centralized, distributed, and mesh deployments to be used at different places in the network, offering maximum flexibility for medium-sized campus, enterprise, and branch networks</p> <p>Centralized control, management, and client troubleshooting</p> <p>Seamless client access in the event of a WAN link failure (local data switching)</p> <p>Highly secure guest access</p> <p>Efficient access point upgrade that optimizes WAN link utilization for downloading access point images</p> <p>Cisco OfficeExtend technology that supports corporate wireless service for mobile and remote workers with secure wired tunnels to indoor Cisco Aironet access points supporting OfficeExtend mode</p>
Comprehensive end-to-end security	<p>Offers Control and Provisioning of Wireless Access Points (CAPWAP)-compliant Datagram Transport Layer Security (DTLS) encryption on the control plane between access points and controllers across remote WAN links</p> <p>Management frame protection detects malicious users and alerts network administrators</p> <p>Rogue detection for Payment Card Industry (PCI) compliance</p> <p>Rogue access point detection and detection of denial-of-service attacks</p>
End-to-end voice	<p>Supports Cisco Unified Communications for improved collaboration through messaging, presence, and conferencing</p> <p>Supports all Cisco Unified IP Phones for cost-effective, real-time voice services</p>
Fault tolerance and high availability	<p>Subsecond access point and client failover for uninterrupted application availability</p> <p>Redundant 1 Gigabit Ethernet or Cisco Multigigabit Ethernet (up to 5 Gigabit Ethernet) connectivity</p> <p>Solid-state device-based storage—no moving parts</p> <p>Enhanced system uptime with fast system restarts</p>

Cisco Enterprise Wireless Mesh	Allows access points to dynamically establish wireless connections without the need for a physical connection to the wired network Available on select Cisco Aironet access points, Enterprise Wireless Mesh is ideal for warehouses, manufacturing floors, shopping centers, and any other location where extending a wired connection may prove difficult or aesthetically unappealing
WLAN express setup	Simplified GUI wizard for quick setup, and intuitive dashboards for monitoring and troubleshooting
High-performance video	Cisco VideoStream technology optimizes the delivery of video applications across the WLAN
Mobility, security, and management for IPv6 and dual-stack clients	Highly secure, reliable wireless connectivity and consistent end-user experience Increased network availability through proactive blocking of known threats Equips administrators for IPv6 planning, troubleshooting, and client traceability from Cisco Prime Infrastructure
Energy efficiency	Organizations may choose to turn off access point radios to reduce power consumption during off-peak hours

Product specifications

Item	
Item	Specifications
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, Wi-Fi 6 (802.11ax)
Wired, switching, and routing	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX specification, 1000BASE-T, 1000BASE-SX, 1000BASE-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

	<p>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</p>
Management	<p>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</p>
Management interfaces	<p>Web-based: HTTP/HTTPS Command-line interface: Telnet, Secure Shell (SSH) Protocol, serial port Cisco Prime Infrastructure</p>
Interfaces and indicators	<p>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</p>
Physical and environmental	<p>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</p>
Regulatory compliance	<p>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</p>

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