

Cisco Aironet 340 Series Workgroup Bridges In-Building or Building-to-Building Wireless Solutions

THE CISCO AIRONET WORKGROUP BRIDGE SERIES PROVIDES FLEXIBLE WIRELESS NETWORK CONNECTIONS FOR UP TO EIGHT ETHERNET DEVICES.

Cisco Aironet 340 Series Workgroup Bridge



Designed to meet the needs of mobile users, remote workgroups or satellite offices, the Cisco Aironet® 340 series workgroup bridge links up to eight Ethernet clients to a wireless LAN. Equipped with a standard Ethernet connector, the workgroup bridge connects to a single Ethernet device or, for up to eight devices, to a 10BaseT (RJ45) port of an Ethernet hub. The workgroup bridge communicates with Cisco Aironet 340 series access points or wireless bridges.

The workgroup bridge quickly connects an Ethernet-enabled laptop or other portable computer to a network and provides a plug-and-play solution for e-mail and Internet access. No drivers need to be installed, making it an ideal solution for the business traveler. Any Ethernet-ready device, including printers, copiers, PCs, point-of-sale devices, or monitoring equipment, can be placed directly at the point of work using the workgroup bridge—without the expense or delay of cabling. For temporary classrooms or temporary office space, the workgroup bridge provides flexible, easy network access for up to eight devices. Equipment can be easily moved as workgroups change in number or location, lowering facilities costs.

In a campus environment, the workgroup bridge connects workgroups in separate buildings, quickly and economically. The workgroup bridge can be located up to 10 miles away (about half of the distance of a wireless bridge) with clear line-of-sight from a Cisco Aironet 340 series wireless bridge by using an optional long-range antenna. The workgroup bridge eliminates cable installation costs and allows for quick redeployment of equipment when expanding or moving to a new location.

The workgroup bridge is available with a single omnidirectional dipole antenna. An option with two RP-TNC (reverse polarity threaded naval connector) connectors is also available for applications that require antenna diversity or higher-gain antennas for long-range applications. Using direct sequence spread spectrum (DSSS) technology, the workgroup bridge operates in the unlicensed 2.4 GHz band and supports data rates up to 11 Mbps. Understanding the security requirements of small- and medium-sized businesses as well as the enterprise, Cisco provides 40-bit and 128-bit Wired Equivalent Privacy (WEP) to provide data security equal to traditional wired networks. Other features include advanced diagnostic tools to simplify troubleshooting, remote system configuration and management via browser, Telnet, FTP or SNMP. The workgroup bridge:

- Links single devices or workgroups of up to eight clients to a LAN
- Attaches to any standard Ethernet hub for applications connecting 2-8 Ethernet-ready devices
- Simple client installation, with no drivers required
- Offers up to 11 Mbps data rate
- Supports long ranges outdoors with optional antennas

