

H3C WA7539 Wi-Fi7 (802.11be) Access Point

802.11be Indoor Series Access Point

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New H3C Technologies Co., Limited

H3C WA7539 Wi-Fi 7(802.11be) Indoor Series Access Points

Overview

H3C WA7539 is a new generation Wi-Fi 7 product that complies with the 802.11be standard. Compared to Wi-Fi 6/6E products, it can provide higher rates, larger capacity, and lower latency.

The access point has tri-radio 12 streams and with built-in antenna, including 4x4 6-GHz, 4x4 5-GHz, and 4x4 2.4-GHz, achieving speeds up to 18.67 Gbps. The access point has a 10 Gbps optical port and a 10 Gbps electrical port, providing redundant uplink ports. Redundant power supplies provide fault-free performance during failover.

This access point supports both wall-mounted and ceiling-mounted installation, and is designed for highend enterprise offices, high-density wireless access, multi-party video conferencing, online teaching, exhibition centers, and other scenarios that require high-bandwidth and high-quality network experience.



H3C WA7539 Indoor Access Point

Features and Benefits

Wi-Fi 7 (802.11be) Standards

Wi-Fi 7(802.11be) is the next generation Wi-Fi standard, with improvements in the following features compared to Wi-Fi 6/6E:

Supporting 320MHz bandwidth is an important physical layer technology in Wi-Fi 7. Compared to the 160MHz bandwidth of Wi-Fi 6/6E, the peak theoretical rate is directly doubled. Wi-Fi 7 has more bandwidth combinations, which can bring higher speed, wider coverage, and better multi user processing capabilities.



4096-QAM is also an important new technology in Wi-Fi 7. Compared to the 1024-QAM technology in Wi-Fi 6/6E, 4096-QAM technology can increase transmission speed by 20%, resulting in higher bandwidth utilization, more stable transmission rate, and better user experience.

MLO, Multi-Link Operation. By establishing multiple links, it can effectively improve the network performance, providing higher throughput, lower latency, and better connection quality.

MRU, Multiple Resource Unit. In Wi-Fi 6, a single STA can only use a single RU resource, which lacks flexibility. Wi-Fi 7 breaks this limitation by allowing a single STA to occupy multiple RUs simultaneously, and RUs of the same sizes can be combined together.

Preamble Puncturing. Utilizing discontinuous spectrum for data transmission to improve spectrum utilization efficiency. There are only a few available modes in Wi-Fi 6. On the one hand, Wi Fi 7 expands its bandwidth to 240MHz/320MHz; On the other hand, the spectrum drilling mechanism is more flexible for data transmission.

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 guarantee

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 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 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 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	WA7539
Weight	1.4kg
Dimensions (W × D × H)	225 mm × 225 mm × 47.2 mm
	1 x 100/1000M/2.5G/5G/10G Multigigabit Ethernet, RJ-45, PoE input
Interface	1 x /1000M/10G optical port, SFP+, PoE input
	1 x 100/1000M Multigigabit Ethernet, RJ-45, PoE output
Console port	1 × Management console port (RJ-45)
USB port	1(2.0) at 2.5W



	1 x 100/1000M/2.5G/5G/10G Multigigabit Ethernet, 802.3bt/at
PoE input	1 x 1000M/10G optical port, 802.3bt/at
PoE output	1 x 100/1000M Multigigabit Ethernet, 802.3af
Local power supply	54V DC
Antenna Type	Built-in omni-directional antenna
	6GHz peak gain: 6.4dBi
	5GHz peak gain: 5.2dBi
Antenna Gain	2.4GHz peak gain: 6.0dBi
	Note: The equivalent antenna gain is 5.6dBi in 6GHz, 4.6dBi in 5GHz and 4.9dBi in 2.4GHz
Built-in IoT Module	BLE5.1
External IoT Module	RFID/Zigbee
Modulation	OFDM: BPSK@6/9Mbps, QPSK@12/18Mbps, 16-QAM@24Mbps, 64- QAM@48/54Mbps
technology	DSSS: DBPSK@1Mbps, DQPSK@2Mbps, CCK@5.5/11Mbps
	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
Modulation mode	11ac: MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM, 256QAM
	11ax: MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
	11be: MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM
	6G: 26dBm
Maximum transmit	5G: 26 dBm
power	2.4G: 26 dBm
·	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
Reset/restoration to factory default	support



