

Huawei AirEngine 5773-23WP&AirEngine 5773-23W Access Points Datasheet

Product Overview

Huawei AirEngine 5773-23WP&AirEngine 5773-23W are wall plate access points (APs) in compliance with Wi-Fi 7 (802.11be). They can simultaneously provide services on 2.4 GHz (2x2 MIMO) and 5 GHz (2x2 MIMO) frequency bands. Designed with a total of 4 spatial streams, the APs deliver a data rate of up to 3.57 Gbps. The APs draw on Wi-Fi 7 innovations to redefine wireless user experience. These strengths make AirEngine 5773-23WP&AirEngine 5773-23W ideal for indoor coverage scenarios such as dormitories and hotels.





AirEngine 5773-23WP

AirEngine 5773-23W

- Provide services simultaneously on both the 2.4 GHz (2x2 MIMO) and 5 GHz (2x2 MIMO) frequency bands, at a data rate of up to 689 Mbps at 2.4 GHz and 2.88 Gbps at 5 GHz, 3.57 Gbps for the entire AP.
- 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.
- Support Bluetooth serial port-based O&M through built-in Bluetooth and CloudCampus APP.
- Support Fit AP, Fat AP and cloud-managed AP modes, easily managing the AP and its services on Huawei cloud management platform and reducing network O&M costs.

□ NOTE

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

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

Wi-Fi 7 aims to increase the WLAN throughput and provide low-latency access assurance. To achieve this goal, the Wi-Fi 7 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.

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 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)

Item	Description			
	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) Terminal location (Single-AP access location)			
Network features	Compliance with IEEE 802.3ab Auto-negotiation of the rate and duplex mode, and automatic switchover between Media Depen 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 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			
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			

Item	Description		
	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		
	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		
	Unified AP management on WebMaster		

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 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

Item	Description	
	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	
	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	
Socurity footures		
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)	
	URL filtering	
	Secure boot	
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	STelnet using SSHv2	
	SFTP using SSHv2	
	Remote wireless O&M through the Bluetooth serial port	
	System status alarm	
	<u> </u>	

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)	

Item	Description			
Item	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 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)			
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			

Item	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 quanti 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			
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			
	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 5773-23WP	AirEngine 5773-23W
Technical	Dimensions (H x W x D)	185 mm x 86 mm x 45 mm	175 mm x 86 mm x 45 mm

Item		AirEngine 5773-23WP	AirEngine 5773-23W
specifications	Weight	0.41 kg	
	Port type	1 x 100M/1000M/2.5GE (RJ-45) 5 x 10M/100M/1GE (RJ-45) 1 x USB port NOTE The 2.5GE (RJ-45) supports PoE input. Two GE (RJ-45) (GE3 and GE4) support PoE output(in compliance with 802.3af).	1 x 100M/1000M/2.5GE (RJ-45) 4 x 10M/100M/1GE (RJ-45) 2 x RJ45 Pass through 1 x USB port NOTE The 2.5GE(RJ-45) supports PoE input.
	Bluetooth	Bluetooth 5.2	Bluetooth 5.4
	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, and UWB) NOTE Features marked with asterisks (*) can be implemented through software upgrade. 	USB port extension external loT (Supports protocols such as ZigBee, RFID, and UWB)
LED indicator Indicates the power-on, startup, running, alarm, and fault star		alarm, and fault states of the system.	
Power specifications	Power input	 DC: 43.2 V to 57.6 V PoE power supply: in compliance with 802.3bt/at/af NOTE 802.3at/af power supply restrictions are detailed in the Info-Finder. 	 DC: 12V±10% PoE power supply: in compliance with 802.3at/af NOTE 802.3af power supply restrictions are detailed in the Info-Finder.
	Maximum power	15.9 W (excluding USB and PoE OUT)	13.2W (excluding USB)
	consumption	NOTE The actual maximum power consumption depends on local laws and regulations.	
Environmental specifications	Operating temperature	0°C to +40°C	
	Storage temperature	-40°C to +70°C	
	Operating humidity	5% to 95% (non-condensing)	
	Altitude	-60 m to +5000 m	
	Atmospheric pressure	53 kPa to 106 kPa	
Radio	Antenna type	Built-in smart antennas	
specifications	Antenna gain	2.4GHz: 5 dBi 5GHz: 6 dBi NOTE • The preceding gains are the peak	2.4GHz: 5 dBi 5GHz: 5 dBi NOTE • The preceding gains are the peak

