

Cisco WAP571 Wireless-AC/N Premium Dual Radio Access Point with PoE

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High-Performance, Easy-to-Deploy, Highly Secure Business-Class Wireless-AC Connectivity for Indoor Spaces.

Highlights

- Provides cost-effective 802.11ac connectivity with speed up to 1.9Gbps
- Supports 3x3 Multiple-Input Multiple-Output (MIMO) technology with three spatial streams for maximum performance on both 2.4- and 5.0-GHz radios
- Dual Gigabit Ethernet LAN with Energy Efficient Ethernet and link aggregation support
- Secure guest WiFi access with 3rd party cloud managed guest WiFi services support
- Cisco Umbrella integration to protect wireless devices from malware and phishing
- Supported by the new Cisco[®] Find IT Network Management platform for easy management and control
- 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 mobile friendly web-based configuration and wizard
- Provides peace of mind with a limited lifetime hardware warranty

Product overview

In today's dynamic business environment, employees are becoming more mobile and collaborative than ever. Businesses are now depending on cloud applications like Office 365 or Gmail. To stay productive, they need reliable, and fast wireless network to access mission critical applications with no delays.

Cisco[®] WAP571 Wireless-AC/N Premium 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 have the best experience to 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 WAP571 Wireless-AC/N Premium Dual Radio Access Point uses concurrent dual-band radio 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 in both the 5.0-GHz and 2.4-GHz frequency. Gigabit Ethernet LAN interfaces with Power over Ethernet (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 WiFi access to visitors and other users, WAP571 Wireless-AC/N Premium 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 WAP571 access point also offers support for 3rd party cloud managed guest WiFi services allowing you to control Internet access for guests and give your customers a better guest WiFi experience.

WAP571 Wireless-AC/N Premium 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 WAP571 Wireless-AC/N Premium 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. The WAP571 access point is now integrated with Cisco Umbrella to protect employee and guest WiFi against web threats such as malware, ransomware and more.

Designed to scale smoothly as your organization grows, the access points feature controller-less Single Point Setup, which simplifies the deployment of multiple access points without additional hardware. With a Wireless-AC/N Premium Dual Radio Access Point, 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.