Figure 1 Mobile Ethernet enabled user connecting to a workgroup bridge

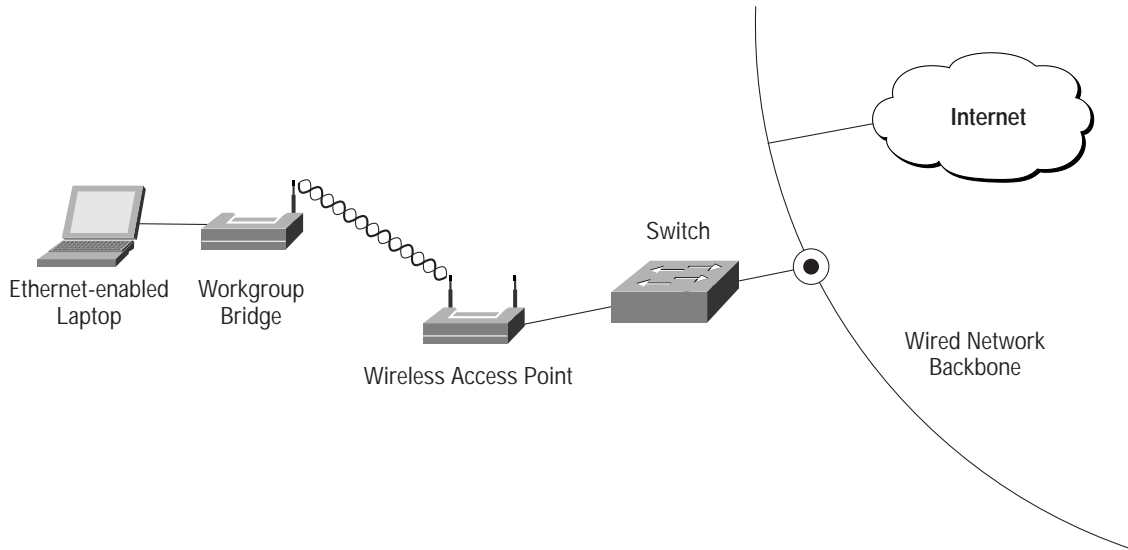


Figure 2 A remote workgroup

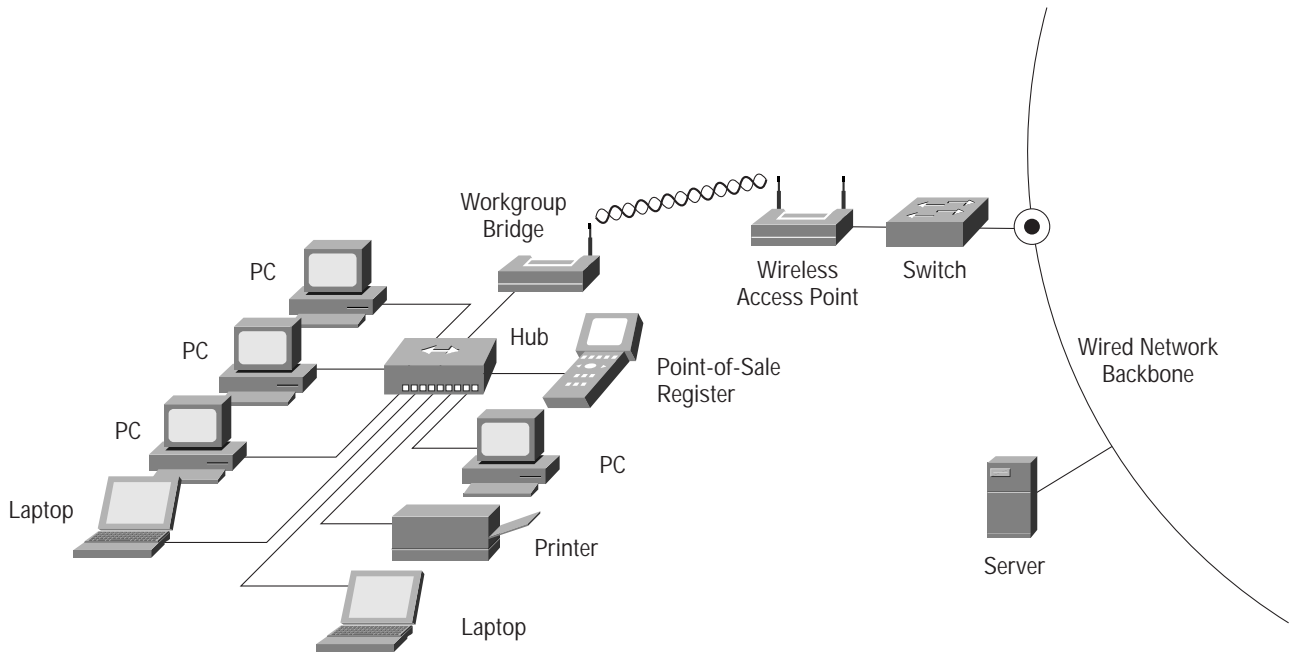
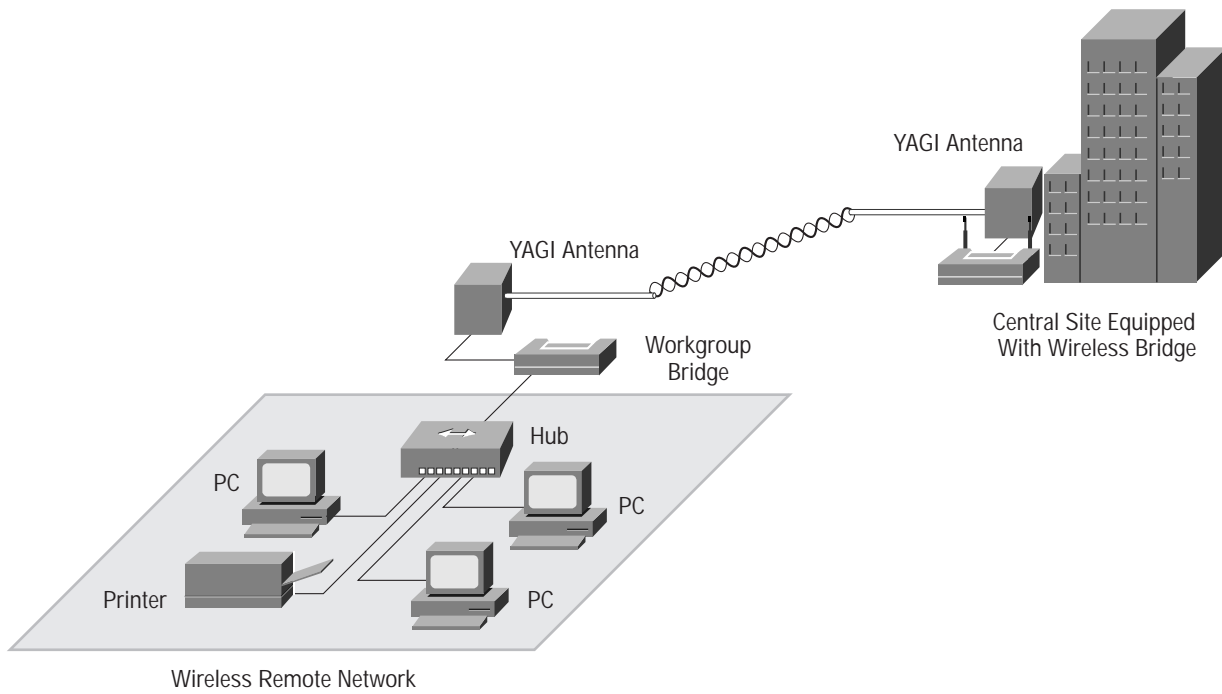


