

Huawei AirEngine 5776I-X6H & AirEngine 5776I-X7H&AirEngine 5776I-X6EH Access Points Datasheet



Product Overview

Huawei AirEngine 5776I-X6H, AirEngine 5776I-X7H and AirEngine 5776I-X6EH are outdoor access points (APs) in compliance with Wi-Fi 7 (802.11be). They are empowered by brand-new Wi-Fi 7 technologies, significantly enhancing users' wireless network experience. These outdoor APs stand out with excellent outdoor coverage performance, IP68 waterproof and dustproof design, and strong urge protection capability. These strengths make Huawei's Wi-Fi 7 outdoor APs ideal for scenarios such as stadiums and amusement parks.



- The AirEngine 5776I-X6H has built-in directional antennas and works simultaneously on the 2.4 GHz (2x2 MIMO) and 5 GHz (4x4 MIMO) frequency bands, achieving rates of up to 0.69 Gbps and 5.76 Gbps respectively, and a maximum rate of 6.45 Gbps for the device.
- The AirEngine 5776I-X7H has built-in omnidirectional antennas and works simultaneously on the 2.4 GHz (2x2 MIMO) and 5 GHz (4x4 MIMO) frequency bands achieving rates of up to 0.69 Gbps and 5.76 Gbps respectively, and a maximum rate of 6.45 Gbps for the device.
- The AirEngine 5776I-X6EH uses external antennas and works simultaneously on the 2.4 GHz (2x2 MIMO) and 5 GHz (4x4 MIMO) frequency bands, or the 5 GHz (2x2 MIMO) and 5 GHz (4x4 MIMO) frequency bands, achieving a maximum rate of 7.20 Gbps for the device.

Mode	мімо	Peak Data Rate
Mode1	2.4GHz(2x2) + 5GHz(4x4)	6.45 Gbps
Mode2	5GHz(2x2) + 5GHz(4x4)	7.20 Gbps

- 6 KA surge protection for Ethernet ports, IP68 waterproof and dustproof design, and -40°C to + 70°C wide temperature, fully meeting industrial-grade requirements.
- 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.

The following feature description and specification is based on the version of V600R24C10.

Feature Descriptions

Wi-Fi 7 (802.11be) standard

Wi-Fi 7 (802.11be), 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 (RU), multi-link operation (MLO), enhanced multi-user multiple-input multiple-output (MU-MIMO), and multi-AP coordination. Drawing on these cutting-edge technologies, Wi-Fi 7 delivers a higher data transmission rate and lower latency than Wi-Fi 6.

Wi-Fi 7 vs. Wi-Fi 6

Based on the Wi-Fi 6 standard, Wi-Fi 7 introduces a plurality of new technologies. The following compares Wi-Fi 6 and Wi-Fi 7.

	Wi-Fi 6	Wi-Fi 7
IEEE standard	802.11ax	802.11be
Maximum transmission rate	9.6 Gbps	23 Gbps
Frequency band	2.4 GHz, 5 GHz, 6 GHz (Wi-Fi 6E)	2.4 GHz, 5 GHz, and 6 GHz
Security protocol	WPA3	WPA3
Channel bandwidth	20 MHz, 40 MHz, 80 MHz, 160 MHz, 80+80 MHz	Up to 320 MHz
Modulation mode	1024-QAM OFDMA	4096-QAM OFDMA

NOTE

The maximum transmission rate of the picture is the maximum rate of a single radio. It is 5 GHz radio for Wi-Fi 6, while it is 6 GHz radio for Wi-Fi 7.

New Features in Wi-Fi 7

Wi-Fi 7 aims to increase the WLAN throughput and provide low-latency access assurance. To achieve this goal, the standard defines modifications to both the physical layer (PHY) and MAC layer. Compared with Wi-Fi 6, Wi-Fi 7 brings the following technical innovations:

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.

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		
	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, and 160 MHz modes		
	Wi-Fi multimedia (WMM) for priority-based data processing and forwarding		
	WLAN channel management and channel rate adjustment		
	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)		
	Extended Service Set (ESS)		
	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		
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		

ltem	Description		
	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		
	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		
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		
	WAPI 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)		
	WAPI GCM-SM4 encryption algorithm		
	CAPWAP DTLS data encryption and decryption		

Item	Description			
	URL filtering			
	MACsec@ Uplink Ethernet port			
	Wi-Fi Shield			
	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	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			
	SFTP using SSHv2			
	Remote wireless O&M through the Bluetooth serial port			
	System status alarm			

Fat AP Mode

ltem	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
	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, and 160 MHz modes
	Wi-Fi multimedia (WMM) for priority-based data processing and forwarding
	WLAN channel management and channel rate adjustment
	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)

ltem	Description
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 STA isolation in the same VLAN IPv4 access control list (ACL) Link Layer Discovery Protocol (LLDP) Leader AP Unified authentication of leader Aps 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
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

ltem	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)

ltem	Description		
	Beamforming		
	Multi-user multiple-input multiple-output (MU-MIMO)		
	Orthogonal frequency division multiple access (OFDMA)		
	Preamble puncturing		
	BSS Color		
	TxBF		
	тwт		
	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, and 160 MHz modes		
	Wi-Fi multimedia (WMM) for priority-based data processing and forwarding		
	WLAN channel management and channel rate adjustment		
	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		
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 (Controller) 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		
	HotSpot2.0		
	IPv6 SAVI		

ltem	Description
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
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
	Wi-Fi Shield
	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	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)
1	

