

Huawei AirEngine 8776-X7F-T Access Point Datasheet

Product Overview

Huawei AirEngine 8776-X7F-T is an indoor access point (AP) in compliance with Wi-Fi 7 (802.11be). It can simultaneously provide services on 2.4 GHz, 5 GHz, and 6 GHz frequency bands, achieving a device rate of up to 26.56 Gbit/s. The AP is empowered by brand-new Wi-Fi 7 technologies and is equipped with built-in smart antennas to enable always-on Wi-Fi signals for users, significantly enhancing users' wireless network experience. These strengths make the AirEngine 8776-X7F-T ideal for indoor coverage scenarios such as enterprise office, education, and healthcare.



AirEngine 8776-X7F-T

- Provides services simultaneously on the 2.4 GHz (2x2 MIMO), 5 GHz (2x2 MIMO), 5 GHz (4x4 MIMO), 6 GHz (4x4 MIMO) and 6 GHz* (4x4 MIMO) frequency bands achieving rates of up to 0.688 Gbit/s, 1.441 Gbit/s, 1.376 Gbit/s, 11.53 Gbit/s, and 11.53 Gbit/s, respectively, and a maximum rate of 26.56 Gbit/s for the device.
- Built-in smart antennas that automatically adjust the coverage direction and signal strength based on the intelligent switchover algorithm. Such capability enables the AP to flexibly adapt to the application environment changes, providing accurate and stable coverage as STAs move.
- USB port can be used for external IoT expansion (supporting protocols such as ZigBee, and RFID).
- Supports Bluetooth serial interface-based O&M through built-in Bluetooth and CloudCampus APP.
- Supports Fit, Fat and cloud management working modes, and enables Huawei cloud management platform to manage and operate APs and services on the APs, reducing network O&M costs.

□ NOTE

It supports flexible switching of frequency bands as the following:

- 2.4G 2x2 MIMO +5G 4x4 MIMO +5G 2x2 MIMO+ 6G 4x4 MIMO+ 6G 4x4 MIMO
- 2.4G 4x4 MIMO +5G 4x4 MIMO +5G 4x4 MIMO+ 6G 4x4 MIMO
- 2.4G 4x4 MIMO +5G 4x4 MIMO +6G 4x4 MIMO+ 6G 4x4 MIMO
- 2.4G 2x2 MIMO +5G 4x4 MIMO +5G 2x2 MIMO+ 6G 4x4 MIMO+ scan radio

Feature Descriptions

Wi-Fi 7 (802.11be) standard

Wi-Fi 7 (802.11be) is the Wi-Fi standard, also known as IEEE 802.11be or extremely high throughput (EHT). Based on Wi-Fi 6, Wi-Fi 7 introduces technologies such as 4096-quadrature amplitude modulation (QAM), multi-resource unit (MRU), multi-link operation (MLO), enhanced multi-user multiple-input multiple-output (MU-MIMO). Drawing on these cutting-edge technologies, Wi-Fi 7 delivers a higher data transmission rate and lower latency than Wi-Fi 6.

New Features in Wi-Fi 7

Up to 320 MHz Bandwidth

The 2.4 GHz and 5 GHz frequency bands are unlicensed spectrums that limited and congested. When running emerging applications (such as VR/AR), existing Wi-Fi networks inevitably encounter low quality of service (QoS). To achieve a maximum of 30 Gbit/s throughput, Wi-Fi 7 will support the 6 GHz of frequency band and extend new bandwidth modes, including contiguous 240 MHz, non-contiguous 160+80 MHz, contiguous 320 MHz, and non-contiguous 160+160 MHz.

Multi-RU

In Wi-Fi 6, each user can send or receive frames only on the RUs allocated to them, which greatly limits the flexibility of spectrum resource scheduling. To resolve this problem and further improve spectrum efficiency, Wi-Fi 7 defines a mechanism for allocating multiple RUs to a single user. To balance the implementation complexity and spectrum utilization, the standard specifications impose certain restrictions on RU combination. That is, small RUs (containing fewer than 242 tones) can be combined only with small RUs, and large RUs (containing greater than or equal to 242 tones) can be combined only with large RUs. Small RUs and large RUs can be combined together.

