

Cisco WAP150 Wireless-AC/N Dual Radio Access Point with PoE

Faster Wi-Fi, Highly Secure Connectivity, Do-It-Yourself Installation

Highlights

- Provides cost-effective 802.11ac connectivity with speed up to 1.2 Gbps
- Gigabit Ethernet LAN interface with Power over Ethernet (PoE) can enable flexible installation
- · A captive portal can 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. Cisco® WAP150 Wireless-AC/N Dual Radio Access Points provide a simple, cost-effective way to extend more 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 WAP150 access point uses concurrent dual-band radios for improved coverage on mobile devices. Gigabit Ethernet LAN interfaces with Power over Ethernet (PoE) support 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, WAP150 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 WAP150 Wireless-AC/N Dual Radio Access Point is 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 blend well into any small business environment.

To enhance reliability and safeguard sensitive business information, WAP150 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 point features controller-less Single Point Setup, which simplifies the deployment of multiple access points without additional hardware. With WAP150 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.

Single Point Setup allows additional WAP's to join a cluster as coverage, capacity, and performance

needs evolve for the

wireless LAN

Guest SSID Data
SSID WAP150 Wireless-AC/N
Dual Radio
Access Point with PoE

Figure 1. Typical Wireless Access Point Configuration

Managed

Customer

Data

PoE Switch

IP Phones



Workstations

Printer

Router/Gateway



Figure 3. Back Panel of a WAP150 Wireless-AC/N Dual Radio Access Point with PoE



Features

- The concurrent dual-band radio supports up to 1.2 Gbps for increase capacity and coverage
- 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 can enable a high-speed uplink to the wired network
- Robust security, including WPA2, 802.1X with RADIUS secure authentication, and rogue access point detection, helps protect sensitive business information
- · A captive portal support supports highly secure, customized guest access with multiple rights and roles
- Simple installation and an intuitive web-based configuration and wizard can enable fast, simple deployment and setup in minutes
- Support for PoE powered device (PD) can enable easy installation without expensive additional wiring
- Sleek design with multiple internal antennas
- · Versatile mounting can enable installation on a ceiling, wall, or desktop
- Intelligent QoS prioritizes network traffic to help keep critical network applications running at top performance
- 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 WAP150 access point.

Table 1. Specifications for the WAP150 Access Point

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 auto-sensing
Cabling type	Category 5e or better
Antennas	Internal antennas optimized for installation on a wall or ceiling
LED indicators	1 multifunction LED
Operating system	Linux
Physical Interfaces	

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panning tree Ye	es es
. 0	es
oad balancing Ye	
	es
	IPv6 host supportIPv6 RADIUS, syslog, Network Time Protocol (NTP)
ayer 2 80	02.1Q-based VLANS, 8 active VLANs plus 1 management VLAN
ecurity	
/PA, WPA2 Ye	es, including Enterprise authentication
ccess control Ye	es, management access control list (ACL) plus MAC ACL
ecure management HT	ITTPS
SID broadcast Ye	es
ogue access point Ye etection	es
lounting and Physical Security	
lultiple mounting options De	esktop or Wall
hysical security lock Ke	ensington lock slot
uality of Service	
oS Wi	Vi-Fi Multimedia and Traffic Specification (WMM TSPEC), client QoS
erformance	
/ireless throughput Up	p to 1.2 Gbps data rate (real-world throughput will vary)
ecommended user support Up	p to 64 connective users, 10 active users per radio
Iultiple-Access Point Manageme	ent
ingle Point Setup Ye	es
umber of access points 4 er cluster	
ctive clients per cluster 12	20
onfiguration	
/eb user interface Bu	uilt-in web user interface for easy browser-based configuration (HTTP, HTTPS)

Specifications	Description		
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 (O	FDM)	
WLAN	802.11n/ac 2x2 multiple-input multiple-output (MIMO) with 2 spatial s 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)	streams at 5 GHz	
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 300 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 867 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 channels	A/B Regulatory Domain • 2.412 to 2.462 GHz; 11 channels • 5.180 to 5.240 GHz; 4 channels • 5.260 to 5.320 GHz; 4 channels • 5.500 to 5.700 GHz; 8 channels • 5.745 to 5.825 GHz; 5 channels E Regulatory Domain: • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.240 GHz; 4 channels • 5.260 to 5.320 GHz; 4 channels • 5.500 to 5.700 GHz; 8 channels	C Regulatory Domain: • 2.412 to 2.462 GHz; 11 channels • 5.180 to 5.240 GHz; 4 channels • 5.260 to 5.320 GHz; 4 channels • 5.745 to 5.825 GHz; 5 channels K Regulatory Domain: • 2.412 to 2.472 GHz; 13 channels • 5.180 to 5.240 GHz; 4 channels • 5.260 to 5.320 GHz; 4 channels • 5.500 to 5.620 GHz; 7 channels • 5.745 to 5.805 GHz; 4 channels	
Non-overlapping 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		

