

# 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 3<sup>rd</sup> 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 3<sup>rd</sup> 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.

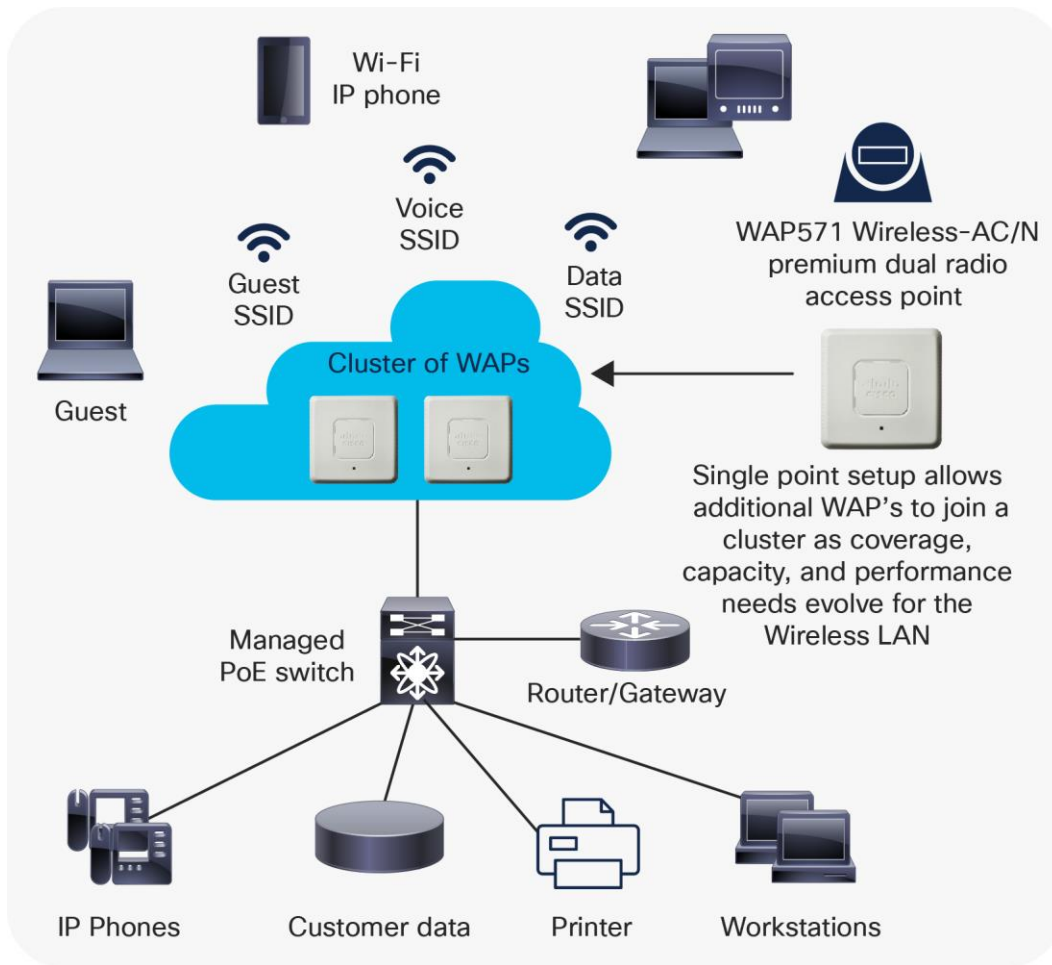


Figure 1.  
Typical configuration



**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
<b>Physical Interfaces</b>	
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
<b>Physical Specifications</b>	
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)
<b>Network Capabilities</b>	
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"> <li>• IPv6 host support</li> <li>• IPv6 RADIUS, syslog, Network Time Protocol (NTP)</li> </ul>
Layer 2	802.1Q-based VLANs, 32 active VLANs plus 1 management VLAN
<b>Security</b>	
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
<b>Mounting and Physical Security</b>	
Multiple mounting options	Mounting bracket included for easy ceiling or wall mounting
Physical security lock	Kensington lock slot
<b>Quality of Service</b>	
QoS	Wi-Fi Multimedia and Traffic Specification (WMM TSPEC), client QoS

Specifications	Description
<b>Performance</b>	
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
<b>Multiple Access Point Management</b>	
Single Point Setup	Yes
Number of access points per cluster	16
Active clients per cluster	960
<b>Configuration</b>	
Web user interface	Built-in web user interface for easy browser-based configuration (HTTP/HTTPS)
<b>Management</b>	
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
<b>Wireless</b>	
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				
<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>
	2400~2483.5MHz	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	-	-
	<b>Frequency Band</b>	<b>Channel No.</b>		<b>Frequency</b>	<b>Channel No.</b>
	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			
	<b>5725~5850 MHz Band 4</b>	153	5765 MHz	161
		155	5775 MHz	165
<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><b>5 GHz UNII-1 (5150~5250 MHz)</b></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><b>5GHz UNII-2 (5250 – 5350 MHz)/UNII-2 Extended (5470 – 5725 MHz)</b></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><b>5GHz UNII-3 (5725~5850 MHz)</b></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>			
<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			

Specifications	Description
Receiver sensitivity	<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>
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
<b>Operating Modes</b>	
Access point	Access point mode, Wireless Domain Services (WDS) bridging, Workgroup Bridge mode
<b>Environmental</b>	
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"> <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> <p>Radio approvals:</p> <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> <p>EMI and susceptibility (Class B):</p> <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>

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
<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>	
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

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