

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.

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

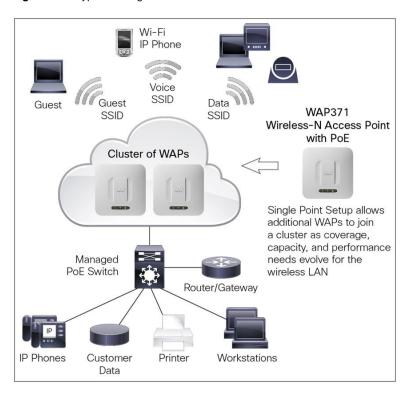


Figure 2. Front Panel of Cisco WAP371 Wireless-AC/N Dual Radio Access Point with Single Point Setup



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 per radio 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 |

| 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 Manageme | | | |
| 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 | | |

| 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 | 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 80-MHz bandwidth: MCS 0-9 for supported data rates | | |
| Frequency band and operating | 802.11b | 802.11a | |
| channels | 2412 | 5180 | |
| | 2437 | 5320 | |
| | 2462 | 5500 | |
| | 802.11g | 5700 802.11n 20 MHz (5-GHz Band) | |
| | 2412 | 5180 | |
| | 2437 2462 | 5320 | |
| | 802.11n 20 MHz (2.4-GHz Band) | 5500 | |
| | 2412 | 5700 | |
| | 2437 | 5825 | |
| | 2462 | 802.11n 40 MHz (5-GHz Band) | |
| | 802.11n 40 MHz (2.4-GHz Band) | 5190 | |
| | 2422 | 5510 | |
| | 2437 | 5795 | |
| | 2452 | | |
| 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 | | |

| 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 902.44ac(HT90): 44 -/ 4.5 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 |

| Specifications | Description |
|-----------------------|--|
| Operating Modes | |
| Access point | Access Point mode, WDS Bridging, Workgroup Bridge mode |
| Environmental | |
| Power options | IEEE 802.3af 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

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, Australia/New Zealand) |
| 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 <u>Warranty Page</u>.

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 <u>Small Business Page</u> or the <u>Product Page</u>.



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Printed in USA C78-727995-02 05/14