



# H3C WA6628X New Generation Access Point

**802.11ax Outdoor Series Access Point** 





New H3C Technologies Co., Limited

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#### **Overview**

H3C WA6628X is a new generation Wi-Fi 6 product that complies with the 802.11ax standard.

The access point has 12 streams and supports flexible switching among two modes: dual-radio, and triple-radio, achieving speeds up to 5.95 Gbps. Select industrial-grade wide temperature devices, which can operate stably for a long time under the environment of  $-40^{\circ}$ C  $\sim 70^{\circ}$ C. Special installation accessories meet the requirements of flexible installation and facilitate the disassembly and replacement of equipment.

The access point adopts industrial-level design, meets the requirements of rail transit and other industry standards in terms of high and low temperature, vibration, and electromagnetic compatibility, and provides flexible wireless coverage solutions for industrial application scenarios such as rail transit.



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# **Features and Benefits**

# Wi-Fi 6 (802.11ax) Standards

#### Orthogonal Frequency Division Multiple Access (OFDMA)

802.11ax uses OFDMA to allow multiple users to transmit data simultaneously. OFDMA splits a channel into sub-channels, known as resource units (RUs), with specific subcarriers, and assigns RUs to different users for simultaneous transmission. OFDMA enables simultaneous multi-user transmission and reduces latency caused by channel contention.

#### **DL/UL MU-MIMO**

DL/UL MU-MIMO technology allows AP to send data to multiple stations simultaneously, breaking through the traditional wireless serial communication mechanism, increasing the utilization rate of wireless spectrum resources, and improving the number of effective access users and access experience under high-density deployment.

#### **BSS Coloring**

Spatial reuse allows the access points and their clients to differentiate between BSSs, assigns a different color per BSS to help access point identify co-channel interference and stop transmission in time. This optimizes frequency reuse and improves network capacity.

#### Target Wake Time (TWT)

TWT improves power efficiency and reduces contention by increasing client sleep time and allowing negotiation of the times that clients can access the medium.

#### **Innovative AI-Native Capabilities**

The access point can realize AI-based radio frequency (RF) management, the connection of the terminal to the network, service assurance, and healing of the network through the convergence of cloud, networking and edge and H3C' s iRadio, iStation, iHeal, and iEdge technologies.

# **Security Policy**

#### Wireless security quarantee

The APs support WPA2-Personal, WPA2-Enterprise, WPA3-Personal, WPA3-Enterprise authentication and encryption modes to ensure security of the wireless network.



#### Analysis on Non-Wi-Fi Interference Sources

APs can analyze the spectrum of non-Wi-Fi interference sources and identify them, including Bluetooth devices, wireless audio transmitters, and microwave ovens. Coupled with H3C AD-Campus, the locations of the interference sources can be detected, and the spectrum of them displayed, enabling the administrator to remove the interference in a timely manner.

#### Rogue Device Monitoring

APs support WIPS, and can monitor, identify, defend, counter, and perform refined management on the rogue devices, to provide security guarantees for air interface environment and wireless data transmission.

#### **Link Protection**

The CAPWAP link protection and DTLS encryption provide security assurance, improving data transmission security between the AP and the AC.

#### Real Time Spectrum Guard (RTSG)

Real-Time Spectrum Guard (RTSG) is the innovative H3C professional state-monitoring solution for the wireless spectrum. APs support the internal RF data acquisition module to achieve deeply integrated monitoring and real time spectrum protection.

# **Network optimization**

#### **Doctor AP**

Doctor AP mode, combining H3C AC and H3C Cloudnet platform, collects wireless network information for scenarios where terminal access is abnormal, and analyzes and locates wireless faults quickly and accurately.

#### RRM

Radio Resource Management (RRM), the AP monitors air interface channel utilization, channel interference, and signal conflict in real time, and works with H3C Cloudnet to adjust RF parameters such as working channel, bandwidth, and power in a timely manner to maintain the optimal RF resource status.

