

Huawei AirEngine 5761R-11 & AirEngine 5761R-11E Access Points Datasheet

Product Overview

AirEngine 5761R-11 and AirEngine 5761R-11E are Huawei's Wi-Fi 6 (802.11ax) outdoor access points (APs). AirEngine 5761R-11 provides services on 2.4 GHz (2x2 MIMO) and 5 GHz (2x2 MIMO) frequency bands, achieving a device rate of up to 1.775Gbit/s, AirEngine 5761R-11E provides services on 2.4 GHz (2x2 MIMO) and 5 GHz (2x2 MIMO) frequency bands or 5 GHz (2x2 MIMO) +5 GHz (2x2 MIMO) frequency bands, achieving a maximum rate of 2.4 Gbit/s. These outdoor APs stand out with excellent outdoor coverage performance, IP68 waterproof and dustproof design, and strong urge protection capability. AirEngine 5761R-11 and AirEngine 5761R-11E provide uplink optical and electrical ports, allowing customers to select different deployment modes and saving customers' investment. These strengths make Huawei's Wi-Fi 6 outdoor APs ideal for high-density scenarios such as stadiums, squares, pedestrian streets, and amusement parks.



- AirEngine 5761R-11
- AirEngine 5761R-11E
- The AirEngine 5761R-11 has built-in directional antennas and works simultaneously on the 2.4 GHz (2x2 MIMO) and 5 GHz (2x2 MIMO) frequency bands, achieving rates of up to 0.575 Gbit/s and 1.2 Gbit/s, respectively, and a maximum rate of 1.775 Gbit/s for the device.
- The AirEngine 5761R-11E uses external antennas and supports the following radio modes:
 - 2.4G+5G mode: 2.4 GHz (2x2 MIMO) and 5 GHz (2x2 MIMO), achieving rates of up to 0.575 Gbit/s and 1.2 Gbit/s, respectively, and a maximum rate of 1.775 Gbit/s for the device.
 - Dual-5G mode: 5 GHz (2x2 MIMO) and 5 GHz (2x2 MIMO), each with a rate of up to 1.2 Gbit/s at 5 GHz, providing a maximum rate of 2.4 Gbit/s for the device.
- 1 x GE electrical, 1 x GE SFP.
- 6 KA surge protection for Ethernet ports, IP68 waterproof and dustproof design, and -40° C to + 65° C wide temperature, fully meeting industrial-grade requirements.
- The external antenna port of AirEngine 5761R-11E supports 5 KA surge protection, no need to install an external surge protector, simplifying installation, and minimizing the overall cost.
- Supports Bluetooth serial interface-based O&M through built-in Bluetooth and CloudCampus APP, and precise locating of Bluetooth terminals by collaborating with location server.
- Supports the Fat, Fit, and cloud three working modes.

□ NOTE

GE electrical port can also support 10M/100M/1000M rates.

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.

- UL/DL 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.
- 1024QAM modulation, improving data transmission efficiency by 25% compared with 802.11ac (256QAM).
- UL/DL 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.

NOTE

The function and features marked with * can be implemented through software upgrade. The following describes are the same.

UL/DL MU-MIMO

UL/DL 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

• New Wi-Fi 6 technologies such as 1024QAM modulation, more subcarriers, and more efficient Symbol scheduling enable the 2.4 GHz radio rate to reach 0.575 Gbit/s (2 spatial streams), the 5 GHz radio rate to reach 1.2 Gbit/s (2 spatial streams), and the device rate to reach 1.775 Gbit/s (2 spatial streams@2.4GHz+ 2 spatial streams@5GHz) or 2.4 Gbit/s (2 spatial streams@5GHz+ 2 spatial streams@5GHz).

High-level protection

- They use a use a metal shell, waterproof connectors, and an overall heat dissipation design, 6KA surge protection for Ethernet ports, IP68 waterproof and dustproof design, and -40° C to +65° C wide temperature, fully meeting industrial-grade requirements.
- The AirEngine 5761R-11E has built-in 5KA feeder surge protectors and require no external surge protective devices, which simplifies installation and lowers costs.

□ NOTE

The AirEngine 5761R-11 has built-in antennas and does not involve surge protection.

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.

5GHz-prior access (band steering)

• The APs support both 2.4G and 5G frequency bands. The 5GHz-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.