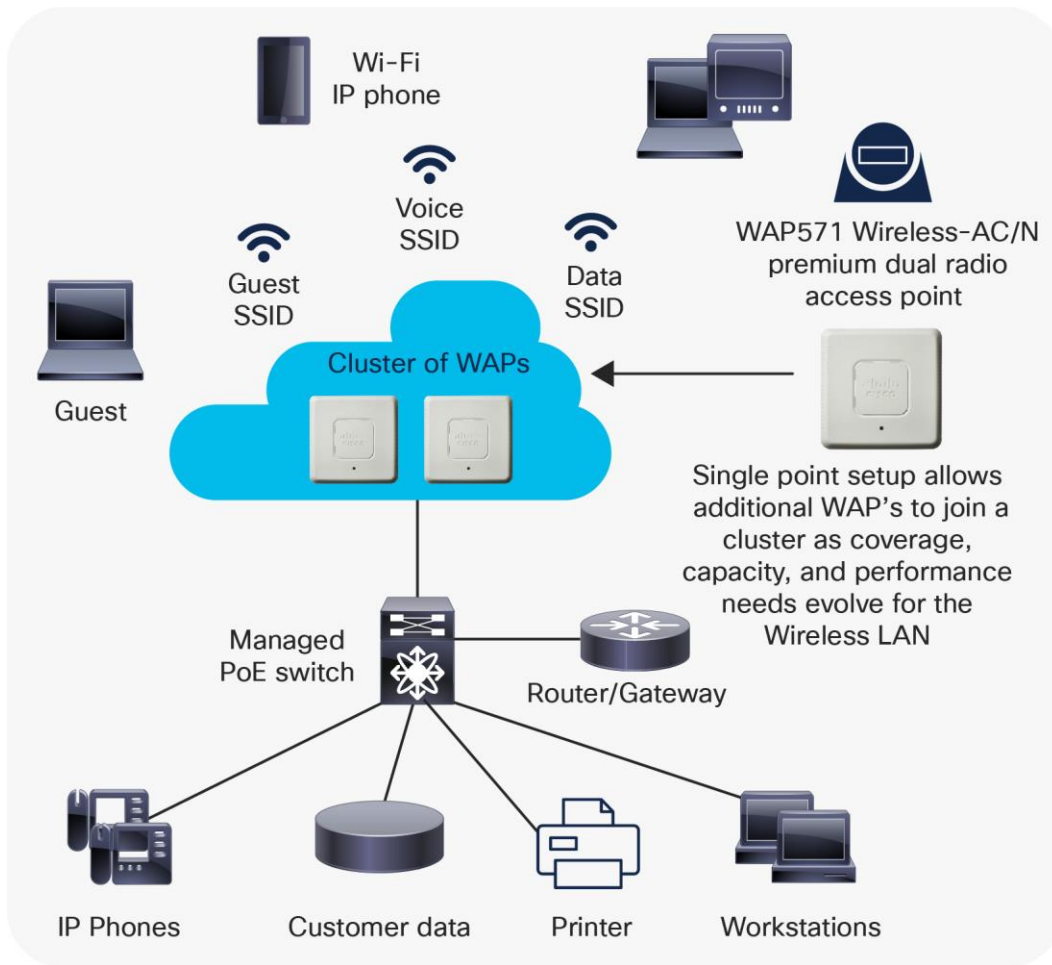


Figure 1.
Typical configuration



Figure 2.
Front Panel of the WAP571 Wireless-AC/N premium dual radio access point



Figure 3.
Back Panel of the WAP571 Wireless-AC/N premium dual radio access point

Features

- Concurrent dual-band radio support up to 1.3 Gbps on a 5.0-GHz radio and 600 Mbps on a 2.4-GHz radio to make the most of capacity and coverage
- 3x3 MIMO with three spatial streams on both 5.0 GHz and 2.4 GHz allows for maximum performance
- Single Point Setup, a controller-less technology, simplifies the deployment and management of multiple access points, without requiring additional hardware
- A two-Gigabit Ethernet LAN interface can enable a high-speed uplink to the wired network and also link aggregation support to increase the overall bandwidth between the two ports
- Robust security, including WPA2, 802.1X with RADIUS secure authentication, and rogue access point detection, help protect sensitive business information
- A captive portal support facilitates highly secure, customized guest access with multiple rights and roles

- Simple installation and an intuitive web-based configuration and wizard facilitate fast, simple deployment and setup in minutes
- Support Plug and Play feature for mass deployments, when using FindIT network management platform
- Support for PoE allows for easy installation without expensive additional wiring
- Sleek design with multiple internal antennas and a 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
- A power-saving sleep mode and port control features help increase energy efficiency
- Workgroup Bridge mode lets you expand your network by wirelessly connecting to a second Ethernet network
- Integrated Spectrum Analyzer to provide comprehensive monitoring of the Radio Frequency (RF) environment

Specifications

Table 1 lists the specifications, package contents, and minimum requirements for the WAP571 Wireless-AC/N Premium Dual Radio Access Point.

Table 1. WAP571 Wireless-AC/N premium dual radio access point specifications

| Specifications | Description |
|----------------------------|---|
| Standards | IEEE 802.11ac, 802.11a, 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 | 2 LAN Gigabit Ethernet autosensing |
| Cabling type | Category 5e or better |
| Antennas | Internal antennas optimized for installation on a wall or ceiling |
| LED indicators | One LED |
| Operating system | Linux |
| Physical Interfaces | |
| Ports | 2- 10/100/1000 Ethernet, with support for 802.3at at PoE support is only for 1 port and not 2 ports |
| Buttons | Reset button |
| Lock slot | Slot for Kensington lock |
| LEDs | One multi-function LED |