#### **RROP**

Radio Resource Optimization Policy (RROP) refers to the collection of multiple wireless air interface optimization methods, which is committed to reducing or controlling the consumption of air interface media resources by management packets, broadcast packets, and invalid packets. Set aside more resources to provide users with better wireless application services.

#### **SACP**

The Station Access Control Policy (SACP) restricts, controls, and guides the access of wireless terminals to

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better AP or wireless services. In addition, terminal traffic is controlled and scheduled according to network applications to improve the overall performance of the wireless network and improve the experience and effect of wireless access applications.

#### **Roaming Protection**

Wireless AP fully supports the Fast BSS Transition function defined in the 802.11r standard, which can accelerate the roaming process of wireless users, reduce the probability of connection interruption, and improve the roaming service quality. Through 802.11k protocol mechanism, AP and wireless client interact with each other to perceive the network topology in multiple dimensions. The AC recognizes and calculates the roaming time and roaming access location of the wireless client in full view, and negotiates the switch with the client through 802.11v and 802.11r mechanisms.

#### Cellular Coexistence Feature (CCF)

The access point uses built-in software filtering to minimize the impact of interference from 3G/4G cellular networks.

# **Application Guarantee**

#### Application identification

APs support smart application control technology and can implement visualized control on Layer 4 to Layer 7 applications. Coupled with H3C WLAN ACs, the APs can identify a large number of common applications in various office scenarios. Based on the identification results, policy control can be implemented on user services, including priority adjustment, scheduling, blocking, and rate limiting to ensure efficient bandwidth resource and improve quality of key services.

# Flexible Networking

#### **AC-based Management**

The access point supports Fit AP mode and can be managed by the Wireless Service Manager (WSM) component of the H3C Intelligent Management Center (IMC). WSM offers a simple and user-friendly management platform for wireless network administrators. It implements panel management, troubleshooting, performance monitoring, software version control, configuration management, and user access management of wireless devices.

#### Cloud-based Management

This access point supports cloud AP mode, which can be managed through the cloud without deploying

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wireless controllers and authentication servers. It supports multiple authentication methods such as PPSK, Portal, 802.1X, SMS, and social media. At the same time, the cloud management platform can monitor the device status and terminal connection status, comprehensively evaluate and optimize the business operation status of the entire wireless network, and achieves the optimal wireless network Total Cost of Ownership (TCO).

#### **Anchor-based Management**

Anchor mode is designed for small-scale networks, the access point supports Anchor mode, it integrates some of the functions of the wireless controller and can be used to manage a small number of Fit APs without licenses, thus saving customer investment.

# **Power Saving**

The access point employs a green design that supports Dynamic and Static SM Power Saving (SMPS), Enhanced Automatic Power Save Delivery (E-APSD). It can dynamically adjust the MIMO working mode and efficiently put terminals to sleep.

The access point supports green AP mode that enables single radio standby and allows for more precise power control.

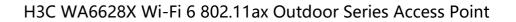
The access point supports the innovative per-packet power control (PPC) technology, which reduces standby power consumption and improves mobile device standby time.



# **Technical specifications**

# Hardware specifications

Name	WA6628X	
Weight	3.2kg	
Dimensions (W × D × H)	280mm x 280mm x 85mm	
Interface	2 x 1000M/2.5G/5G/10G Multigigabit optical port, SFP+ 1 x 100/1000M Multigigabit Ethernet, RJ-45, PoE output	
Console port	1 × Management console port (RJ-45)	
PoE output	1 x 100/1000M Multigigabit Ethernet, 802.3af	
Local power supply	100V to 264V AC	
Antenna Type	External antenna	
External IoT Module	RFID/Zigbee	
Frequency bands	2.400 to 2.4835GHz ISM 5.150 to 5.250GHz U-NII-1 5.250 to 5.350GHz U-NII-2A 5.470 to 5.725GHz U-NII-2C 5.725 to 5.850GHz U-NII-3/ISM Note: The available bands and channels are dependent on the configured regulatory domain (country)	
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	
Maximum transmit	5GHz: 33dBm	