Higher-Order 4096-QAM

The highest order modulation supported by Wi-Fi 6 is 1024-QAM, which allows each modulation symbol to carry up to 10 bits. To further improve the rate, Wi-Fi 7 introduces 4096-QAM so that each modulation symbol can carry 12 bits. With the same coding, 4096-QAM in Wi-Fi 7 can achieve a 20% rate increase compared with 1024-QAM in Wi-Fi 6.

Multi-Link Mechanism

To efficiently utilize all available spectrum resources, the industry is in urgent need to introduce new spectrum management, coordination, and transmission mechanisms on the 2.4 GHz, 5 GHz, and 6 GHz frequency bands. The TGbe defines multi-link aggregation technologies, including the MAC architecture of enhanced multi-link aggregation, multi-link channel access, and multi-link transmission.

There are two modes as for MLO:

- High-concurrency mode, multiple links send different data to improve bandwidth.
- High-reliability mode, multiple links send the same data, improving reliability.

Wi-Fi Shield

Wi-Fi Shield is an innovative wireless security technology developed by Huawei. It transmits extra interference signals to ensure that only the target terminal can accurately receive data packets and signals, preventing malicious users from listening. The Wi-Fi shield function is supported. Eavesdropping terminals cannot capture packets over the air interface.

Wi-Fi CSI Sensing

Wi-Fi CSI sensing is a cutting-edge technology for implementing sensing by using channel state information (Channel State Information, CSI) generated during radio signal propagation. Based on the Wi-Fi 7 standard, Huawei innovatively introduces Wi-Fi CSI to sense the presence of personnel, so that Wi-Fi signals can be sensed wherever they are. Compared with cameras, it protects user privacy and applies to scenarios such as energy saving, health care, and smart security.

Leader AP

The leader AP integrates some WLAN AC functions and can be used to manage Fit APs in small- and medium-sized enterprises and stores, implementing WLAN AC-free access not requiring licenses and saving customer investment.

Basic Specifications

Fit AP mode

Item	Description	
WLAN features	Compliance with IEEE 802.11be and compatibility with IEEE 802.11a/b/g/n/ac/ax Maximum ratio combining (MRC) Space time block code (STBC) Cyclic Delay Diversity (CDD)/Cyclic Shift Diversity (CSD) Beamforming	
	Multi-user multiple-input multiple-output (MU-MIMO) Orthogonal frequency division multiple access (OFDMA) Preamble puncturing	

Item	Description			
	BSS Color			
	TxBF			
	TWT			
	DPD			
	Compliance with 4096-quadrature amplitude modulation (QAM) and compatibility with 1024-QAM, 256-QAM, 64-QAM, 16-QAM, 8-QAM, quadrature phase shift keying (QPSK), and binary phase shift keying (BPSK)			
	Low-density parity-check (LDPC)			
	Frame aggregation, including A-MPDU (Tx/Rx) and A-MSDU (Tx/Rx)			
	802.11 dynamic frequency selection (DFS)			
	Short guard interval (GI) in 20 MHz, 40 MHz, 80 MHz, 160 MHz and 320 MHz modes			
	Wi-Fi multimedia (WMM) for priority-based data processing and forwarding			
	WLAN channel management and channel rate adjustment			
	NOTE			
	For detailed management channels, see the Country Codes & Channels Compliance.			
	Automatic channel scanning and interference avoidance			
	Service set identifier (SSID) hiding configuration for each AP, supporting Chinese SSIDs			
	Signal sustain technology (SST)			
	Unscheduled automatic power save delivery (U-APSD)			
	Multi-user call admission control (CAC)			
	Advanced cellular coexistence (ACC), minimizing the impact of interference from cellular networks			
	802.11k and 802.11v smart roaming			
	802.11r fast roaming (≤ 50 ms)			
	Spectrum analysis			
	Terminal location			
	FTM (Fine Timing Measurement) location			
	ASFN (Advanced Same Frequency Network)			
Network features	Compliance with IEEE 802.3ab			
	Auto-negotiation of the rate and duplex mode, and automatic switchover between Media Dependent Interface (MDI) and Media Dependent Interface Crossover (MDI-X)			
	Compatibility with IEEE 802.1Q			
	SSID-based VLAN assignment			
	Eth-Trunk function			
	Management channel of the AP's uplink port in tagged and untagged modes			
	DHCP client, obtaining IP addresses through DHCP			
	Tunnel data forwarding and direct data forwarding			
	STA isolation in the same VLAN			
	IPv4/IPv6 access control list (ACL)			
	Link Layer Discovery Protocol (LLDP)			
	Service holding when CAPWAP link disconnection in direct data forwarding mode			
	Unified authentication on the AC			
	AC dual-link backup			
	Telemetry, quickly collecting AP status and application experience parameters			
	MESH			
	HotSpot2.0			

