

H3C Aolynk UAP512G-AC13 Wall-Plate

802.11ac Wireless Access Point

Product Overview

H3C Aolynk UAP512G-AC13 is a Wi-Fi 5 (802.11ac) ultra-thin Wall-Plate AP product developed by New H3C Technologies Co., Ltd. (H3C). The AP adopts a dual-radio and four-stream design, and the maximum access rate is 1267Mbps. It has compact appearance, 7.9mm ultra-thin design (wall outside thickness), four-color shells, perfect fitting decoration style, simple installation, can be installed on the 86mm box, does not destroy the original decoration.

UAP512G-AC13 is suitable for school dormitories, hospital wards, hotel rooms, villa rooms etc, solves the problem of poor signal quality in the traditional AP layout mode in these scenes, and greatly reduces the installation cost and the operation cost brought by the implementation.

UAP512G-AC13 provides flexible management mode, which is suitable for different scenarios:

- Cloud management mode: With cloud remote management, monitoring, cloud operation and maintenance, network optimization and other industry-leading capabilities. Cloud management mode is the preferred management mode of this device which is suitable for networking requirements of various scales.
- Local web management mode: Supports Uweb management of Aolynk UR gateway. This mode applies to local web management.

* Note: For the corresponding management relationship with the gateway, refer to the release notes.



UAP512G-AC13 Wall-Plate wireless access point

Product Features

Standard 86mm panel size

UAP512G-AC13 adopts the standard 86mm×86mm panel size, which can completely reuse the user's existing 86mm panel cassette. When installing, it is convenient to replace the original panel with UAP512G-AC13 which adopts 7.9mm ultra-thin design (wall outside thickness).

Support OFDM technology

Support OFDM (Orthogonal Frequency Division Multiplexing) technology, convert high-speed data signals into parallel low-speed sub-data streams for transmission over different channels, eliminate inter-code crosstalk, and can flexibly allocate sub-channels to different users, achieve multi-user access.

Plug and play

The UAP512G-AC13 supports plug and play. When connected to cloud platform or Aolynk UR gateways, UAP512G-AC13 provides wireless services after powering on, making it easy to start and expand.

Support Aolynk UR gateway management

UAP512G-AC13 can be managed by the Aolynk UR gateways. It supports various management functions, such as wireless service configuration, RF configuration, firmware update, VLAN modification, and reset.

Support self-organizing network

The self-organizing network feature include fast deployment, fast configure, fast tuning, fast troubleshooting, and fast cloud access. It supports automatic discovery among devices, automatic establishment of topology and management, plug and play of new devices, automatic management, and automatic synchronization of configuration. The self-organizing network feature greatly simplifies user deployment and configuration in small and micro scenarios, improves user experience, provides users with better O&M through edge computing, reduces user costs.

Highly reliability

Highly Reliability is the foundation of good network. UAP512G-AC13 supports customized network link detection and a variety of network analysis tools, including a variety of hang detection and fault detection, so that you can easily find network problems. At the same time, it supports multiple fault recovery mechanisms to ensure stable network operation.

Aolynk Cloud network management platform

- With the Aolynk Cloud network management platform, enterprises can enjoy professional network management and operation and maintenance services without having to purchase professional management servers and software, which greatly reduces the cost of network management for enterprise users and improves the network operation and maintenance management experience.
- You can remotely log in to the web of device through the Aolynk Cloud network management platform for function configuration and remote diagnosis.

Specifications

Hardware specifications

Name	UAP512G-AC13
Dimensions	86mm×86mm×37mm
Weight	160g
Fixed port	Uplink: 1 10/100/1000Mbps auto-negotiated Ethernet uplink port (PoE powered) LAN: 1 10/100/1000Mbps auto-negotiated Ethernet port
PoE	Support 802.3af power supply
Case color	White (default). Black, gold, grey (optional)
Built-in antenna	Built-in omni-directional antenna (2.4GHz: 3dBi; 5GHz: 4dBi)
Radio frequency&MIMO	Radio1: 5G, 2x2, 866.7Mbps Radio2: 2.4G, 2x2, 400Mbps
Working frequencies	2.400 to 2.4835GHzISM 5.150 to 5.250GHzU - NII - 1 5.250 to 5.350GHzU - NII - 2A 5.470 to 5.725GHzU - NII - 2C 5.725 to 5.850GHzU - NII - 3/ISM Note: The available operating band varies according to the country of use of the device, depending on the country of final use of the device
Modulation technology	OFDM: BPSK@6/9Mbps, QPSK@12/18Mbps, 16-QAM@24Mbps, 64-QAM@48/54Mbps DSSS: DBPSK@1Mbps, DQPSK@2Mbps, CCK@5.5/11Mbps
Modulation mode	11b: DSSS: CCK@5.5/11Mbps, DQPSK@2Mbps, DBPSK@1Mbps 11a/g: OFDM: 64QAM@48/54Mbps, 16QAM@24Mbps, QPSK@12/18Mbps, BPSK@6/9Mbps 11n: MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM 11ac: MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM, 256QAM
Transmit power	2.4G: 18 dBm 5G: 17 dBm Note: Antenna gain is not included, the actual power is adjusted according to different national regulations
Adjustable power granularity	10%
Operating temperature/storage temperature	0°C ~ 40°C/-40°C ~ 70°C
Operating humidity/storage humidity	5% to 95% (non-condensing)/ 5% to 95% (non-condensing)

