

Cisco AIR-CT2504-25-K9 Datasheet



Cisco AIR-CT2504-25-K9 2500 Series Wireless Controller for up to 25 Cisco access points

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The Cisco® 2500 Series Wireless Controller enables systemwide wireless functions in small to medium-sized enterprises and branch offices. Designed for 802.11n and 802.11ac performance, Cisco 2500 Series Wireless Controllers are entry-level controllers that provide real-time communications between Cisco Aironet® access points to simplify the deployment and operation of wireless networks

As a component of the Cisco Unified Wireless Network, this controller delivers centralized security policies, wireless intrusion prevention system (wIPS) capabilities, award-winning RF management, and quality of service (QoS) for voice and video. Delivering 802.11ac performance and scalability, the Cisco 2500 Series provides low total cost of ownership and flexibility to scale as network requirements grow.

The Cisco 2504 Wireless Controller supports Cisco Application Visibility and Control (AVC), the technology that includes Cisco's Network-Based Application Recognition 2 (NBAR-2) engine. N-BAR-2 does deep packet inspection (DPI) to classify applications and tie into quality of service (QoS) to either drop or mark the traffic, thereby prioritizing business-critical applications in the network. Cisco AVC uses NetFlow Version 9 to export the flows to Cisco Prime™ Infrastructure or a third-party NetFlow Collector. The Cisco 2504 Wireless Controller also supports Bonjour Services Directory, which enables Bonjour (Apple) Services to be advertised and utilized in a separate Layer 3 network. Wireless Policy engine is a wireless profiler and policy feature on the Cisco 2500 Series Wireless Controller that enables profiling of wireless devices and enforcement of policies such as VLAN assignment, QoS, ACL, and time-of-day-based access.

Cisco 2500 Series Wireless Controller-based access point licensing offers flexibility with 5, 15, 25, or 50 access points. Additional access point support can be added in increments of 1, 5, or 25.

Specifications

- Wireless Standards

- IEEE 802.11a, 802.11ac, 802.11b, 802.11g, 802.11d, WMM/802.11e, 802.11h, 802.11k, 802.11n, 802.11r, 802.11u, 802.11w, 802.11ac

- Wired/Switching/Routing

- IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX specification, 1000BASE-T, and IEEE 802.1Q VLAN tagging

- Data Request for Comments (RFCs)

- RFC 768 UDP
- RFC 791 IP
- RFC 2460 IPv6 (passthrough bridging mode only)
- 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

- Security Standards

- Wi-Fi Protected Access (WPA)
- IEEE 802.11i (WPA2, RSN)
- RFC 1321 MD5 Message-Digest Algorithm
- RFC 1851 The 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 2406 IP Encapsulating Security Payload (ESP)
- 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 3602 The AES-CBC Cipher Algorithm and Its Use with IPsec
- RFC 3686 Using AES Counter Mode with IPsec ESP
- RFC 4347 Datagram Transport Layer Security
- RFC 4346 TLS Protocol Version 1.1
- Encryption
 - 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, CCM, Counter Mode with Cipher Block Chaining Message Authentication Code Protocol (CCMP)
 - 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
- 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 3576 Dynamic Authorization Extensions to RADIUS
 - RFC 3579 RADIUS Support for EAP
 - RFC 3580 IEEE 802.1X RADIUS Guidelines
 - RFC 3748 Extensible Authentication Protocol
 - Web-based authentication
 - TACACS support for management users

- Management

- 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 SNMP
- 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
 - Designed for use with Cisco Wireless Control System
 - Web-based: HTTP/HTTPS individual device manager
 - Command-line interface: Telnet, SSH, serial port
- Interfaces and Indicators
 - Console port: RJ-45 connector
 - Network: Four 1 Gbps Ethernet (RJ-45)
 - LED indicators: Link Activity (each 1 Gigabit Ethernet port), Power, Status, Alarm
- Physical and Environmental
 - Dimensions: 1.73 x 8.00 x 6.75 in. (43.9 x 203.2 x 271.5mm)
 - Weight: 3.5 lbs (with power supply)
 - Temperature:
 - Operating: 32 to 104 °F (0 to 40°C)
 - Storage: -13 to 158°F (-25 to 70°C)
 - Humidity:
 - Operating humidity: 10 to 95 percent, noncondensing
 - Storage humidity: Up to 95 percent
 - Power adapter: Input power: 100 to 240 VAC; 50/60 Hz
 - Heat dissipation: 72 BTU/hour
- Regulatory Compliance
 - Safety:
 - UL 60950-1, 2nd Edition

- EN 60950:2005
- EMI and susceptibility (Class B):
 - U.S.: FCC Part 15.107 and 15.109

 - Canada: ICES-003
 - Japan: VCCI
 - Europe: EN 55022, EN 55024

For more information of this Cisco AIR-CT2504-25-K9, please visit Cisco website:
https://www.cisco.com/c/en/us/products/collateral/wireless/2500-series-wireless-controllers/data_sheet_c78-645111.html

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