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## Overview

Cisco 4400 Series Wireless LAN Controller provides systemwide wireless LAN functions for medium to large-sized facilities. By automating WLAN configuration and management functions, network managers have the control, security, redundancy, and reliability needed to cost-effectively scale and manage their wireless networks as easily as they scale and manage their traditional wired networks.

The Cisco 4400 Series Wireless LAN Controller works in conjunction with Cisco Aironet® access points, the Cisco Wireless Control System (WCS), and the Cisco Wireless Location Appliance to support business-critical wireless data, voice, and video applications. It provides real-time communication between access points and other wireless LAN controllers to deliver centralized security policies, wireless intrusion prevention system (IPS) capabilities, award-winning RF management, quality of service (QoS), and mobility.

## Quick Specs

Figure 1 shows the appearance of AIR-WLC4402-12-K9.



Table 1 shows the Quick Specs.

Model	AIR-WLC4402-12-K9
Wireless	IEEE 802.11a, 802.11b, 802.11g, 802.11d, 802.11h, 802.11n
Wired/Switching/Routing	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX specification, IEEE 802.1Q VLAN tagging, and IEEE 802.1D Spanning Tree Protocol
Data Request for Comments (RFC)	<ul style="list-style-type: none"> <li>• RFC 768 UDP</li> <li>• RFC 791 IP</li> <li>• RFC 792 ICMP</li> <li>• RFC 793 TCP</li> <li>• RFC 826 ARP</li> <li>• RFC 1122 Requirements for Internet Hosts</li> <li>• RFC 1519 CIDR</li> <li>• RFC 1542 BOOTP</li> <li>• RFC 2131 DHCP</li> </ul>
Security Standards	<ul style="list-style-type: none"> <li>• WPA</li> <li>• IEEE 802.11i (WPA2, RSN)</li> </ul>



	<ul style="list-style-type: none"> <li>• RFC 1321 MD5 Message-Digest Algorithm</li> <li>• RFC 1851 The ESP Triple DES Transform</li> <li>• RFC 2104 HMAC: Keyed Hashing for Message Authentication</li> <li>• RFC 2246 TLS Protocol Version 1.0</li> <li>• RFC 2401 Security Architecture for the Internet Protocol</li> <li>• RFC 2403 HMAC-MD5-96 within ESP and AH</li> <li>• RFC 2404 HMAC-SHA-1-96 within ESP and AH</li> <li>• RFC 2405 ESP DES-CBC Cipher Algorithm with Explicit IV</li> <li>• RFC 2406 IPsec</li> <li>• RFC 2407 Interpretation for ISAKMP</li> <li>• RFC 2408 ISAKMP</li> <li>• RFC 2409 IKE</li> <li>• RFC 2451 ESP CBC-Mode Cipher Algorithms</li> <li>• RFC 3280 Internet X.509 PKI Certificate and CRL Profile</li> <li>• RFC 3602 The AES-CBC Cipher Algorithm and Its Use with IPsec</li> <li>• RFC 3686 Using AES Counter Mode with IPsec ESP</li> </ul>
<p style="text-align: center;">Encryption</p>	<ul style="list-style-type: none"> <li>• WEP and TKIP-MIC: RC4 40, 104 and 128 bits (both static and shared keys)</li> <li>• SSL and TLS: RC4 128-bit and RSA 1024- and 2048-bit</li> <li>• AES: CCM, CCMP</li> <li>• IPsec: DES-CBC, 3DES, AES-CBC</li> </ul>
<p style="text-align: center;">Authentication, Authorization, and Accounting (AAA)</p>	<ul style="list-style-type: none"> <li>• IEEE 802.1X</li> <li>• RFC 2548 Microsoft Vendor-Specific RADIUS Attributes</li> <li>• RFC 2716 PPP EAP-TLS</li> <li>• RFC 2865 RADIUS Authentication</li> <li>• RFC 2866 RADIUS Accounting</li> <li>• RFC 2867 RADIUS Tunnel Accounting</li> <li>• RFC 2869 RADIUS Extensions</li> <li>• RFC 3576 Dynamic Authorization Extensions to RADIUS</li> <li>• RFC 3579 RADIUS Support for EAP</li> <li>• RFC 3580 IEEE 802.1X RADIUS Guidelines</li> <li>• RFC 3748 Extensible Authentication Protocol</li> <li>• Web-based authentication</li> </ul>
<p style="text-align: center;">Management</p>	<ul style="list-style-type: none"> <li>• SNMP v1, v2c, v3</li> <li>• RFC 854 Telnet</li> <li>• RFC 1155 Management Information for TCP/IP-Based Internets</li> <li>• RFC 1156 MIB</li> <li>• RFC 1157 SNMP</li> <li>• RFC 1213 SNMP MIB II</li> <li>• RFC 1350 TFTP</li> <li>• RFC 1643 Ethernet MIB</li> <li>• RFC 2030 SNTP</li> <li>• RFC 2616 HTTP</li> <li>• RFC 2665 Ethernet-Like Interface types MIB</li> <li>• RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual LAN Extensions</li> <li>• RFC 2819 RMON MIB</li> <li>• RFC 2863 Interfaces Group MIB</li> <li>• RFC 3164 Syslog</li> </ul>