Analysis on no Wi-Fi interference sources

• Huawei APs can analyze the spectrum of no Wi-Fi interference sources and identify them, including baby monitors, Bluetooth devices, digital cordless phones (at 2.4 GHz frequency band only), wireless audio transmitters (at both the 2.4 GHz and 5 GHz frequency bands), wireless game controllers, and microwave ovens. Coupled with Huawei NCE-Campus, the precise locations of the interference sources can be detected, and the spectrum of them displayed, enabling the administrator to remove the interference in a timely manner.

Rogue device monitoring

• Huawei APs support WIDS/WIPS, and can monitor, identify, defend, counter, and perform refined management on the roque 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/IPsec 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 AP topology according to the collected data. Based on interference from authorized APs, rogue APs, and no Wi-Fi interference sources, 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.

Automatic application identification

Huawei APs support smart application control technology and can implement visualized control on Layer 4 to Layer 7 applications.

Traffic identification

• Coupled with Huawei WLAN ACs, the APs can identify over 6000 common applications in various office scenarios. Based on the identification results, policy control can be implemented on user services, including priority adjustment, scheduling, blocking, and rate limiting to ensure efficient bandwidth resource use and improve quality of key services.

Traffic statistics collection

• Traffic statistics of each application can be collected globally, by SSID, or by user, enabling the network administrator to know application use status on the network. The network administrator or operator can implement visualized control on service applications on smart terminals to enhance security and ensure effective bandwidth control.

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, eliminating the need to deploy a WLAN AC. 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 with no authentication server. 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. During onsite network deployment, you only need to power on the cloud APs, connect them to the network ports of switches, and implement plug-and-play (PnP) of the APs by scanning the QR codes. The pre-configurations then are automatically delivered to the APs, significantly shortening the network deployment time. The cloud management platform can monitor the network status, device status, and STA connection status of all sites in a comprehensive and intuitive manner.

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
	Providing 4 spatial streams
	Maximum ratio combining (MRC)
	Space time block code (STBC)
	Cyclic Delay Diversity (CDD)/Cyclic Shift Diversity (CSD)
	Beamforming
	DL/UL MU-MIMO
	DL/UL OFDMA
	Compliance with 1024-QAM and compatibility with 256-QAM/64-QAM/16-QAM/8-QAM/QPSK/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 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 Code & Channel Compliance Table.
	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
	Multi-user 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)

Item	Description	
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	
	Application identification and QoS classification when AP local forwarding (also called direct forwarding), which can significantly improve voice quality for applications such as Skype, QQ, and WeChat	
	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	
	Mesh in Fit AP mode	
	Soft Generic Routing Encapsulation (GRE)	
	IPv6 Source Address Validation Improvements (SAVI)	
	Multicast Domain Name Service (mDNS) gateway protocol	
QoS features	Priority mapping and scheduling that are compliant with Wi-Fi multimedia (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	
	WPA2-PSK authentication and encryption (WPA2 personal edition)	
	WPA2-802.1X authentication and encryption (WPA2 enterprise edition)	
	WPA3-SAE authentication and encryption (WPA3 personal edition)	
	WPA3-802.1X authentication and encryption (WPA3 enterprise edition)	
	WPA-WPA2 hybrid authentication	
	WPA2-WPA3 hybrid authentication	
	WPA2-PPSK authentication and encryption in Fit AP mode	
	WAPI authentication and encryption*	

Item	Description
	Wireless intrusion detection system (WIDS) and wireless intrusion prevention system (WIPS), including rogue device detection and countermeasure, 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 (PMFs)
	IPsec/DTLS hardware encryption
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 SSH v2
	SFTP using SSH v2
	Remote wireless O&M through the Bluetooth console port
	Web local AP management through HTTP or HTTPS in Fat AP mode
	Real-time configuration monitoring and fast fault location using the NMS
	SNMP v1/v2/v3 in Fat AP mode
	System status alarm
	Network Time Protocol (NTP) in Fat AP mode
BYOD	NOTE
	The AP supports bring your own device (BYOD) only in Fit AP mode.
	Identifies the device type according to the organizationally unique identifier (OUI) in the MAC address
	Identifies the device type according to the user agent (UA) information in an HTTP packet
	Identifies the device type according to DHCP options
	The RADIUS server delivers packet forwarding, security, and QoS policies according to the device type carried in the RADIUS authentication and accounting packets
Location service	NOTE The AP supports the locating service only in Fit AP mode.
	Locates Wi-Fi terminals
	Working with the location server to locate rogue devices
	Supports Bluetooth positioning
Spectrum analysis	NOTE
·	The AP supports spectrum analysis only in Fit AP mode.
	Identification of more than eight interference sources including Bluetooth devices, microwave ovens, cordless phones, ZigBee devices, game controllers, 2.4 GHz/5 GHz wireless video and audio devices, and baby monitors
	Working with the location server to locate interference sources and perform spectrum analysis on them