Item	Description		
	IPv6 SAVI		
QoS features	WMM power save Priority mapping for upstream packets and flow-based mapping for downstream packets Queue mapping and scheduling User-based bandwidth limiting Adaptive bandwidth management (automatic bandwidth adjustment based on the user quantity and radio environment) to improve user experience Application identification and QoS classification to improve voice quality for popular applications, such as Zoom, QQ, and WeChat Airtime scheduling Air interface HQoS scheduling Intelligent multimedia scheduling VIP bandwidth reservation VIP FastPass, per-packet power control Native-IP IFIT		
	iFlow User-defined application		
Security features	Open system authentication WPA2-PSK authentication and encryption (WPA2-Personal) WPA2-802.1X authentication and encryption (WPA3-Enterprise) WPA3-SAE authentication and encryption (WPA3-Personal) WPA3-802.1X authentication and encryption (WPA3-Enterprise) WPA3-WPA2 hybrid authentication WPA2-WPA3 hybrid authentication WPA2-WPA3 hybrid authentication WPA2-WPA2-PPSK authentication and encryption WPAWPA2/WPA2-PPSK authentication and encryption Wireless intrusion detection system (WIDS) and wireless intrusion prevention system (WIPS), including rogue device detection and containment, attack detection and dynamic blacklist, and STA/AP blacklist and whitelist 802.1X authentication, MAC address authentication, and Portal authentication DHCP snooping 802.11w Protected Management Frames (PMF) CAPWAP DTLS data encryption and decryption URL filtering MACsec@ Uplink Ethernet port Wi-Fi Shield Secure boot Build-in TPM module Dot1x client		
EAP types	EAP-TLS, EAP-PEAP, EAP-CHAP, EAP-SIM, EAP-AKA, EAP-GTC, EAP-FAST, EAP-PEAP, EAP-MD5, EAP-MSCHAPv2, PEAPv0, PEAPv1		
Maintenance features	Unified AP management and maintenance on the AC Automatic AP onboarding, automatic configuration loading, and plug-and-play (PnP) Automatic batch upgrade STelnet using SSHv2		

Item	Description
	SFTP using SSHv2
	Remote wireless O&M through the Bluetooth serial port
	System status alarm
	Unified AP management on WebMaster
Sensing	Wi-Fi CSI Sensing

Fat AP mode

Item	Description			
WLAN features	Compliance with IEEE 802.11be and compatibility with IEEE 802.11a/b/g/n/ac/ax			
	Maximum ratio combining (MRC)			
	Space time block code (STBC)			
	Cyclic Delay Diversity (CDD)/Cyclic Shift Diversity (CSD)			
	Beamforming			
	Multi-user multiple-input multiple-output (MU-MIMO)			
	Orthogonal frequency division multiple access (OFDMA)			
	Preamble puncturing			
	BSS Color			
	TxBF			
	TWT			
	Compliance with 4096-quadrature amplitude modulation (QAM) and compatibility with 1024-QAM, 256-QAM, 64-QAM, 16-QAM, 8-QAM, quadrature phase shift keying (QPSK), and binary phase shift keying (BPSK)			
	Low-density parity-check (LDPC)			
	Frame aggregation, including A-MPDU (Tx/Rx) and A-MSDU (Tx/Rx)			
	802.11 dynamic frequency selection (DFS)			
	Short guard interval (GI) in 20 MHz, 40 MHz, 80 MHz, 160 MHz and 320 MHz modes			
	Wi-Fi multimedia (WMM) for priority-based data processing and forwarding			
	WLAN channel management and channel rate adjustment			
	NOTE			
	For detailed management channels, see the Country Codes & Channels Compliance.			
	Automatic channel scanning and interference avoidance			
	Service set identifier (SSID) hiding configuration for each AP, supporting Chinese SSIDs			
	Signal sustain technology (SST)			
	Unscheduled automatic power save delivery (U-APSD)			
	Advanced cellular coexistence (ACC), minimizing the impact of interference from cellular networks			
	802.11k and 802.11v smart roaming			
	802.11r fast roaming (≤ 50 ms)			
Network features	Compliance with IEEE 802.3ab			
	Auto-negotiation of the rate and duplex mode, and automatic switchover between Media Dependent Interface (MDI) and Media Dependent Interface Crossover (MDI-X)			
	Compatibility with IEEE 802.1Q			
	SSID-based VLAN assignment			
	DHCP client, obtaining IP addresses through DHCP			
	Tunnel data forwarding and direct data forwarding			

