



Overview

This chapter describes the Cisco Aironet Workgroup Bridge, also referred to as a *bridge*, and covers the following topics:

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- Back Panel and Indicator Lights, page 1-2
- Network Configuration Using the Bridge, page 1-4
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Summary of Key Features

Workgroup bridges are small, stand-alone units that provide wireless infrastructure connections for Ethernet-enabled devices. A device connected to a bridge communicates with a network infrastructure through Cisco Aironet access points.

The bridge connects to a hub through a standard Ethernet port using a 10BASE-T/RJ-45 (twisted pair) connector, and up to eight client devices can be connected to the hub. You can use an Internet browser or Telnet to configure the bridge.

The bridge communicates with Cisco Aironet access points, but does not communicate with wireless networking devices manufactured by other companies.

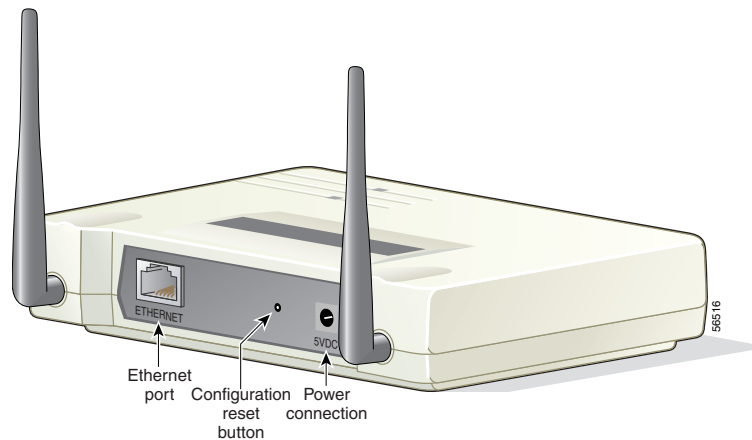
**Note**

If you use the bridge to provide a wireless connection for only one device, you can connect the bridge directly to the device's Ethernet port using a crossover cable. See Appendix C for a pinout diagram of a crossover cable.

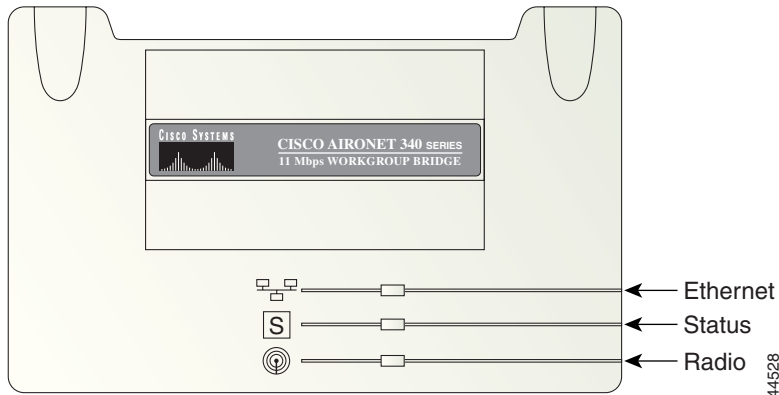
Back Panel and Indicator Lights

The bridge's back panel contains the configuration reset button, the Ethernet port, and the connection for the power adapter, as shown in Figure 1-1.

Figure 1-1 Back Panel of the Workgroup Bridge



The three indicator lights on top of the bridge report Ethernet activity, operational status, and radio activity. The indicators are labeled in Figure 1-2.