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

Providing 4 spatial streams Maximum ratio combining (MRC) Space time block code (STBC) Cyclic Delay Diversity (CDD)/Cyclic Shift Diversity (CSD) Beamforming DL/UL MU-MIMO DL/UL OFDMA Compliance with 1024-QAM and compatibility with 256-QAM/64-QAM/16-QAM/8-QAM/QPSK/BPSK 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 Code & Channel Compliance Table. Automatic channel scanning and interference avoidance Service set identifier (SSID) hiding Signal sustain technology (SST) Unscheduled automatic power save delivery (U-APSD) Network features 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 DHCP client, obtaining IP addresses through DHCP STA isolation in the same VLAN Access control lists (ACLs) Unified authentication on the Cloud management platform Network Address Translation (NAT) Mesh QoS features Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding WMM parameter management for each radio WMM parameter management for each radio	Item	Description
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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 Code & Channel Compliance Table. 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 Dependent Interface (MDI) and Media Dependent Interface Crossover (MDI-X) Compliance with IEEE 802.1q SSID-based VLAN assignment DHCP client, obtaining IP addresses through DHCP STA isolation in the same VLAN Access control lists (ACLs) Unified authentication on the Cloud management platform Network Address Translation (NAT) Mesh Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding WMM parameter management for each radio		802.11 dynamic frequency selection (DFS)
NOTE For detailed management channels, see the Country Code & Channel Compliance Table. 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 Dependent Interface (MDI) and Media Dependent Interface Crossover (MDI-X) Compliance with IEEE 802.1q SSID-based VLAN assignment DHCP client, obtaining IP addresses through DHCP STA isolation in the same VLAN Access control lists (ACLs) Unified authentication on the Cloud management platform Network Address Translation (NAT) Mesh QoS features Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding WMM parameter management for each radio		priority-based data processing and forwarding. Automatic and manual rate adjustment (the rate is
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 Dependent Interface (MDI) and Media Dependent Interface Crossover (MDI-X) Compliance with IEEE 802.1q SSID-based VLAN assignment DHCP client, obtaining IP addresses through DHCP STA isolation in the same VLAN Access control lists (ACLs) Unified authentication on the Cloud management platform Network Address Translation (NAT) Mesh QoS features Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding WMM parameter management for each radio		•
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 Dependent Interface (MDI) and Media Dependent Interface Crossover (MDI-X) Compliance with IEEE 802.1q SSID-based VLAN assignment DHCP client, obtaining IP addresses through DHCP STA isolation in the same VLAN Access control lists (ACLs) Unified authentication on the Cloud management platform Network Address Translation (NAT) Mesh QoS features Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding WMM parameter management for each radio		For detailed management channels, see the Country Code & Channel Compliance Table.
Signal sustain technology (SST) Unscheduled automatic power save delivery (U-APSD) 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 DHCP client, obtaining IP addresses through DHCP STA isolation in the same VLAN Access control lists (ACLs) Unified authentication on the Cloud management platform Network Address Translation (NAT) Mesh QoS features Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding WMM parameter management for each radio		Automatic channel scanning and interference avoidance
Unscheduled automatic power save delivery (U-APSD) 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 DHCP client, obtaining IP addresses through DHCP STA isolation in the same VLAN Access control lists (ACLs) Unified authentication on the Cloud management platform Network Address Translation (NAT) Mesh QoS features Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding WMM parameter management for each radio		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 Dependent Interface (MDI) and Media Dependent Interface Crossover (MDI-X) Compliance with IEEE 802.1q SSID-based VLAN assignment DHCP client, obtaining IP addresses through DHCP STA isolation in the same VLAN Access control lists (ACLs) Unified authentication on the Cloud management platform Network Address Translation (NAT) Mesh QoS features Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding WMM parameter management for each radio		Signal sustain technology (SST)
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 DHCP client, obtaining IP addresses through DHCP STA isolation in the same VLAN Access control lists (ACLs) Unified authentication on the Cloud management platform Network Address Translation (NAT) Mesh QoS features Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding WMM parameter management for each radio		Unscheduled automatic power save delivery (U-APSD)
Dependent Interface (MDI) and Media Dependent Interface Crossover (MDI-X) Compliance with IEEE 802.1q SSID-based VLAN assignment DHCP client, obtaining IP addresses through DHCP STA isolation in the same VLAN Access control lists (ACLs) Unified authentication on the Cloud management platform Network Address Translation (NAT) Mesh QoS features Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding WMM parameter management for each radio	Network features	Compliance with IEEE 802.3ab
SSID-based VLAN assignment DHCP client, obtaining IP addresses through DHCP STA isolation in the same VLAN Access control lists (ACLs) Unified authentication on the Cloud management platform Network Address Translation (NAT) Mesh QoS features Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding WMM parameter management for each radio		
DHCP client, obtaining IP addresses through DHCP STA isolation in the same VLAN Access control lists (ACLs) Unified authentication on the Cloud management platform Network Address Translation (NAT) Mesh Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding WMM parameter management for each radio		Compliance with IEEE 802.1q
STA isolation in the same VLAN Access control lists (ACLs) Unified authentication on the Cloud management platform Network Address Translation (NAT) Mesh QoS features Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding WMM parameter management for each radio		SSID-based VLAN assignment
Access control lists (ACLs) Unified authentication on the Cloud management platform Network Address Translation (NAT) Mesh Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding WMM parameter management for each radio		DHCP client, obtaining IP addresses through DHCP
Unified authentication on the Cloud management platform Network Address Translation (NAT) Mesh Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding WMM parameter management for each radio		STA isolation in the same VLAN
Network Address Translation (NAT) Mesh QoS features Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding WMM parameter management for each radio		Access control lists (ACLs)
Mesh QoS features Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding WMM parameter management for each radio		Unified authentication on the Cloud management platform
QoS features Priority mapping and scheduling that are compliant with Wi-Fi multimedia (WMM) to implement priority-based data processing and forwarding WMM parameter management for each radio		Network Address Translation (NAT)
priority-based data processing and forwarding WMM parameter management for each radio		Mesh
	QoS features	
WMM nower saving		WMM parameter management for each radio
Willing 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 edition)		WPA2-PSK authentication and encryption (WPA2 personal edition)