power	2.4GHz: 30dBm			
	Note: Transmit power is multi-chain combined power, no antenna gain is included. The actual transmit power depends on local laws and regulations			
Adjustable power granularity	1 dBm	1 dBm		
Installation	pole mounting/wall mo	unting		
LED	Alternating flashing mo	de, orange/green/blue for o	different working states	
T	Operating temperature:	-30°C to +55°C		
Temperature	Storage temperature: –	10°C to +70°C		
Llumidity	Operating humidity: 0%	to 100% (non-condensing)		
Humidity	Storage humidity: 0% to	100% (non-condensing)		
Protection class	IP68			
Surge	6KV	6KV		
	52W (including PSE)			
Overall power	37W (excluding PSE)			
consumption	Note: Power required at the power source equipment (PSE) will depend on the cable length and other environmental issues.			
	IEC/EN 62368-1			
Safety Standards	GB 4943.1			
SRRC				
		CISPR 32	IEC/EN 61000-4-2	
	EN 301 489-1	CISPR 35	IEC/EN 61000-4-3	
	EN 301 489-3	AS/NZS CISPR32	IEC/EN 61000-4-4	
	EN 301 489-17	ICES-003 Issue 7	IEC/EN 61000-4-5	
EMC Standards	EN 60601-1-2	GB/T 9254.1	IEC/EN 61000-4-6	
	EN 55032	GB/T 9254.2	IEC/EN 61000-4-8	
	EN 55035	GB 17625.1	IEC/EN 61000-4-11	
		GB 17625.2	IEC/EN 61000-3-2	
			IEC/EN 61000-3-3	
Radio Standards	ETSI EN 300 328			
	ETSI EN 301 893			



	ETSI EN 300 440
	FCC Part 15E
	DIRECTIVE 2011/65/EU
RoHS Standards	(EU) 2015/863
Health Standards	EN 50385:2017
	EN IEC 62311:2020
MTBF	> 856044 hours

# Software specifications

Name		WA6628X
	Basic information	Outdoor, dual or triple radio AP, 802.11a/b/g/n/ac/ac Wave 2/ax
		Dual-radio mode:
		5GHz, 8×8:8, 4.8Gbps
		2.4GHz, 4×4:4, 1.15Gbps
	Frequency and MIMO:	Triple-radio mode:
		5.8GHz, 4×4:4, 2.4Gbps
		5.2GHz, 4×4:4, 2.4Gbps
		2.4GHz, 4×4:4, 1.15Gbps
Product positioning	Compliance and bandwidth	5GHz, 802.11a/n/ac/ax
rroddet positioning		20MHz/40MHz/80MHz
		2.4GHz, 802.11b/g/n/ax
		20MHz/40MHz
	Maximum transmission speed	5.95Gbps
		(8x8 80MHz on 5GHz, and 4x4 40MHz on 2.4GHz)
		5.95Gbps
		(4x4 80MHz on 5.8GHz, 4x4 80MHz on 5.2GHz, and 4x4 40MHz on 2.4GHz)
	Maximum number of	Dual-radio mode:
	clients	1024



		(542 - 561)
		(512 on 5GHz, and 512 on 2.4GHz)
		Triple-radio mode:
		1536
		(512 on 5.8GHz, 512 on 5.2GHz, and 512 on 2.4GHz)
		Note: the actual number of users varies according to the environment
	Maximum number of SSIDs for each radio	16
	MU-MIMO	Support DL MU-MIMO/ UL MU-MIMO
	OFDMA	Support DL OFDMA/ UL OFDMA
802.11ax	TWT	Target Wake Time, allowing clients to sleep for a predetermined period of time and be awakened only when network communication is needed, effectively reducing the power consumption
	BSS coloring/SR	Spatial reuse, dividing different BSSs into different colors to avoid co-frequency interference and improve the user experience of wireless networks
	A-MPDU	Aggregated MAC Protocol Data Unit, Improves the data transmission efficiency of wireless networks by optimizing the composition of TX/RX directional data packets
	A-MSDU	Aggregated MAC Service Data Unit, Improves the data transmission efficiency of wireless networks by optimizing the composition of TX/RX directional data packets
WLAN basics	LDPC	Low-density Parity-Check, Improves the communication efficiency of wireless networks through error correction coding technology
	STBC	Space-Time Block Coding, Improve the Channel capacity of wireless networks through multi-antenna coding technology
	DFS	Dynamic Frequency Selection, automatically identify DFS frequency bands, automatically adjust frequencies of the devices, and avoid interference with other devices
	TxBF	Transmit Beamforming, Improve the signal-to-noise ratio of wireless network signal transmission by adjusting the beam direction of antenna transmitting signals



