



Huawei AirEngine 6776I- X6TH&AirEngine 6776I- X7TH&AirEngine 6776I- X6ETH Access Points Datasheet

Product Overview

Huawei AirEngine 6776I-X6TH, AirEngine 6776I-X7TH and AirEngine 6776I-X6ETH are outdoor access points (APs) in compliance with Wi-Fi 7 (802.11be). They can simultaneously provide services on 2.4 GHz, 5 GHz, and 6 GHz frequency bands, achieving a device rate of up to 13.66 Gbps. 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 surge protection capability. These strengths make Huawei's Wi-Fi 7 outdoor APs ideal for high-density scenarios such as stadiums and amusement parks.



AirEngine 6776I-X6TH



AirEngine 6776I-X7TH



AirEngine 6776I-X6ETH

- The AirEngine 6776I-X6TH has built-in directional antennas and works simultaneously on the 2.4 GHz (2x2 MIMO), 5 GHz (2x2 MIMO) frequency bands, and 6 GHz (4x4 MIMO) frequency bands, achieving a maximum rate of 13.66 Gbps for the device, and the 6 GHz radio can be flexibly switched to the 5 GHz radio as required.
- The AirEngine 6776I-X7TH has built-in omnidirectional antennas and works simultaneously on the 2.4 GHz (2x2 MIMO), 5 GHz (2x2 MIMO) frequency bands, and 6 GHz (4x4 MIMO) frequency bands, achieving a maximum rate of 13.66 Gbps for the device, and the 6 GHz radio can be flexibly switched to the 5 GHz radio as required.

AirEngine 6776I-X6TH/X7TH Work Mode	MIMO	Peak Data Rate
Mode1	2.4GHz(2x2) +5GHz-H(2x2) + 5GHz-L(4x4)	7.89 Gbps
Mode2	2.4GHz(2x2) +5GHz(2x2) +6GHz(4x4)	13.66 Gbps

- The AirEngine 6776I-X6ETH uses external antennas and works simultaneously on the 2.4 GHz (2x2 MIMO), 5 GHz (2x2 MIMO) frequency bands, and 6 GHz (4x4 MIMO) frequency bands, achieving a maximum rate of 13.66 Gbps for the device, and the 6 GHz radio can be flexibly switched to the 5 GHz radio as required.

AirEngine 6776I-X6ETH Work Mode	MIMO	Peak Data Rate
Mode1	2.4GHz(2x2) +5GHz(2x2) + 5GHz(4x4)	7.89 Gbps
Mode2	2.4GHz(2x2) +5GHz(2x2) +6GHz(4x4)	13.66 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.
- Support Bluetooth serial interface-based O&M through built-in Bluetooth and CloudCampus APP.
- Support 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

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 320 MHz bandwidth, 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:

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 Gbps 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.

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, 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) Extended Service Set (ESS)

Item	Description
	Automatic AP onboarding 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 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)

Item	Description
	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 URL filtering MACsec@ Uplink Ethernet port 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 Secure boot

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 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)

Item	Description
	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, 160MHz 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 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) 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 MAC address authentication and Portal authentication

Item	Description
	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 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 onboarding Automatic AP Online by NCE (Campus) Multi-user call admission control (CAC) Advanced cellular coexistence (ACC), minimizing the impact of interference from cellular networks

Item	Description
	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
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

Item	Description
	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 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)

Technical Specifications

Item		AirEngine 6776L-X6TH	AirEngine 6776L-X7TH	AirEngine 6776L-X6ETH
Technical specifications	Dimensions (H x W x D)	85 mm x 220 mm x 220 mm	100 mm x 220 mm x 220 mm	85 mm x 220 mm x 220 mm
	Weight	3.28 kg	3.59 kg	3.70 kg
	Interface type	1 x 1G/2.5G/10GE SFP+ 1 x 100M/1GE/2.5GE/5GE/10GE (RJ-45) 1 x 10M/100M/1GE electrical 1 x USB NOTE 10GE and GE electrical port supports PoE input. 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. - The USB module must meet the specifications of Huawei outdoor APs. For details, see Huawei WLAN AP IoT Card (USB) Hardware Specifications.		
	Bluetooth	Bluetooth 5.2		
	IoT	Built-in multi-protocol IoT interfaces, flexibly supporting BLE, ZigBee, HomeKit, and Thread*		

