Cisco WAP371 Wireless-AC/N Dual Radio Access Point with Single Point Setup

High-Performance, Easy-to-Deploy, and Highly Secure Business-Class Wireless-AC Connectivity.

Highlights

- Provides cost-effective 802.11ac connectivity up to three times the 802.11n speed
- Supports 3x3 multiple-input multiple-output (MIMO) technology with three spatial streams for maximum performance
- Gigabit Ethernet LAN interface with Power over Ethernet (PoE) facilitates flexible installation
- Captive portal helps enable highly secure guest access with customized roles and rights
- Single Point Setup requires no controller, for easy cost-effective deployment of multiple access points
- Works right out of the box with easy installation and simple web-based configuration and wizard

Product Overview

In today's dynamic business environment, employees are becoming more mobile and collaborative than ever. To stay productive, they need dependable, business-class access to network applications throughout the office. The Cisco WAP371 Wireless-AC/N Dual Radio Access Points provide a simple, cost-effective way to extend highly secure, high-performance mobile networking to your employees and guests, so they can stay connected anywhere in the office. This flexible solution lets you connect dozens of employees, and can scale to accommodate additional users and changing business needs.

The Cisco WAP371 Wireless-AC/N Dual Radio Access Points use concurrent dual-band radios for improved coverage and user capacity. The 3x3 multiple-input multiple-output (MIMO) technology with three spatial streams allows the access point to run at maximum performance. Gigabit Ethernet LAN interfaces with PoE facilitates flexible installation and reduces cabling and wiring costs. Intelligent quality-of-service (QoS) features let you prioritize bandwidth-sensitive traffic for voice over IP (VoIP) and video applications.

To provide highly secure guest access to visitors and other users, the Cisco WAP371 Wireless-AC/N Dual Radio Access Points support a captive portal with multiple authentication options and the ability to configure rights, roles, and bandwidth. A customized guest login page lets you present a welcome message and access details, and reinforces your brand with company logos.

The Cisco WAP371 Wireless-AC/N Dual Radio Access Points are easy to set up and use, with intuitive wizard-based configuration to get you up and running in minutes. An attractive design with flexible mounting options allows the access points to smoothly blend into any small-business environment.

To enhance reliability and safeguard sensitive business information, the Cisco WAP371 Wireless-AC/N Dual Radio Access Points support both Wi-Fi Protected Access (WPA) Personal and Enterprise, encoding all your wireless transmissions with powerful encryption. In addition, 802.1X RADIUS authentication helps keep unauthorized users out.

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Designed to scale smoothly as your organization grows, the access points feature controller-less Single Point Setup that simplifies the deployment of multiple access points without additional hardware. With Cisco WAP371 Wireless-AC/N Dual Radio Access Points, you can extend business-class wireless networking to employees and guests anywhere in the office, with the flexibility to meet new business needs for years to come.

Figure 1 shows a typical wireless access point configuration. Figures 2 and 3 show the product's front and back panels, respectively.

Figure 1. Typical Configuration

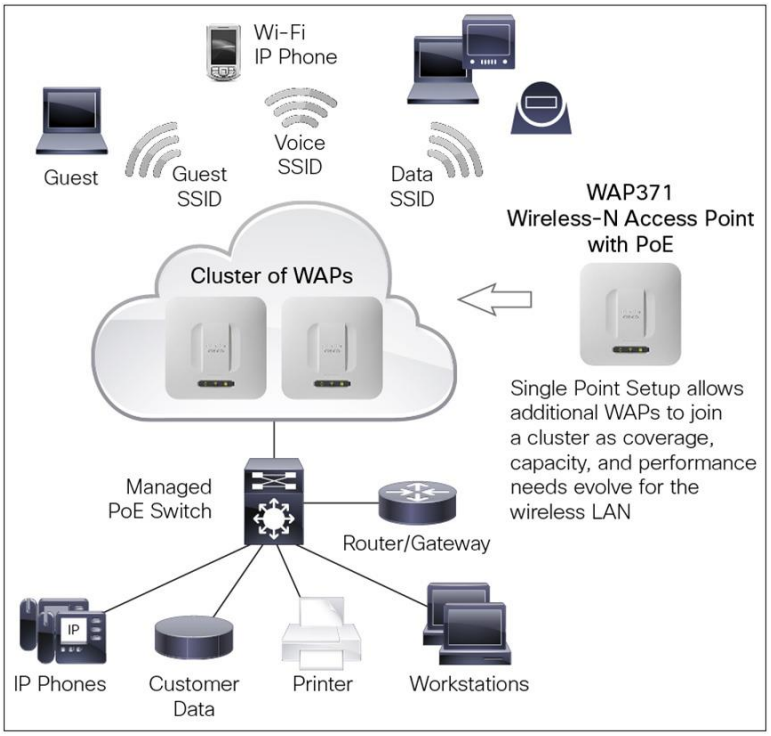

Figure 2. Front Panel of Cisco WAP371 Wireless-AC/N Dual Radio Access Point with Single Point Setup

