

H3C Aolynk UAP622G-AX18

Ceiling-Mounted 802.11ax Wireless Access Point

Product Overview

H3C Aolynk UAP622G-AX18 is a Wi-Fi 6 (802.11ax) Ceiling-Mounted 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 1775Mbps. The signal coverage quality is superior, meeting the wireless coverage requirements of indoor scenarios such as small, medium and micro enterprises, hospitals, schools, catering, hotels and entertainment.

UAP622G-AX18 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.



UAP622G-AX18 Ceiling-Mounted wireless access point

Product Features

Support OFDMA technology

Supports OFDMA (Orthogonal Frequency Division Multiple Access) technology. The AP can subdivide wireless bandwidth and use different subcarriers to transmit data to multiple terminals simultaneously at the same time, reducing the delay caused by air interface resource conflicts and backoff in traditional protocols among multiple users, and improving the user experience of low-latency applications such as voice and video in multi-user scenarios.

Support Spatial Reuse technology

Supports SR (Spatial Reuse) technology and BSS Coloring coloring mechanism. By identifying the color of the message at the link layer to control the terminal to adjust the transmission power, it enhances the channel reuse capability in high-density deployments, alleviates the problem of co-channel interference during multi-user usage, and significantly improves the utilization rate of spectrum resources.

Support TWT technology

Supports TWT (Target Wake Time) technology, allowing the AP to uniformly schedule the wake-up and sleep of terminals. This not only reduces conflicts among terminals but also reduces unnecessary wake-ups of terminals, achieving the purpose of energy conservation.

Plug and play

The UAP622G-AX18 supports plug and play. When connected to cloud platform or Aolynk UR gateways, UAP622G-AX18 provides wireless services after powering on, making it easy to start and expand.

Support Aolynk UR gateway management

UAP622G-AX18 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. UAP622G-AX18 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	UAP622G-AX18
Dimensions	220mm×220mm×35mm
Weight	380g
Fixed port	Uplink: 1 10/100/1000Mbps auto-negotiated Ethernet uplink port (PoE powered)
PoE	Support 802.3at power supply
Case color	White
Built-in antenna	Built-in omni-directional antenna (2.4GHz: 3dBi; 5GHz: 4dBi)
Radio frequency&MIMO	Radio1: 5G, 2x2, 1201Mbps Radio2: 2.4G, 2x2, 574Mbps
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

Name	UAP622G-AX18
	11ac: MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM, 256QAM 11ax: MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Transmit power	2.4G: 23.5 dBm 5G: 22.5 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 ~ 45°C/-40°C ~ 70°C
Operating humidity/storage humidity	5% to 95% (non-condensing)/ 5% to 95% (non-condensing)
Power consumption	≤11.35 W
MTBF	2229720 hrs
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 ax
	802.11 k
	802.11 v
	WLAN security
WPA3	
WPA2	
WPA	
TKIP	

Features	Description
	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
	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)

Features	Description
	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
	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)

Features	Description
	<p>Radio1: 0~8个; Radio2: 0~8个</p> <p>Note: Users can freely combine the number of SSIDs supported under each radio frequency according to their actual needs.</p> <hr/> <p>Maximum number of network management devices in Self-organizing network is 32 (TM is AP)</p>

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



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