Cisco WAP200

Cisco WAP200 Wireless-G Access Point Instruction Manual

MODEL: WAP200

1. Product Overview

The Cisco WAP200 Wireless-G Access Point enables the connection of Wireless-G (802.11g) or Wireless-B (802.11b) devices to your existing wired network. This allows for the expansion of your network to include wireless clients without the need for additional cabling. Its Power over Ethernet (PoE) support simplifies installation, permitting flexible placement even in locations without immediate access to a power outlet. When connected to a PoE-enabled switch or injector, a single Ethernet cable can deliver both data and power. An AC adapter is also included for installations where a power outlet is available. Integrated Quality of Service (QoS) features ensure consistent voice and video quality across both wired and wireless networks, supporting business-grade VoIP and video applications.

Figure 1-1: Cisco WAP200 Wireless-G Access Point. This image displays the top-down view of the access point with its two detachable antennas.

2. Key Features

- **Easy Installation and Configuration:** Designed for straightforward setup and full backward compatibility with 802.11b devices.
- **Ethernet Port:** Features a 10BASE-T/100BASE-TX Ethernet port with autosensing half/full duplex capabilities and support for MDI/MDI-X.
- **Security Protocols:** Supports Wired Equivalent Privacy (WEP), WPA Pre-Shared Key (WPA-PSK), WPA2-PSK, WPA-Enterprise, and WPA2-Enterprise authentication (802.11i ready).
- **Antennas:** Equipped with SMA detachable dipole antennas featuring 1x2 Multiple-Input, Multiple-Output (MIMO) technology to enhance wireless coverage.
- **Power Options:** Supports both Power over Ethernet (PoE) and external DC power via the included AC adapter.

3. Physical Description

3.1 Front Panel LEDs

Figure 3-1: Front Panel. This image shows the front panel of the WAP200 with four indicator LEDs.

Power (Green): Illuminates when the Access Point is powered on.

PoE (Green): Illuminates when the Access Point receives power through an Ethernet cable.

Wireless (Green): Illuminates when the wireless module is active. If flashing, the Access Point is actively transmitting or receiving wireless data.

Ethernet (Green): Illuminates when the Access Point is successfully connected to a device via the Ethernet network port. If flashing, the Access Point is actively transmitting or receiving data over the Ethernet network port.

3.2 Rear Panel Ports

Figure 3-2: Back View. This image details the rear panel connections of the WAP200.

Reset Button: Used to restore the Access Point to its factory default configuration. Press and hold for approximately ten seconds, or use the web-based utility. ***Important:*** *Resetting the Access Point will erase all configured settings, including wireless security (SSID, password, IP address). Do not reset if you wish to retain current settings.*

Ethernet Port: Connects to Ethernet network devices such as a switch or router. This port supports Power over Ethernet (PoE).

Power Port: Connects to the supplied power adapter for non-PoE installations.

3.3 Antennas and Positions

Figure 3-3: Desktop Placement and Antenna Setup. This image illustrates the WAP200 placed on a desktop with its antennas adjusted.

The Access Point features two detachable 2dBi omni-directional antennas located on the back of the device. For optimal MIMO range performance, adjust the two antennas to form a 90-degree angle. The Access Point can be placed on a desktop or wall-mounted and can be stacked with other Linksys Business Series products.

