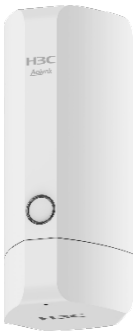
H3C Aolynk UAP632G-AX30 Outdoor 802.11ax Access Point

Product Overview

H3C Aolynk UAP632G-AX30 is a Wi-Fi 6 (802.11ax) outdoor 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 2.975Gbps. The signal coverage quality is superior, meeting the wireless coverage requirements of outdoor scenarios such as small, medium and micro enterprises, hospitals, schools, catering, hotels and entertainment.



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Product Features

Highly reliability

- Advanced Hardware Protection: Built with 6kV surge protection and port safeguards to withstand powerful electrical surges. The IP68 protection degree ensures complete resistance to rain and dust, guaranteeing long-term stable performance even in harsh environments while significantly reducing failure rates and maintenance costs.
- Flexible Dual Power Supply: Supports both PoE+ and DC power input, allowing for flexible deployment based on site conditions. This dual-mode design makes installation effortless and adaptable to a variety of scenarios.
- Highly Reliability is the foundation of good network. UAP632G-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.

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 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 UAP632G-AX30 supports plug and play. When connected to cloud platform or Aolynk UR gateways, UAP632G-AX30 provides wireless services after powering on, making it easy to start and expand.

Easy Network Management

- Aolynk APP for Mobile O&M: Enables easy viewing of network status, configuration adjustments, and fault diagnosis via mobile devices, empowering customers to manage their networks efficiently.
- Aolynk Cloud for Hassle-Free Management: Offers cloud-based network operations without the need for dedicated management servers or software. This significantly reduces investment costs for enterprise users while ensuring a highly efficient O&M experience.
- Local UWEB Management Based on Aolynk UR networking: Supports integrated whole-network management through the UWEB tool for local deployments. It provides a simple and easy-to-use interface for quick setup, rapid deployment, and efficient configuration and management of all network devices.
- Single-Device Web Management: Caters to diverse user scenarios with standalone web-based management. Additionally, it supports remote access to the local web GUI via the Aolynk Cloud management platform or the UWEB whole-network management platform for service configuration and remote diagnostics, making management more convenient and efficient.

Specifications

Hardware specifications

Name	UAP632G-AX30
Dimensions	101mmx110mm×250mm (excluding the Integrated Mounting Bracket)
Weight	1.10KG
Case color	White
Fixed port	uplink: 1 x 10/100/1000Mbps auto-negotiated Ethernet uplink port (PoE+ powered)
PoE	Support 802.3at power supply
Power consumption	≤14.4W
Built-in antenna	Built-in omni-directional antenna（2.4G：3dBi；5G：5dBi）
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 DSSSS: 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
Transmit power	2.4G: 28dBm 5G: 29dBm Note: Antenna gain is not included, the actual power is adjusted according to different national regulations
Adjustable power granularity	10%
Operating temperature/storage temperature	-30°C～55°C/-40°C～85°C

Name	UAP632G-AX30
Operating humidity/storage humidity	0% ~100% (non-condensing)/ 0% ~100% (non-condensing)
Protection degree	IP68
Port surge protection	±6Kv
MTBF	2171266 hrs
Certification	CE、CB、RoHS
Warranty	3Y

Software specifications

Features	Description
802.11 protocol	802.11a
	802.11b
	802.11d
	802.11e
	802.11g
	802.11h
	802.11i
	802.11n
	802.11ac
	802.11ax
	802.11k
	802.11v
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

Features	Description
	Hide SSID configuration
	RF binding wireless service
	Bind service template to VLAN
	User rate Limiting
Radio frequency management	Power Settings
	Channel Settings
	DFS
	RF switch
	RF mode
	Country code configuration
WRRM	5G first
	802.11g protection
	802.11n protection
User isolation	VLAN-based user isolation
Wireless optimization	Disable weak signal client's access
	Actively triggers re-association of weak-signal clients
	RRM auto-optimization
	RRM manual-optimization
	Roaming sensitivity adjustment
	Maximum number of clients based on Radio
Network protocols	ARP
	ARP SNOOPING
	ICMP
	NTP client
	DNS client
	TCP/UDP
	DHCP Server（for Wi-Fi clients only）
	DHCP Client
	HTTP
	IPV6 (only support IP address acquisition and data forwarding)
	LLDP
	802.1q
VLAN	SSID-based VLAN
	Port-based VLAN
Forwarding	Layer 2 forwarding
Self-organizing network	Self-organizing network

Features	Description
Portal Authentication (Requires Aolynk UR + Aolynk Cloud Platform)	One-click Authentication Email Authentication Account Authentication Dumb Terminal Authentication
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 Version upgrade	Online Upgrade
	Offline upgrade
	New firmware version notification
User interface	Cloud management
	Local Web management
	APP 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 Note: Users can freely combine the number of SSIDs supported under each radio

Features	Description
	frequency according to their actual needs.

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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