Item	Description
	WPA2-802.1X authentication and encryption (WPA2 enterprise edition)
	WPA3-SAE authentication and encryption (WPA3 personal edition)
	WPA3-802.1X authentication and encryption (WPA3 enterprise edition)
	WPA-WPA2 hybrid authentication
	WPA2-WPA3 hybrid authentication
	802.1x authentication, MAC address authentication, and Portal authentication
	DHCP snooping
	Dynamic ARP Inspection (DAI)
	IP Source Guard (IPSG)
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 SSH v2
	SFTP using SSH v2
	Remote wireless O&M through the Bluetooth console port
	Web local AP management through HTTP or HTTPS
	Real-time configuration monitoring and fast fault location using the NMS
	System status alarm
	Network Time Protocol (NTP)

Technical Specifications

Item		Description
Technical	Dimensions (H x W x D)	69 x 200x 200 mm
specifications	Weight	AirEngine 5761R-11: 1.91 kg
		AirEngine 5761R-11E: 2.04 kg
	Interface type	1 x10/100M/1GE + 1 x GE SFP
		NOTE
		GE electrical port can support 10M/100M/1000M rates and PoE input
	Bluetooth	Build in BLE5.0
	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 802.3at/af.
		NOTE
		When 802.3af power is supplied, the AP will operate with restrictions, the details refer to the Specification Query Tool.
	Maximum power	AirEngine 5761R-11: 17.7W
	consumption	AirEngine 5761R-11E: 19.6W
		NOTE
		The actual maximum power consumption depends on local laws and regulations.

Item		Description
Environmental	Operating temperature	-40°C to +65°C
specifications	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	AirEngine 5761R-11: Built-in antennas NOTE • 2.4GHz Horizontal beamwidth: 65°, 2.4GHz Vertical beamwidth: 40° • 5GHz Horizontal beamwidth: 65°, 5GHz Vertical beamwidth: 20° AirEngine 5761R-11E: External antennas
	Antenna gain	2.4GHz: 10dBi 5GHz: 11dBi
	Maximum number of SSIDs for each radio	≤ 16
	Maximum number of users	≤ 1024 (512/Radio) NOTE The actual number of users varies according to the environment.
	Maximum transmit power	2.4G: 28dBm (combined power) 5G: 27dBm (combined power) NOTE The actual transmit power depends on local laws and regulations.
	Power increment	1 dBm
	Maximum number of non-overlapping channels	2.4 GHz (2.412 GHz to 2.472 GHz) • 802.11b/g - 20 MHz: 3 • 802.11n - 20 MHz: 3 - 40 MHz: 1 • 802.11ax - 20 MHz: 3 - 40 MHz: 1 5 GHz (5.18 GHz to 5.825 GHz) • 802.11a - 20 MHz: 13 • 802.11n - 20 MHz: 13 • 802.11n - 20 MHz: 13 - 40 MHz: 6 • 802.11ac - 20 MHz: 13

