

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

## 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
- 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. 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 stay connected anywhere in the office, regardless of what mobile devices they use. 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 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.

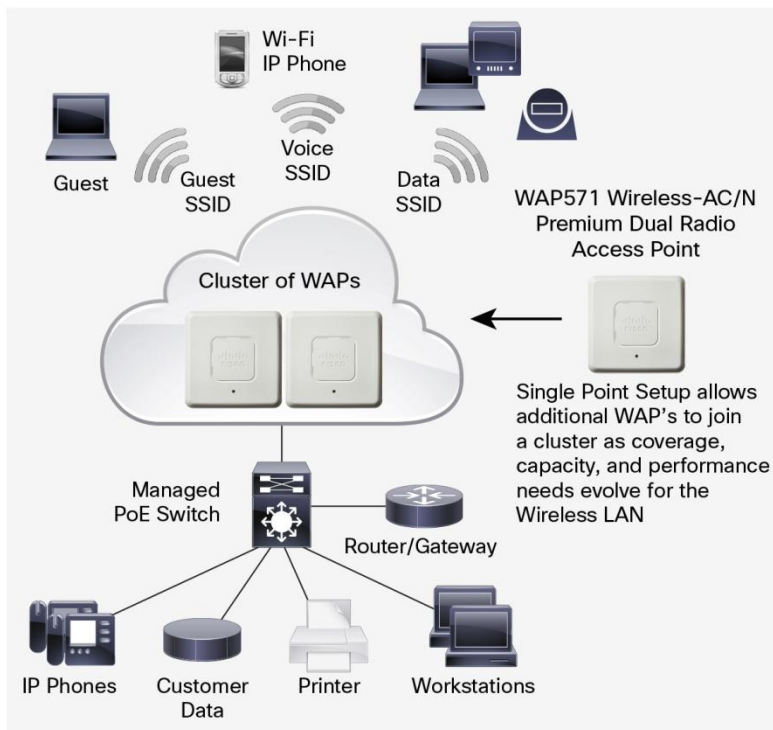
WAP571 Wireless-AC/N Premium Dual Radio Access Points are easy to set up and use, with intuitive wizard-based configuration to get you up and running in minutes. An attractive design with flexible mounting options allows the access points to smoothly blend into any small-business environment.

To enhance reliability and safeguard sensitive business information, 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.

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 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.
- Support for IPv6 lets you deploy future networking applications and operating systems without costly upgrades
- A limited lifetime hardware warranty provides peace of mind

## 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
<b>Standards</b>	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)
<b>Ports</b>	2 LAN Gigabit Ethernet autosensing
<b>Cabling type</b>	Category 5e or better
<b>Antennas</b>	Internal antennas optimized for installation on a wall or ceiling
<b>LED indicators</b>	One LED
<b>Operating system</b>	Linux
<b>Physical Interfaces</b>	
<b>Ports</b>	2- 10/100/1000 Ethernet, with support for 802.3at at PoE support is only for 1 port and not 2 ports
<b>Buttons</b>	Reset button
<b>Lock slot</b>	Slot for Kensington lock
<b>LEDs</b>	One multi-function LED
<b>Physical Specifications</b>	
<b>Physical dimensions (W x D x H)</b>	9.05 x 9.05 x 1.57 in. (230 x 230 x 40 mm)
<b>Weight</b>	1.71 lb (778g)
<b>Network Capabilities</b>	
<b>VLAN support</b>	Yes
<b>Number of VLANs</b>	1 management VLAN plus 32 VLANs for SSIDs
<b>802.1X supplicant</b>	Yes
<b>SSID-to-VLAN mapping</b>	Yes
<b>Auto-channel selection</b>	Yes
<b>Spanning tree</b>	Yes
<b>Load balancing</b>	Yes