Item		AirEngine 6776I-X6TH	AirEngine 6776I-X7TH	AirEngine 6776I-X6ETH
		USB port extension external IoT (Supports protocols such as ZigBee, RFID, and UWB)  NOTE Features marked with asterisks (*) can be implemented through software upgrade.		
	GNSS	GPS, Beidou  NOTE It 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	PoE power supply: In compliance with 802.3bt/at		- PoE power supply: In compliance with 802.3bt/at - DC: 18V~60V
		 NOTE When 802.3at power is supplied, the AP will operate with restrictions, and the details refer to the Info-Finder.		
	Maximum power consumption	33.1 W (excluding USB)	33.5 W (excluding USB)	33.9 W (excluding USB)
		 NOTE The actual maximum power consumption depends on local laws and regulations.		
Environmental specifications	Operating temperature	-40°C to +70°C  NOTE The value may vary depending on the installation environment.		
	Storage temperature	-40°C to +85°C		
	Operating humidity	0% to 100%		
	Dustproof and waterproof grade	IP68		
	Altitude	-60 m to +5000 m		
	Atmospheric pressure	53 kPa to 106 kPa		
Radio specifications	Antenna type	Built-in directional antennas  NOTE Horizontal beamwidth: 70° for 2.4 GHz, 60° for 5 GHz and 55° for 6 GHz. Vertical beamwidth: 35° for 2.4 GHz, 20° for 5 GHz and 20° for 6 GHz.	Built-in omnidirectional antenna	External antenna
	Antenna gain	• 2.4GHz: 10dBi	• 2.4GHz: 5dBi	 NOTE

Item		AirEngine 6776I-X6TH	AirEngine 6776I-X7TH	AirEngine 6776I-X6ETH
		• 5GHz: 11dBi • 6/5GHz: 12/11dBi	• 5GHz: 5dBi • 6/5GHz: 5dBi	The gain varies with external antennas. For details, see the specifications of each antenna.
		 NOTE The gains above are the single-antenna peak gains.		
	Maximum number of SSIDs for each radio	16		
	Maximum number of users	1800 (600 per radio)  NOTE The actual number of users varies according to the environment.		
	Maximum transmit power	• 2.4GHz: 28dBm • 5GHz: 23dBm • 6/5GHz: 27dBm	• 2.4GHz: 28dBm • 5GHz: 24dBm • 6/5GHz: 27dBm	• 2.4GHz: 28dBm • 5GHz: 27dBm 6/5GHz: 29dBm
	 NOTE 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 • 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).			

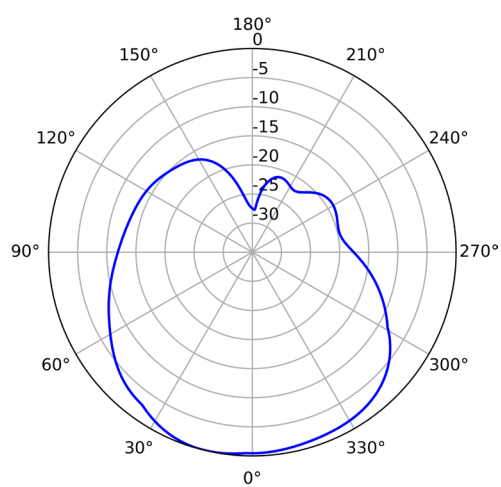
Standards Compliance

Item	Description		
Safety standards	- EN 62368-1 - IEC 62368-1	- EN 60950-22 - IEC 60950-22	
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	- GB 17625.2 - CISPR 32 - CISPR 35	- IEC/EN61000-4-2 - IEC/EN 61000-4-3 - IEC/EN 61000-4-4

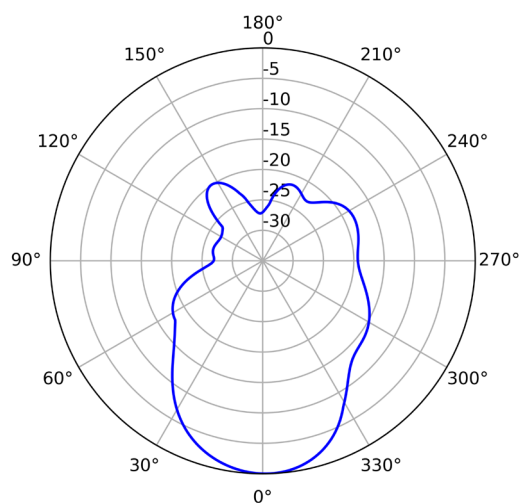
Item	Description		
	• EN 55032 • EN 55035	• ☐ AS/NZS CISPR32	• IEC/EN 61000-4-5 • IEC/EN61000-4-6 • ICES-003
IEEE standards	• IEEE 802.11a/b/g • IEEE 802.11n • IEEE 802.11ac • IEEE 802.11ax • IEEE 802.11be	• IEEE 802.11h • IEEE 802.11d • IEEE 802.11e • IEEE 802.11k	• IEEE 802.11v • IEEE 802.11w • IEEE 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		