| Specifications | Description |
|---------------------------------------|---|
| Physical Specifications | |
| Physical dimensions (W x D x H) | 9.05 x 9.05 x 1.57 in. (230 x 230 x 40 mm) |
| Weight | 1.71 lb (778g) |
| Network Capabilities | |
| VLAN support | Yes |
| Number of VLANs | 1 management VLAN plus 32 VLANs for SSIDs |
| 802.1X supplicant | Yes |
| SSID-to-VLAN mapping | Yes |
| Auto-channel selection | Yes |
| Spanning tree | Yes |
| Load balancing | Yes |
| IPv6 | Yes <ul style="list-style-type: none"> • IPv6 host support • IPv6 RADIUS, syslog, Network Time Protocol (NTP) |
| Layer 2 | 802.1Q-based VLANs, 32 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 |

| Specifications | Description |
|--|--|
| Performance | |
| Wireless throughput | Up to 1.9Gbps data rate (real-world throughput will vary) |
| Recommended user support | Up to 200 connective users, 50 active users per radio |
| Multiple Access Point Management | |
| Single Point Setup | Yes |
| Number of access points per cluster | 16 |
| Active clients per cluster | 960 |
| 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 |
| Network diagnostics | Logging and packet capture |
| Web firmware upgrade | Firmware upgradable through web browser, imported or 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) IEEE 802.11a/n: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM) IEEE 802.11ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM) |
| WLAN | 802.11n/ac 3x3 MIMO with 3 spatial streams at 5 GHz and 2.4 GHz 21 for 20-MHz bandwidth; 9 for 40-MHz bandwidth; 4 for 80-MHz bandwidth 11 for 20-MHz bandwidth; 7 for 40-MHz bandwidth 802.11 Dynamic Frequency Selection (DFS) |

| Specifications | Description | | | | |
|--|--|--------------------|------------------|--------------------|--------------------|
| Data rates supported | IEEE 802.11b: DSSS (1/2/5.5/11) IEEE 802.11g: OFDM (6/9/12/18/24/36/48/54) IEEE 802.11n: see the below table IEEE 802.11b: 12.94 MHz IEEE 802.11g: 24.49 MHz IEEE 802.11n MCS0 (HT20): 27.44 MHz IEEE 802.11n MCS0 (HT40): 36.18 MHz IEEE 802.11b: 29.76 dBm IEEE 802.11g: 29.24 dBm IEEE 802.11n MCS0 (HT20): 29.25 dBm IEEE 802.11n MCS0 (HT40): 23.81 dBm | | | | |
| Frequency band and operating channels | Frequency Band | Channel No. | Frequency | Channel No. | Frequency |
| | 2400~2483.5MHz | 1 | 2412 MHz | 7 | 2442 MHz |
| | | 2 | 2417 MHz | 8 | 2447 MHz |
| | | 3 | 2422 MHz | 9 | 2452 MHz |
| | | 4 | 2427 MHz | 10 | 2457 MHz |
| | | 5 | 2432 MHz | 11 | 2462 MHz |
| | | 6 | 2437 MHz | - | - |
| | Frequency Band | Channel No. | Frequency | | Channel No. |
| | 5150~5250 MHz Band 1 | 36 | 5180 MHz | | 44 |
| | | 38 | 5190 MHz | | 46 |
| | | 40 | 5200 MHz | | 48 |
| | | 42 | 5210 MHz | | - |
| | | 52 | 5260 MHz | | 60 |
| | | 54 | 5270 MHz | | 62 |
| | 5250~5350 MHz Band 2 | 56 | 5280 MHz | | 64 |
| | | 58 | 5290 MHz | | - |
| | | 100 | 5500 MHz | | 112 |
| | | 102 | 5510 MHz | | 116 |
| | | 104 | 5520 MHz | | 132 |
| | 5470~5725 MHz Band 3 | 106 | 5530 MHz | | 134 |
| | | 108 | 5540 MHz | | 136 |
| | | 110 | 5550 MHz | | 140 |
| | | 149 | 5745 MHz | | 157 |
| | | 151 | 5755 MHz | | 159 |