Item	Description		
	STA isolation in the same VLAN		
	IPv4 access control list (ACL)		
	Link Layer Discovery Protocol (LLDP)		
	Leader AP		
	NAT		
QoS features	WMM power save		
	Priority mapping for upstream packets and flow-based mapping for downstream packets		
	Queue mapping and scheduling		
	User-based bandwidth limiting		
	Airtime scheduling		
	Intelligent multimedia scheduling		
	VIP FastPass		
Security features	Open system authentication		
	WPA2-PSK authentication and encryption (WPA2-Personal)		
	WPA3-SAE authentication and encryption (WPA3-Personal)		
WPA-WPA2 hybrid authentication			
	WPA2-WPA3 hybrid authentication		
	MAC address authentication, and Portal authentication		
	DHCP snooping		
	802.11w Protected Management Frames (PMF)		
	Secure boot		
EAP types	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-CHAP, EAP-SIM, EAP-AKA, EAP-GTC, EAP-FAST, EAP-PEAP, EAP-MD5, EAP-MSCHAPv2, PEAPv0, PEAPv1		
Maintenance features	STelnet using SSHv2		
	SFTP using SSHv2		
	Remote wireless O&M through the Bluetooth serial port		
	System status alarm		

Cloud-Managed AP mode

Item	Description		
WLAN features	Compliance with IEEE 802.11be and compatibility with IEEE 802.11a/b/g/n/ac/ax		
	Maximum ratio combining (MRC)		
	Space time block code (STBC)		
	Cyclic Delay Diversity (CDD)/Cyclic Shift Diversity (CSD)		
	Beamforming		
	Multi-user multiple-input multiple-output (MU-MIMO)		
	Orthogonal frequency division multiple access (OFDMA)		
	Preamble puncturing		
	BSS Color		
	TxBF		
	TWT		
	Compliance with 4096-quadrature amplitude modulation (QAM) and compatibility with 1024-QAM, 256-QAM, 64-QAM, 16-QAM, 8-QAM, quadrature phase shift keying (QPSK), and binary phase		

Item	Description	
	shift keying (BPSK)	
	Low-density parity-check (LDPC)	
	Frame aggregation, including A-MPDU (Tx/Rx) and A-MSDU (Tx/Rx)	
	802.11 dynamic frequency selection (DFS)	
	Short guard interval (GI) in 20 MHz, 40 MHz, 80 MHz, 160 MHz and 320 MHz modes	
	Wi-Fi multimedia (WMM) for priority-based data processing and forwarding	
	WLAN channel management and channel rate adjustment	
	NOTE	
	For detailed management channels, see the Country Codes & Channels Compliance.	
	Automatic channel scanning and interference avoidance	
	Service set identifier (SSID) hiding configuration for each AP, supporting Chinese SSIDs	
	Signal sustain technology (SST)	
	Unscheduled automatic power save delivery (U-APSD)	
	Automatic AP Online by NCE-Campus	
	Multi-user call admission control (CAC)	
	Advanced cellular coexistence (ACC), minimizing the impact of interference from cellular networks	
	802.11k and 802.11v smart roaming	
	802.11r fast roaming (≤ 50 ms)	
	Spectrum analysis	
	Terminal location	
	FTM (Fine Timing Measurement) location	
Network features	Compliance with IEEE 802.3ab	
	Auto-negotiation of the rate and duplex mode, and automatic switchover between Media Dependent Interface (MDI) and Media Dependent Interface Crossover (MDI-X)	
	Compatibility with IEEE 802.1Q	
	SSID-based VLAN assignment	
	DHCP client, obtaining IP addresses through DHCP	
	STA isolation in the same VLAN	
	IPv4/IPv6 access control list (ACL)	
	Link Layer Discovery Protocol (LLDP)	
	Service holdover when the link to NCE-Campus is disconnected	
	Unified authentication on the cloud management platform	
	Network address translation (NAT)	
	Telemetry, quickly collecting AP status and application experience parameters	
	MESH	
	Tunnel-AC	
	IPv6 SAVI	
	HotSpot2.0	
QoS features	WMM power save	
	Priority mapping for upstream packets and flow-based mapping for downstream packets	
	Queue mapping and scheduling	
	User-based bandwidth limiting	
	Adaptive bandwidth management (automatic bandwidth adjustment based on the user quantity and radio environment) to improve user experience	
	Application identification and QoS classification to improve voice quality for popular applications,	