Item		Description
		- 40 MHz: 6
		- 80 MHz: 3
		• 802.11ax
		- 20 MHz: 13
		- 40 MHz: 6
		- 80 MHz: 3
		NOTE
		The table uses the number of non-overlapping channels supported by China as an example. The number of non-overlapping channels varies in different countries. For details, see the Country Codes & Channels Compliance
Receive	er sensitivity	• 2.4G 802.11b: -101dBm/1LMbit/s;-98dBm/2Mbit/s;-
		96dBm/5.5Mbit/s;-93dBm/11SMbit/s;
		• 2.4G 802.11g: -96dBm/6Mbit/s;-94dBm/9Mbit/s;-93dBm/12Mbit/s;-
		91dBm/18Mbit/s;-88dBm/24Mbit/s;-85dBm/36Mbit/s;- 81dBm/48Mbit/s;-79dBm/54Mbit/s;
		 2.4G 802.11a: -95dBm/6Mbit/s;-93dBm/9Mbit/s;-93dBm/12Mbit/s;-90dBm/18Mbit/s;-87dBm/24Mbit/s;-84dBm/36Mbit/s;-79dBm/48Mbit/s;-77dBm/54Mbit/s;
		• 2.4 GHz 802.11n (HT20): -96dBm/MCS0Mbit/s;-
		93dBm/MCS1Mbit/s;-91dBm/MCS2Mbit/s;-87dBm/MCS3Mbit/s;-84dBm/MCS4Mbit/s;-80dBm/MCS5Mbit/s;-78dBm/MCS6Mbit/s;-77dBm/MCS7Mbit/s;-95dBm/MCS8Mbit/s;-92dBm/MCS9Mbit/s;-90dBm/MCS10Mbit/s;-86dBm/MCS11Mbit/s;-83dBm/MCS12Mbit/s;-79dBm/MCS13Mbit/s;-77dBm/MCS14Mbit/s;-76dBm/MCS15Mbit/s;
		• 2.4 GHz 802.11n (HT40): -93dBm/MCS0Mbit/s;-
		92dBm/MCS1Mbit/s;-90dBm/MCS2Mbit/s;-87dBm/MCS3Mbit/s;-83dBm/MCS4Mbit/s;-79dBm/MCS5Mbit/s;-77dBm/MCS6Mbit/s;-75dBm/MCS7Mbit/s;-92dBm/MCS8Mbit/s;-91dBm/MCS9Mbit/s;-89dBm/MCS10Mbit/s;-86dBm/MCS11Mbit/s;-82dBm/MCS12Mbit/s;-78dBm/MCS13Mbit/s;-76dBm/MCS14Mbit/s;-74dBm/MCS15Mbit/s;
		• 2.4GHz 802.11ac (VHT20): -96dBm/MCS0NSS1Mbit/s;-
		93dBm/MCS1NSS1Mbit/s;-91dBm/MCS2NSS1Mbit/s;-88dBm/MCS3NSS1Mbit/s;-85dBm/MCS4NSS1Mbit/s;-80dBm/MCS5NSS1Mbit/s;-79dBm/MCS6NSS1Mbit/s;-78dBm/MCS7NSS1Mbit/s;-73dBm/MCS8NSS1Mbit/s;-95dBm/MCS0NSS2Mbit/s;-92dBm/MCS1NSS2Mbit/s;-90dBm/MCS2NSS2Mbit/s;-87dBm/MCS3NSS2Mbit/s;-84dBm/MCS4NSS2Mbit/s;-79dBm/MCS5NSS2Mbit/s;-78dBm/MCS6NSS2Mbit/s;-77dBm/MCS7NSS2Mbit/s;-72dBm/MCS8NSS2Mbit/s;
		• 2.4 GHz 802.11ac (VHT40): -94dBm/MCS0NSS1Mbit/s;-
		92dBm/MCS1NSS1Mbit/s;-90dBm/MCS2NSS1Mbit/s;-87dBm/MCS3NSS1Mbit/s;-84dBm/MCS4NSS1Mbit/s;-79dBm/MCS5NSS1Mbit/s;-78dBm/MCS6NSS1Mbit/s;-76dBm/MCS7NSS1Mbit/s;-72dBm/MCS8NSS1Mbit/s;-71dBm/MCS9NSS1Mbit/s;-93dBm/MCS0NSS2Mbit/s;-91dBm/MCS1NSS2Mbit/s;-89dBm/MCS2NSS2Mbit/s;-
		86dBm/MCS3NSS2Mbit/s;-83dBm/MCS4NSS2Mbit/s;- 78dBm/MCS5NSS2Mbit/s;-77dBm/MCS6NSS2Mbit/s;- 75dBm/MCS7NSS2Mbit/s;-71dBm/MCS8NSS2Mbit/s;-

