

Huawei AirEngine 5762-12 Access Point Datasheet

Product Overview

Huawei AirEngine 5762-12 is a Wi-Fi 6 (802.11ax) indoor access point (AP). It can simultaneously provide services on 2.4 GHz (2x2 MIMO) and 5 GHz (2x2 MIMO) frequency bands, achieving a device rate of up to 2.975 Gbps. This AP features high bandwidth and high concurrency with compact size, facilitating flexible deployment and saving customers' investment. These strengths make the AirEngine 5762-12 ideal for scenarios requiring high bandwidth and high-quality network experience, such as small and midsize enterprise offices, hospitals, cafes.



AirEngine 5762-12

- Dual-radio mode: 2.4 GHz (2x2 MIMO) + 5 GHz (2x2 MIMO), achieving rates of up to 575 Mbps and 2.4 Gbps, respectively, and 2.975 Gbps for the device.
- 1 x GE port.
- Built-in smart antennas to provide precise coverage for STAs, reduce interference, and improve signal quality.
- Supports Bluetooth serial interface-based O&M through built-in Bluetooth and CloudCampus APP.
- Supports the Fat, Fit, and cloud three working modes.

The device rate is the theoretical speed of Wi-Fi and may vary based on different environments or devices.

Feature Descriptions

Wi-Fi 6 (802.11ax) standard

- As the latest generation Wi-Fi standards of IEEE 802.11, 802.11ax improves user experience in high-density access scenarios and supports 2.4 GHz and 5 GHz frequency bands.
- MU-MIMO on both the 2.4 GHz and 5 GHz frequency bands, allowing an AP to transmit data to and receive data from multiple STAs simultaneously and multiplying the utilization of radio spectrum resources.
- 1024-QAM modulation, improving data transmission efficiency by 25% compared with 802.11ac (256-QAM).
- OFDMA scheduling enables multiple users to receive and send information at the same time, reducing latency and improving network efficiency.
- Spatial reuse (SR) technology uses basic service set (BSS) coloring to enable APs and STAs to distinguish BSSs, minimizing co-channel interference.
- The target wake time (TWT) allows APs and STAs to negotiate the sleep and wake time with each other, thereby improving the battery life of the STAs.

MU-MIMO

The AP supports MU-MIMO and supports a maximum of four spatial streams, two spatial streams at 2.4 GHz (2x2 MIMO) and two spatial streams at 5 GHz (2x2 MIMO). The MU-MIMO technology enables an AP to send data to multiple STAs simultaneously, which doubles the radio spectrum resource usage, increases the number of access users and bandwidth, and improves user experience in high-density access scenarios.

High-speed access

The AP supports 160 MHz frequency bandwidth, which increases the number of available data subcarriers and expands transmission channels. In addition, the AP uses 1024-QAM modulation and MU-MIMO to achieve a rate of up to 0.575 Gbps at 2.4 GHz radio, 2.4 Gbps at 5 GHz radio, and 2.975 Gbps for the device.

High Density Boost technology

Huawei uses the following technologies to address challenges in high-density scenarios, including access problems, data congestion, and poor roaming experience:

SmartRadio for air interface optimization

- Load balancing during smart roaming: The load balancing algorithm can work during smart roaming for load balancing detection among APs on the network after STA roaming to adjust the STA load on each AP, improving network stability.
- Intelligent DFA technology: The dynamic frequency assignment (DFA) algorithm is used to automatically detect adjacent-channel and co-channel interference, and identify any 2.4 GHz redundant radio. Through automatic inter-AP negotiation, the redundant radio is automatically switched to another mode (dual-5G AP models support 2.4G-to-5G switchover) or is disabled to reduce 2.4 GHz co-channel interference and increase the system capacity.
- Intelligent conflict optimization technology: The dynamic enhanced distributed channel access (EDCA) and airtime scheduling algorithms are used to schedule the channel occupation time and service priority of each user. This ensures that each user is assigned relatively equal time for using channel resources and user services are scheduled in an orderly manner, improving service processing efficiency and user experience.