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Figure 3. Back Panel of the Cisco WAP371 Wireless-AC/N Dual Radio Access Point with Single Point Setup

Features

- Concurrent dual-band radio support up to 900 Mbps to maximize capacity and coverage.
- 3x3 multiple-input multiple-output (MIMO) with three spatial streams allows maximum performance.
- Single Point Setup, a controller-less technology, simplifies the deployment and management of multiple access points - without requiring additional hardware.
- The Gigabit Ethernet LAN interface enables a high-speed uplink to the wired network.
- Robust security, including WPA2, 802.1X with RADIUS secure authentication, and rogue access point detection, help protect sensitive business information.
- Captive portal support facilitates highly secure, customized guest access with multiple rights and roles.
- Simple installation and intuitive web-based configuration and wizard facilitate fast, simple deployment and setup in minutes.
- Support for PoE allows for easy installation without expensive additional wiring.
- Sleek design with multiple internal antennas and versatile mounting kit allows for installation on a ceiling, wall, or desktop.
- Intelligent QoS prioritizes network traffic to help keep critical network applications running at top performance.
- Power-saving sleep mode and port control features help maximize energy efficiency.
- Workgroup Bridge mode lets you expand your network by wirelessly connecting to a second Ethernet network.
- Support for IPv6 lets you deploy future networking applications and operating systems without costly upgrades.
- Limited lifetime hardware warranty provides peace of mind.

Specifications

Table 1 lists the specifications, package contents, and minimum requirements for the Cisco 500 Series access points.

Table 1. Specifications for the Cisco WAP371 Small Business Wireless Access Points

Specifications	Description
Standards	IEEE 802.11ac, 802.11n, 802.11g, 802.11b, 802.3af, 802.3u, 802.1X (security authentication), 802.1Q (VLAN), 802.1D (Spanning Tree), 802.11i (WPA2 security), 802.11e (wireless QoS), IPv4 (RFC 791), IPv6 (RFC 2460)
Ports	LAN Gigabit Ethernet autosensing
Cabling type	Category 5e or better
Antennas	Internal antennas optimized for installation on a wall or ceiling
LED indicators	Power, WLAN, LAN
Operating system	Linux

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Specifications	Description
Physical Interfaces	
Ports	10/100/1000 Ethernet, with support for 802.3af/at PoE, power port for AC adapter (not included)
Buttons	Reset button
Lock slot	Slot for Kensington lock
LEDs	Power, Wireless, Ethernet
Physical Specifications	
Physical dimensions (W x D x H)	9.05 x 9.05 x 1.69 in. (230 x 230 x 43 mm)
Weight	1.81 lb or 740 g
Network Capabilities	
VLAN support	Yes
Number of VLANs	1 management VLAN plus 16 VLANs for SSIDs
802.1X supplicant	Yes
SSID-to-VLAN mapping	Yes
Auto channel selection	Yes
Spanning tree	Yes
Load balancing	Yes
IPv6	Yes • IPv6 host support • IPv6 RADIUS, syslog, Network Time Protocol (NTP), etc.
Layer 2	802.1Q-based VLANS, 16 active VLANS plus 1 management VLAN
Security	
WPA/WPA2	Yes, including Enterprise authentication
Access control	Yes, management access control list (ACL) plus MAC ACL
Secure management	HTTPS
SSID broadcast	Yes
Rogue access point detection	Yes
Mounting and Physical Security	
Multiple mounting options	Mounting bracket included for easy ceiling or wall mounting
Physical security lock	Kensington lock slot
Quality of Service	
QoS	Wi-Fi Multimedia and Traffic Specification (WMM TSPEC), Client QoS
Performance	
Wireless throughput	Up to 950-Mbps data rate (real-world throughput will vary)
Recommended user support	Up to 64 connective users, 30 active users per radio
Multiple-Access Point Management	
Single Point Setup	Yes
Number of access points per cluster	8
Active clients per cluster	240
Configuration	
Web user interface	Built-in web user interface for easy browser-based configuration (HTTP/HTTPS)
Management	
Management protocols	Web browser, Simple Network Management Protocol (SNMP) v3, Bonjour
Remote management	Yes
Event logging	Local, remote syslog, email alerts