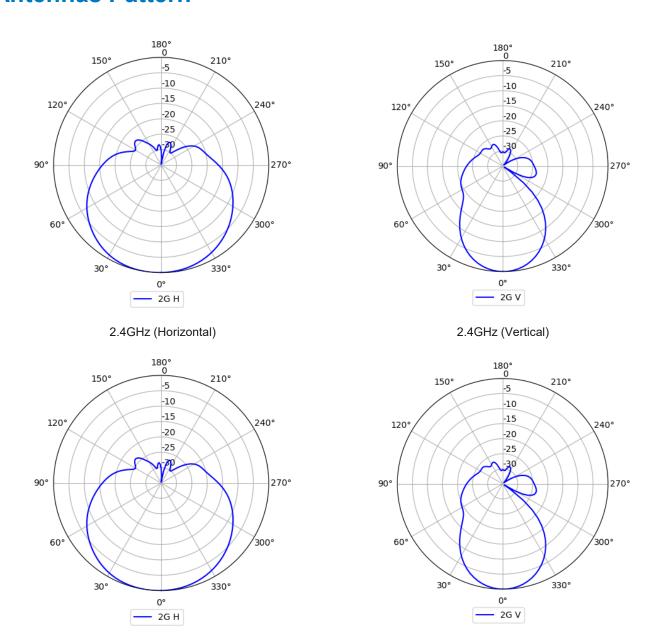
Item	Description
	 70dBm/MCS9NSS2Mbit/s; 2.4GHz 802.11ax (HE20): -96dBm/MCS0NSS1Mbit/s;- 93dBm/MCS1NSS1Mbit/s;-90dBm/MCS2NSS1Mbit/s;- 87dBm/MCS3NSS1Mbit/s;-84dBm/MCS4NSS1Mbit/s;- 80dBm/MCS5NSS1Mbit/s;-78dBm/MCS6NSS1Mbit/s;- 77dBm/MCS7NSS1Mbit/s;-73dBm/MCS8NSS1Mbit/s;- 71dBm/MCS9NSS1Mbit/s;-67dBm/MCS10NSS1Mbit/s;- 65dBm/MCS11NSS1Mbit/s;-95dBm/MCS0NSS2Mbit/s;- 92dBm/MCS1NSS2Mbit/s;-89dBm/MCS2NSS2Mbit/s;- 86dBm/MCS3NSS2Mbit/s;-83dBm/MCS4NSS2Mbit/s;- 79dBm/MCS5NSS2Mbit/s;-77dBm/MCS6NSS2Mbit/s;- 76dBm/MCS7NSS2Mbit/s;-72dBm/MCS8NSS2Mbit/s;- 70dBm/MCS9NSS2Mbit/s;-66dBm/MCS10NSS2Mbit/s;- 64dBm/MCS11NSS2Mbit/s;
	 2.4GHz 802.11ax (HE40): -94dBm/MCS0NSS1Mbit/s;-92dBm/MCS1NSS1Mbit/s;-89dBm/MCS2NSS1Mbit/s;-86dBm/MCS3NSS1Mbit/s;-83dBm/MCS4NSS1Mbit/s;-79dBm/MCS5NSS1Mbit/s;-78dBm/MCS6NSS1Mbit/s;-76dBm/MCS7NSS1Mbit/s;-72dBm/MCS8NSS1Mbit/s;-71dBm/MCS9NSS1Mbit/s;-67dBm/MCS10NSS1Mbit/s;-65dBm/MCS11NSS1Mbit/s;-93dBm/MCS0NSS2Mbit/s;-91dBm/MCS1NSS2Mbit/s;-88dBm/MCS2NSS2Mbit/s;-85dBm/MCS3NSS2Mbit/s;-82dBm/MCS4NSS2Mbit/s;-78dBm/MCS5NSS2Mbit/s;-77dBm/MCS6NSS2Mbit/s;-75dBm/MCS7NSS2Mbit/s;-71dBm/MCS8NSS2Mbit/s;-70dBm/MCS9NSS2Mbit/s;-66dBm/MCS10NSS2Mbit/s;-64dBm/MCS11NSS2Mbit/s;