Kensington Lock	support			
Installation	wall mounting/ceiling mounting			
LED	Alternating flashing mode, orange/green/blue for different working states			
Tomporatura	Operating temperature: 0°C to +50°C (32°F to 122°F)			
Temperature	Storage temperature: –40°	C to +70°C (–40°F to +15	58°F)	
Humidity	Operating humidity: 5% to	95% (non-condensing)		
Humany	Storage humidity: 5% to 9	5% (non-condensing)		
Protection class	IP42			
	49.2W (including PSE and USB)			
Overall power	31.7W (without PSE and USB)			
consumption	Note: Power required at the power source equipment (PSE) will depend on the cable length and other environmental issues.			
Safety Standards	GB 4943.1			
Salety Standards	IEC/EN 62368-1	1		
	EN 301 489-1		IEC/EN 61000-4-2	
	EN 301 489-17	CISPR 32	IEC/EN 61000-4-3	
EMC Standards	EN 60601-1-2	CISPR 35	IEC/EN 61000-4-4	
	EN 55032		IEC/EN 61000-4-5	
	EN 55035		IEC/EN 61000-4-6	
	ETSI EN 300 328			
Radio Standards	ETSI EN 301 893, FCC Part 15E, ETSI EN 300 440			
	ETSI EN 303 687			
	SRRC			
RoHS	DIRECTIVE 2011/65/EU			
	(EU) 2015/863			
MTBF	> 250000 hours			

Software specifications

Name		WA7539
Product positioning	Basic information	Flagship, Indoor, tri-radio AP



		6GHz, 4×4:4, 11.53Gbps
	Frequency and MIMO:	5GHz, 4×4:4, 5.76Gbps
		2.4GHz, 4×4:4, 1.38Gbps
		6GHz, 802.11ax/be
	Compliance and bandwidth	20MHz/40MHz/80MHz/160MHz/320MHz
		5GHz, 802.11a/n/ac/ax/be
		20MHz/40MHz/80MHz/160MHz
		2.4GHz, 802.11b/g/n/ax/be
		20MHz/40MHz
	Maximum	18.67 Gbps
	transmission speed	(4x4 320 MHz on 6 GHz, 4x4 160 MHz on 5 GHz, and 4x4 40 MHz on 2.4 GHz)
	Maximum number of	1536
	clients	(512 on 6 GHz, 512 on 5 GHz, and 512 on 2.4 GHz)
	Maximum number of SSIDs for each radio	16
	320M bandwidth	\checkmark
	4096-QAM	\checkmark
802.11be	MLO	\checkmark
	Preamble puncturing	\checkmark
	Multi-RU	\checkmark
	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, divide different BSSs into different colors to avoid co frequency interference and improve the user experience of wireless networks
WLAN basics	A-MPDU	Aggregated MAC Protocol Data Unit, Improve the data transmission efficiency of wireless networks by optimizing



		the composition of TX/RX directional data packets
	A-MSDU	Aggregated MAC Service Data Unit, Improve the data transmission efficiency of wireless networks by optimizing the composition of TX/RX directional data packets
	LDPC	Low-Density Parity-Check, Improve 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	Support IPsec (Cloud AP mode)
WLAN extension	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
Forwarding mode	Centralized forwarding/local forwarding/policy forwarding
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
	Supports traffic-based load balancing
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
	Support 802.11k and 802.11v smart roaming
Roaming	Support 802.11r fast transition roaming
Multicast	Supports IPv4/IPv6 MLD Snooping/IGMP Snooping
Multicast enhancement	Convert multicast data into unicast data for transmission, reducing network congestion
	BLE locating
Wireless locating	RSSI locating
107	Support BLE
ΙΟΤ	RFID/ZigBee need to upgrade the software version
	Mesh link
Mesh	Mesh link security
	Multi-hop Mesh
Wireless probing	Monitor the wireless network environment by



		monitoring wireless network messages
	Hotspot 2.0	Support Hotspot 2.0 (Fit AP mode)
	Bonjour gateway	Forwarding mDNS packets across VLANs
		Support local 802.1X authentication
	802.1X authentication	Support remote 802.1X authentication
		Support local MAC 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
User Authentication	PPSK	Private Pre-Shared Key, obtain passwords to access wireless networks through the Cloudnet platform
	Social Media APPs Authentication	Support Google/Facebook/Twitter (Cloud AP mode)
	Extensible Authentication Protocol (EAP)	EAP-Transport Layer Security (TLS)
		EAP-Tunneled TLS (TTLS)
		Microsoft Challenge Handshake Authentication Protocol (MSCHAP) v2
		Protected EAP (PEAP) v0 or EAP-MSCHAP v2
		EAP-Flexible Authentication via Secure Tunneling (EAP- FAST)
		PEAP v1 or EAP-Generic Token Card (GTC)
		EAP-Subscriber Identity Module (SIM)
		ТКІР, ССМР
Wireless Security	Encryption	WPA2-Personal (802.11i)
		WPA2-Enterprise with 802.1X



		WPA3-Personal, WPA3-Enterprise
		WPA3-Enhanced Open (OWE)
		Advanced Encryption Standard (AES)
		Open system/shared key
		Packet filtering
	Forwarding 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
ayer 2 and Layer 3	NAT	NAT/NPAT/NAT ALG/NAT LOG
	LLDP	Link Layer Discovery Protocol, discovering and identifying other LLDP enabled devices and neighboring devices in the network