	MRC	Maximum-ratio combining, improve signal reception quality
	CDD/CSD	Cyclic Delay Diversity/Cyclic Shift Diversity, improve signal reception quality
	CAPWAP tunnel	Support unicast/broadcast/DNS/DHCP/static IP method for discovering AC
	NAT	Support NAT between AC and AP
	DTLS	Tunnel between AC and AP supports DTLS encryption
	IPv4/IPv6	Tunnel between AC and AP supports IPv4 and IPv6
Tunnel	Time synchronization	Support synchronizing clock information from AC
management	Dual tunnel	Support establishing CAPWAP tunnels with two ACs
	PPPOE	Support PPPOE Client
	EoGRE	EoGRE (Ethernet over GRE), generic Routing Encapsulation, used to encapsulate and unpack Ethernet data packets
	IPsec	Cloud AP mode Supports IPsec
	RF adjustment	Support Automatic channel/power/bandwidth adjustment
	SSID hiding	Restrict access and improve wireless network security by SSID hiding
	Limit the number of connected users	Supports SSID/RF based
WLAN extension	Forwarding mode	Centralized forwarding/local forwarding/policy forwarding
		Note: The AP supports centralized forwarding/policy forwarding only on the AC in Fit AP mode
	Local forwarding	Local forwarding based on SSID and VLAN
	VLAN binding	Supports interface/SSID/MAC binding VLAN based
	User isolation	VLAN-based user isolation
		SSID-based user isolation
	Load balancing	Supports traffic-based load balancing



		Supports user-based load balancing
		Supports frequency band-based load balancing, dual-5G devices only
	Band steering	Improve service quality by prioritizing access to 5G frequency bands for wireless clients
	D. a susing a	Support 802.11k and 802.11v smart roaming
	Roaming	Support 802.11r fast transition roaming
	NALUKI	Supports IPv4/IPv6 MLD Snooping/IGMP Snooping
	Multicast enhancement	Convert multicast data into unicast data for transmission, reducing network congestion
	Wireless locating	The AP supports RSSI locating only on the AC in Fit AP mode
	IOT	Support External BLE、RFID and ZigBee
		Mesh link
	Mesh	Mesh link security
		Multi-hop Mesh
	Wireless probing	Monitor the wireless network environment by monitoring wireless network messages
	Hotspot 2.0	The AP supports Hotspot 2.0 only on the AC in Fit AP mode
	Bonjour gateway	Forwarding mDNS packets across VLANs
		Support local 802.1X authentication
	802.1X authentication	Support remote 802.1X authentication
	NAAC authoritisation	Support local MAC authentication
User Authentication	MAC authentication	Support remote MAC authentication
		Support local Portal authentication
		Support remote Portal authentication
	Portal authentication	Support Guest/Captive portal
		Support portal mac-trigger
		Support portal escape