	 5GHz 802.11n (HT20): -95dBm/MCS0Mbit/s;- 93dBm/MCS1Mbit/s;-91dBm/MCS2Mbit/s;-88dBm/MCS3Mbit/s;- 85dBm/MCS4Mbit/s;-80dBm/MCS5Mbit/s;-79dBm/MCS6Mbit/s;- 77dBm/MCS7Mbit/s;-94dBm/MCS8Mbit/s;-92dBm/MCS9Mbit/s;- 90dBm/MCS10Mbit/s;-87dBm/MCS11Mbit/s;- 84dBm/MCS12Mbit/s;-79dBm/MCS13Mbit/s;- 78dBm/MCS14Mbit/s;-76dBm/MCS15Mbit/s;
	 5GHz 802.11n (HT40): -93dBm/MCS0Mbit/s;- 91dBm/MCS1Mbit/s;-89dBm/MCS2Mbit/s;-86dBm/MCS3Mbit/s;- 82dBm/MCS4Mbit/s;-78dBm/MCS5Mbit/s;-77dBm/MCS6Mbit/s;- 75dBm/MCS7Mbit/s;-92dBm/MCS8Mbit/s;-90dBm/MCS9Mbit/s;- 88dBm/MCS10Mbit/s;-85dBm/MCS11Mbit/s;- 81dBm/MCS12Mbit/s;-77dBm/MCS13Mbit/s;- 76dBm/MCS14Mbit/s;-74dBm/MCS15Mbit/s;
	 5GHz 802.11ac (VHT20): -95dBm/MCS0NSS1Mbit/s;- 94dBm/MCS1NSS1Mbit/s;-90dBm/MCS2NSS1Mbit/s;- 88dBm/MCS3NSS1Mbit/s;-85dBm/MCS4NSS1Mbit/s;- 81dBm/MCS5NSS1Mbit/s;-79dBm/MCS6NSS1Mbit/s;- 78dBm/MCS7NSS1Mbit/s;-74dBm/MCS8NSS1Mbit/s;- 94dBm/MCS0NSS2Mbit/s;-93dBm/MCS1NSS2Mbit/s;- 89dBm/MCS2NSS2Mbit/s;-87dBm/MCS3NSS2Mbit/s;- 84dBm/MCS4NSS2Mbit/s;-80dBm/MCS5NSS2Mbit/s;- 78dBm/MCS6NSS2Mbit/s;-77dBm/MCS7NSS2Mbit/s;- 73dBm/MCS8NSS2Mbit/s;
	 5GHz 802.11ac (VHT40): -92dBm/MCS0NSS1Mbit/s;- 91dBm/MCS1NSS1Mbit/s;-89dBm/MCS2NSS1Mbit/s;- 86dBm/MCS3NSS1Mbit/s;-83dBm/MCS4NSS1Mbit/s;- 78dBm/MCS5NSS1Mbit/s;-77dBm/MCS6NSS1Mbit/s;- 75dBm/MCS7NSS1Mbit/s;-71dBm/MCS8NSS1Mbit/s;-