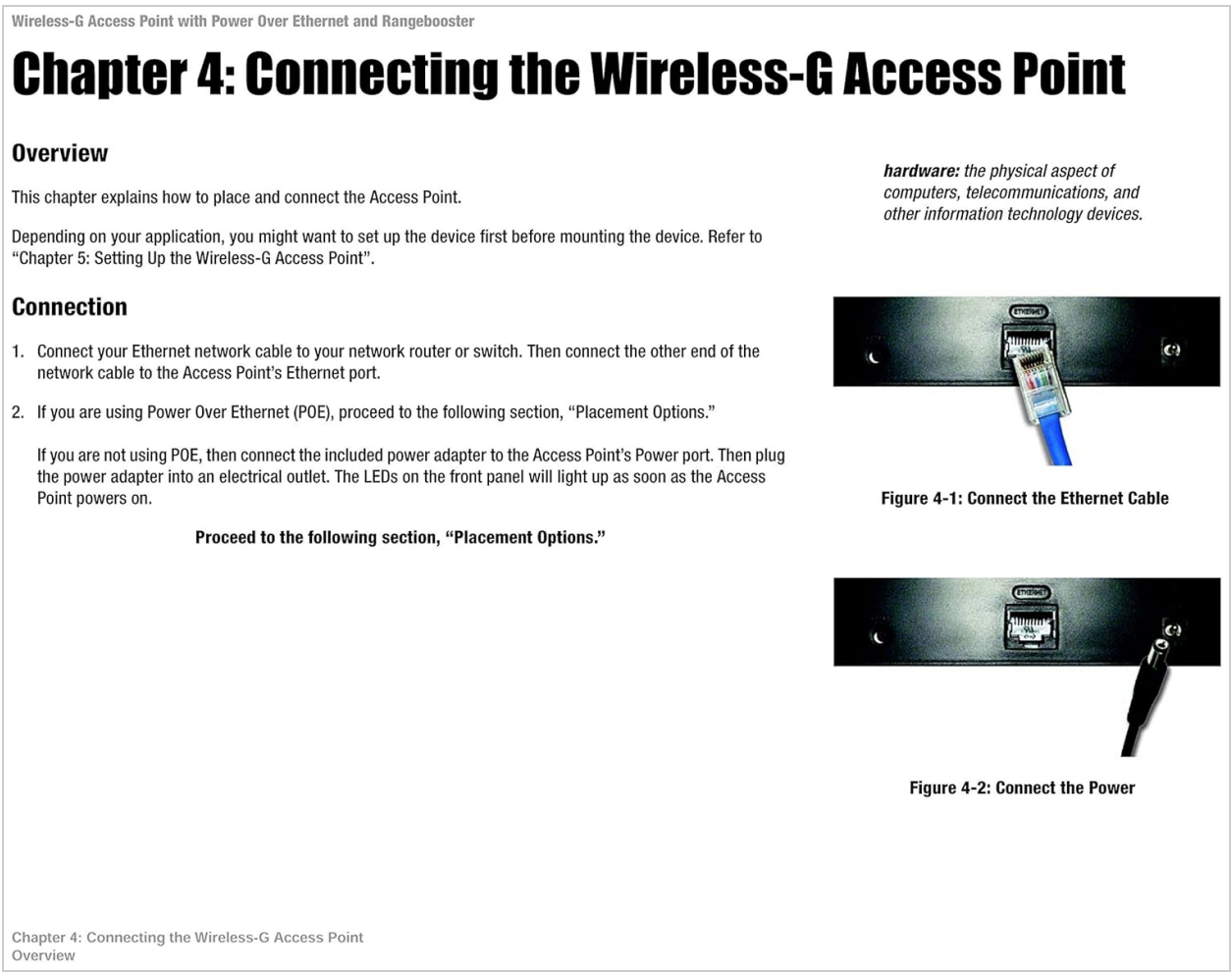
4. Network Setup Example

Figure 2-1: Example of a Simple Wireless Network. This diagram illustrates a typical infrastructure wireless network setup, showing how wireless access points connect to a switch, which then connects to a router for internet access.

The diagram above depicts a basic wireless network infrastructure. Wireless Access Points, such as the WAP200, connect to a network switch. This switch provides connectivity for multiple wireless devices and PCs that are wired to the network. The switch then connects to a router, which provides access to the global Internet.

5. Installation and Connection

5.1 Connecting the Ethernet Cable



Wireless-G Access Point with Power Over Ethernet and Rangebooster

Chapter 4: Connecting the Wireless-G Access Point

Overview

This chapter explains how to place and connect the Access Point.

Depending on your application, you might want to set up the device first before mounting the device. Refer to "Chapter 5: Setting Up the Wireless-G Access Point".

hardware: *the physical aspect of computers, telecommunications, and other information technology devices.*

Connection

1. Connect your Ethernet network cable to your network router or switch. Then connect the other end of the network cable to the Access Point's Ethernet port.
2. If you are using Power Over Ethernet (POE), proceed to the following section, "Placement Options."

   If you are not using POE, then connect the included power adapter to the Access Point's Power port. Then plug the power adapter into an electrical outlet. The LEDs on the front panel will light up as soon as the Access Point powers on.

Proceed to the following section, "Placement Options."

Figure 4-1: Connect the Ethernet Cable

Figure 4-2: Connect the Power

Chapter 4: Connecting the Wireless-G Access Point
Overview

Figure 4-1: Connect the Ethernet Cable. This image shows an Ethernet cable being inserted into the Ethernet port on the WAP200.

1. Connect one end of an Ethernet network cable to your network router or switch.
2. Connect the other end of the network cable to the Access Point's Ethernet port.