Item	Description		
	such as Zoom, QQ, and WeChat		
	Airtime scheduling		
	Air interface HQoS scheduling		
	Intelligent multimedia scheduling		
	VIP bandwidth reservation		
	VIP FastPass, per-packet power control		
	Native-IP IFIT		
	iFlow		
	User-defined application		
Security features	Open system authentication		
	WPA2-PSK authentication and encryption (WPA2-Personal)		
	WPA2-802.1X authentication and encryption (WPA2-Enterprise)		
	WPA3-SAE authentication and encryption (WPA3-Personal)		
	WPA3-802.1X authentication and encryption (WPA3-Enterprise)		
	WPA-WPA2 hybrid authentication		
	WPA2-WPA3 hybrid authentication		
	WPA/WPA2/WPA2-PPSK authentication and encryption		
	WPA/WPA2/WPA2-DPSK authentication and encryption		
	802.1X authentication, MAC address authentication, and Portal authentication		
	Wireless intrusion detection system (WIDS) and wireless intrusion prevention system (WIPS), including rogue device detection and containment, attack detection and dynamic blacklist, and STA/AP blacklist and whitelist		
	DHCP snooping		
	802.11w Protected Management Frames (PMF)		
	CAPWAP DTLS data encryption and decryption		
	URL filtering		
	MACsec@ Uplink Ethernet port		
	Wi-Fi Shield		
	Secure boot		
	Build-in TPM module		
	Dot1x client		
EAP types	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-CHAP, EAP-SIM, EAP-AKA, EAP-GTC, EAP-FAST, EAP-PEAP, EAP-MD5, EAP-MSCHAPv2, PEAPv0, PEAPv1		
Maintenance features	Unified AP management and maintenance on the cloud management platform		
	Automatic AP onboarding, automatic configuration loading, and PnP		
	Batch upgrade		
	STelnet using SSHv2		
	SFTP using SSHv2		
	Remote wireless O&M through the Bluetooth serial port		
	Real-time user configuration monitoring and fast fault locating using the NMS		
	System status alarm		
	Network Time Protocol (NTP)		
Sensing	Wi-Fi CSI Sensing		

Technical Specifications

Item		Description	
Technical	Dimensions (H x W x D)	54 mm x 265 mm x 265 mm	
specifications	Weight	2.29 kg	
	Interface type	2 x 100M/1GE/2.5GE/5GE/10GE(RJ-45) 1 x USB NOTE 2 x 10GE(RJ-45) support PoE input.	
	Bluetooth	Bluetooth 6.0	
	IoT	 Built-in multi-protocol IoT interfaces, flexibly supporting BLE, ZigBee, HomeKit, and Thread* USB port extension external IoT (Supports protocols such as ZigBee, RFID) NOTE Features marked with asterisks (*) can be implemented through software upgrade. 	
	LED indicator	Indicates the power-on, startup, running, alarm, and fault states of the system.	
Power specifications	Power input	 43.2V~57.6V PoE power supply: In compliance with 802.3bt/at NOTE When 802.3at power is supplied, the AP will operate with restrictions, and the details refer to the Info-Finder. 	
	Maximum power consumption	42.1 W (excluding USB) NOTE The actual maximum power consumption depends on local laws and regulations.	
Environmental specifications	Operating temperature	-10°C to +50°C NOTE The value may vary depending on the installation environment.	
	Storage temperature	-40°C to +70°C	
	Operating humidity	5% to 95%	
	Altitude	-60 m to +5000 m	
	Atmospheric pressure	53 kPa to 106 kPa	
Radio specifications	Antenna type	Built-in smart antennas	
	Antenna gain	2.4 GHz: 4 dBi 5 GHz: 5 dBi 6 GHz: 5 dBi NOTE The gains above are the single-antenna peak gains.	
	Maximum number of SSIDs	16	

