

Cisco WAP4410N Wireless-N Access Point: PoE/Advanced Security Cisco Small Business Access Points

Advanced, High-Performance Wireless Access for the Small Business

Highlights

- Supports high-bandwidth applications with the 802.11n standard; backward compatible with 802.11b and g
 devices
- Connects to Power over Ethernet devices, simplifying installation and eliminating the need for and cost of installing external power supplies
- Protects business information with enhanced security, including rogue access point detection, advanced encryption, and select access filters
- · Simplifies installation and configuration with easy-to-use web interface

Figure 1. Cisco WAP4410N Wireless-N Access Point: PoE/Advanced Security



Product Overview

With the growth of high-bandwidth applications, such as storage and video, in the workplace, network performance is essential. Wireless technology is no longer lagging behind wired performance. The Cisco[®] WAP4410N Wireless-N Access Point (Figure 1) answers the growing business need for access, speed, and security.

The Cisco Wireless-N Access Point lets you connect Wireless-N (802.11n), Wireless-G (802.11g), and Wireless-B (802.11b) devices to your wired network, so you can add PCs to the network with no cabling hassle. Power over Ethernet (PoE) support makes the access point easy to install - you can mount it anywhere, even without ready access to a power plug. With appropriate PoE support at the other end, you need to run only one cable to the access point to deliver both data and power. Of course, you can also use the included AC adapter if power is available nearby.

Moreover, the integrated quality of service (QoS) features provide consistent voice and video quality on both the wired and wireless networks, enabling the deployment of business-quality voice over IP (VoIP) and video applications.

To protect your data and privacy, the Cisco Wireless-N Access Point supports the industrial-strength wireless security of Wi-Fi Protected Access (WPA), encoding all your wireless transmissions with powerful encryption. The MAC address filter lets you decide exactly who has access to your wireless network, and advanced logging keeps you apprised of access attempts. The rogue access point detection capability notifies the administrator when an unauthorized access point is detected in the airspace. The WPS (Wi-Fi Protected Setup) feature facilitates simple and secure deployment of security in the wireless network. Configuration is a snap with the web browser-based configuration utility.

The Cisco WAP4410N Wireless-N Access Point is the best way to add wireless access to your existing business network.

Features

- Draft 802.11n wireless networking delivers greater throughput and extended range, maximizing the number of wireless clients per access point for your small business
- Easy installation and configuration via a web interface
- Adjustable and removable dipole antennas with multiple-input, multiple-output (MIMO) 3x3 diversity
- · Gigabit Ethernet LAN interface
- · Supports PoE and external DC power
- HTTP Redirect facilitates the display of a splash page on initial user access
- IPv6 host support for managing the access point over IPv6
- Multiple basic service set identifier (BSSID) support allows the creation of multiple secure wireless workgroups for users and guests
- Service set identifier (SSID) to VLAN mapping maintains application security and quality across wireless and wired
- WPS allows for simple and secure deployment of the wireless network
- Logging via syslog, email, or local log
- · Wi-Fi Multimedia (WMM) wireless QoS support

Specifications

Table 1 lists the specifications, package contents, and minimum requirements for the Cisco WAP4410N Wireless-N Access Point.

Table 1. Specifications for the Cisco WAP4410N Wireless-N Access Point: PoE/Advanced Security

Specifications		
Standards	Draft IEEE 802.11n, IEEE 802.11g, IEEE 802.11b, IEEE 802.3, IEEE 802.3u, IEEE 802.3af (Power over Ethernet), 802.1x (security authentication), 802.11i security WPA/WPA2, WMM	
Ports	Ethernet, Power	
Buttons	Reset	
Cabling type	Unshielded twisted pair (UTP) Category 5e or higher	
LEDs	Power, Ethernet, Wireless, PoE	
Operating system	Linux	
Setup/Configuration		
Web user interface	Built-in web user interface for easy browser-based configuration (HTTP/HTTPS)	
Management		
Simple Network Management Protocol (SNMP) version	SNMP version 1, 2c	