Item	Description
	70dBm/MCS9NSS1Mbit/s;-91dBm/MCS0NSS2Mbit/s;- 90dBm/MCS1NSS2Mbit/s;-88dBm/MCS2NSS2Mbit/s;- 85dBm/MCS3NSS2Mbit/s;-82dBm/MCS4NSS2Mbit/s;- 77dBm/MCS5NSS2Mbit/s;-76dBm/MCS6NSS2Mbit/s;- 74dBm/MCS7NSS2Mbit/s;-70dBm/MCS8NSS2Mbit/s;- 69dBm/MCS9NSS2Mbit/s;
	• 5GHz 802.11ac (VHT80): -90dBm/MCS0NSS1Mbit/s;-89dBm/MCS1NSS1Mbit/s;-86dBm/MCS2NSS1Mbit/s;-83dBm/MCS3NSS1Mbit/s;-80dBm/MCS4NSS1Mbit/s;-75dBm/MCS5NSS1Mbit/s;-74dBm/MCS6NSS1Mbit/s;-73dBm/MCS7NSS1Mbit/s;-68dBm/MCS8NSS1Mbit/s;-67dBm/MCS9NSS1Mbit/s;-89dBm/MCS0NSS2Mbit/s;-88dBm/MCS1NSS2Mbit/s;-85dBm/MCS2NSS2Mbit/s;-82dBm/MCS3NSS2Mbit/s;-79dBm/MCS4NSS2Mbit/s;-74dBm/MCS5NSS2Mbit/s;-72dBm/MCS7NSS2Mbit/s;-67dBm/MCS8NSS2Mbit/s;-66dBm/MCS9NSS2Mbit/s;
	• 5GHz 802.11ax (HE20): -95dBm/MCS0NSS1Mbit/s;-93dBm/MCS1NSS1Mbit/s;-91dBm/MCS2NSS1Mbit/s;-88dBm/MCS3NSS1Mbit/s;-85dBm/MCS4NSS1Mbit/s;-80dBm/MCS5NSS1Mbit/s;-79dBm/MCS6NSS1Mbit/s;-77dBm/MCS7NSS1Mbit/s;-73dBm/MCS8NSS1Mbit/s;-72dBm/MCS9NSS1Mbit/s;-65dBm/MCS9NSS1Mbit/s;-65dBm/MCS11NSS1Mbit/s;-94dBm/MCS0NSS2Mbit/s;-92dBm/MCS1NSS2Mbit/s;-90dBm/MCS2NSS2Mbit/s;-87dBm/MCS3NSS2Mbit/s;-84dBm/MCS4NSS2Mbit/s;-79dBm/MCS5NSS2Mbit/s;-79dBm/MCS5NSS2Mbit/s;-76dBm/MCS7NSS2Mbit/s;-72dBm/MCS8NSS2Mbit/s;-71dBm/MCS9NSS2Mbit/s;-66dBm/MCS10NSS2Mbit/s;-64dBm/MCS11NSS2Mbit/s;
	 5GHz 802.11ax (HE40): -93dBm/MCS0NSS1Mbit/s;-91dBm/MCS1NSS1Mbit/s;-89dBm/MCS2NSS1Mbit/s;-86dBm/MCS3NSS1Mbit/s;-78dBm/MCS5NSS1Mbit/s;-77dBm/MCS6NSS1Mbit/s;-75dBm/MCS7NSS1Mbit/s;-71dBm/MCS8NSS1Mbit/s;-70dBm/MCS9NSS1Mbit/s;-65dBm/MCS10NSS1Mbit/s;-64dBm/MCS11NSS1Mbit/s;-92dBm/MCS0NSS2Mbit/s;-90dBm/MCS1NSS2Mbit/s;-88dBm/MCS2NSS2Mbit/s;-85dBm/MCS3NSS2Mbit/s;-81dBm/MCS4NSS2Mbit/s;-77dBm/MCS5NSS2Mbit/s;-76dBm/MCS6NSS2Mbit/s;-74dBm/MCS5NSS2Mbit/s;-70dBm/MCS8NSS2Mbit/s;-69dBm/MCS9NSS2Mbit/s;-64dBm/MCS10NSS2Mbit/s;-63dBm/MCS11NSS2Mbit/s; 5GHz 802.11ax (HE80): -90dBm/MCS0NSS1Mbit/s;-83dBm/MCS3NSS1Mbit/s;-86dBm/MCS4NSS1Mbit/s;-75dBm/MCS5NSS1Mbit/s;-80dBm/MCS6NSS1Mbit/s;-73dBm/MCS7NSS1Mbit/s;-68dBm/MCS8NSS1Mbit/s;-73dBm/MCS7NSS1Mbit/s;-68dBm/MCS8NSS1Mbit/s;-67dBm/MCS9NSS1Mbit/s;-62dBm/MCS10NSS1Mbit/s;-61dBm/MCS9NSS1Mbit/s;-89dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-89dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-89dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-89dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-89dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-89dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-89dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-89dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-89dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-89dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-89dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-89dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-89dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS11NSS1Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS0NSS2Mbit/s;-61dBm/MCS0NSS
	87dBm/MCS1NSS2Mbit/s;-85dBm/MCS2NSS2Mbit/s;-82dBm/MCS3NSS2Mbit/s;-79dBm/MCS4NSS2Mbit/s;-74dBm/MCS5NSS2Mbit/s;-73dBm/MCS6NSS2Mbit/s;-72dBm/MCS7NSS2Mbit/s;-67dBm/MCS8NSS2Mbit/s;-66dBm/MCS9NSS2Mbit/s;-61dBm/MCS10NSS2Mbit/s;-60dBm/MCS11NSS2Mbit/s;

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 CISPR 35 	 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 802.11h 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:

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5GHz (Horizontal)

- 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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