Specifications	Description
<b>IPv6</b>	Yes <ul style="list-style-type: none"> <li>• IPv6 host support</li> <li>• IPv6 RADIUS, syslog, Network Time Protocol (NTP)</li> </ul>
<b>Layer 2</b>	802.1Q-based VLANs, 32 active VLANs plus 1 management VLAN
<b>Security</b>	
<b>WPA, WPA2</b>	Yes, including Enterprise authentication
<b>Access control</b>	Yes, management access control list (ACL) plus MAC ACL
<b>Secure management</b>	HTTPS
<b>SSID broadcast</b>	Yes
<b>Rogue access point detection</b>	Yes
<b>Mounting and Physical Security</b>	
<b>Multiple mounting options</b>	Mounting bracket included for easy ceiling or wall mounting
<b>Physical security lock</b>	Kensington lock slot
<b>Quality of Service</b>	
<b>QoS</b>	Wi-Fi Multimedia and Traffic Specification (WMM TSPEC), client QoS
<b>Performance</b>	
<b>Wireless throughput</b>	Up to 1.9Gbps data rate (real-world throughput will vary)
<b>Recommended user support</b>	Up to 200 connective users, 50 active users per radio
<b>Multiple Access Point Management</b>	
<b>Single Point Setup</b>	Yes
<b>Number of access points per cluster</b>	16
<b>Active clients per cluster</b>	960
<b>Configuration</b>	
<b>Web user interface</b>	Built-in web user interface for easy browser-based configuration (HTTP/HTTPS)
<b>Management</b>	
<b>Management protocols</b>	Web browser, Simple Network Management Protocol (SNMP) v3, Bonjour
<b>Remote management</b>	Yes
<b>Event logging</b>	Local, remote syslog, email alerts
<b>Network diagnostics</b>	Logging and packet capture
<b>Web firmware upgrade</b>	Firmware upgradable through web browser, imported or exported configuration file
<b>Dynamic Host Configuration Protocol (DHCP)</b>	DHCP client
<b>IPv6 host</b>	Yes
<b>HTTP redirect</b>	Yes
<b>Wireless</b>	
<b>Frequency</b>	Dual concurrent radios (2.4 and 5 GHz)
<b>Radio and modulation type</b>	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)
<b>WLAN</b>	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				
<b>Data rates supported</b>	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				
<b>Frequency band and operating channels</b>	<b>Frequency Band</b>	<b>Channel No.</b>	<b>Frequency</b>	<b>Channel No.</b>	<b>Frequency</b>
	2400~2483.5M Hz	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	-	-
	<b>Frequency Band</b>	<b>Channel No.</b>	<b>Frequency</b>	<b>Channel No.</b>	
	<b>5150~5250 MHz Band 1</b>	36	5180 MHz	44	
		38	5190 MHz	46	
		40	5200 MHz	48	
		42	5210 MHz	-	
		52	5260 MHz	60	
		54	5270 MHz	62	
	<b>5250~5350 MHz Band 2</b>	56	5280 MHz	64	
		58	5290 MHz	-	
		100	5500 MHz	112	
		102	5510 MHz	116	
		104	5520 MHz	132	
	<b>5470~5725 MHz Band 3</b>	106	5530 MHz	134	
		108	5540 MHz	136	
		110	5550 MHz	140	
		149	5745 MHz	157	
		151	5755 MHz	159	
	<b>5725~5850 MHz Band 4</b>	153	5765 MHz	161	
		155	5775 MHz	165	