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Specifications	Description
Network diagnostics	Logging and packet capture
Web firmware upgrade	Firmware upgradable through web browser, imported/exported configuration file
Dynamic Host Configuration Protocol (DHCP)	DHCP client
IPv6 host	Yes
HTTP redirect	Yes
Wireless	
Frequency	Dual concurrent radios (2.4 and 5 GHz)
Radio and modulation type	Dual radio, orthogonal frequency division multiplexing (OFDM)
WLAN	802.11n/ac 3x3 multiple-input multiple-output (MIMO) with 3 spatial streams at 5 GHz 2x2 MIMO with 2 spatial streams at 2.4 GHz 20-, 40-, and 80-MHz channels for 802.11ac 20- and 40-MHz for 802.11n PHY data rate up to 1.6 Gbps 802.11 dynamic frequency selection (DFS)
Data rates supported	802.11a/b/g: • 54, 48, 36, 24, 18, 12, 9, 6, 11, 5.5, 2, and 1 Mbps • 802.11n: 6.5 to 450 Mbps ◦ 20-MHz bandwidth: MCS 0-15 for supported data rates ◦ 40-MHz bandwidth: MCS 0-15 for supported data rates • 802.11ac: 6.5 to 1300 Mbps ◦ 20-MHz bandwidth: MCS 0-9 for supported data rates ◦ 40-MHz bandwidth: MCS 0-9 for supported data rates ◦ 80-MHz bandwidth: MCS 0-9 for supported data rates
Frequency band and operating channels	**802.11b** 2412 2437 2462 **802.11g** 2412 2437 2462 **802.11n 20 MHz (2.4-GHz Band)** 2412 2437 2462 **802.11n 40 MHz (2.4-GHz Band)** 2422 2437 2452 **802.11a** 5180 5320 5500 5700 **802.11n 20 MHz (5-GHz Band)** 5180 5320 5500 5700 5825 **802.11n 40 MHz (5-GHz Band)** 5190 5510 5795
Nonoverlapping channels	**2.4 GHz** • 802.11b/g ◦ 20 MHz: 3 • 802.11n ◦ 20 MHz: 3 **5 GHz** • 802.11a ◦ 20 MHz: 21 • 802.11n ◦ 20 MHz: 21 ◦ 40 MHz: 9 • 802.11ac

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Specifications	Description
	◦ 20 MHz: 21 ◦ 40 MHz: 9 ◦ 80 MHz: 5
Transmitted output power	2.4 GHz • 802.11b: 17.0 +/- 1.5 dBm @ CH6, all rates • 802.11g: 17.0 +/- 1.5 dBm @ CH6, 6 Mbps • 802.11g: 15.0 +/- 1.5 dBm @ CH6, 54 Mbps • 802.11n(HT20): 17.0 +/- 1.5 dBm @ CH6, MCS0 • 802.11n(HT20): 14.0 +/- 1.5 dBm @ CH6, MCS15 • 802.11n(HT40): 12.0 +/- 1.5 dBm @ CH6, all rates 5 GHz UNII-1 (5150 to 5250 MHz) • 802.11a: 10 +/- 1.5 dBm @ all rates • 802.11ac(HT20): 10 +/- 1.5 dBm @ all rates • 802.11ac(HT40): 11 +/- 1.5 dBm @ all rates • 802.11ac(HT80): 11 +/- 1.5 dBm @ all rates 5 GHz UNII-2 (5250 to 5350 MHz)/UNII-2 Extended (5470 to 5725 MHz) • 802.11a: 16.0 +/- 1.5 dBm @ 6 Mbps • 802.11a: 15.0 +/- 1.5 dBm @ 54 Mbps • 802.11ac(HT20): 16.0 +/- 1.5 dBm @ MCS0 • 802.11ac(HT20): 13.0 +/- 1.5 dBm @ MCS9 • 802.11ac(HT40): 18.0 +/- 1.5 dBm @ MCS0 • 802.11ac(HT40): 13.0 +/- 1.5 dBm @ MCS9 802.11ac(HT80): 13.0 +/- 1.5 dBm @ all rates 5 GHz UNII-3 (5725 to 5850 MHz) • 802.11a: 18.0 +/- 1.5 dBm @ 6 Mbps • 802.11a: 15.0 +/- 1.5 dBm @ 54 Mbps • 802.11ac(HT20): 18.0 +/- 1.5 dBm @ MCS0 • 802.11ac(HT20): 13.0 +/- 1.5 dBm @ MCS9 • 802.11ac(HT40): 18.0 +/- 1.5 dBm @ MCS0 • 802.11ac(HT40): 13.0 +/- 1.5 dBm @ MCS9 • 802.11ac(HT80): 18.0 +/- 1.5 dBm @ MCS0 • 802.11ac(HT80): 13.0 +/- 1.5 dBm @ MCS9
Wireless isolation	Wireless isolation between clients
External antennas	None
Internal antennas	Internal fixed PIFA antenna
Antenna gain in dBi	2 dBi each antenna
Receiver sensitivity	2.4 GHz • 802.11b: -86 dBm @ 11 Mbps • 802.11g: -75 dBm @ 54 Mbps • 802.11n(HT20): -69 dBm @ MCS15 • 802.11n(HT40): -66 dBm @ MCS15 5 GHz • 802.11a: -79 dBm @ 54 Mbps • 802.11ac(HT20): -62 dBm @ MCS9 • 802.11ac(HT40): -59 dBm @ MCS9 • 802.11ac(HT80): -57 dBm @ MCS9
Wireless distribution system (WDS)	Yes
Fast roaming	Yes
Multiple SSIDs	16
Wireless VLAN map	Yes
WLAN security	Yes
Wi-Fi Multimedia (WMM)	Yes, with unscheduled automatic power save