Name	UAP512G-AC13
Power consumption	≤11.65 W
MTBF	>613200 hrs at 25°C
Certification	CE, CB, RoHS

Software Specifications

Features	Description
802.11 protocol	802.11 a
	802.11 b
	802.11 d
	802.11 e
	802.11 g
	802.11 h
	802.11 i
	802.11 n
	802.11 ac
	802.11 k
	802.11 v
WLAN security	RSN
	WPA3
	WPA2
	WPA
	TKIP
	CCMP
	Open system
	PSK
	MAC address Blacklist
	MAC address whitelist
	Blacklist of domain names
Wireless services	SSID configuration
	Hide SSID configuration
	RF binding wireless service
	Bind service template to VLAN
	User rate Limiting
	Country code configuration
Radio frequency management	Power Settings
	Channel Settings

Features	Description
	DFS
	RF switch
	RF mode
WRRM	5G first
	802.11g protection
	802.11n protection
RRM	Automatic optimization, manual optimization
User isolation	VLAN-based user isolation
Weak signal optimization	Disable weak signal clients access
	Actively triggers re-association of weak-signal clients
Wireless optimization	Roaming sensitivity adjustment
	Maximum number of clients based on Radio
Network protocols	ARP
	ARP SNOOPING
	ICMP
	NTP client
	DNS client
	TCP/UDP
	DHCP Wi-Fi Server
	DHCP Client
	DHCP option 43
	HTTP
	IPV6 (only support IP address acquisition and data forwarding)
	LLDP
	802.1 q
VLAN	SSID-based VLAN
	Port-based VLAN
Forwarding	Layer 2 forwarding
Self-organizing network	Self-organizing Network
Maintenance	Firmware brick recovery
	Configuration and log collection
	Port-based rate statistics
	Terminal trend statistics based on wireless services
	Traffic statistics based on wireless services
	Radio-based terminal trend statistics
	Radio-based Wi-Fi channel utilization statistics
	Displays the IP addresses of all VLANs

Features	Description
	PING tool
	Traceroute
	Connectivity Detection
	Quickly detect gateway address
Equipment management	Change login password
	AP indicator switch
	Flashing light for AP
	Configuration Import
	Factory restore
	Reboot
	Timed reboot
	Configure Aolynkcloud address and port
	Self-unbind function
	Set the date time and time zone
	Self-organizing network switch
	Change IP address of VLAN where the management Wi-Fi resides
Firmware upgrade	Online Upgrade
	Offline upgrade
	New firmware alert
User interface	Cloud management
	Local Web management
Performance specifications	Maximum number of wireless terminal access is 256 (theoretical value)
	Maximum SSID supported by all RFs is 8 (including 1 managed Wi-Fi)
	Radio1: 0~8个; Radio2: 0~8个
	Note: Users can freely combine the number of SSIDs supported under each radio frequency according to their actual needs.
	Maximum number of network management devices in Self-organizing network is 32 (TM is AP)

Note: All performance specifications are recommended by comprehensive evaluation in specific laboratory environment. There may be differences based on the actual environment on site.



New H3C Technologies Co., Limited

Beijing Headquarters
Tower 1, LSH Center, 8 Guangshun South
Street, Chaoyang
District, Beijing, China

Hangzhou Headquarters
466 Changhe Road, Binjiang District,
Hangzhou City
310052, China

<http://www.h3c.com>

Customer service hotline

https://www.h3c.com/en/Support/Online_Help/Service_Hotlines/

Copyright © New H3C Technologies Co., Ltd. All Rights Reserved.

Disclaimer: Although H3C has attempted to provide accurate information in this material, it does not warrant that the content of the material is free from technical errors or typographical errors, for which H3C assumes no responsibility for inaccuracies in this material.

H3C reserves the right to modify the content of this material without notice or prompt.