

# H3C Aolynk UAP612MG-AX30 Wall-Plate

## 802.11ax Wireless Access Point

### Product Overview

H3C Aolynk UAP612MG-AX30 is a Wi-Fi 6 (802.11ax) 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 2976Mbps. 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.

UAP612MG-AX30 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.

UAP612MG-AX30 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.



UAP612MG-AX30 Wall-Plate wireless access point

### Product Features

#### Standard 86mm panel size

UAP612MG-AX30 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 UAP612MG-AX30 which adopts 7.9mm ultra-thin design (wall outside thickness).

## 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 UAP612MG-AX30 supports plug and play. When connected to cloud platform or Aolynk UR gateways, UAP612MG-AX30 provides wireless services after powering on, making it easy to start and expand.

## Support Aolynk UR gateway management

UAP612MG-AX30 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. UAP612MG-AX30 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	UAP612MG-AX30
Dimensions	86mm×86mm×37mm
Weight	160g
Fixed port	Uplink: 1 100/1000/2500Mbps 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, 2402Mbps 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 11ac: MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM, 256QAM 11ax: MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM

Name	UAP612MG-AX30
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)
Power consumption	≤11 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 ax
	802.11 k
	802.11 v
WLAN security	RSN
	WPA3
	WPA2
	WPA
	TKIP
	CCMP
	Open system

Features	Description
	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
Radio frequency management	Country code configuration
	Power Settings
	Channel Settings
	DFS
	RF switch
WRRM	RF mode
	5G first
	802.11g protection
RRM	802.11n protection
	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	

Features	Description
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
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.

Features	Description
	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.



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