Air interface performance optimization

• In high-density scenarios where many users access the network, increased number of low-rate STAs consumes more resources on the air interface, reduces the AP capacity, and lowers user experience. Therefore, Huawei APs will check the signal strength of STAs during access and rejects access from weak-signal STAs. At the same time, the APs monitor the rate of online STAs in real time and forcibly disconnect low-rate STAs so that the STAs can reassociate with APs that have stronger signals. The terminal access control technology can increase air interface use efficiency and allow access from more users.

5G-prior access (band steering)

• The APs support both 2.4 GHz and 5 GHz frequency bands. The 5G-prior access function enables an AP to steer STAs to the 5 GHz frequency band first, which reduces load and interference on the 2.4 GHz frequency band, improving the user experience.

Wired and wireless dual security guarantee

To ensure data security, Huawei APs integrate wired and wireless security measures and provide comprehensive security protection.

Authentication and encryption for wireless access

• The APs support WEP, WPA/WPA2-PSK, WPA3-SAE, WPA/WPA2-PPSK, WPA/WPA2/WPA3-802.1X, and WAPI authentication/encryption modes to ensure security of the wireless network. The authentication mechanism is used to authenticate user identities so that only authorized users can access network resources. The encryption mechanism is used to encrypt data transmitted over wireless links to ensure that the data can only be received and parsed by expected users.

Rogue device monitoring

• Huawei APs support WIDS/WIPS, and can monitor, identify, defend, counter, and perform refined management on the rogue devices, to provide security guarantees for air interface environment and wireless data transmission.

Wired access authentication and encryption for the AP

• The AP access control ensures validity of APs. The CAPWAP link protection and DTLS encryption provide security assurance, improving data transmission security between the AP and the WLAN AC.

Automatic radio calibration

Automatic radio calibration allows an AP to collect signal strength and channel parameters of surrounding APs and generate an AP topology according to the collected data. Based on the interference caused by authorized APs, rogue APs, and No Wi-Fi APs

and their loads, each AP automatically adjusts its transmit power and working channel to make the network operate at the optimal performance. In this way, network reliability and user experience are improved.

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.

Cloud-based Management

The AP can be managed via cloud, then no need to deploy a WLAN AC and an authentication server. In cloud-based management mode, abundant authentication functions, such as pre-shared key (PSK) authentication, Portal authentication, SMS authentication, and social media authentication, can be implemented. This mode significantly simplifies the networking and reduces the capital expenditure (CAPEX). In addition, multiple advanced functions, such as online cloud-based network planning, cloud-based deployment, cloud-based inspection, and cloud-based O&M, can be implemented through Huawei cloud management platform. In multi-branch deployment scenarios, cloud APs are pre-configured on the cloud management platform firstly. Then on site, you only need to power on the cloud APs and connect them to switch ports, then scan the QR code to implement AP plug-and-play. Pre-configurations are automatically delivered to devices, greatly shortening the network deployment time. The cloud management platform can monitor the network status, device status, and terminal connection status of all sites of a tenant in a comprehensive and intuitive manner to learn the network and service running status in real time.

Basic Specifications

Fat/Fit AP mode

Item	Description
WLAN features	Compliance with IEEE 802.11ax and compatibility with IEEE 802.11a/b/g/n/ac/ac Wave 2
	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
	Per-packet power control
	BSS Color
	TxBF
	Compliance with 1024-quadrature amplitude modulation (QAM) and compatibility with 256-QAM, 64-QAM, 16-QAM, 8-QAM, quadrature phase shift keying (QPSK), and binary phase shift keying (BPSK)
	Target wake time (TWT)
	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
	Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding
	Automatic and manual rate adjustment (the rate is adjusted automatically by default)
	WLAN channel management and channel rate adjustment
	NOTE
	For detailed management channels, see the Country Codes & Channel Compliances.