	<ul style="list-style-type: none"> <li>• RFC 3414 User-Based Security Model (USM) for SNMPv3</li> <li>• RFC 3418 MIB for SNMP</li> <li>• RFC 3636 Definitions of Managed Objects for IEEE 802.3 MAUs</li> <li>• Cisco private MIBs</li> </ul>
Management Interfaces	<ul style="list-style-type: none"> <li>• Web-based: HTTP/HTTPS</li> <li>• Command-line interface: Telnet, SSH, serial port</li> </ul>
Interfaces and Indicators	<ul style="list-style-type: none"> <li>• Uplink: 2 (4402) or 4 (4404) 1000Base-X transceiver slots</li> <li>• LED indicators: link, activity</li> <li>• Service Port: 10/100 Mbps Ethernet (RJ45)</li> <li>• LED indicators: link, activity</li> <li>• Utility Port: 10/100/1000 Mbps Ethernet (RJ45)</li> <li>• LED indicators: link, activity</li> <li>• Expansion Slots: 1 (4402) or 2 (4404)</li> <li>• Console Port: RS232 (DB-9 male, DTE interface)</li> <li>• Other Indicators: Status, Alarm, Power Supply 1, Power Supply 2</li> </ul>
Physical and Environmental	<ul style="list-style-type: none"> <li>• Dimensions (WxDxH): 17.45 x 15.75 x 1.75 in. (443 x 400 x 44.5 mm)</li> <li>• Weight: 15.3 lbs (6.95 kg) with 2 power supplies</li> <li>• Temperature: <ul style="list-style-type: none"> <li>• Operating: 32 to 104°F (0 to 40°C)</li> <li>• Storage: -13 to 158°F (-25 to 70°C)</li> </ul> </li> <li>• Humidity: <ul style="list-style-type: none"> <li>• Operating humidity: 10 95%, non-condensing</li> <li>• Storage humidity: up to 95%</li> </ul> </li> <li>• Input power: 100 240 V AC; 50/60 Hz; 0.43 A at 110 V AC, 0.23 A at 220 V AC; 50W. Redundant power option available.</li> <li>• Heat Dissipation: 171 BTU/hour</li> </ul>
Regulatory Compliance	<ul style="list-style-type: none"> <li>• CE Mark</li> <li>• Safety: <ul style="list-style-type: none"> <li>• UL 60950-1:2003</li> <li>• EN 60950:2000</li> </ul> </li> <li>• EMI and susceptibility (Class A): <ul style="list-style-type: none"> <li>• U.S.: FCC Part 15.107 and 15.109</li> <li>• Canada: ICES-003</li> <li>• Japan: VCCI</li> <li>• Europe: EN 55022, EN 55024</li> </ul> </li> </ul>

## Get More Information

Do you have any question about the AIR-WLC4402-12-K9?

Contact us now via [info@hi-network.com](mailto:info@hi-network.com).

## Specification

<b>AIR-WLC4402-12-K9 Specification</b>	
Wireless	IEEE 802.11a, 802.11b, 802.11g, 802.11d, 802.11h, 802.11n
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- U.S.: FCC Part 15.107 and 15.109
- Canada: ICES-003
- Japan: VCCI
- Europe: EN 55022, EN 55024

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