Item	Description
for each radio	
Maximum number of use	NOTE The actual number of users varies according to the application environment.
Maximum transmit power	2.4 GHz: 20 dBm/chain 5 GHz: 20 dBm/chain 6 GHz: 20 dBm/chain NOTE The actual transmit power depends on local laws and regulations.
Frequency bands	2.400 to 2.4835 GHz ISM 5.150 to 5.250 GHz U-NII-1 5.250 to 5.350 GHz U-NII-2A 5.470 to 5.725 GHz U-NII-2C 5.725 to 5.850 GHz U-NII-3/ISM 5.925 to 6.425 GHz U-NII-5 6.425 to 6.525 GHz U-NII-6 6.525 to 6.875 GHz U-NII-7 6.875 to 7.125 GHz U-NII-8 NOTE The available bands and channels are dependent on the configured regulatory domain (country).

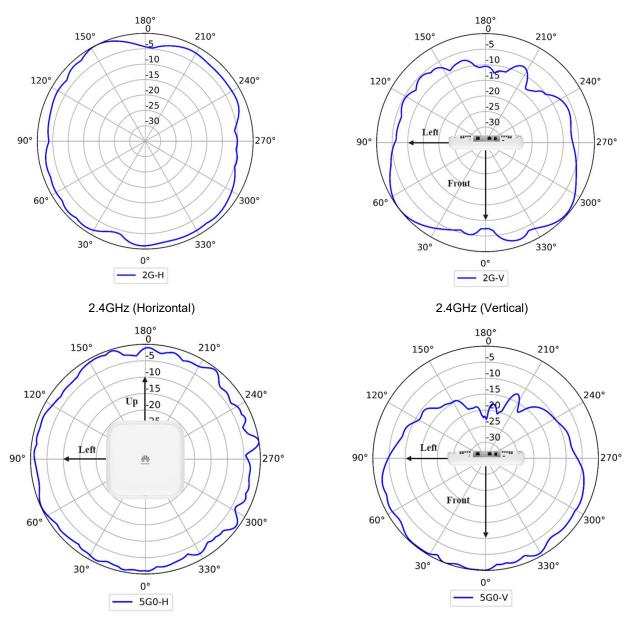
Standards Compliance

Item	Description		
Safety standards	• EN 62368-1	• IEC 62368-1	
Radio standards	ETSI EN 300 328ETSI EN 303 687	• ETSI EN 301 893	• AN/NZS 4268
EMC standards	 EN 301 489-1 EN 301 489-17 EN 60601-1-2 EN 55032 EN 55035 	 GB 9254 GB 17625.2 AS/NZS CISPR32 CISPR 32 CISPR 35 	 IEC/EN61000-4-2 IEC/EN 61000-4-3 IEC/EN 61000-4-4 IEC/EN 61000-4-5 IEC/EN 61000-4-6 ICES-003
IEEE standards	 IEEE 802.11a/b/g IEEE 802.11n IEEE 802.11ac IEEE 802.11ax IEEE 802.11be 	 IEEE 802.11h IEEE 802.11d IEEE 802.11e IEEE 802.11k 	IEEE 802.11vIEEE 802.11wIEEE 802.11r
Security standards	802.11i, Wi-Fi Protected Access (WPA), WPA2, WPA2-Enterprise, WPA2-PSK, WPA3, WAPI		

Item	Description	
	 802.1X Advanced Encryption Standards(AES), Temporal Key Integrity Protocol(TKIP), WEP, Open EAP Type(s) 	
EMF	• EN 62311	• EN 50385
RoHS	 Directive 2002/95/EC & 2011/65/EU (EU)2015/863 	
Reach	Regulation 1907/2006/EC	
WEEE	Directive 2002/96/EC & 2012/19/EU	