Item		AirEngine 5773-23WP	AirEngine 5773-23W
		gains of a single antenna. When all WLAN 2.4 GHz or 5 GHz antennas are combined, the equivalent antenna gain is 2 dBi for 2.4 GHz radios or 3 dBi for 5 GHz radios.	gains of a single antenna. • When all WLAN 2.4 GHz or 5 GHz antennas are combined, the equivalent antenna gain is 3 dBi for 2.4 GHz radios or 3 dBi for 5 GHz radios.
	Maximum number of SSIDs for each radio	15	
	Maximum transmit power	2.4 GHz: 23 dBm (combined power) 5 GHz: 23 dBm (combined power) NOTE The actual transmit power depends on local laws and regulations.	
	Maximum transmit power	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	
		The available bands and channels are domain (country).	dependent on the configured regulatory

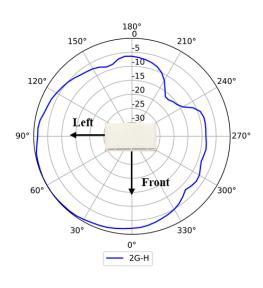
Standards Compliance

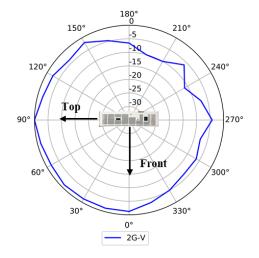
Item	Description		
Safety standards	• EN 62368-1	• IEC 62368-1	
Radio standards	• ETSI EN 300 328	• ETSI EN 301 893	• AN/NZS 4268
EMC standards	 EN 301 489-1 EN 301 489-17 EN 60601-1-2 EN 55032 EN 55035 	 GB 9254 GB 17625.2 AS/NZS CISPR32 CISPR 32 CISPR 35 	 IEC/EN61000-4-2 IEC/EN 61000-4-3 IEC/EN 61000-4-4 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 802.11v 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	

Item	Description
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

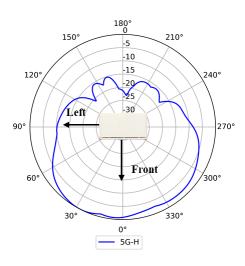
AirEngine 5773-23WP

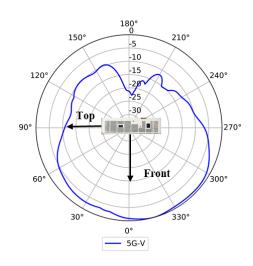




2.4GHz (Horizontal)

2.4GHz (Vertical)

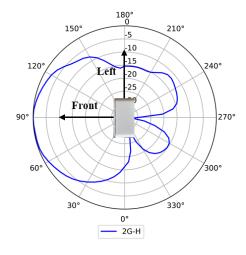


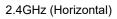


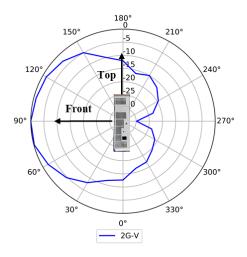
5GHz (Horizontal)

5GHz (Vertical)

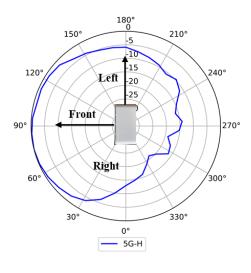
AirEngine 5773-23W



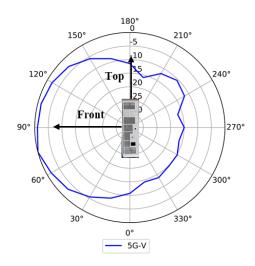




2.4GHz (Vertical)



5GHz (Horizontal)



5GHz (Vertical)

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