		1
	STP	Spanning Tree Protocol, preventing loops in the network
	IPv4	Supports ICMP/NTP/ACL/DHCP/TFTP/FTP/DNS policy
	IPv6	Supports ICMP/NTP/ACL/DHCP/TFTP/FTP/DNS policy
	Remote AP	After the tunnel between AC and AP is disconnected, AP continues to provide services to clients
	Doctor AP	Simulate wireless client access process, diagnose network issues, and improve network experience
	Spectrum Analysis	WSA (Wireless Spectrum Analysis), detects interference in a timely manner 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
Service assurance	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
	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
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 management	Allocate total bandwidth for all STA shares based on SSID
		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
		Call Admission Control, improve the quality of service



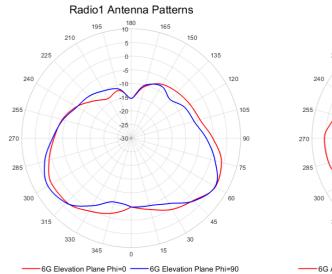
CAC for wireless clients that have already received high priority by limiting the number of wireless clients the have received high priority Supports number of users/Channel utilization based Supports number of users/Channel utilization based Application Identification Supports layer L2-L7 application identification SQA (Software Quality Assurance), identifies audio a video services based on SIP protocol, prioritizing ser quality assurance UCC (Unified Communications and Collaboration), increase the processing priority of audio and video services and prioritize ensuring service quality PPC Per-Packet Control, reduce device power consumpti by adjusting the sending interval of data packets Dynamically adjust MIMO configuration based on wireless client access status to reduce device power consumption Power saving Unscheduled Automatic Power Save Delivery, reduce	I
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PPC Per-Packet Control, reduce device power consumpting 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 Power saving Image: Consumption of the sender	
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Green AP mode wireless client access status to reduce device power consumption	on
U-APSD device power consumption by scheduling VoIP data streams separately from non-VoIP data streams	
SM Power SaveSpatial Multiplexing Power Save, reduce device power consumption through low-power standby mode	er
Centralized Fit AP mode, managed by AC	
management Cloud AP mode, managed by Cloudnet	
GUI Supports WEB management (Cloud AP mode)	
SNMP Supports SNMP V1/V2c/V3 (Cloud AP mode)	
Mangement and Remote debugging Supports SSH V2.0/Telnet/FTP/TFTP	
maintenance Local debugging Supports CLI	
Information maintenance Supports Syslog/SNMP Trap (Cloud AP mode)	
NetconfSupports Netconf, provides programmable and scal methods to manage network devices	able
IEEE standards 802.11 IEEE 802.11a/b/g/n/ac/ax/be	

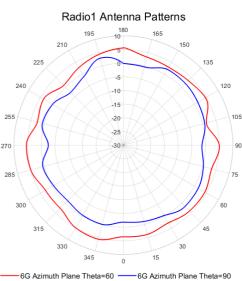


		IEEE 802.11d/e/h/i/w/u
		IEEE 802.11k/v/r
	802.3	802.3af/at/bt
	802.15	802.15.1
Wi-Fi Certified	Wi-Fi Alliance: Wi-Fi 6E, Wi-Fi 6, WMM, WPA, WPA2 and WPA3 – Enterprise,	
	Personal (SAE), Enhanced Open (OWE)	

Antenna Patterns

Radio1: 6GHz (AP front facing down)

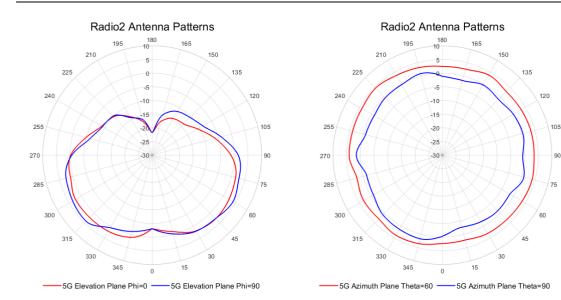




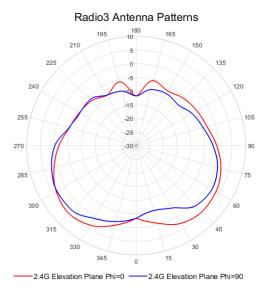
Radio2: 5GHz (AP front facing down)

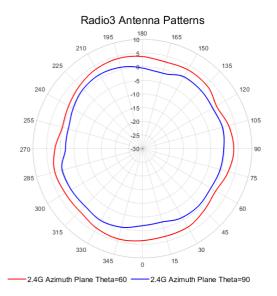


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Radio3: 2.4GHz (AP front facing down)





Ordering information

Product ID	Description	
EWP-WA7539-FIT	H3C WA7539 Internal Antennas 12 Streams Triple Radio 802.11be/ax/ac/n Access Point, FIT	
ADP060-55V-PoE-GL	H3C 55V 60W PoE Adapter Power Supply (optional)	



New H3C Technologies Co., Limited



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