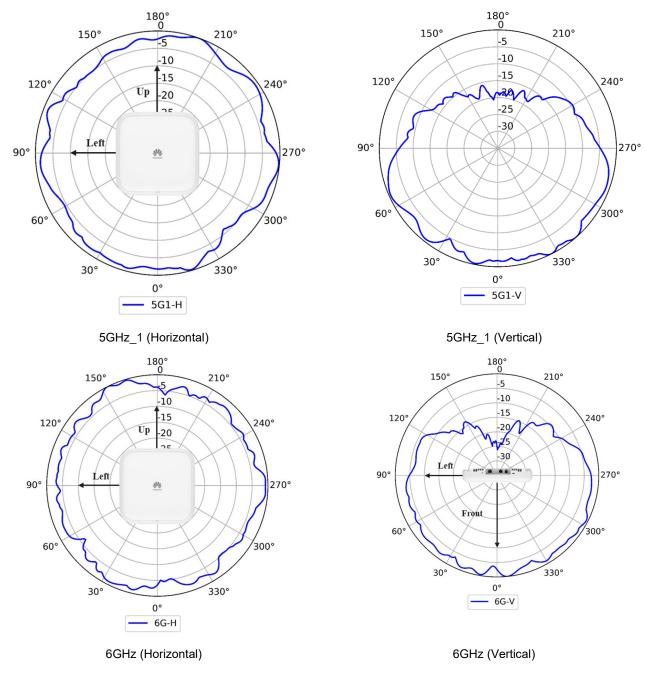
Antennas Pattern

• 2.4G 4x4 MIMO +5G 4x4 MIMO +5G 4x4 MIMO+ 6G 4x4 MIMO mode:

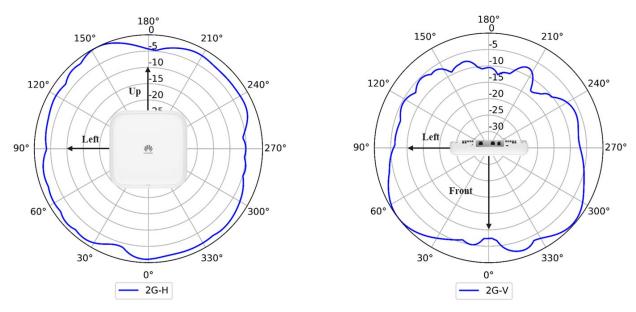


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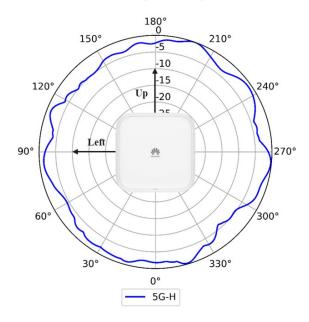
5GHz_0 (Vertical)



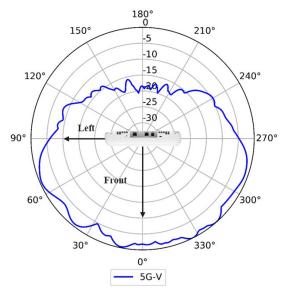
2.4G 4x4 MIMO +5G 4x4 MIMO +6G 4x4 MIMO+ 6G 4x4 MIMO mode:



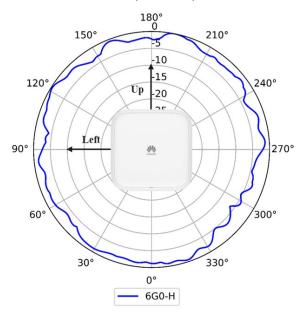




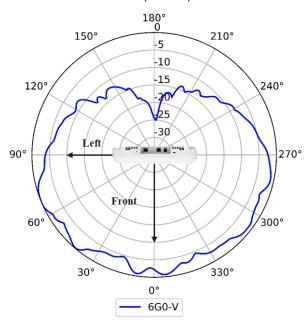
2.4GHz (Vertical)



5GHz (Horizontal)