	PSK	Support PSK and Private-PSK
	PPSK	Private Pre-Shared Key, obtain passwords to access wireless networks through the Cloudnet platform
	Social Media APPs Authentication	Cloud AP mode Support Google/Facebook/Twitter
		EAP-Transport Layer Security (TLS)
		EAP-Tunneled TLS (TTLS)
	Extensible	Microsoft Challenge Handshake Authentication Protocol (MSCHAP) v2
	Authentication Protocol	Protected EAP (PEAP) v0 or EAP-MSCHAP v2
	(EAP)	EAP-Flexible Authentication via Secure Tunneling (EAP-FAST)
		PEAP v1 or EAP-Generic Token Card (GTC)
		EAP-Subscriber Identity Module (SIM)
		TKIP, CCMP
		WPA2-Personal (802.11i)
	Encryption	WPA2-Enterprise with 802.1X
	Encryption	WPA3-Personal, WPA3-Enterprise
		WPA3-Enhanced Open (OWE)
		Advanced Encryption Standard (AES)
	Forwarding security	Packet filtering
Wireless Security		MAC address filtering
		Broadcast storm suppression
	Wireless EAD	With the EAD (End user Admission Domination) solution, it implements security policies on user terminals accessing the network to improve wireless network security
		Coupled with EAD (End user Admission Domination) solution, implement security policies for terminals accessing the network to improve wireless network security



	Management frame protection	Provide management frame protection for wireless clients to enhance wireless network security
	802.1X Client	Provide Ethernet port access protection for AP to enhance wireless network security
	WIPS	Wireless Intrusion Prevention System, protect the network from unauthorized access, such as Rogue AP, Rogue client, Rogue Wireless Bridge, Ad-hoc
	IPSG	IP source guard (IPSG) prevents spoofing attacks by using an IPSG binding table to filter out illegitimate packets.
	IP address configuration	Static IP/DHCP assigned IP
	Multicast	IGMP Snooping/MLD Snooping
	DHCP	Server/client/relay
	NAT	NAT/NPAT/NAT ALG/NAT LOG
Layer 2 and Layer 3	LLDP	Link Layer Discovery Protocol, discovering and identifying other LLDP enabled devices and neighboring devices in the network
	STP	Spanning Tree Protocol, preventing loops in the network
	IPv4	Supports ICMP/ACL/DHCP/TFTP/FTP/DNS policy
	IPv6	Supports ICMP/ACL/DHCP/TFTP/FTP/DNS policy
Service Assurance	Remote AP	After the tunnel between AC and AP is disconnected, AP continues to provide services to clients
	Doctor AP	The AP supports Doctor AP only on the AC in Fit AP mode, simulates wireless client access process, diagnoses network issues, and improves network experience
	Spectrum Analysis	WSA (Wireless Spectrum Analysis), detects interference promptly through real-time analysis of the network spectrum environment
	Only 802.11ax accessing	Only wireless clients that support 802.11ax can access the network, improving the network experience



	Intelligent bandwidth guarantee	Ensure that different wireless services can obtain the lowest guaranteed bandwidth during network congestion
	Port Aggregation	Multiple uplink ports for port aggregation to increase uplink bandwidth (only applicable to multiple uplink port APs)
	Broadcast suppression	Discard ARP request and response packets from wireless clients during the suppression cycle
	Prohibit weak signal client access	AP prohibits wireless clients with signals below the threshold from accessing, to avoid low-signal clients occupying more channel resources
	Terminal roaming navigation	Adjust the AP transmission power to create more roaming conditions and improve the roaming experience
	Actively triggering client relinking	AP actively sends messages to allow wireless clients to reconnect or roam actively
	Adjust channel reuse between APs	RF chip adjusts the environmental noise perceived by the device to improve AP transmission efficiency
	Fast forwarding function for client data services	Intelligent optimization of RF chip business processing can improve performance
	Shorten client sleep time	RF chips shorten client sleep time and improve transmission efficiency through beacons
	Software version anomaly repairing	After the software version is damaged due to abnormal circumstances, AP can automatically download the available software version through AC or cloud platform
Service quality	WMM	Wi-Fi Multimedia, Improve the service quality of audio and video transmission in wireless networks through EDCA scheduling algorithm
	QoS	Priority Class, By marking TOS/DSCP fields to distinguish data streams with different priorities, high priority data streams can be quickly distributed, thereby improving service quality
		Priority Class, supports mapping from wireless priority



