

# Cisco WAP361 Wireless-AC/N Dual Radio Wall Plate Access Point with PoE

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

### Highlights

- Provides cost-effective 802.11ac connectivity with speed up to 1.2 Gbps
- Supports 2x2 multiple-input multiple-output (MIMO) technology with two spatial streams for maximum performance on both 2.4- and 5.0-GHz radios
- 5 Gigabit Ethernet LAN with Energy Efficient Ethernet
- Mounts directly to an electrical or data junction box
- A 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 a 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® WAP361 Wireless-AC/N Dual Radio Wall Plate Access Points with Power over Ethernet (PoE) 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 WAP361 access point uses a concurrent dual-band radio for improved coverage and user capacity. The 2x2 multiple-input multiple-output (MIMO) technology with two spatial streams allows the access point to run at maximum performance in both 5.0-GHz and 2.4-GHz frequencies. Gigabit Ethernet LAN interfaces with PoE facilitates flexible installation and can reduce 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 WAP361 Wireless-AC/N access point supports 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.

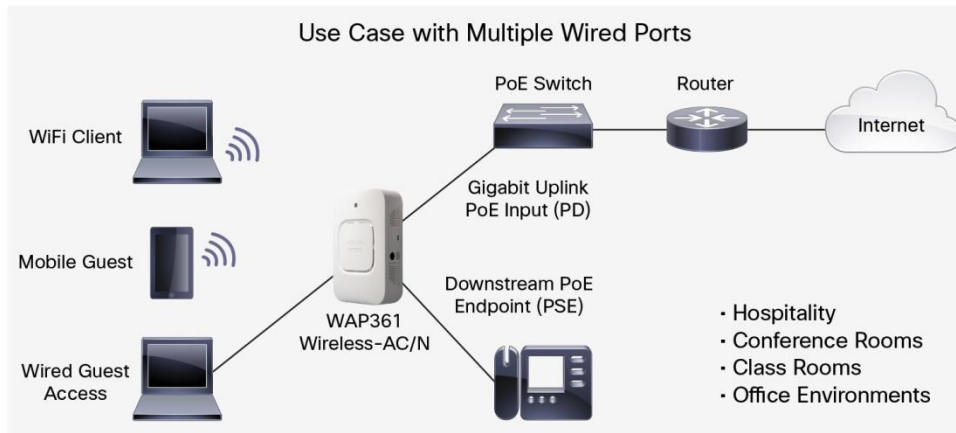
WAP361 access points are easy to set up and use, with an intuitive wizard-based configuration to get you up and running in minutes. An attractive design with flexible mounting options allows the access points to blend well into any small-business environment.

To enhance reliability and safeguard sensitive business information, WAP361 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 WAP361 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, 3, and 4 show the product's front, back, and side panels, respectively.

**Figure 1.** Typical Configuration



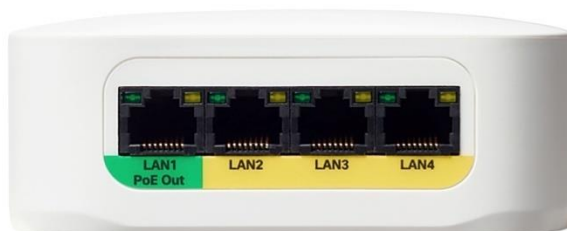
**Figure 2.** Front Panel of the WAP361 Wireless-AC/N Dual Radio Wall Plate Access Point



**Figure 3.** Back Panel of the WAP361 Wireless-AC/N Dual Radio Wall Plate Access Point



**Figure 4.** Side Panel of the WAP361 Wireless-AC/N Dual Radio Wall Plate Access Point



## Features

- Concurrent dual-band radio support up to 867 Mbps on a 5.0-GHz radio and 300 Mbps on a 2.4-GHz radio to increase capacity and coverage
- 2x2 MIMO with two 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 5-port Gigabit Ethernet LAN switch supports both PoE powered device (PD) and powered sourcing equipment (PSE) so that IP devices can be powered and the access point can be powered by the backbone switch
- 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 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
- A sleek design with multiple internal antennas and a versatile mounting kit allows for mounts directly to an electrical or data junction box
- Intelligent quality of service (QoS) prioritizes network traffic to help keep critical network applications running at top performance
- Power-saving sleep mode and port control features help to 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 WAP361 wireless access point. Table 2 outlines the RF performance.

