

Get to Know the WAP571E Wireless-AC/N Dual Radio Outdoor Access Point

Objective

The WAP571E Wireless-AC/N Dual Radio Outdoor Access Point is a high-performance, outdoor and highly secure business class Wireless Access Point (WAP) designed to provide cost-effective wireless connectivity for outdoor spaces.

This article aims to provide general information about the WAP571E.

Applicable Devices

WAP571E



System LED



Ethernet ports and Reset button with weather-proof caps



Mounting holes



Ethernet ports and Reset button
without weather-proof caps

Product Features

- Cost-effective 802.11ac outdoor connectivity up to 1.9 Gbps
- 3x3 Multiple Input Multiple Output (MIMO) with three spatial streams on both 5.0 GHz and 2.4 GHz
- Outdoor-rated IP66 enclosure
- Single Point Setup
- Two Gigabit Ethernet Local Area Network (LAN) ports
- WPA2, 802.1X with Remote Authentication Dial-In User Service (RADIUS) and Rogue Access Point detection.
- Captive Portal with multiple rights and roles
- Simple installation and intuitive web-based utility
- Support for Power over Ethernet (PoE)

Default Settings

Parameter	Default Value
Username	cisco
Password	cisco

LAN IP Address	DHCP address assigned by server
Fallback LAN IP	192.168.1.245
Subnetwork Mask	255.255.255.0

Product 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	Two LAN Gigabit Ethernet auto-sensing
Cabling type	Category 5e or better
Antennas	Internal antennas optimized for installation on a wall
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 one port and not two ports
Buttons	Reset button
LEDs	One multi-function LED
Physical Specifications	
Physical dimensions (W x D x H)	9.05 x 7.87 x 1.96 in. (230 x 200 x 50 mm)
Weight	2.97 lb or 1350 g
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 IPv6 host support IPv6 RADIUS, syslog, Network Time Protocol (NTP)
Layer 2	802.1Q-based VLANs, 32 active VLANs plus one 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 option	Mounting bracket included for easy wall or pole mounting
Quality of Service (QoS)	
QoS	Wi-Fi Multimedia and Traffic Specification (WMM TSPEC), client QoS
Performance	
Wireless throughput	Up to 1.9 Gbps 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-based utility 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 and exported configuration file

Dynamic Host Configuration Protocol (DHCP)		DHCP Client			
IPv6 host		Yes			
HTTP redirect		Yes			
Wireless					
Frequency		Dual Concurrent radios (2.4 GHz and 5 GHz)			
Radio and modulation type		Dual radio, orthogonal frequency division multiplexing (OFDM) IEEE 802.11 a/n: OFDM(BPSK/QPSK/16QAM/64QAM/256AM) 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 1 for 20-MHz bandwidth; 7 for 40-MHz bandwidth 802.11 dynamic frequency selection (DFS)			
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
	2400-2483.5 MHz	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	-	-
	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	-
5470-5275 MHz Band		106	5530 MHz	134	-
		108	5540 MHz	136	-
		110	5550 MHz	140	-
		149	5745 MHz	157	-
		151	5755 MHz	159	-
		153	5765 MHz	161	-
		155	5775 MHz	165	-

Transmitted output power	2.4 GHz
	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
	5 GHz UNII-1 (5150~5250 MHz)
	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
	5 GHz UNII-2 (5250 - 5350 MHz)/UNII-2

	Extended (5470 – 5725 MHz)
	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
	5 GHz UNII-3 (5725 MHz~5850 MHz)
	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 +/- 1.5dBm @ 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
Operating temperature	-40° to 55°C (-40° to 131°F) with solar loading or -40 to 65°C (-40° to 149°F) without solar loading
Storage temperature	-50° to 70°C (-58 to 158°F)
Operating humidity	5% to 95% noncondensing
Storage humidity	5% to 90% noncondensing
System memory	256 MB RAM 128 MB flash