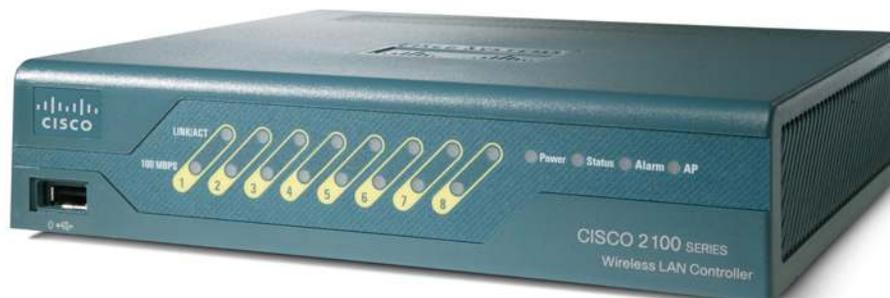# Cisco 2106 Wireless LAN Controller

Product Overview

The Cisco® 2106 Wireless LAN Controller works in conjunction with Cisco lightweight access points and the Cisco Wireless Control System (WCS) to provide systemwide wireless LAN functions.

As a component of the Cisco Unified Wireless Network, the Cisco 2106 Wireless LAN Controller presents network administrators with the visibility and control necessary to effectively and securely manage business-class WLANs and mobility services, such as voice, guest access, and location services.

The Cisco 2106 Wireless LAN Controller (Figure 1) supports up to six lightweight access points, making it a cost-effective solution for multi-controller architectures typical of enterprise branch deployments. It may also be used for single controller deployments for small and medium-sized business environments. The Cisco 2106 Wireless LAN Controller provides eight Ethernet ports, two of which can provide power directly to Cisco lightweight access points.

Figure 1.   Cisco 2106 Wireless LAN Controller

Wireless LAN Controller Series

The Cisco 2106 Wireless LAN Controller is a model in the Cisco Wireless LAN Controller family which includes standalone controllers, integrated controllers, and modular wireless LAN controllers that work in conjunction with Cisco switches and routers. For more details, please visit [link to solution overview]

Features and Benefits

Table 1 describes the hardware features of the Cisco 2106 Wireless LAN Controller.

Table 1.   Features and Benefits of the Cisco 2106 Wireless LAN Controller

Features	Benefits
Eight 10/100 Ethernet Ports	Provides eight 10/100 Ethernet ports, intended to support a combination of access points and redundant LAN uplinks.
Power over Ethernet Enabled Ports	Two of the eight 10/100 Ethernet ports are 802.3af Power over Ethernet (PoE) enabled, rated for use with Cisco Aironet lightweight access points.
Small Form Factor	Allows for convenient desktop mounting or rack mounting, with optional rack mount kit for flexible deployment.

Product Specifications

Table 2 lists the product specification for the Cisco 2106 Series Wireless LAN Controller.

Table 2. Product Specifications for the Cisco 2106 Wireless LAN Controller

Item	Specification
Wireless Standards	IEEE 802.11a, 802.11b, 802.11g, 802.11d, 802.11h
Wired/Switching/ Routing	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX specification, and IEEE 802.1Q VLAN tagging
Data RFCs	• RFC 768 UDP • RFC 791 IP • RFC 792 ICMP • RFC 793 TCP • RFC 826 ARP • RFC 1122 Requirements for Internet Hosts • RFC 1519 CIDR • RFC 1542 BOOTP • RFC 2131 DHCP
Security Standards	• Wi-Fi Protected Access (WPA) • IEEE 802.11i (WPA2, RSN) • RFC 1321 MD5 Message-Digest Algorithm • RFC 2104 HMAC: Keyed Hashing for Message Authentication • RFC 2246 TLS Protocol Version 1.0 • RFC 3280 X.509 PKI Certificate and CRL Profile
Encryption	• WEP and TKIP-MIC: RC4 40, 104 and 128 bits (both static and shared keys) • Secure Sockets Layer (SSL) and TLS: RC4 128-bit and RSA 1024- and 2048-bit • AES: CCM, CCMP
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 3579 RADIUS Support for EAP • RFC 3580 IEEE 802.1X RADIUS Guidelines • RFC 3748 Extensible Authentication Protocol • Web-based authentication
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 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 LAN 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

Item	Specification
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: RS-232 (DB-9 male/RJ-45 connector included) • Network: Eight 10/100 Mbps Ethernet (RJ-45) including two 802.3af PoE ports rated for use with Cisco Aironet lightweight access points • LED indicators: Link Activity (each 10/100 port), Power, Status, Alarm, Access Point Joined

Physical and Environmental	• Dimensions:
	1.75 x 7.89 x 6.87 in. (4.45 x 20.04 x 17.45 cm)
	• Weight: 4.0 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: 92 BTU/hour

Regulatory Compliance	• CE Mark
	• Safety:
	  ◦ UL 60950-1:2003
	  ◦ EN 60950:2000
	• EMI and susceptibility (Class B):
	  ◦ U.S.: FCC Part 15.107 and 15.109
	  ◦ Canada: ICES-003
	  ◦ Japan: VCCI
	  ◦ Europe: EN 55022, EN 55024

Ordering Information

Table 3 provides ordering information for the Cisco 2106 Wireless LAN Controller. To place an order, visit the Cisco Ordering Website:

http://www.cisco.com/en/US/ordering/index.shtml

Table 3.   Ordering Information for Cisco 2106 Wireless LAN Controller

Part Number	Product Name
AIR-WLC2106-K9	Cisco 2106 Wireless LAN Controller for up to six Cisco lightweight access points

Service and Support

Cisco offers a wide range of services programs to accelerate customer success. These innovative services programs are delivered through a unique combination of people, processes, tools, and partners, resulting in high levels of customer satisfaction. Cisco services help you protect your network investment, optimize network operations, and prepare your network for new applications to extend network intelligence and the power of your business. For more information about Cisco services, visit Cisco Technical Support Services or Cisco Advanced Services.

For More Information

For more information about Cisco wireless LAN controllers, contact your local account representative or visit:
http://www.cisco.com/en/US/products/ps6366/index.html

For more information about the Cisco Unified Wireless Network framework, visit:
http://www.cisco.com/go/unifiedwireless

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