| Specifications | Description | | | |
|---------------------------------|---|-----|----------|-----|
| | 5725~5850 MHz Band 4 | 153 | 5765 MHz | 161 |
| | | 155 | 5775 MHz | 165 |
| Transmitted output power | <p>2.4 GHz</p> <ul style="list-style-type: none"> 802.11b: 20.0 +/- 1.5 dBm at CH6, all rates 802.11g: 20.0 +/- 1.5 dBm at CH6, 6 Mbps 802.11g: 17.0 +/- 1.5 dBm at CH6, 54 Mbps 802.11n(HT20): 20.0 +/- 1.5 dBm at CH6, MCS0 802.11n(HT20): 17.0 +/- 1.5 dBm at CH6, MCS7 802.11n(HT40): 16.0 +/- 1.5 dBm at CH6, MCS7 <p>5 GHz UNII-1 (5150~5250 MHz)</p> <ul style="list-style-type: none"> 802.11a: 22.0 +/- 1.5 dBm at 6 Mbps 802.11a: 22.0 +/- 1.5 dBm at 54 Mbps 802.11ac(HT20): 22.0 +/- 1.5 dBm at MCS0 802.11ac(HT20): 14.0 +/- 1.5 dBm at MCS9 802.11ac(HT40): 21.0 +/- 1.5 dBm at MCS0 802.11ac(HT40): 14.0 +/- 1.5 dBm at MCS9 802.11ac(HT80): 20.0 +/- 1.5 dBm at MCS0 802.11ac(HT80): 14.0 +/- 1.5 dBm at MCS9 <p>5GHz UNII-2 (5250 – 5350 MHz)/UNII-2 Extended (5470 – 5725 MHz)</p> <ul style="list-style-type: none"> 802.11a: 18.0 +/- 1.5 dBm at 6 Mbps 802.11a: 18.0 +/- 1.5 dBm at 54 Mbps 802.11ac(HT20): 18.0 +/- 1.5 dBm at MCS0 802.11ac(HT20): 14.0 +/- 1.5 dBm at MCS9 802.11ac(HT40): 18.0 +/- 1.5 dBm at MCS0 802.11ac(HT40): 14.0 +/- 1.5 dBm at MCS9 802.11ac(HT80): 14.0 +/- 1.5 dBm at MCS9 <p>5GHz UNII-3 (5725~5850 MHz)</p> <ul style="list-style-type: none"> 802.11a: 22.0 +/- 1.5 dBm at 6 Mbps 802.11a: 22.0 +/- 1.5 dBm at 54 Mbps 802.11ac(HT20): 22.0 +/- 1.5 dBm at MCS0 802.11ac(HT20): 14.0 +/- 1.5 dBm at MCS9 802.11ac(HT40): 21.0 +/- 1.5 dBm at MCS0 802.11ac(HT40): 14.0 +/- 1.5 dBm at MCS9 802.11ac(HT80): 20.0 +/- 1.5 dBm at MCS0 802.11ac(HT80): 14.0 +/- 1.5 dBm at MCS9 | | | |
| Wireless isolation | Wireless isolation between clients | | | |
| External antennas | None | | | |
| Internal antennas | 6 Internal fixed PIFA antenna | | | |
| Antenna gain in dBi | 1.99 dBi for 5 Ghz and 1.28 dBi for 2.4 GHz | | | |