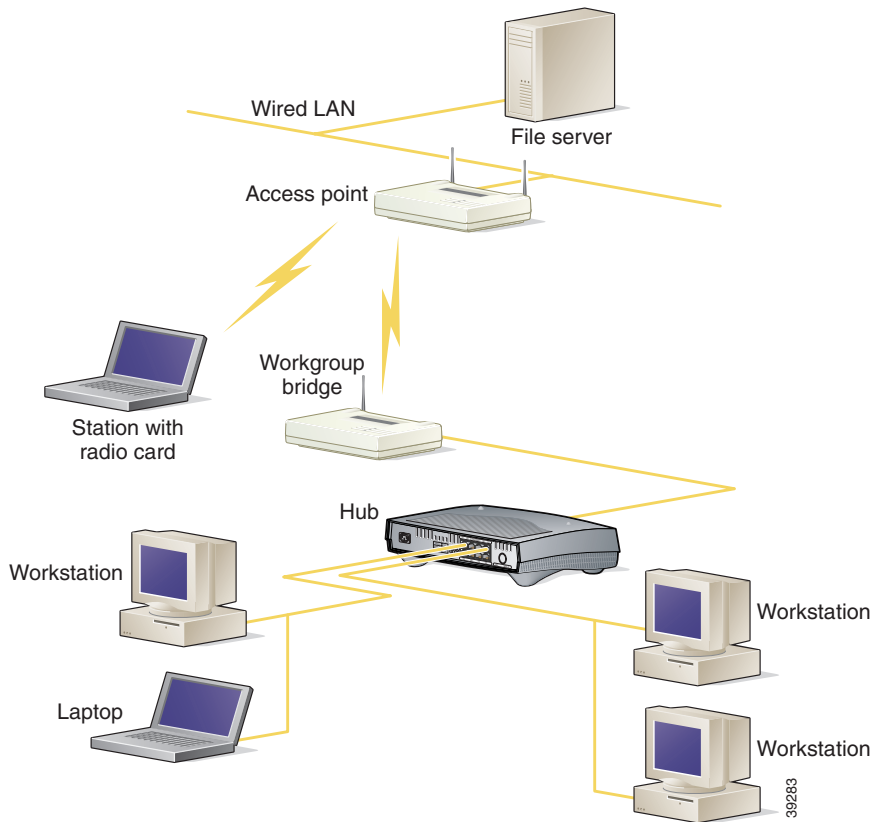
Figure 1-2 Indicator Lights on the Workgroup Bridge

- The Ethernet indicator signals Ethernet traffic on the wired LAN. This indicator blinks green when a packet is received or transmitted over the Ethernet infrastructure. The indicator blinks red when the Ethernet cable is not connected.
- The status indicator signals operational status. Blinking green indicates that the bridge is operating normally but is not communicating with an access point. Steady green indicates that the bridge is communicating with an access point.
- The radio indicator blinks green to indicate radio traffic activity. The light is normally off, but it will blink green whenever a packet is received or transmitted over the bridge's radio.

Network Configuration Using the Bridge

The bridge provides wireless LAN connections for up to eight clients and communicates with a Cisco Aironet access point as shown in Figure 1-3.

Figure 1-3 Bridge in a Wireless LAN



Bridge Specifications

Table 1-1 lists specifications for the bridge.

Table 1-1 Bridge Specifications

Category	Specification
Physical	
Size	6.30 in. (16 cm) wide x 4.72 in. (12 cm) deep x 1.45 in. (3.7 cm) high
Status indicators	Three indicators on the top panel: radio traffic, Ethernet traffic, and status.
Connectors	On the back panel: A barrel power connector (plug-in AC adapter) for a regulated 5V input and an RJ-45 jack for Ethernet connections.
Power supply	Power pack. The power pack is either 120VAC/60Hz or 90-264VAC/47-63Hz, whichever is appropriate for country of use.
Operating temperature range	32°F to 122°F (0°C to 50°C)
Weight	Less than 1 lb (0.45 kg)
Radio	
Power output	30 mW (340 series) 100 mW (350 series)
Frequency	2.400 to 2.497 GHz (Depending on the regulatory domain in which the bridge is installed)

Table 1-1 Bridge Specifications (continued)

Category	Specification
Range	<p>340 series:</p> <p>Indoor: 75 ft at 11 Mbps; 200 ft at 1 Mbps</p> <p>Outdoor: 300 ft at 11 Mbps; 1000 ft at 1 Mbps</p> <p>350 series:</p> <p>Indoor: 150 ft at 11Mbps; 350 ft at 1 Mbps</p> <p>Outdoor: 800 ft at 11 Mbps; 2000 ft at 1 Mbps</p>
Modulation	Direct Sequence Spread Spectrum
Data rates	1, 2, 5.5, and 11 Mbps
Antenna	Single captured 2 dBi gain antenna or a diversity system with two reverse-TNC connectors (antennas for this model are sold separately).
Compliance	Operates license-free under FCC Part 15 and complies as a Class B computing device. Complies with DOC regulations. Complies with ETS 300.328.