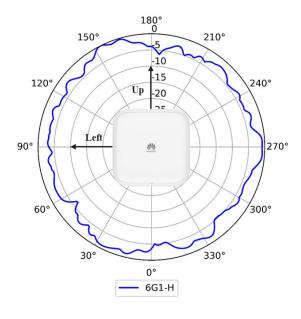


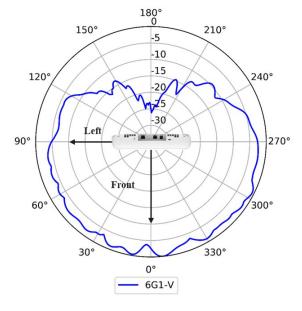
5GHz (Vertical)



6GHz_0 (Horizontal)

6GHz_0 (Vertical)

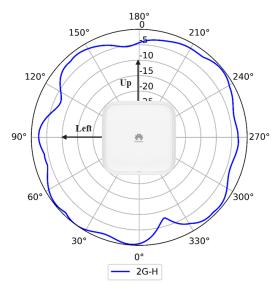


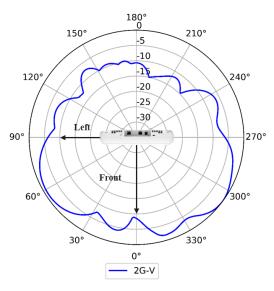


6GHz_1 (Horizontal)

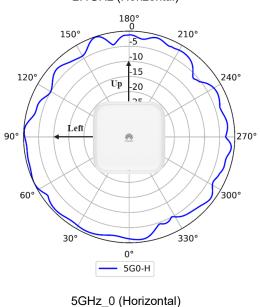
6GHz_1 (Vertical)

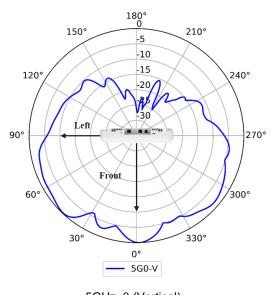
2.4G 2x2 MIMO +5G 4x4 MIMO +5G 2x2 MIMO+ 6G 4x4 MIMO+ 6G 4x4 MIMO



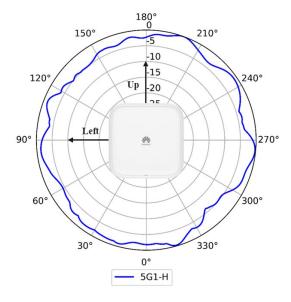


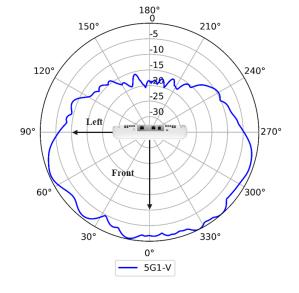


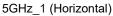


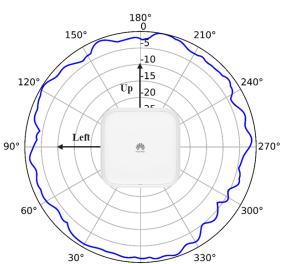


2.4GHz (Vertical)

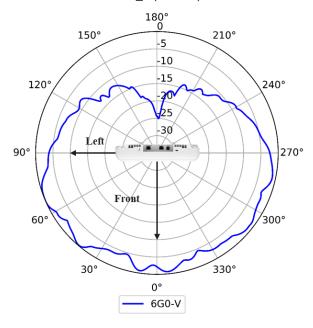






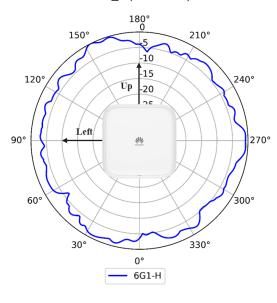


5GHz_1 (Vertical)

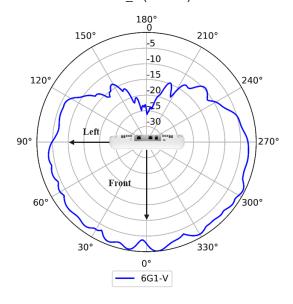


6GHz_0 (Horizontal)

0° - 6G0-H



6GHz_0 (Vertical)



6GHz_1 (Horizontal)

6GHz_1 (Vertical)

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