5.2 Connecting the Power

Example of a simple wireless network

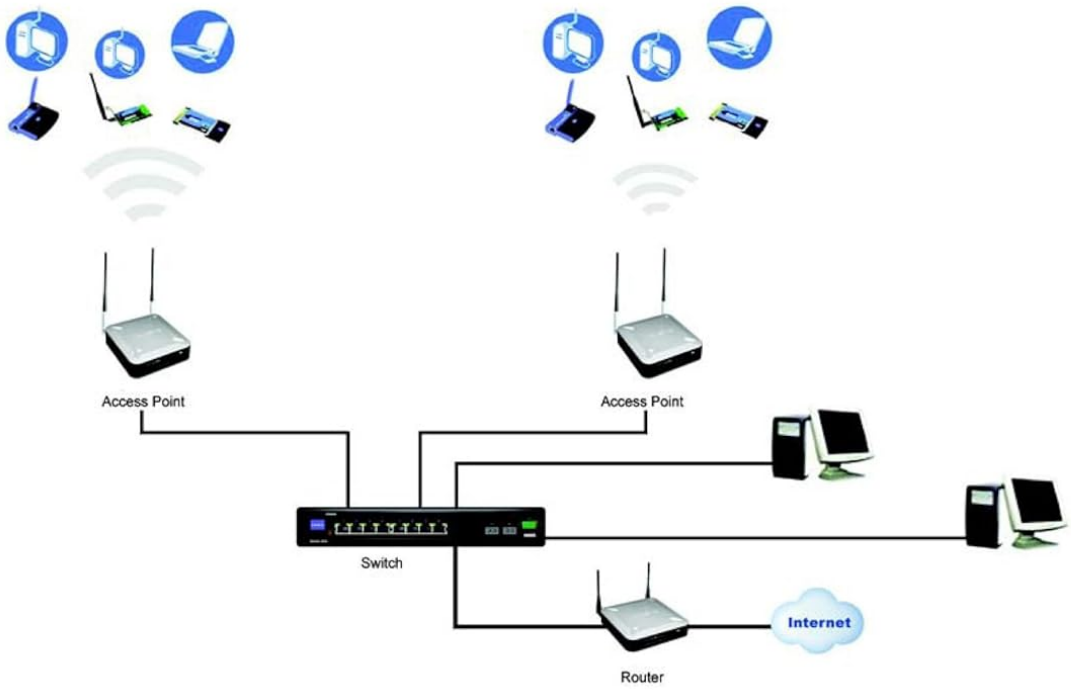


Figure 2-1: Example of a Simple Wireless Network

The above diagram shows a typical infrastructure wireless network setup. The wireless Access Points are connecting to a Linksys switch that provides power to the Access Points. Each Access Point can connect multiple wireless devices to the network. This network will provide connectivity among wireless network devices and PCs that have a wired connection to the switch.

The switch then can connect to a router that can connect to an ISP to reach global Internet.

Figure 4-2: Connect the Power. This image shows the power adapter being plugged into the WAP200's power input.

- **Using Power over Ethernet (PoE):** If your network switch or router supports PoE, the Access Point will receive power directly through the Ethernet cable. No separate power adapter is needed.
- **Using the AC Adapter:** If PoE is not available, connect the included power adapter to the Access Point's power port and then plug the adapter into an electrical outlet. The LEDs on the front panel will illuminate once the Access Point powers on.

6. Configuration

After physical installation, the Access Point requires configuration via its web-based management utility. To access this utility, connect a computer directly to the Access Point or to the same network segment. Open a web browser and enter the Access Point's default IP address (commonly 192.168.1.245 or similar, refer to the

device's label or documentation for the exact default IP). You will be prompted for a username and password (default typically 'admin' for both). From the web interface, you can configure wireless settings, security protocols, IP address, and other network parameters.

7. Operating the Access Point

Once configured, the WAP200 operates by broadcasting a wireless signal (SSID) that wireless devices can detect and connect to. It acts as a bridge between your wireless clients and your wired network, allowing wireless devices to access network resources and the internet. Ensure that your wireless devices are configured with the correct SSID and security key (WPA/WPA2-PSK) to connect successfully.

8. Maintenance

- **Firmware Updates:** Periodically check the Cisco support website for firmware updates. Keeping the firmware current ensures optimal performance, security, and compatibility.
- **Physical Environment:** Ensure the Access Point is placed in a well-ventilated area, away from direct sunlight, heat sources, and excessive moisture.
- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid liquid cleaners.
- **Security:** Regularly review your wireless security settings (SSID, password, encryption type) to maintain network integrity.

9. Troubleshooting

- **No Power:** Check power connections. If using PoE, ensure the PoE source is active. If using the AC adapter, verify it is securely plugged into both the device and a working electrical outlet.
- **No Wireless Signal:** Ensure the Wireless LED is illuminated. Verify that the wireless function is enabled in the web-based utility. Check antenna connections and positioning.
- **Cannot Connect to Network:** Verify that your wireless client is using the correct SSID and security key. Ensure the Access Point's IP address is within the same subnet as your network. If your network uses a different IP range (e.g., 192.168.2.x instead of 192.168.1.x), you may need to temporarily configure your PC with a static IP in the WAP200's default range to access its configuration interface and change its IP address.
- **Slow Connection:** Ensure optimal antenna positioning. Check for sources of interference (e.g., cordless phones, microwaves).
- **Factory Reset:** If configuration issues persist, perform a factory reset by pressing and holding the Reset button for approximately 10 seconds. This will revert all settings to their defaults, requiring a full reconfiguration.

10. Specifications

Product Dimensions	10.8 x 9.3 x 2.7 inches
Item Weight	2.1 pounds
Model Number	WAP200
Brand	Cisco
Special Feature	Access Point Mode, WPS

Frequency Band Class	Single-Band
Wireless Communication Standard	802.11b, 802.11g
Compatible Devices	Personal Computer
Recommended Uses	Home, Small Office
Connectivity Technology	Wi-Fi (802.11b, 802.11g), Ethernet
Operating System	Cisco IOS

11. Warranty and Support

For specific warranty information, please refer to the warranty card included with your product or visit the official Cisco support website. Technical support resources, including FAQs, documentation, and software downloads, are also available on the Cisco website. Please have your product model number (WAP200) and serial number ready when contacting support.