

Punto de Acceso Wi-Fi 6 / 2.975 Gbps / Doble Banda 2x2 MU-MIMO / Smart Antenna / PoE Gigabit / 256 Clientes

SKU: AP362 Marca: HUAWEI Categoría: Puntos de Acceso

Garantía: 3 años

$2,460.07

Precios con IVA incluido

DESCRIPCIÓN

El HUAWEI eKitEngine AP362 es un punto de acceso de techo con tecnología Wi-Fi 6 (802.11ax) diseñado para entornos corporativos que requieren alta densidad de dispositivos y cobertura uniforme. Opera de forma simultánea en las bandas de 2.4 GHz y 5 GHz con configuración 2x2 MIMO en cada una, alcanzando una velocidad de dispositivo de hasta 2.975 Gbps. Incorpora tecnología Smart Antenna, que amplía hasta en un 20% la cobertura inalámbrica respecto a soluciones convencionales, lo que permite cubrir áreas amplias con un solo equipo. Soporta hasta 256 clientes simultáneos (80 recomendados) y hasta 32 SSIDs, e integra un puerto Gigabit con PoE para alimentación eléctrica y transporte de datos por un solo cable. La administración puede realizarse de forma local mediante navegador web en modo stand alone, a través de la app eKit o desde la nube eKit sin costo, con capacidad de gestionar hasta 12 APs en modo controlador.

Desempeño
Estándar Wi-Fi 6 (802.11ax)
Velocidad combinada de hasta 2.975 Gbps
Banda 2.4 GHz: 575 Mbps con 2x2 MIMO
Banda 5 GHz: 2.4 Gbps con 2x2 MIMO
Smart Antenna con 20% mayor cobertura
Hasta 256 clientes simultáneos (80 recomendados)
Hasta 32 SSIDs
Ganancia de antenas: 2.4 GHz 4 dBi / 5 GHz 4 dBi

Físicas y Eléctricas
1 puerto Gigabit PoE in
Alimentación eléctrica a través de PoE
Instalación en techo y pared
Seguridad WP3
Formato punto de acceso de techo

Administración
Administración vía navegador web (stand alone)
Gestión mediante app eKit
Administración gratuita desde la nube eKit
Soporta hasta 12 APs en modo controlador

Características Generales
Punto de acceso de techo Wi-Fi 6 (802.11ax)
Servicios simultáneos en 2.4 GHz (2x2 MIMO) y 5 GHz (2x2 MIMO)
Velocidad de dispositivo de hasta 2.975 Gbps
Doble banda: 2.4 GHz a 575 Mbps y 5 GHz a 2.4 Gbps
Tecnología Smart Antenna con 20% mayor cobertura
Soporta hasta 256 clientes simultáneos; 80 clientes recomendados
Soporta hasta 32 SSIDs
1 puerto Gigabit PoE in para alimentación eléctrica
Ganancia de antenas: 2.4 GHz 4 dBi y 5 GHz 4 dBi
Instalación en techo y pared
Seguridad WP3
Administración vía navegador web (stand alone), app eKit o nube eKit
Soporta hasta 12 APs en modo controlador

MEMORIA TÉCNICA · AP362

Número de parte de esta ficha: AP362. La información corresponde a esta variante.

Datasheet
- Huawei eKitEngine AP362
Access Point Datasheet
- Smart antenna
Cover one more wall, makemore
proit:Smart antenna with 20% wider
coverage than the industry
Super speed
Fast Internet access without waiting :
2.975Gbps
- Huawei AP362 Access Point Datasheet 2
- Product Overview
Huawei eKitEngine AP362 is a Wi-Fi 6 (802.11ax) wall plate 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 AP362 ideal for indoor coverage scenarios of small and medium-sized enterprise offices, hospitals, and higher education.
● 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 electrical port.
● Built-in smart antennas to provide precise coverage for STAs, reduce interference, and improve signal quality.
● Supports the Fat, Fit, leader, and cloud working modes.
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.
- ● The function and features marked with * can be implemented through software upgrade. The following describes are the same.
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 enables load balancing detection between APs on the network after STA roaming to adjust the STA load on each AP, improving network stability.
● Intelligent dynamic frequency assignment (DFA) technology: The DFA algorithm is used to automatically detect adjacent-channel and co-channel interference, and identify any redundant 2.4 GHz radios. Through automatic inter-AP negotiation, a 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: 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 a relatively equal amount of 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)
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 & Channels Compliance.
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)
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

- Item Description
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
Intelligent multimedia 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)
WPA2-802.1X authentication and encryption (WPA2-Enterprise)
WPA3-SAE authentication and encryption (WPA3-Personal)
WPA3-802.1X authentication and encryption (WPA3- Personal)
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)

- Item Description
802.11w Protected Management Frames (PMF)
DTLS 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 SSHv2
SFTP using SSHv2
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
Location service NOTE
The AP supports the locating service only in Fit or cloud AP mode.
Wi-Fi terminal location
Working with the location server to locate rogue devices
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)
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 & Channels Compliance.
Automatic channel scanning and interference avoidance
Service set identifier (SSID) hiding
Signal sustain technology (SST)
Unscheduled automatic power save delivery (U-APSD)

- 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
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)
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
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User-based bandwidth limiting
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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- Personal)
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 SSHv2
SFTP using SSHv2
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)	Φ180 mm x 35 mm
Weight	0.51 kg
Interface type	1 x 10M/100M/1GE (RJ45) NOTE ● GE supports PoE input.
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	11.2 W NOTE The actual maximum power consumption depends on local laws and regulations..
Environmental specifications	
Operating temperature	-10°C to +50°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 specifications	Antenna type Built-in smart antennas
Antenna gain	2.4 GHz: 4 dBi 5 GHz: 4 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 at 2.4 GHz or 3 dBi at 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: 20 dBm (combined power) 5 GHz: 20 dBm (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

- Item Description

− 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
− 40 MHz: 6

● 802.11ac
– 20 MHz: 13
– 40 MHz: 6
– 80 MHz: 3
– 160 MHz: 1
● 802.11ax
– 20 MHz: 13
– 40 MHz: 6
– 80 MHz: 3
– 160 MHz: 1
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.
Standards Compliance
Item Description
Safety standards
● UL 60950-1
● EN 60950-1
● IEC 60950-1
● UL 62368-1
● EN 62368-1
● IEC 62368-1
● GB 4943.1
● CAN/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
● GB 9254
● GB 17625.1
● GB 17625.2
● AS/NZS CISPR32
● CISPR 24
● IEC/EN61000-4-2
● IEC/EN 61000-4-3
● IEC/EN 61000-4-4
● IEC/EN 61000-4-5
● IEC/EN61000-4-6

- Item Description
● EN 55035 ● CISPR 32
● CISPR 35
● 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 802.11v
● IEEE 802.11w
● IEEE 802.11r
Security standards
● 802.11i, Wi-Fi Protected Access (WPA), WPA2, WPA2-Enterprise, WPA2-PSK, WPA3, WAPI
● 802.1X
● Advanced Encryption Standards (AES), Temporal Key Integrity Protocol (TKIP), WEP, Open
● EAP Type(s)
EMF ● EN 62311 ● EN 50385
RoHS
● Directive 2002/95/EC & 2011/65/EU
● (EU)2015/863
Reach ● Regulation 1907/2006/EC
WEEE ● Directive 2002/96/EC & 2012/19/EU
Antenna Radiation Patterns
- 2.4 GHz (Horizontal) 2.4 GHz (Vertical)

- 5 GHz (Horizontal) 5 GHz (Vertical)
More Information
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