

Cisco WAP4400N Wireless-N Access Point: PoE Cisco Small Business Access Points

High-Speed Wireless Access That Extends Network Connectivity

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
- Increases wireless throughput and range and expands the range to reduce “dead spots” in the wireless coverage area with MIMO technology
- Simplifies installation and configuration with easy-to-use web interface

Figure 1. Cisco WAP4400N Wireless-N Access Point: PoE



Product Overview

With the growth in 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® WAP4400N Wireless-N Access Point (Figure 1) answers the growing business need for access, speed, and security.

The Cisco WAP4400N uses the latest wireless networking technology, Wireless-N (draft 802.11n). By overlaying the signals of multiple radios, Wireless-N's multiple-input, multiple-output (MIMO) technology multiplies the effective data rate. Unlike ordinary wireless networking technologies that are confused by signal reflections, MIMO actually uses these reflections to increase the range and reduce “dead spots” in the wireless coverage area.

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 both Wired Equivalent Privacy (WEP) and the industrial-strength wireless security of Wi-Fi Protected Access (WPA), encoding all your wireless transmissions with powerful encryption. The MAC address filter with advanced logging lets you both control and stay apprised of who accesses your wireless network. Configuration is a snap with the web browser-based configuration utility.

The Cisco WAP4400N 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
- Full backward compatibility for 802.11b and 802.11g devices
- Easy installation and configuration via a web interface
- Supports WEP, WPA Pre-Shared Key (WPA-PSK), WPA2-PSK, WPA2-ENT, and WPA-ENT authentication (802.11i ready)
- Adjustable dipole antennas with MIMO 2x3 diversity
- Gigabit Ethernet LAN interface
- Supports PoE or external DC power
- Supports Simple Network Management Protocol (SNMP) and features an intuitive web-based interface
- Wi-Fi Multimedia (WMM) wireless QoS
- Upgradable to 802.11e

Specifications

Table 1 lists the specifications, package contents, and minimum requirements for the Cisco WAP4400N Wireless-N Access Point.

Table 1. Specifications for the Cisco WAP4400N Wireless-N Access Point: PoE

Specifications	
Standards	<ul style="list-style-type: none"> • Draft IEEE 802.11n, IEEE 802.11g, IEEE 802.11b, IEEE 802.3, IEEE 802.3u, IEEE 802.3af (PoE), 802.1x (security authentication) • 802.11i ready (security WPA2), 802.11e ready (wireless QoS)
Ports	Ethernet, Power
Buttons	Reset
Cabling type	Unshielded twisted pair (UTP) Category 5, Category 5 Ethernet or above for Gigabit Ethernet Interface
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	
SNMP version	SNMP version 1, 2c, 3
Event logging	<ul style="list-style-type: none"> Event logging Remote syslog
Web firmware upgrade	Firmware upgradable through web browser
Diagnostics	Flash, RAM, LAN, WLAN
Dynamic Host Configuration Protocol (DHCP)	DHCP client
Operating Modes	
Access point	Access point mode
Wireless	
Spec/modulation	Radio and modulation type: 802.11b/DSSS, 11g/OFDM, 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 (adjustable) at normal temp range: <ul style="list-style-type: none"> 802.11b: 16 dBm at 1TX, 19 dBm at 2TX 802.11g: 13 dBm at 1TX, 16 dBm at 2TX 802.11n: 13 dBm at 1TX, 16 dBm at 2TX
Antenna gain in dBi	2
Receiver sensitivity	802.11.n: 300 Mbps at -69 dBm, 802.11.g: 54 Mbps at -73 dBm, 802.11.b: 1 Mbps at -88 dBm
Security	
WEP/WPA/WPA2	WEP 64-bit/128-bit, WPA-PSK, WPA2-PSK, WPA-ENT, WPA2-ENT
Access control	Wireless connection control: MAC-based
Service set identifier (SSID) broadcast	SSID broadcast enable/disable
802.1X	IEEE 802.1X support
Quality of Service	
QoS	<ul style="list-style-type: none"> 4 queues WMM wireless priority
General	
<ul style="list-style-type: none"> New access point detection (used with Cisco WPC4400N Wireless-N Business Notebook Adapter) New client detection (used with Cisco WPC4400N) Auto-channel selection 	
Environmental	
Dimensions (W x H x D)	7.80 x 5.16 x 7.80 in. (198 x 131 x 198 mm)
Unit weight	0.84 lb (38 g)
Power	<ul style="list-style-type: none"> 12V 1A DC input, and IEEE 802.3af compliant PoE Max power draw: 5.04W
Certification	FCC, CE, IC
Operating temperature	32° to 104°F (0° to 40°C)
Storage temperature	-4° to 158°F (-20° to 70°C)
Operating humidity	10% to 85% noncondensing
Storage humidity	5% to 90% noncondensing
Package Contents	

<ul style="list-style-type: none"> • Cisco WAP4400N Wireless-N Access Point • User guide on CD-ROM • Ethernet network cable • Power adapter • Product stands • Registration card
Minimum Requirements
<ul style="list-style-type: none"> • 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
3-year limited hardware warranty with return to factory replacement and 90-day limited software warranty

Cisco Limited Warranty for Cisco Small Business Series Products

This Cisco Small Business product comes with 3-year limited hardware warranty with return to factory replacement and a 90-day limited software warranty. In addition, Cisco offers software application updates for bug fixes and telephone technical support at no charge for the first 12 months following the date of purchase. To download software updates, go to:

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