Item	Description
	Automatic channel scanning and interference avoidance Service set identifier (SSID) hiding Signal sustain technology (SST) Unscheduled automatic power save delivery (U-APSD) Control and Provisioning of Wireless Access Points (CAPWAP) in Fit AP mode Extended Service Set (ESS) in Fit AP mode Advanced cellular coexistence (ACC), minimizing the impact of interference from cellular networks Multi-user call admission control (CAC) 802.11k and 802.11v smart roaming 802.11r fast roaming (≤ 50 ms) Hotspot2.0
Network features	Compliance with IEEE 802.3ab Auto-negotiation of the rate and duplex mode and automatic switchover between the Media Dependent Interface (MDI) and Media Dependent Interface Crossover (MDI-X) Compliance with IEEE 802.1q SSID-based VLAN assignment VLAN trunk on uplink Ethernet ports Management channel of the AP uplink port in tagged and untagged mode DHCP client, obtaining IP addresses through DHCP Tunnel data forwarding and direct data forwarding STA isolation in the same VLAN IPv4/IPv6 access control lists (ACLs) Link Layer Discovery Protocol (LLDP) Uninterrupted service forwarding upon CAPWAP channel disconnection in Fit AP mode Unified authentication on the AC in Fit AP mode AC dual-link backup in Fit AP mode Network Address Translation (NAT) in Fat AP mode IPv6 in Fit AP mode Telemetry in Fit AP mode, quickly collecting AP status and application experience parameters IPv6 Source Address Validation Improvements (SAVI) Multicast Domain Name Service (mDNS) gateway protocol
QoS features	Priority mapping and scheduling that are compliant with WMM to implement priority-based data processing and forwarding WMM parameter management for each radio WMM power saving 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 Airtime scheduling Air interface HQoS scheduling
Security features	Open system authentication WEP authentication/encryption using a 64-bit, 128-bit, 152-bit or 192-bit encryption key

Item	Description		
	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		
	WPA2-PPSK authentication and encryption in Fit AP mode		
	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		
	Dynamic ARP Inspection (DAI)		
	IP Source Guard (IPSG)		
	802.11w Protected Management Frames (PMF)		
	DTLS encryption		
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 management and maintenance on the AC in Fit AP mode		
	Automatic login and configuration loading, and plug-and-play (PnP) in Fit AP mode		
	Batch upgrade in Fit AP mode		
	Telnet		
	STelnet using SSHv2		
	SFTP using SSHv2		
	Remote wireless O&M through the Bluetooth serial interface		
	Web-based local AP management through HTTP or HTTPS in Fat AP mode		
	Real-time configuration monitoring and fast fault locating using the NMS		
	SNMP v1/v2/v3 in Fat AP mode		
	System status alarm		
	Network Time Protocol (NTP) in Fat AP mode		

Cloud-based management mode

Item	Description	
WLAN features	Compliance with IEEE 802.11ax and compatibility with IEEE 802.11a/b/g/n/ac/ac Wave 2	
	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	
	Per-packet power control	
	BSS Color	