\$802.11 sc	Specifications	Description
Internal antennas Internal Fixed Planar inverted-F antenna (PIFA)		∘ 20 MHz: 21 ∘ 40 MHz: 9
Internal antennas Internal Fixed Planar inverted-F antenna (PIFA) Antenna gain in dBi Maximum antenna gain of 3.61 dBi on 2.4 GHz Maximum antenna gain of 3.65 dBi on 5 GHz Wireless distribution system (VDS) Fast roaming Yes Winteless VLAN map Yes Winteless VLAN map Yes WiLAN security Yes WiLAN security Yes WiLAN security Yes, with unscheduled automatic power save Operating Modes Environmental Power options IEEE 802.3af Ethernet switch Cisco Power Injector - SB-PWR-INJ2-xx Ac adapter - SB-PW	Wireless isolation	Wireless isolation between clients
Antenna gain in dBi Maximum antenna gain of 3.81 dBi on 2.4 GHz Maximum antenna gain of 3.85 dBi on 5 GHz Wireless distribution system (WDS) Yes Fast roaming Yes Wireless VLAN map Yes Wireless VLAN map Yes Wirelia Multimedia (WMM) Yes, with unscheduled automatic power save Operating Modes Access point Access point mode, WDS Bridging, Workgroup Bridge mode Environmental IEEE 802.3af Ethernet switch Cisco Power Injector - SB-PVWR-INJ2-xx Ac dapter - SB-PVWR-12V/1.5A power adapter in a box POE power Peak power: 9.5Watts Compliance Safety:	External antennas	None
Maximum antenna gain of 3.85 dBi on 5 GHz Wireless distribution system (WDS) Fast roaming Yes Multiple SSIDs 8 Wireless VLAN map Yes Wi-Fi Multimedia (WMM) Yes, with unscheduled automatic power save Operating Modes Access point Access point Mode, WDS Bridging, Workgroup Bridge mode Environmental Power options IEEE 802.3af Ethernet switch Cisco Power Injector - SB-PVR-INJ2-xx AC adapter - SB-PVR-12V/1.5A power adapter in a box POE power Peak power: 9.5Watts Compliance Safety: - UL 60950-1 - EN 60950-1 -	Internal antennas	Internal Fixed Planar inverted-F antenna (PIFA)
Yes Yes Wilting SSIDs 8 Wireless VLAN map Yes	Antenna gain in dBi	_
Multiple SSIDs Wireless VLAN map Yes WILAN security Yes, with unscheduled automatic power save Operating Modes Access point Access point Environmental Power options IEEE 802.3af Ethernet switch Cisco Power Injector - SB-PWR-INJ2-xx AC adapter — in a box POE power Peak power: 9.5Watts Safety: - UL6 60950-1 - IEC 60950-1 -	Wireless distribution system (WDS)	Yes
Wireless VLAN map Yes WLAN security Yes Wi-Fi Multimedia (WMM) Yes, with unscheduled automatic power save Operating Modes Access point Access point Access point mode, WDS Bridging, Workgroup Bridge mode Environmental Fower options IEEE 802.3af Ethernet switch Cisco Power Injector - SB-PWR-INJ2-xx AC adapter - SB-PWR-12V/1.5A power adapter in a box POE power Peak power: 9:5Watts Compliance Safety:	Fast roaming	Yes
WI-FI Multimedia (WMM) Yes, with unscheduled automatic power save 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-12V/1.5A power adapter in a box POE power Peak power: 9.5Watts Compliance Safety:	Multiple SSIDs	8
Wi-Fi Multimedia (WMM) 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-INJ2-x AC AC adapter — SB-PWR-INJ2-x AC AC ACACTA AC ACACTA AC ACACTA AC AC ACACTA AC ACACTA AC ACACTA AC ACACTA AC ACACTA AC ACACTA AC AC	Wireless VLAN map	Yes
Operating Modes Access point Access point mode, WDS Bridging, Workgroup Bridge mode Environmental IEEE 802.3af Ethernet switch Cisco Power Injector - SB-PWR-INJ2-xx AC adapter - SB-PWR-INJ2-xx AC adapter - SB-PWR-I12V/1.5A power adapter in a box POE power Peak power: 9.5Watts Compliance Safety:	WLAN security	Yes
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-I12V/1.5A power adapter in a box POE power Peak power: 9.5Watts Compliance Safety: UL 60950-1 • CAN/CSA-C22.2 No. 60950-1 • IEC 60950-1 • 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 O* to 40°C (32° to 104°F) Storage temperature Operating humidity 10% to 85% noncondensing Storage humidity System memory 256 MB RAM 128 MB flash	Wi-Fi Multimedia (WMM)	Yes, with unscheduled automatic power save
Environmental	Operating Modes	
Power options IEEE 802.3af Ethernet switch Cisco Power Injector - SB-PWR-INJ2-xx AC adapter – SB-PWR-12V/1.5A power adapter in a box POE power Peak power: 9.5Watts 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 O° to 40°C (32° to 104°F) Storage temperature O° to 40°C (4° to 158°F) Operating humidity Storage humidity System memory 256 MB RAM 128 MB flash	Access point	Access point mode, WDS Bridging, Workgroup Bridge mode
Cisco Power Injector - SB-PWR-INJ2-xx	Environmental	
UL 60950-1 CAN/CSA-C22.2 No. 60950-1 EE 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 O° 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	Power options	Cisco Power Injector - SB-PWR-INJ2-xx AC adapter – SB-PWR-12V/1.5A power adapter in a box POE power
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	Compliance	 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)
Operating humidity 10% to 85% noncondensing Storage humidity 5% to 90% noncondensing System memory 256 MB RAM 128 MB flash	Operating temperature	0° to 40°C (32° to 104°F)
Storage humidity 5% to 90% noncondensing System memory 256 MB RAM 128 MB flash	Storage temperature	-20° to 70°C (-4° to 158°F)
System memory 256 MB RAM 128 MB flash	Operating humidity	10% to 85% noncondensing
128 MB flash	Storage humidity	5% to 90% noncondensing
Package Contents	System memory	
	Package Contents	