Format La marina	A Francisco	
Event logging	Event logging Email logging	
	Remote syslog	
Web firmware upgrade	Firmware upgradeable through web browser	
Diagnostics.	Flash, RAM, LAN, WLAN	
Dynamic Host Configuration Protocol (DHCP)	DHCP client	
HTTP Redirect	Redirects initial user access to an external web server to display company logo or network usage policy	
IPv6 host	Support for management and control of access point over IPv6	
	Supports RFC2460 (IPv6 protocol) and RFC4294 (IPv6 node requirements)	
Network Capabilities		
Multiple BSSID	Supports up to 4 BSSIDs, allowing the creation of multiple virtual access points	
VLANs	Supports 802.1q - up to 4 VLANs	
SSID to VLAN mapping	Supports mapping of SSIDs to VLANs to securely separate workgroups across wireless and wired domains	
Spanning Tree	Supports 802.1d Spanning Tree Protocol to prevent loops when using wireless distribution system (WDS) links as redundant links in a distribution system	
Operating modes	Access point mode, point-to-point bridge mode, point-to-multipoint bridge mode, repeater mode, wireless client mode	
Load balancing	Allows bandwidth control with user-defined CPU usage ratios	
Auto-channel selection	On boot-up, the access point selects the least congested channel	
802.11d regulatory domain	Enables the access point to provide radio channel settings for client devices, facilitating easy client access as they move across regulatory domains	
Security		
WEP/WPA/WPA2	Wired Equivalent Privacy (WEP) 64-bit/128-bit, WPA-Pre-Shared Key (WPA-PSK), WPA2-PSK, WPA-ENT, WPA2-ENT	
Access control	Wireless connection control: MAC-based	
SSID broadcast	SSID broadcast enable/disable	
Client isolation	Supports wireless client isolation between and within SSIDs	
802.1X	Wireless clients can be authenticated through IEEE 802.1X	
802.1X supplicant	Supports 802.1X supplicant on the Ethernet port to allow the access point to authenticate itself to the network	
RADIUS server	Up to 2 RADIUS servers can be configured for redundancy purposes	
WPS	Supports WPS, a WI-FI Alliance specification for simple and secure setup of a wireless network	
Rogue access point detection	New access points detected that have not been categorized as known are logged as rogue access points, allowing the administrator to clamp down on unapproved devices in the network	
Quality of Service		
QoS	4 queues 802.1p VLAN priority WMM wireless priority Mapping of 802.1p VLAN priority to WMM wireless priority to maintain end-to-end QoS	
Wireless	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Spec/modulation	Radio and modulation type: 802.11b/DSSS, 802.11g/OFDM, 802.11n/OFDM	
Channels	Operating channels: 11 North America, 13 most of Europe (ETSI and Japan)	
Internal antennas	None	
External antennas	3 (omnidirectional)	

Transmit power	Transmit power @ normal temp range for FCC:
	802.11b: 16 dBm @ 1TX, 19 dBm @ 2TX, 20.5 dBm @ 3TX
	802.11g: 13 dBm @ 1TX, 16 dBm @ 2TX, 17.5 dBm @ 3TX
	802.11n: 17 dBm @ 1TX @ MCS0~5/8~13, 13 dBm @ 1TX @ MCS6/14,
	11 dBm @ 1TX @ MCS7/15, 20 dBm @ 2TX@MCS0~5/8~13,
	16 dBm @ 2TX @ MCS6/14, 14 dBm @ 2TX @ MCS7/15,
	21.5 dBm @ 3TX@MCS0~5/8~13, 17.5 dBm @ 3TX @ MCS6/14,
	15.5 dBm @ 3TX @ MCS7/15
	Transmit power @ normal temp range for ETSI:
	11b/g/n: 13 dBm @ 1TX, 16 dBm @ 2TX, 17.5 dBm @ 3TX
Antenna gain in dBi	2
Receiver sensitivity	802.11.n: 300 Mbps at -69dBm
	802.11.g: 54 Mbps at -73dBm
	802.11.b: 11 Mbps at -88dBm
Environmental	
Dimensions	6.69 x 6.69 x 1.60 in.
WxHxD	(170 x 170 x 40.7 mm)
Weight	0.86 lb (39 kg)
Power	• 12V 1A DC input, and IEEE 802.3af compliant PoE
	Max power draw: 10.1W
Certification	FCC, CE, IC
Operating temperature	32°to 104F (0°to 40°C)
Storage temperature	-4°to 158℉ (-20°to 70℃)
Operating humidity	10% to 85%, noncondensing
Storage humidity	5% to 90%, noncondensing
Package Contents	
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- Cisco WAP4410N Wireless-N Access Point with PoE
- User guide on CD-ROM
- Ethernet network cable
- Power adapter
- Product stands
- Registration card

Minimum Requirements

- 802.11b, 802.11g, 802.11n wireless adapter with TCP/IP protocol installed per PC
- Switch/router with PoE support or PoE injector when used with PoE
- Web-based configuration: Java-enabled web browser

Product Warranty

Limited lifetime hardware warranty with return to factory replacement.

Cisco Limited Lifetime Warranty for Cisco Small Business Series Products

This Cisco Small Business product comes with a limited lifetime hardware warranty with return to factory replacement and a 1-year limited warranty for fans and/or power supplies. In addition, Cisco offers telephone technical support at no charge for the first 12 months following the date of purchase and software bug fixes, as available, for the warranty term. To download software updates, go to:

http://www.cisco.com/cisco/web/download/index.html.

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