**Table 1.** Specifications for the WAP361 Wireless-AC/N Dual Radio Wall Plate Access Point

Specifications	Description
<b>Standards</b>	IEEE 802.11ac, 802.11n, 802.11g, 802.11b, 802.3af/at, 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>Cabling type</b>	Category 5e or better
<b>Antennas</b>	Internal antennas optimized for installation on a wall or ceiling
<b>Operating system</b>	Linux
<b>Physical Interfaces</b>	
<b>Ports</b>	5 - 10/100/1000 Ethernet, with support for 802.3af/at PoE, power port for AC adapter (not included)
<b>Power supply</b>	802.3af/at PoE and external 48V/1.25A DC power adapter (not included)
<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>	6.5 x 4.33 x 1.8 in. (165 x 110 x 45.75 mm)
<b>Weight</b>	1.06 lbs or 480 g
<b>Network Capabilities</b>	
<b>VLAN support</b>	Yes
<b>Number of VLANs</b>	1 management VLAN plus 16 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
<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, 16 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

Specifications	Description
<b>Mounting and Physical Security</b>	
Multiple mounting options	Mounting bracket included for easy mounting to junction box
Physical security lock	Kensington lock slot
<b>Quality of Service</b>	
QoS	Wi-Fi Multimedia and Traffic Specification (WMM TSPEC), client QoS
<b>Performance</b>	
Wireless throughput	Up to 1.2-Gbps data rate (real-world throughput will vary)
Recommended user support	Up to 128 connective users, 32 active users per radio
<b>Multiple-Access Point Management</b>	
Single Point Setup	Yes
Number of access points per cluster	8
Active clients per cluster	240
<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, 16 QAM, 64 QAM) IEEE 802.11ac: OFDM (BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM)
WLAN	802.11n/ac 2x2 MIMO with 2 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 1.2 Gbps 802.11 Dynamic Frequency Selection (DFS)
Data rates supported	802.11a/b/g: <ul style="list-style-type: none"> <li>54, 48, 36, 24, 18, 12, 9, 6, 11, 5.5, 2, and 1 Mbps</li> </ul> 802.11n: 6.5 to 300 Mbps <ul style="list-style-type: none"> <li>20-MHz bandwidth: MCS 0-15 for supported data rates</li> <li>40-MHz bandwidth: MCS 0-15 for supported data rates</li> </ul> 802.11ac: 6.5 to 867 Mbps <ul style="list-style-type: none"> <li>20-MHz bandwidth: MCS 0-9 for supported data rates</li> <li>40-MHz bandwidth: MCS 0-9 for supported data rates</li> <li>80-MHz bandwidth: MCS 0-9 for supported data rates</li> </ul>
Frequency band and operating channels	<b>A Regulatory Domain:</b> <ul style="list-style-type: none"> <li>2.412 to 2.462 GHz; 11 channels</li> <li>5.180 to 5.240 GHz; 4 channels</li> <li>5.260 to 5.320 GHz; 4 channels</li> </ul> <b>C Regulatory Domain:</b> <ul style="list-style-type: none"> <li>2.412 to 2.462 GHz; 11 channels</li> <li>5.180 to 5.240 GHz; 4 channels</li> <li>5.260 to 5.320 GHz; 4 channels</li> </ul>

Specifications	Description
Non-overlapping channels	<ul style="list-style-type: none"> <li>• 5.500 to 5.700 GHz; 8 channels</li> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul> <p><b>E Regulatory Domain:</b></p> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.180 to 5.240 GHz; 4 channels</li> <li>• 5.260 to 5.320 GHz; 4 channels</li> <li>• 5.500 to 5.700 GHz; 8 channels</li> </ul> <p><b>2.4 GHz</b></p> <ul style="list-style-type: none"> <li>• 802.11b/g <ul style="list-style-type: none"> <li>◦ 20 MHz: 3</li> </ul> </li> <li>• 802.11n <ul style="list-style-type: none"> <li>◦ 20 MHz: 3</li> </ul> </li> </ul> <p><b>5 GHz</b></p> <ul style="list-style-type: none"> <li>• 5.745 to 5.825 GHz; 5 channels</li> </ul> <p><b>K Regulatory Domain:</b></p> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.180 to 5.240 GHz; 4 channels</li> <li>• 5.260 to 5.320 GHz; 4 channels</li> <li>• 5.500 to 5.620 GHz; 7 channels</li> <li>• 5.745 to 5.805 GHz; 4 channels</li> </ul> <p><b>5 GHz</b></p> <ul style="list-style-type: none"> <li>• 802.11a <ul style="list-style-type: none"> <li>◦ 20 MHz: 21</li> </ul> </li> <li>• 802.11n <ul style="list-style-type: none"> <li>◦ 20 MHz: 21</li> <li>◦ 40 MHz: 9</li> </ul> </li> <li>• 802.11ac <ul style="list-style-type: none"> <li>◦ 20 MHz: 21</li> <li>◦ 40 MHz: 9</li> <li>◦ 80 MHz: 4</li> </ul> </li> </ul>
Wireless isolation	Wireless isolation between clients
External antennas	None
Internal antennas	Internal fixed PiFA antenna
Antenna gain in dBi	Maximum antenna gain of 4.35 dBi on 2.4 GHz Maximum antenna gain of 3.96 dBi on 5 GHz
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 saving
<b>Operating Modes</b>	
Access point	Access point mode, WDS Bridging, Workgroup Bridge mode
<b>Environmental</b>	
Power options	IEEE 802.3af/at Ethernet switch Cisco power injector: SB-PWR-INJ2-xx Cisco AC Adapter – SB-PWR-48V-xx (not included) PoE peak power: 19.2 W (with PSE load)
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>
Operating temperature	0° to 40°C (32° to 104°F)
Storage temperature	-20° to 70°C (-4° to 158°F)