		to wired priority
		QoS policy mapping, support QoS policy mapping based on SSID and VLAN
		Layer 2 to Layer 4 packet filtering and traffic classification
		CAR (Committed Access Rate), by limiting data transmission rate, avoid network congestion caused by traffic congestion
		Allocate available bandwidth per STA
	User bandwidth	Allocate total bandwidth for all STA shares based on SSID
	management	Dynamically adjust the available bandwidth of STA based on business
	ATF	Air Time Fairness, by allocating an equal amount of RF usage time, reducing wireless channel congestion and improving the efficiency and fairness of wireless networks
	CAC	Call Admission Control, improve the quality of service for wireless clients that have already received high priority by limiting the number of wireless clients that have received high priority
		Supports number of users/Channel utilization based
		Supports layer L2-L7 application identification
	Application Identification	SQA (Software Quality Assurance), identifies audio and video services based on SIP protocol, prioritizing service quality assurance
	identification	UCC (Unified Communications and Collaboration), increase the processing priority of audio and video services and prioritize ensuring service quality
Power saving	PPC	Per-Packet Control, reduce device power consumption by adjusting the sending interval of data packets
	Green AP mode	Dynamically adjust MIMO configuration based on wireless client access status to reduce device power consumption



	U-APSD	Unscheduled Automatic Power Save Delivery, reduce device power consumption by scheduling VoIP data streams separately from non-VoIP data streams	
	SM Power Save	Spatial Multiplexing Power Save, reduce device power consumption through low-power standby mode	
	Centralized	Fit AP mode, managed by AC	
	management	Cloud AP mode, managed by the Cloudnet platform	
	GUI	Cloud AP mode Support WEB management via HTTP/HTTPS	
		Cloud AP mode Support SNMP V1/V2c/V3	
Management and	SNMP	The AP supports SNMP V1/V2c/V3 on the AC in Fit AP mode	
maintenance	Remote debugging	Support SSH V2.0/Telnet/FTP/TFTP	
	Local debugging	Support CLI	
	Information maintenance	Cloud AP mode Support Syslog	
	Netconf	Cloud AP mode Support Netconf provides programmable and scalable methods to manage	
		network devices	
		IEEE 802.11a/b/g/n/ac/ac Wave 2/ax	
IEEE standards	802.11	IEEE 802.11d/e/h/i/w/u	
		IEEE 802.11k/v/r	
	802.3	802.3af/at/bt	
	802.15	802.15.1	
Wi-Fi Certified	Wi-Fi Alliance: Wi-Fi 6, WMM, WPA, WPA2 and WPA3 – Enterprise, Personal		
vvi-ri Certillea	(SAE), Enhanced Open (OWE)		



# **Ordering information**

Product ID	Description
EWP-WA6628X- FIT	H3C WA6628X External Antennas 12 Streams dual or triple Radio 802.11ax/ac/n Access Point, FIT
ANT-2510P-M4	Directional Antenna,2400~2500MHz&4900~5950MHz,10dBi@2.4GHz&10dBi@5GHz,Vertical@40°&Horizon@40°,20W,N-J Type (selected on demand)
ANT-5014P-M4	Directional Antenna,5150~5850MHz,14dBi@5G,Vertical@30°&Horizon@30°,50W,N Type (selected on demand)
ANT-2547V	2.4GHz(4dBi) &5.150~5.850GHz(7dBi), Dual Band Omni Antenna, N-J, Outdoor (selected on demand)
CAB-RF-10m- (2*NSM+RG8/U)	RF Cable,10m,50ohm, N50 Straight Male, COAX-RG8/U, N50 Straight Male (selected on demand)
CAB-RF-4.5m- (2*NSM+RG8/U)	RF Cable,4.5m,50ohm, N50 Straight Male, COAX-RG8/U, N50 Straight Male (selected on demand)
CAB-RF-1.2m- 2*N50SM	RF Cable,1.2m, N50SM, COAX-LMR240B, N50SM (selected on demand)



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