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Specifications	Description
Operating Modes	
Access point	Access Point mode, WDS Bridging, Workgroup Bridge mode
Environmental	
Power options	IEEE 802.3at Ethernet switch Cisco power injector: SB-PWR-INJ2-xx AC adapter: SB-PWR-12V2A-xx Peak power: 17W
Compliance	Safety: • UL 60950-1 • CAN/CSA-C22.2 No. 60950-1 • IEC 60950-1 • EN 60950-1 Radio approvals: • FCC Part 15.247, 15.407 • RSS-210 (Canada) • EN 300.328, EN 301.893 (Europe) • AS/NZS 4268.2003 (Australia and New Zealand) EMI and susceptibility (Class B): • FCC Part 15.107 and 15.109 • ICES-003 (Canada) • EN 301.489-1 and -17 (Europe)
Operating temperature	0° to 40°C (32° to 104°F)
Storage temperature	–20° to 70°C (–4° to 158°F)
Operating humidity	10% to 85% noncondensing
Storage humidity	5% to 90% noncondensing
System memory	64 MB RAM 32 MB flash
Package Contents	
• Cisco WAP371 Wireless-AC/N Dual Radio Access Point • Ceiling/wall mounting kit • User guide on CD-ROM • Quick-start guide • Ethernet network cable	
Minimum Requirements	
• Switch/router with PoE support, PoE injector, or AC power adapter • Web-based configuration: Java-enabled web browser	
Warranty	
Access point	Limited lifetime

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Ordering Information

Table 2 shows the product part numbers and descriptions to make ordering easier.

Table 2. Product Ordering Information

Part Number	Description
WAP371-A-K9	Cisco WAP371 Wireless-AC/N Dual Radio Access Point with Single Point Setup (United States, Canada, Mexico)
WAP371-C-K9	Cisco WAP371 Wireless-AC/N Dual Radio Access Point with Single Point Setup (China)
WAP371-E-K9	Cisco WAP371 Wireless-AC/N Dual Radio Access Point with Single Point Setup (Europe)
WAP371-K-K9	Cisco WAP371 Wireless-AC/N Dual Radio Access Point with Single Point Setup (Korea)

Cisco Limited Lifetime Warranty for Cisco Small Business Products

This Cisco Small Business product comes with a limited lifetime hardware warranty. Product warranty terms and other information applicable to Cisco products are available on the Warranty Page.

Cisco Small Business Support Service

This optional service offers affordable, 3-year, peace-of-mind coverage. This subscription-based, device-level service helps you protect your investment and derive maximum value from Cisco Small Business products. Delivered by Cisco and backed by your trusted partner, this comprehensive service includes software updates, extended access to the Cisco Small Business Support Center, and expedited hardware replacement, should it be required.

For More Information

For more information about Cisco Small Business products and solutions, visit the Small Business Page or the Product Page.

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