| Specifications | Description |
|------------------------------------|--|
| Receiver sensitivity | <p>2.4 GHz</p> <ul style="list-style-type: none"> • 802.11b: -86 dBm at 11Mbps • 802.11g: -74 dBm at 54 Mbps • 802.11n(HT20): -71 dBm at MCS7 • 802.11n(HT40): -68 dBm at MCS7 <p>5 GHz</p> <ul style="list-style-type: none"> • 802.11a: -90 dBm at 6 Mbps • 802.11a: -75 dBm at 54 Mbps • 802.11ac(HT20): -63 dBm at MCS9 • 802.11ac(HT40): -60 dBm at MCS9 • 802.11ac(HT80): -58 dBm at MCS9 |
| Wireless Distribution System (WDS) | Yes |
| Fast roaming | Yes |
| Multiple SSIDs | 16 per Radio |
| Wireless VLAN map | Yes |
| WLAN security | Yes |
| Wi-Fi Multimedia (WMM) | Yes, with unscheduled automatic power save |
| Operating Modes | |
| Access point | Access point mode, Wireless Domain Services (WDS) bridging, Workgroup Bridge mode |
| Environmental | |
| Power options | IEEE 802.3at/af Ethernet switch Cisco power injector: SB-PWR-INJ2-xx Peak power: 18 Watts |
| Compliance | <p>Safety:</p> <ul style="list-style-type: none"> • UL 60950-1 • CAN/CSA-C22.2 No. 60950-1 • IEC 60950-1 • EN 60950-1 <p>Radio approvals:</p> <ul style="list-style-type: none"> • FCC Part 15.247, 15.407 • RSS-210 (Canada) • EN 300.328, EN 301.893 (Europe) • AS/NZS 4268.2003 (Australia and New Zealand) <p>EMI and susceptibility (Class B):</p> <ul style="list-style-type: none"> • FCC Part 15.107 and 15.109 • ICES-003 (Canada) • EN 301.489-1 and -17 (Europe) |

| Specifications | Description |
|--|-----------------------------|
| 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 | 256 MB RAM 128 MB flash |
| Package Contents | |
| <ul style="list-style-type: none"> • WAP571 Wireless-AC/N Premium Dual Radio Access Point • Ceiling and wall mounting kit • Quick-start guide • Ethernet network cable | |
| Minimum Requirements | |
| <ul style="list-style-type: none"> • Switch or router with PoE support, PoE injector • Web-based configuration: Java-enabled web browser | |
| Warranty | |
| Access point | Limited lifetime |

Note: Depending on the part number (see table 1) one or more of the bands above may not be available in the product due to national regulations.

Note: Table 1 shows the maximum capability of the hardware. The transmit power may be reduced to comply with local regulatory requirements.

Ordering information

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

Table 2. Product ordering information

| Part Number | Description |
|-------------|---|
| WAP571-A-K9 | WAP571 Wireless-AC/N Premium Dual Radio Access Points (United States) |
| WAP571-C-K9 | WAP571 Wireless-AC/N Premium Dual Radio Access Points (China) |
| WAP571-E-K9 | WAP571 Wireless-AC/N Premium Dual Radio Access Points (Europe, EU region, United Kingdom, HK, Thailand, UAE, Turkey, South Africa, Vietnam) |
| WAP571-K-K9 | WAP571 Wireless-AC/N Premium Dual Radio Access Points (Korea) |
| WAP571-B-K9 | WAP571 Wireless-AC/N Premium Dual Radio Access Points (Canada, Argentina, Colombia, Mexico, Brazil) |

| Part Number | Description |
|-------------|--|
| WAP571-I-K9 | WAP571 Wireless-AC/N Premium Dual Radio Access Points (India, Chile, Saudi Arabia, Malaysia, Singapore, Philippines) |
| WAP571-N-K9 | WAP571 Wireless-AC/N Premium Dual Radio Access Points (Australia/New Zealand) |
| WAP571-J-K9 | WAP571 Wireless-AC/N Premium Dual Radio Access Points (Japan) |
| WAP571-R-K9 | WAP571 Wireless-AC/N Premium Dual Radio Access Points (Russia) |

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 Cisco [Product Warranties webpage](#).

Cisco Small Business Support service

This optional service offers affordable, three-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.

Cisco Capital

Financing to Help You Achieve Your Objectives

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. [Learn more](#).

For more information

For more information about Cisco Small Business products and solutions, visit the Cisco [Small Business Technology webpage](#) or the [product page](#).

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