TxBF Compliance with 1024-quadrature amplitude modulation (QAM) and compatibility with 256-QAM, 64-QAM, 16-QAM, 8-QAM, quadrature phase shift keying (QPSK), and binary phase shift keying (BPSK) Target wake time (TWT) Low-density parity-check (LDPC) Frame aggregation, including A-MPDU (Tx/Rx) and A-MSDU (Tx/Rx) 802.11 dynamic frequency selection (DFS) Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding Automatic and manual rate adjustment (the rate is adjusted automatically by default) WLAN channel management and channel rate adjustment NOTE For detailed management channels, see the Country Codes & Channel Compliances. Automatic channel scanning and interference avoidance Service set identifier (SSID) hiding Signal sustain technology (SST) Unscheduled automatic power save delivery (U-APSD) Network features Compliance with IEEE 802.3ab Auto-negotiation of the rate and duplex mode and automatic switchover between the Media		Description		
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Signal sustain technology (SST) Unscheduled automatic power save delivery (U-APSD) Network features Compliance with IEEE 802.3ab Auto-negotiation of the rate and duplex mode and automatic switchover between the Media		Automatic channel scanning and interference avoidance		
Unscheduled automatic power save delivery (U-APSD) Network features Compliance with IEEE 802.3ab Auto-negotiation of the rate and duplex mode and automatic switchover between the Media		Service set identifier (SSID) hiding		
Network features Compliance with IEEE 802.3ab Auto-negotiation of the rate and duplex mode and automatic switchover between the Media		Signal sustain technology (SST)		
Auto-negotiation of the rate and duplex mode and automatic switchover between the Media		Unscheduled automatic power save delivery (U-APSD)		
	Network features	Compliance with IEEE 802.3ab		
Dependent Interface (MDI) and Media Dependent Interface Crossover (MDI-X)		Auto-negotiation of the rate and duplex mode and automatic switchover between the Media Dependent Interface (MDI) and Media Dependent Interface Crossover (MDI-X)		
Compliance with IEEE 802.1q		Compliance with IEEE 802.1q		
SSID-based VLAN assignment		SSID-based VLAN assignment		
DHCP client, obtaining IP addresses through DHCP		DHCP client, obtaining IP addresses through DHCP		
STA isolation in the same VLAN		STA isolation in the same VLAN		
Access control lists (ACLs)		Access control lists (ACLs)		
Unified authentication on the Cloud management platform		Unified authentication on the Cloud management platform		
Network Address Translation (NAT)		Network Address Translation (NAT)		
QoS features Priority mapping and scheduling that are compliant with WMM to implement priority-based data processing and forwarding	QoS features			
WMM parameter management for each radio		WMM parameter management for each radio		
WMM power saving		WMM power saving		
Priority mapping for upstream packets and flow-based mapping for downstream packets		Priority mapping for upstream packets and flow-based mapping for downstream packets		
Queue mapping and scheduling		Queue mapping and scheduling		
User-based bandwidth limiting		User-based bandwidth limiting		
Airtime scheduling		Airtime scheduling		
Air interface HQoS scheduling		Air interface HQoS scheduling		
Security features Open system authentication	Security features	Open system authentication		
WEP authentication/encryption using a 64-bit, 128-bit, 152-bit or 192-bit encryption key		WEP authentication/encryption using a 64-bit, 128-bit, 152-bit or 192-bit encryption key		
WPA2-PSK authentication and encryption (WPA2-Personal)		WPA2-PSK authentication and encryption (WPA2-Personal)		
WPA2-802.1X authentication and encryption (WPA2-Enterprise)		WPA2-802.1X authentication and encryption (WPA2-Enterprise)		
WPA3-SAE authentication and encryption (WPA3-Personal)		WPA3-SAE authentication and encryption (WPA3-Personal)		
WPA3-802.1X authentication and encryption (WPA3-Enterprise)		WPA3-802.1X authentication and encryption (WPA3-Enterprise)		
WPA-WPA2 hybrid authentication		WPA-WPA2 hybrid authentication		
WPA2-WPA3 hybrid authentication				

Item	Description	
	802.1X authentication, MAC address authentication, and Portal authentication	
	DHCP snooping	
	Dynamic ARP Inspection (DAI)	
	IP Source Guard (IPSG)	
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 management and maintenance on the Cloud management platform	
	Automatic login and configuration loading, and plug-and-play (PnP)	
	Batch upgrade	
	Telnet	
	STelnet using SSHv2	
	SFTP using SSHv2	
	Remote wireless O&M through the Bluetooth console port	
	Web-based local AP management through HTTP or HTTPS	
	Real-time configuration monitoring and fast fault locating using the NMS	
	System status alarm	
	Network Time Protocol (NTP)	