Technical Specifications

ltem		AirEngine 5776I-X6H	AirEngine 5776I-X7H	AirEngine 5776I-X6EH		
Technical specifications	Dimensions (H x W x D)	77 mm x 250 mm x 220 mm	92 mm x 250 mm x 220 mm	77 mm x 250 mm x 220 mm		
	Weight	2.76 kg	2.89 kg	2.97 kg		
	Interface type	1 x 1G/2.5G/10GE SFP+	I	1		
		1 x 100M/1GE/2.5GE electrical				
		1 x USB				
		 2.5GE electrical port supp 				
		 10G optical ports support optical-electrical separation solution by working with the waterproof connection kit for an AP hybrid cable to achieve data transmission on the optical port and power supply on the electrical (RJ45) port. 				
		 The third-party device connected to AP via the USB port must be insulated. the USB cable length must be less than 2 m. 				
			eet the specifications of Huawei Γ Card (USB) Hardware Specifi			
	Bluetooth	Bluetooth 5.2				
	юТ	 Built-in multi-protocol IoT interfaces, flexibly supporting BLE, ZigBee, HomeKit, and Thread* 				
		 USB port extension external IoT (Supports protocols such as ZigBee, RFID, and UWB) 				
		III NOTE				
		Features marked with asterisl	ks (*) can be implemented throu	igh software upgrade.		
	LED indicator	Indicates the power-on, startup, running, alarm, and fault states of the system.				
Power specifications	Power input	PoE power supply: In com	pliance with 802.3at/af			
		• DC: 43.2V~57.6V				
		When 802.3at/af power is supplied, the restriction details refer to the Info-Finder.				
	Maximum power	19.2 W (excluding USB)	17.4 W (excluding USB)	18.7 W (excluding USB)		
	consumption					
		The actual maximum power consumption depends on local laws and regulations.				
Environmental	Operating	-40°C to +70°C				
specifications	temperature					
		The value may vary depending on the installation environment.				
	Storage temperature	-40°C to +85°C				
	Operating humidity	0% to 100%				
	Dustproof and waterproof	IP68				

Item		AirEngine 5776I-X6H	AirEngine 5776I-X7H	AirEngine 5776I-X6EH
	grade			
	Altitude	-60 m to +5000 m		
	Atmospheric pressure	53 kPa to 106 kPa		
Radio specifications	Antenna type	Built-in directional antennas	Built-in omnidirectional antenna	External antenna
	Antenna gain	 2.4GHz: 10dBi 5GHz: 11dBi	 2.4GHz: 5dBi 5GHz: 5dBi 	
		NOTE The gains above are the single-antenna peak gains.		The gain varies with external antennas. For details, see the specifications of each antenna.
	Maximum number of SSIDs for each radio	16		
	Maximum number of users	1200 (600 per radio) Image: Note The actual number of users varies according to the environment.		
	Maximum transmit power	 2.4GHz: 28dBm 5GHz: 30dBm 	 2.4GHz: 28dBm 5GHz: 30dBm 	Mode1: • 2.4GHz: 28dBm • 5GHz: 30dBm Mode2: • 5GHz0: 27dBm • 5GHz1: 30dBm
		Above are the combined power powers. 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 I I NOTE		
		The available bands and channels are dependent on the configured regulatory domain (country).		

Standards Compliance

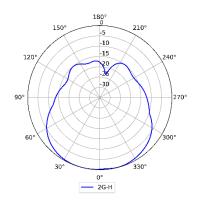
ltem	Description	
Safety standards	EN 62368-1IEC 62368-1	EN 60950-22IEC 60950-22

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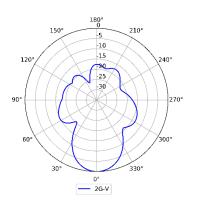
ltem	Description		
Radio standards	• ETSI EN 300 328	• ETSI EN 301 893	• AS/NZS 4268
EMC standards	 EN 301 489-1 EN 301 489-17 EN 60601-1-2 EN 55032 EN 55035 	 GB 17625.2 CISPR 32 CISPR 35 AS/NZS CISPR32 	 IEC/EN61000-4-2 IEC/EN 61000-4-3 IEC/EN 61000-4-4 IEC/EN 61000-4-5 IEC/EN61000-4-6 ICES-003
IEEE 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 802.11v IEEE 802.11w IEEE 802.11r
Security standards	 802.11i, Wi-Fi Protected Access (WPA), WPA2, WPA2-Enterprise, WPA2-PSK, WPA3, WAPI 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		

Antenna Patterns

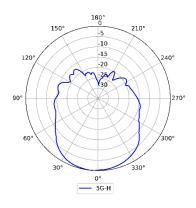
AirEngine 5776I-X6H



2.4GHz (Horizontal)

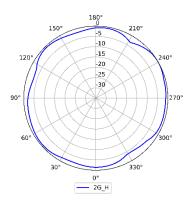


2.4GHz (Vertical)

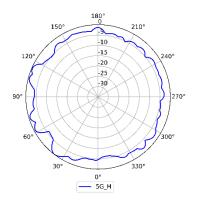


5GHz (Horizontal)

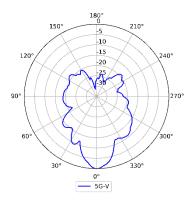
AirEngine 5776I-X7H



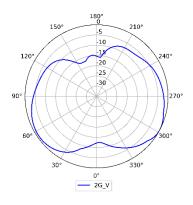
2.4GHz (Horizontal)



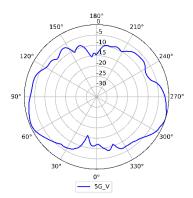
5GHz (Horizontal)



5GHz (Vertical)



2.4GHz (Vertical)





More Information

For more information about Huawei WLAN products, visit http://e.huawei.com or contact us in the following ways:

Global service hotline: http://e.huawei.com/en/service-hotline

Logging in to the Huawei Enterprise Technical Support Website: http://support.huawei.com/enterprise/ Sending an email to the customer service mailbox: support_e@huawei.com

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