Specifications	Description
<b>Transmitted output power</b>	<p><b>2.4 GHz</b></p> <ul style="list-style-type: none"> <li>• 802.11b: 20.0 +/- 1.5 dBm at CH6, all rates</li> <li>• 802.11g: 20.0 +/- 1.5 dBm at CH6, 6 Mbps</li> <li>• 802.11g: 17.0 +/- 1.5 dBm at CH6, 54 Mbps</li> <li>• 802.11n(HT20): 20.0 +/- 1.5 dBm at CH6, MCS0</li> <li>• 802.11n(HT20): 17.0 +/- 1.5 dBm at CH6, MCS7</li> <li>• 802.11n(HT40): 16.0 +/- 1.5 dBm at CH6, MCS7</li> </ul> <p>5 GHz UNII-1 (5150–5250 MHz)</p> <ul style="list-style-type: none"> <li>• 802.11a: 22.0 +/- 1.5 dBm at 6 Mbps</li> <li>• 802.11a: 22.0 +/- 1.5 dBm at 54 Mbps</li> <li>• 802.11ac(HT20): 22.0 +/- 1.5 dBm at MCS0</li> <li>• 802.11ac(HT20): 14.0 +/- 1.5 dBm at MCS9</li> <li>• 802.11ac(HT40): 21.0 +/- 1.5 dBm at MCS0</li> <li>• 802.11ac(HT40): 14.0 +/- 1.5 dBm at MCS9</li> <li>• 802.11ac(HT80): 20.0 +/- 1.5 dBm at MCS0</li> <li>• 802.11ac(HT80): 14.0 +/- 1.5 dBm at MCS9</li> </ul> <p>5GHz UNII-2 (5250 – 5350 MHz)/UNII-2 Extended (5470 – 5725 MHz)</p> <ul style="list-style-type: none"> <li>• 802.11a: 18.0 +/- 1.5 dBm at 6 Mbps</li> <li>• 802.11a: 18.0 +/- 1.5 dBm at 54 Mbps</li> <li>• 802.11ac(HT20): 18.0 +/- 1.5 dBm at MCS0</li> <li>• 802.11ac(HT20): 14.0 +/- 1.5 dBm at MCS9</li> <li>• 802.11ac(HT40): 18.0 +/- 1.5 dBm at MCS0</li> <li>• 802.11ac(HT40): 14.0 +/- 1.5 dBm at MCS9</li> <li>• 802.11ac(HT80): 14.0 +/- 1.5 dBm at MCS9</li> </ul> <p>5GHz UNII-3 (5725–5850 MHz)</p> <ul style="list-style-type: none"> <li>• 802.11a: 22.0 +/- 1.5 dBm at 6 Mbps</li> <li>• 802.11a: 22.0 +/- 1.5dBm at 54 Mbps</li> <li>• 802.11ac(HT20): 22.0 +/- 1.5 dBm at MCS0</li> <li>• 802.11ac(HT20): 14.0 +/- 1.5 dBm at MCS9</li> <li>• 802.11ac(HT40): 21.0 +/- 1.5 dBm at MCS0</li> <li>• 802.11ac(HT40): 14.0 +/- 1.5 dBm at MCS9</li> <li>• 802.11ac(HT80): 20.0 +/- 1.5 dBm at MCS0</li> <li>• 802.11ac(HT80): 14.0 +/- 1.5 dBm at MCS9</li> </ul>
<b>Wireless isolation</b>	Wireless isolation between clients
<b>External antennas</b>	None
<b>Internal antennas</b>	6 Internal fixed PIFA antenna
<b>Antenna gain in dBi</b>	1.99 dBi for 5 Ghz and 1.28 dBi for 2.4 GHz
<b>Receiver sensitivity</b>	<p><b>2.4 GHz</b></p> <ul style="list-style-type: none"> <li>• 802.11b: -86 dBm at 11Mbps</li> <li>• 802.11g: -74 dBm at 54 Mbps</li> <li>• 802.11n(HT20): -71 dBm at MCS7</li> <li>• 802.11n(HT40): -68 dBm at MCS7</li> </ul> <p><b>5 GHz</b></p> <ul style="list-style-type: none"> <li>• 802.11a: -90 dBm at 6 Mbps</li> <li>• 802.11a: -75 dBm at 54 Mbps</li> <li>• 802.11ac(HT20): -63 dBm at MCS9</li> <li>• 802.11ac(HT40): -60 dBm at MCS9</li> <li>• 802.11ac(HT80): -58 dBm at MCS9</li> </ul>
<b>Wireless distribution system (WDS)</b>	Yes
<b>Fast roaming</b>	Yes
<b>Multiple SSIDs</b>	16 per Radio
<b>Wireless VLAN map</b>	Yes