Figure 3 Satellite office



Cisco Aironet 340 Series Workgroup Bridge Specifications

Physical	
Status Indicators	Three indicators on the top panel: radio traffic, Ethernet traffic and status
Connectors	On the back panel: barrel power connector (plug-in for AC adapter) and RJ-45 Ethernet connector
Power Supply	Standard power pack (120VAC/60Hz) Universal power pack (90-264VAC/47-63Hz)
Temperature	32° F to 122° F (0° C to 50° C)
Humidity	10 to 90 percent noncondensing
Dimensions	6.3 in x 4.72 in x 1.45 in (16 cm x 12 cm x 3.7 cm)
Weight	Less than 1 lb. (0.45 kg.) excluding power supply
Radio	
Frequency	2.400 to 2.497 GHz
Range When Communicating to a 340 Series Access Point (typical)	Indoor office: 100 ft. (30 m) at 11 Mbps; 300 ft. (91 m) at 1 Mbps Outdoor (with standard dipole): 400 ft. (122 m) at 11 Mbps; 1,500 ft. (460 m) at 1 Mbps
Receive Sensitivity	-90 dBm@ 1 Mbps -88@ 2 Mbps -87@ 5.5 Mbps -84 @ 11 Mbps
Modulation	DBPSK @ 1 Mbps DQPSK @ 2 Mbps CCK @ 5.5 and 11 Mbps

Cisco Aironet 340 Series Workgroup Bridge Specifications

Output Power	30 mW (15 dBm)
Wireless Medium	Direct Sequence Spread Spectrum
Operating Channels	11 Channels (US, Canada and Japan) 13 Channels (ETSI)
Simultaneous Channels	Three
Data Rates	1, 2, 5.5 and 11 Mbps
Network Information	
Network Architecture Type	Infrastructure via a Cisco Aironet access point or bridge
Device Drivers	None required
Network Support	Transparent TCP/IP
Network Connection Type	10BaseT
Network Protocols Supported	IEEE 802.3 and Ethernet blue book
Security	System ID required, up to 32 ASCII characters 40-bit WEP and 128-bit WEP available
General	
Antenna	Single captured 2.2 dBi antenna or two (diversity) RP-TNC connectors for use with optional antennas
Certification	Operates license-free under FCC Part 15 and complies as a Class B device. Complies with DOC regulations. Complies with ETS 300.328, FTZ 2100 and MPT 1349 standards. Call for other information on use outside of the USA.
Warranty	One year

Cisco Aironet 340 Series Ordering Information

Product Number	Description
AIR-WGB341C	340 Series 11 Mbps DSSS Workgroup Bridge w/ 40-bit WEP & Captured Antenna
AIR-WGB342C	340 Series 11 Mbps DSSS Workgroup Bridge w/ 128-bit WEP & Captured Antenna
AIR-WGB341R	340 Series 11 Mbps DSSS Workgroup Bridge w/ 40-bit WEP & RP-TNC
AIR-WGB342R	340 Series 11 Mbps DSSS Workgroup Bridge w/ 128-bit WEP & RP-TNC



Corporate Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters

Cisco Systems Europe
11, Rue Camille Desmoulins
92782 Issy Les Moulineaux
Cedex 9
France
www.cisco.com
Tel: 33 1 58 04 60 00
Fax: 33 1 58 04 61 00

Americas Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-7660
Fax: 408 527-0883

Asia Pacific Headquarters

Cisco Systems Australia, Pty., Ltd
Level 17, 99 Walker Street
North Sydney
NSW 2059 Australia
www.cisco.com
Tel: +61 2 8448 7100
Fax: +61 2 9957 4350

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