Technical Specifications

Item		Description	
Technical specifications	Dimensions (Diameter x Height)	Ф180 mm x 35 mm	
	Weight	0.515 kg	
	Interface type	1 x 10M/100M/1GE (RJ45) NOTE • GE supports PoE input.	
	Bluetooth	BLE 5.2	
	LED indicator	Indicates the power-on, startup, running, alarm, and fault states of the system.	
Power specifications	Power input	 DC: 12 V ± 10% PoE power supply: in compliance with 802.3af 	
	Maximum power consumption	11 W NOTE The actual maximum power consumption depends on local laws and regulations.	
Environmental	Operating temperature	-10°C to +50°C	
specifications	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	

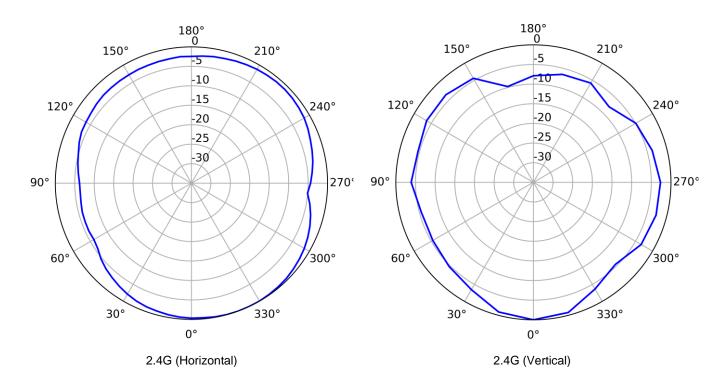
Item		Description
Radio specifications	Antenna type	Built-in smart antennas
	Antenna gain	 2.4 GHz: 4 dBi 5 GHz: 5 dBi NOTE The gains above are the single-antenna peak gains. The equivalent antenna gain after all 2.4 GHz or 5 GHz antennas are combined is 2 dBi in 2.4 GHz or 3 dBi in 5 GHz.
	Maximum number of SSIDs for each radio	≤ 16
	Maximum number of users	≤ 256 NOTE The actual number of users varies according to the environment.
Maximum transmit power 2.4 GHz: 23 dBm (combined power) 5 GHz: 23 dBm (combined power) NOTE The actual transmit power depend regulations.		5 GHz: 23 dBm (combined power) NOTE The actual transmit power depends on local laws and
	Power increment 1 dBm	
	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 NOTE The available bands and channels are dependent on the configured regulatory domain (country).

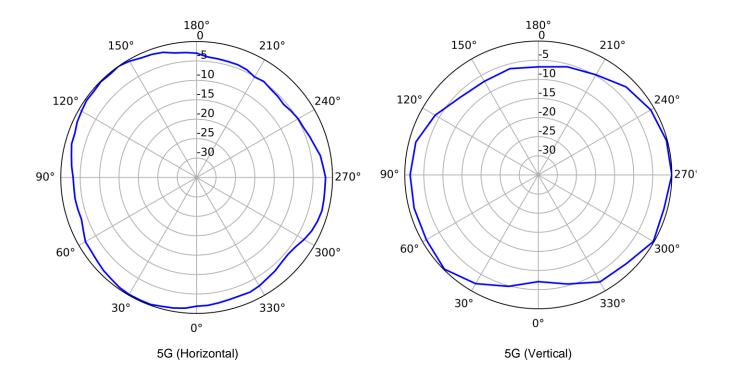
Standards Compliance

Item	Description		
Safety standards	UL 60950-1EN 60950-1IEC 60950-1	UL 62368-1EN 62368-1IEC 62368-1	GB 4943.1CAN/CSA 22.2 No.60950-1
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 55024 EN 55032 EN 55035 	 GB 9254 GB 17625.1 GB 17625.2 AS/NZS CISPR32 CISPR 24 CISPR 32 	 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

Item	Description		
		CISPR 35	
IEEE standards	 IEEE 802.11a/b/g IEEE 802.11n IEEE 802.11ac IEEE 802.11ax 	 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 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





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 web: http://support.huawei.com/enterprise/
- Sending an email to the customer service mailbox: support_e@huawei.com

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