Specifications	Description
<b>WLAN security</b>	Yes
<b>Wi-Fi Multimedia (WMM)</b>	Yes, with unscheduled automatic power save
<b>Operating Modes</b>	
<b>Access point</b>	Access point mode, Wireless Domain Services (WDS) bridging, Workgroup Bridge mode
<b>Environmental</b>	
<b>Power options</b>	IEEE 802.3at/af Ethernet switch Cisco power injector: SB-PWR-INJ2-xx Peak power: 18 Watts
<b>Compliance</b>	Safety: <ul style="list-style-type: none"> <li>• UL 60950-1</li> <li>• CAN/CSA-C22.2 No. 60950-1</li> <li>• IEC 60950-1</li> <li>• EN 60950-1</li> </ul> Radio approvals: <ul style="list-style-type: none"> <li>• FCC Part 15.247, 15.407</li> <li>• RSS-210 (Canada)</li> <li>• EN 300.328, EN 301.893 (Europe)</li> <li>• AS/NZS 4268.2003 (Australia and New Zealand)</li> </ul> EMI and susceptibility (Class B): <ul style="list-style-type: none"> <li>• FCC Part 15.107 and 15.109</li> <li>• ICES-003 (Canada)</li> <li>• EN 301.489-1 and -17 (Europe)</li> </ul>
<b>Operating temperature</b>	0° to 40°C (32° to 104°F)
<b>Storage temperature</b>	-20° to 70°C (-4° to 158°F)
<b>Operating humidity</b>	10% to 85% noncondensing
<b>Storage humidity</b>	5% to 90% noncondensing
<b>System memory</b>	256 MB RAM 128 MB flash
<b>Package Contents</b>	
<ul style="list-style-type: none"> <li>• WAP571 Wireless-AC/N Premium Dual Radio Access Point</li> <li>• Ceiling and wall mounting kit</li> <li>• Quick-start guide</li> <li>• Ethernet network cable</li> </ul>	
<b>Minimum Requirements</b>	
<ul style="list-style-type: none"> <li>• Switch or router with PoE support, PoE injector</li> <li>• Web-based configuration: Java-enabled web browser</li> </ul>	
<b>Warranty</b>	
<b>Access point</b>	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
<b>WAP571-A-K9</b>	WAP571 Wireless-AC/N Premium Dual Radio Access Points (United States)
<b>WAP571-C-K9</b>	WAP571 Wireless-AC/N Premium Dual Radio Access Points (China)
<b>WAP571-E-K9</b>	WAP571 Wireless-AC/N Premium Dual Radio Access Points (Europe, EU region, United Kingdom, HK, Thailand, UAE, Turkey, South Africa, Vietnam)
<b>WAP571-K-K9</b>	WAP571 Wireless-AC/N Premium Dual Radio Access Points (Korea)
<b>WAP571-B-K9</b>	WAP571 Wireless-AC/N Premium Dual Radio Access Points (Canada, Argentina, Colombia, Mexico, Brazil)
<b>WAP571-I-K9</b>	WAP571 Wireless-AC/N Premium Dual Radio Access Points (India, Chile, Saudi Arabia, Malaysia, Singapore, Philippines)
<b>WAP571-N-K9</b>	WAP571 Wireless-AC/N Premium Dual Radio Access Points (Australia/New Zealand)

## 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 can help you acquire the technology you need to achieve your objectives and stay competitive. We can help you reduce CapEx. Accelerate your growth. Optimize your investment dollars and ROI. Cisco Capital financing gives you flexibility in acquiring hardware, software, services, and complementary third-party equipment. And there's just one predictable payment. Cisco Capital is available in more than 100 countries. [Learn more](#).

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