

Cisco WAP200 Wireless-G Access Point: PoE/RangeBooster Cisco Small Business Access Points

Wireless Access Point That Extends Network Connectivity for Small Businesses

Highlights

- Increases wireless throughput and range and reduces “dead spots” in the wireless coverage area with RangeBooster technology
- Connects to Power over Ethernet devices, simplifying installation and eliminating the need for and cost of installing external power supplies
- Protects network traffic to safeguard business information with enhanced security, including advanced encryption and security monitoring for additional visibility
- Provides consistent network performance with integrated quality of service to support voice and video applications
- Simplifies installation and configuration with easy-to-use web interface

Figure 1. Cisco WAP200 Wireless-G Access Point: PoE/RangeBooster



Product Overview

RangeBooster technology is a compatible add-on to standard Wireless-G that can nearly double your wireless network’s range and increase its throughput by up to 35 percent. Unlike ordinary wireless technologies that are confused by signal reflections, RangeBooster uses two smart receivers at each end to detect and decode reflected signals at distances where standard technologies give up. You’ll find that “dead spots” in the wireless coverage area are reduced, too.

The advanced security features make this solution ideal for your business. Advanced wireless security using Wi-Fi Protected Access (WPA2) with up to 256-bit encryption, and Wireless Security Monitoring give your business the visibility and protection it needs. Used when Cisco® WUSB 200, WMP200 or WPC200 Wireless adapters are present, Wireless Security Monitoring alerts you of possible wireless intruders and vulnerabilities in the wireless deployment and gives you visibility into denial-of-service attacks.

The Cisco WAP200 Wireless-G Access Point (Figure 1) lets you connect Wireless-G (802.11g) or 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 it easy to install - you can mount the access point 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.

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.

Additional features like multiple basic service set identifiers (BSSIDs), wireless roaming, and auto-channel selection, make this solution ideal for your business.

Features

- 10BASE-T/100BASE-TX Ethernet port, autosensing half/full duplex and medium dependent interface (MDI) and MDI crossover (MDI-X)
- Full backward compatibility with 802.11b
- Easy installation and configuration
- Supports Wired Equivalent Privacy (WEP), WPA Pre-Shared Key (WPA-PSK), WPA2-PSK, WPA-ENT, and WPA2-ENT authentication (802.11i ready)
- SMA detachable dipole antennae with 1x2 multiple-input, multiple-output (MIMO) to increase coverage
- Supports PoE or external DC power
- Supports 4 BSSID and 802.1Q VLAN to service set identifier (SSID) mapping
- Supports Simple Network Management Protocol (SNMP) and features an intuitive web-based interface
- Wi-Fi Multimedia (WMM) wireless QoS support, upgradable to 802.11e
- Supports wireless roaming based on 802.11F (Inter-Access Point Protocol [IAPP])
- Supports access point, bridge mode, and repeater mode
- Supports wireless security monitoring (working together with Cisco WUSB 200, WMP200 or WPC200 client cards)
- Supports wireless client isolation

Specifications

Table 1 gives specifications, package contents, and minimum requirements for the Cisco WAP200 Wireless-G Access Point.

Table 1. Specifications for the Cisco WAP200 Wireless-G Access Point: PoE/RangeBooster

Specifications	
Standards	IEEE 802.11g, IEEE 802.11b, IEEE 802.3, IEEE 802.3u, IEEE 802.3af (PoE), 802.1p (QoS priority), 802.1q (VLAN), 802.1X (security authentication), 802.11i ready (security WPA2), 802.11e ready (wireless QoS), 802.11F (wireless roaming)
Ports	10BASE-T/100BASE-TX Ethernet, 12V DC power
Buttons	Reset
Cabling type	Unshielded twisted pair (UTP) Category 5
LEDs	Power, PoE, Wireless, Ethernet
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"> Email notification 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, point-to-point bridge mode, point-to-multipoint bridge mode, repeater mode
Wireless	
Spec/modulation	Radio and modulation type: 802.11b/DSSS, 802.11g/OFDM
Channels	Operating channels: 11 North America, 13 most of Europe (ETSI and Japan)
External antennas	2 (omnidirectional) SMA detachable
Transmit power	Transmit power (adjustable) at normal temperature range: <ul style="list-style-type: none"> 802.11b: 18–19 dBm 802.11g: 14–15 dBm
Antenna gain in dBi	2
Receiver sensitivity	802.11.g: 54 Mbps at -72 dBm, 802.11.b: 11 Mbps at -85 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
SSID broadcast	SSID broadcast enable/disable
802.1X	IEEE 802.1X support
Wireless client isolation	Wireless client devices can be isolated from each other either within an SSID or between 2 SSIDs
Wireless Security Monitor	<p>Scan and classify wireless devices in the network</p> <p>Report new client and access point joining network and suspicious network events (works together with Cisco WUSB 200, WMP200 or WPC200 business client adapters):</p> <ul style="list-style-type: none"> Intrusion alarms (e.g., rogue client detected, spoofed MAC address) Denial-of-service alarms (e.g., duration attack, association table full) Vulnerability alarms (e.g., access point is not using encryption, access point is broadcasting SSID) Other alarms (e.g., low speed connection)

Quality of Service	
QoS	<ul style="list-style-type: none"> • 4 queues • Wi-Fi Multimedia (WMM) wireless priority
General	
<ul style="list-style-type: none"> • Wireless roaming based on IAPP • Auto-channel selection 	
Environmental	
Dimensions W x H x D	6.69 x 8.07 x 7.68 in. (170 x 205 x 195 mm)
Unit weight	0.88 lb (0.4 kg)
Power	12V 1A DC Input, and IEEE 802.3af compliant PoE Maximum power draw: 3.36W
Certification	FCC, ICES-003, CE
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 WAP200 Wireless-G Access Point • 2 SMA detachable dipole antennas • 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 wireless adapter with TCP/IP 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 a 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:

<http://www.cisco.com/go/smallbiz>.

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