- WAP150 Wireless-AC/N Dual Radio Access Point
- Power adapter 12V1.5A
- Quick-start guide
- Ethernet network cable

Specifications Description		
Minimum Requirements		
 Switch or router with PoE support, PoE injector, or AC power adapter Web-based configuration: Java-enabled web browser 		
Warranty		
Access point	Limited lifetime	

 Table 2.
 Cisco WAP150 Wireless-AC/N Access Point RF Performance Table

	Maximum Transmit Power (dBm) Per Chain	Receiver Sensitivity (dBm) Per Chain
2.4GHz - 802.11b		
1 Mbps	16.0 +/- 1.5	-98.0
11 Mbps	16.0 +/- 1.5	-90.0
2.4GHz - 802.11g		
6 Mbps	14.0 +/- 1.5	-90.0
54 Mbps	14.0 +/- 1.5	-75.0
2.4GHz - 802.11n HT20		
MCS0/8	14.0 +/- 1.5	-90.0
MCS7/15	14.0 +/- 1.5	-74.0
2.4GHz - 802.11n HT40		
MCS0/8	13.0 +/- 1.5	-88.0
MCS7/15	13.0 +/- 1.5	-71.0
5GHz - 802.11a		
6 Mbps	16.0 +/- 1.5	-91.0
54 Mbps	16.0 +/- 1.5	-77.0
5GHz - 802.11n HT20		
MCS0/8	15.0 +/- 1.5	-91.0
MCS7/15	15.0 +/- 1.5	-74.0
5GHz - 802.11n HT40		
MCS0/8	15.0 +/- 1.5	-87.0
MCS7/15	15.0 +/- 1.5	-71.0
5GHz - 802.11ac HT20		
MCS0	14.0 +/- 1.5	-91.0
MCS8	14.0 +/- 1.5	-69.0
5GHz - 802.11ac HT40		
MCS0	14.0 +/- 1.5	-87.0
MCS9	14.0 +/- 1.5	-64.0
5GHz - 802.11ac HT80		
MCS0	14.0 +/- 1.5	-88.0
MCS9	14.0 +/- 1.5	-61.0

Note: This table 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.

Part Number	Description
WAP150	Cisco WAP150 Wireless-AC/N Dual Radio Access Point with PoE
WAP150-A-K9-NA	Cisco WAP150 Wireless-AC/N Dual Radio Access Point with PoE (United States, Canada, Colombia, Mexico)
WAP150-B-K9-BR	Cisco WAP150 Wireless-AC/N Dual Radio Access Point with PoE (Brazil)
WAP150-A-K9-AR	Cisco WAP150 Wireless-AC/N Dual Radio Access Point with PoE (Argentina)
WAP150-A-K9-AU	Cisco WAP150 Wireless-AC/N Dual Radio Access Point with PoE (Australia, New Zealand)
WAP150-E-K9-EU	Cisco WAP150 Wireless-AC/N Dual Radio Access Point with PoE (EU Regions, Philippines, Thailand, Vietnam, South Africa)
WAP150-E-K9-UK	Cisco WAP150 Wireless-AC/N Dual Radio Access Point with PoE (United Kingdom, Saudi Arabia, UAE, Hong Kong, Singapore)
WAP150-K-K9-KR	Cisco WAP150 Wireless-AC/N Dual Radio Access Point with PoE (Korea)
WAP150-C-K9-CN	Cisco WAP150 Wireless-AC/N Dual Radio Access Point with PoE (China)
WAP150-C-K9-G5	Cisco WAP150 Wireless-AC/N Dual Radio Access Point with PoE (Malaysia, Chile)
WAP150-C-K9-IN	Cisco WAP150 Wireless-AC/N Dual Radio Access Point with PoE (India)
SB-PWR-INJ2-xx	Cisco Gigabit Power over Ethernet Injector-30W

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 at http://www.cisco.com/go/warranty.

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.

For More Information

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Printed in USA C78-736450-00 02/16