Antennas Pattern

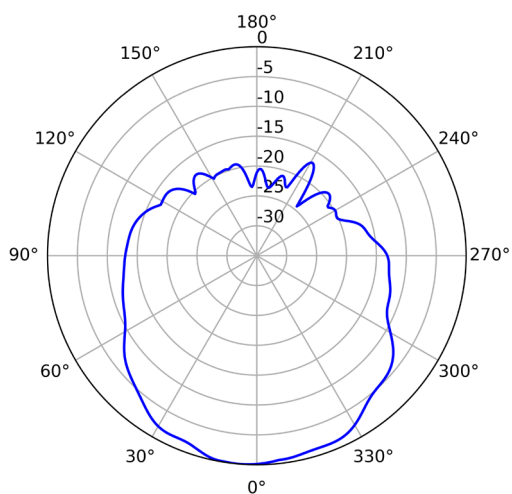
AirEngine 6776I-X6TH



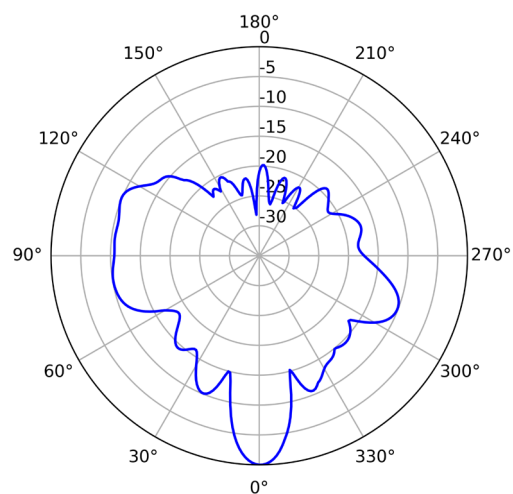
2.4GHz (Horizontal)



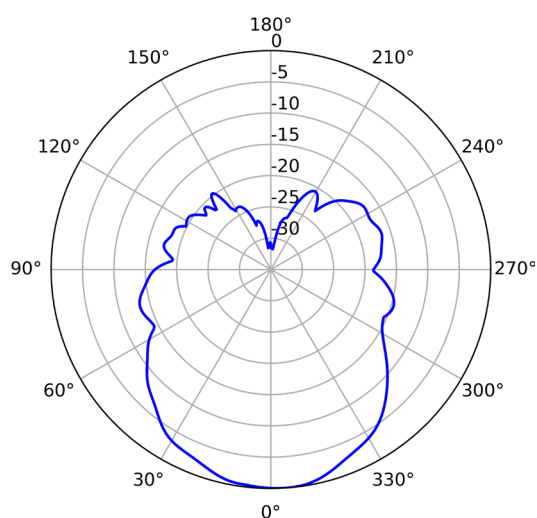
2.4GHz (Vertical)



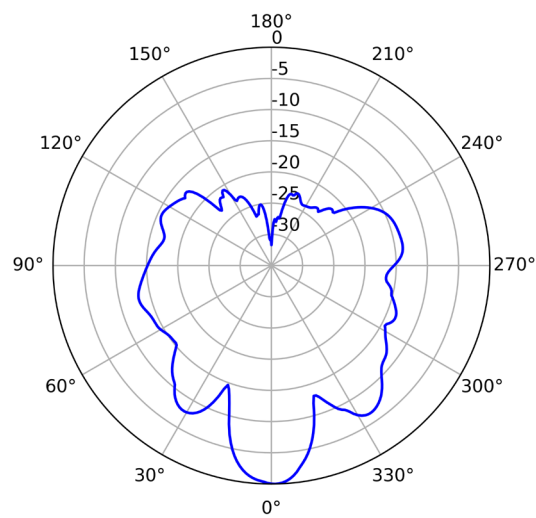
5GHz (Horizontal)



5GHz (Vertical)

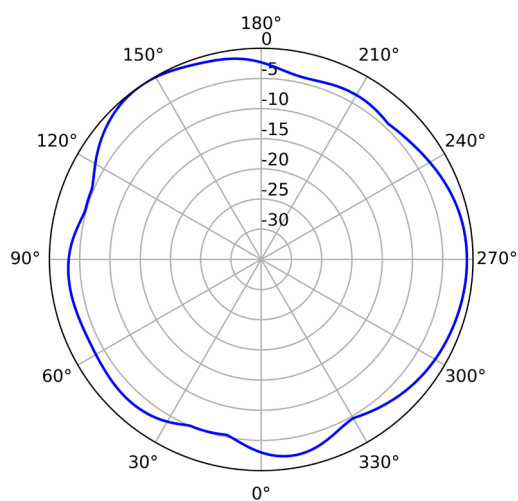


6GHz (Horizontal)

