Cisco WAP200E Wireless-G Exterior Access Point: PoE
Cisco Small Business Access Points

High-Speed Wireless Access for Exterior Environments

Highlights

- Extends network to exterior business environments, keeping employees connected and productive
- Features RangeBooster technology, which increases wireless throughput and range and reduces “dead spots” in the wireless coverage areas
- Advanced wireless security protects network traffic to keep business assets safe
- Weather-resistant housing, internal high-gain antennas, and Power over Ethernet simplify installations and expand placement options

Figure 1. Cisco WAP200E Wireless-G Exterior Access Point: PoE

Product Overview

The Cisco® WAP200E Wireless-G Exterior 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 without the need for additional cabling. This weather-resistant access point creates a “wireless bubble” in exterior spaces, such as patios and outdoor cafés. Power over Ethernet (PoE) support makes it easy to install, and you can create multiple basic service set identifiers (BSSIDs) that connect to individual VLANs to keep your traffic separated.

The Cisco WAP200E is also ideal for use as a bridge to connect remote areas. For example, it could be used to connect offices with a warehouse housed in a separate building, or to connect the buildings of a college campus. Installing one access point on each building provides connections at up to Wireless-G speeds - with no cable to run. The weather-resistant housing protects the access point and is lightning protected.

To protect your data and privacy, the Cisco WAP200E supports both Wired Equivalent Privacy (WEP) and the industrial-strength wireless security of Wi-Fi Protected Access (WPA), encoding all of your wireless transmissions with powerful encryption. The MAC address filter lets you decide who can access your wireless network, and advanced logging keeps you apprised of access attempts. Configuration is a snap with the web browser-based configuration utility.

RangeBooster technology, a compatible add-on to standard Wireless-G, can nearly double the range of your wireless network 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 as well.

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 such as multiple BSSIDs, wireless roaming, and auto-channel selection make the Cisco WAP200E ideal for your business.

Features

- Lightning-protected, weather-resistant housing
- 10BASE-T/100BASE-TX Ethernet port, auto-sensing half/full duplex, and automatic medium dependent interface (MDI) and MDI crossover (MDI-X)
- Built-in 6-dBi directional antenna with 1x2 multiple-input, multiple-output (MIMO) to increase coverage
- Obtains power via 802.3af PoE from a PoE switch or power injector
- Simplified web interface for installation and configuration
- 802.1X RADIUS authentication
- Supports WEP, WPA Pre-Shared Key (WPA-PSK), WPA2-PSK, WPA Enterprise, and WPA2 Enterprise wireless security
- Supports four BSSIDs and 802.1Q VLAN to service set identifier (SSID) mapping
- Supports Simple Network Management Protocol (SNMP) and uses an intuitive web-based interface
- Supports Wi-Fi Multimedia (WMM) wireless QoS
- Supports wireless roaming based on 802.11F (Inter-Access Point Protocol [IAPP])
- Offers access point, bridge mode, and repeater mode
- Supports wireless security monitoring (working together with Cisco WMP200, WPC200, and WUSB200 adapter cards)
- Supports wireless client isolation
- Limited lifetime warranty

Specifications

Table 1 lists the specifications, package contents, and minimum requirements for the Cisco WAP200E Wireless-G Exterior Access Point.

Table 1. Specifications for the Cisco WAP200E Wireless-G Exterior Access Point: PoE

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 (WMM and unsolicited automatic power save delivery [U-APSD]), 802.11F (wireless roaming)
Ports	1 Ethernet, 1 external antenna
Buttons	Reset
Cabling type	Unshielded twisted pair (UTP) Category 5
LEDs	Power, Ethernet, Wireless
Operating system	Linux
Setup/Configuration	
Web user interface	Built-in web user interface for easy browser-based configuration (HTTP/HTTPS)
Static IP	Yes
Dynamic Host Configuration Protocol (DHCP) client	Yes
Management	
SNMP versions	1, 2, and 2c
Event logging	Yes
Web firmware upgrade	Yes
Diagnostics	Flash, RAM, LAN, WLAN
Operating Modes	
Access point	Access point mode, point-to-point bridge mode, point-to-multipoint bridge mode, repeater mode
Wireless	
Spec/modulation	802.11b/direct sequence spread spectrum (DSSS), 802.11g/orthogonal frequency division multiplexing (ODFM)
Data rates	802.11b: 1, 2, 5.5, 11 Mbps; 802.11g: 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps
Channels	11 North America, 13 Europe (ETSI and Japan) auto-channel selection
Number of internal antennas	2 at 6 dBi (directional)
Antenna connector type	Reverse polarity female N-type
Detachable antenna	Yes (sold separately)
RF power (Effective Isotropic Radiated Power [EIRP])	802.11g: typical 16.5 dBm, 802.11b: typical 17 dBm
Antenna gain	Internal antenna: 6 dBi
Adjustable power	Yes
Receiver sensitivity	802.11g: 54 Mbps at -65 dBm, 802.11b: 11 Mbps at -85 dBM
Security	
WEP/WPA/WPA2	WEP, WPA-PSK, WPA2-PSK, WPA Enterprise, WPA2 Enterprise
Connection 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; both isolation modes can be enabled at the same time.
Web-based utility access control	HTTP/HTTPS, wireless client web GUI access control
Wireless Security	
WEP bits	64, 128
WPA bits and parameters	128 - Temporal Key Integrity Protocol (TKIP)/Advanced Encryption Standard (AES)
WPA2 bits and parameters	256 - AES
SSID broadcast on/off	Yes
Client isolation	Yes

MAC-based wireless connection control	Yes
Wireless web GUI access on/off	Yes
Quality of Service	
QoS	• 4 queues • WMM wireless traffic prioritization
General	
• Wireless roaming based on IAPP (802.11F) • Auto-channel selection	
Environmental	
Dimensions **W x H x D**	6.42 x 8.07 x 2.17 in. (163 x 205 x 55 mm)
Unit weight	2.47 lb (1.121 kg)
Mounting options	Industrial-strength, weather-resistant housing, lightning protection for outdoor enclosure, ceiling or wall mountable
Power	• 48V DC • Maximum power draw: 4.8W
PoE in	Yes
Certification	FCC, IC,CE
Operating temperature	-4º to 140ºF (-20º to 60ºC)
Storage temperature	-4º to 140ºF (-20º to 60ºC)
Operating humidity	5% to 95%, noncondensing
Storage humidity	5% to 95%, noncondensing
Package Contents	
• Cisco WAP200E Wireless-G Exterior Access Point • User guide on CD-ROM • Mounting plate with hardware • 12-foot weather-resistant network cable • Registration card	
Minimum Requirements	
• 802.11b or 802.11g wireless adapter with TCP/IP installed per PC • Switch/router with PoE support or PoE injector • Web-based configuration: Java-enabled web browser	
Product Warranty	
Limited lifetime hardware warranty with return to factory replacement.	

The maximum performance for wireless is derived from IEEE standard 802.11 specifications. Actual performance can vary, including lower wireless network capacity, data throughput rate, range, and coverage. Performance depends on many factors, conditions, and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference, and other adverse conditions.

Check the product package and contents for specific features supported. Specifications are subject to change without notice.

Cisco Limited Lifetime Warranty for Cisco Small Business 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: www.cisco.com/cisco/web/download/index.html.

Product warranty terms and other information applicable to Cisco products are available at www.cisco.com/go/warranty.

For More Information

For more information on Cisco Small Business products and solutions, visit: http://www.cisco.com/smallbusiness.

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