Specifications	Description
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>• WAP361 Wireless-AC/N Dual Radio Wall Plate 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, or AC power adapter</li> <li>• Web-based configuration: Java-enabled web browser</li> </ul>	
<b>Warranty</b>	
Access point	Limited lifetime

**Table 2.** Cisco WAP361 Wireless-AC/N Access Point RF Performance

	Maximum Transmit Power (dBm) Per Chain	Receiver Sensitivity (dBm) Per Chain
<b>2.4 GHz – 802.11b</b>		
1 Mbps	16.0 +/- 1.0	-96.0
11 Mbps	16.0 +/- 1.0	-89.0
<b>2.4 GHz – 802.11g</b>		
6 Mbps	14.0 +/- 1.0	-92.0
54 Mbps	14.0 +/- 1.0	-74.0
<b>2.4 GHz – 802.11n HT20</b>		
MCS0/8	14.0 +/- 1.0	-90.0
MCS7/15	14.0 +/- 1.0	-74.0
<b>2.4 GHz – 802.11n HT40</b>		
MCS0/8	13.0 +/- 1.0	-87.0
MCS7/15	13.0 +/- 1.0	-70.0
<b>5 GHz – 802.11a</b>		
6 Mbps	16.0 +/- 1.0	-90.0
54 Mbps	16.0 +/- 1.0	-76.0
<b>5 GHz – 802.11n HT20</b>		
MCS0/8	15.0 +/- 1.0	-91.0
MCS7/15	15.0 +/- 1.0	-74.0
<b>5 GHz – 802.11n HT40</b>		
MCS0/8	15.0 +/- 1.0	-87.0
MCS7/15	15.0 +/- 1.0	-70.0
<b>5 GHz – 802.11ac HT20</b>		
MCS0	14.0 +/- 1.0	-91.0
MCS8	14.0 +/- 1.0	-69.0
<b>5 GHz – 802.11ac HT40</b>		
MCS0	14.0 +/- 1.0	-87.0
MCS9	14.0 +/- 1.0	-64.0

	Maximum Transmit Power (dBm) Per Chain	Receiver Sensitivity (dBm) Per Chain
<b>5 GHz – 802.11ac HT80</b>		
<b>MCS0</b>	14.0 +/- 1.0	-86.0
<b>MCS9</b>	14.0 +/- 1.0	-61.0

**Note:** Table 2 shows the maximum capability of the hardware. The transmit power may be reduced to comply with local regulatory requirements.

## Ordering Information

Table 3 shows the product part numbers and descriptions to make ordering easier.

**Table 3.** Product Ordering Information

Part Number	Description
<b>WAP361</b>	WAP361 Wireless-AC/N Dual Radio Wall Plate Access Point with PoE
<b>WAP361-A-K9</b>	WAP361 Wireless-AC/N Dual Radio Wall Plate Access Point with PoE (United States, Canada, Colombia, Mexico, Australia, New Zealand, Argentina, Brazil, Hong Kong, Philippines, Singapore)
<b>WAP361-E-K9</b>	WAP361 Wireless-AC/N Dual Radio Wall Plate Access Point with PoE (EU Region, Saudi Arabia, Thailand, Vietnam, South Africa)
<b>WAP361-C-K9</b>	WAP361 Wireless-AC/N Dual Radio Wall Plate Access Point with PoE (China, Malaysia, India, Chile)
<b>WAP361-K-K9</b>	WAP361 Wireless-AC/N Dual Radio Wall Plate Access Point with Po E (Korea)
<b>SB-PWR-48V-xx</b>	48-Volt Power Adapter
<b>SB-PWR-INJ2-xx</b>	Gigabit Power over Ethernet Injector - 30 Watts

## 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.

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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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