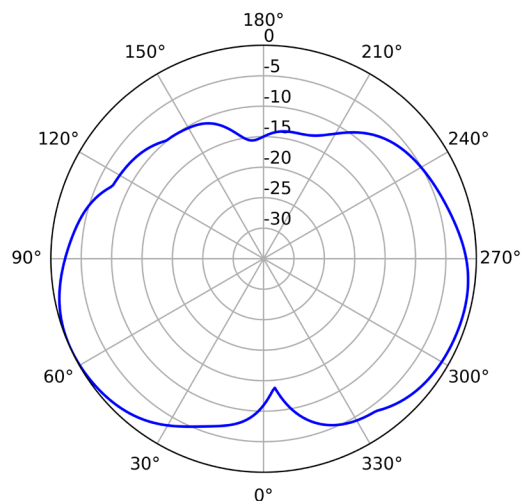


6GHz (Vertical)

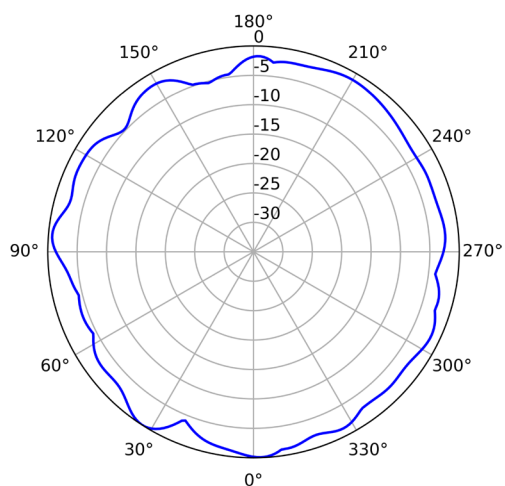
AirEngine 6776I-X7TH



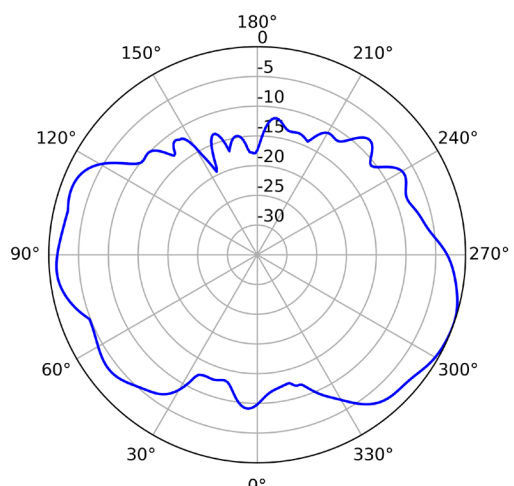
2.4GHz (Horizontal)



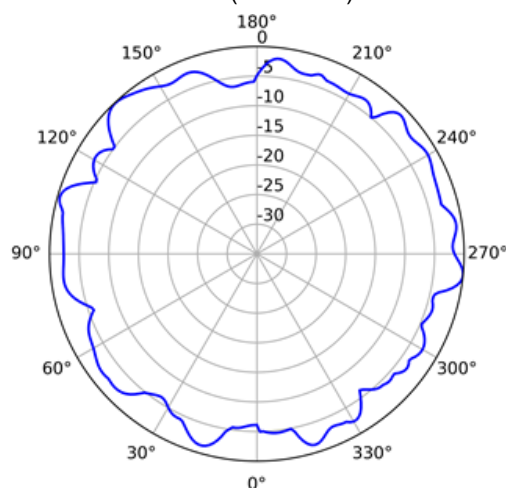
2.4GHz (Vertical)



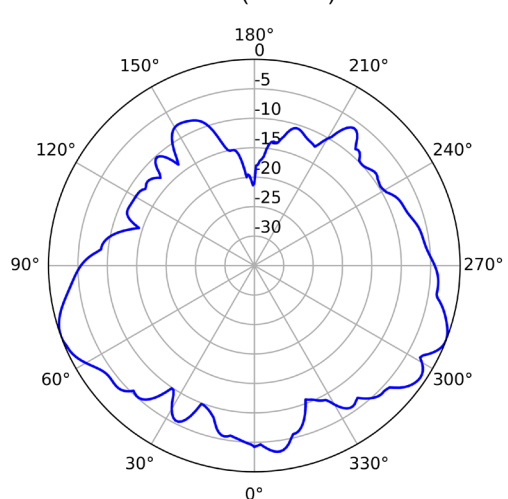
5GHz (Horizontal)



5GHz (Vertical)



6GHz (Horizontal)



6GHz (Vertical)

External Antenna Ordering Information

AP Model	Spart ID	Antenna Description
AirEngine 6776I-X6ETH	27015111	5925-7125Mhz-60deg-11dBi-N-female directional antenna
AirEngine 6776I-X6ETH	27015057	2400-2500Mhz/5150-5850Mhz/5925-7125Mhz-4dBi/6dBi/6dBi-omnidirectional stick antenna

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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Huawei Technologies Co., Ltd.

Address: Huawei Industrial Base Bantian, Longgang Shenzhen 518129 People's Republic of China

Website: www.huawei.com