

Punto de Acceso Wi-Fi 7 / Sectorial 70° / 6.45 Gbps / 1,024 Usuarios / SFP+ 10 Gbps / IP68 / -40°C a +70°C / Cobertura 250 m (820.2 ft)

SKU: AP772E Marca: HUAWEI Categoría: Puntos de Acceso

Garantía: 3 años

$8,521.05

Precios con IVA incluido

DESCRIPCIÓN

El AP772E es un punto de acceso Wi-Fi 7 para exteriores diseñado para despliegues de alta densidad en entornos abiertos. Integra seis flujos espaciales simultáneos con tecnología MU-MIMO que distribuye eficientemente el espectro entre múltiples clientes. Su antena sectorial de 70° proporciona cobertura direccional hasta 250 m (820.2 ft), optimizada para estadios, plazas públicas y parques. La protección IP68 garantiza operación continua bajo condiciones climáticas extremas, con rango térmico de -40°C a +70°C y alta resistencia a sobretensiones. El puerto SFP+ de 10 Gbps permite backhaul de fibra óptica para eliminar cuellos de botella en el enlace ascendente. La gestión gratuita desde plataforma en la nube, aplicación móvil e interfaz web simplifica la administración remota sin costos de licenciamiento.

Características Generales
• Wi-Fi 7 con 6 flujos espaciales simultáneos
• Antena sectorial 70° con cobertura hasta 250 m (820.2 ft)
• Hasta 6.45 Gbps en bandas combinadas (2.4 GHz y 5 GHz)
• Capacidad para 1,024 usuarios concurrentes
• Protección IP68 y rango operativo -40°C a +70°C
• Puerto SFP+ 10 Gbps para fibra óptica
• Puerto Ethernet PoE In 10/100/1000/2500 Mbps
• Puerto USB para expansión
• Entrada de alimentación CD dedicada
• Gestión gratuita desde nube, app y web
• Seguridad inalámbrica: WEP, WPA, WPA2, WPA3

Desempeño Inalámbrico
Modo de operación: Punto de acceso
Frecuencias: 2.4 GHz y 5 GHz
Throughput combinado: Hasta 6.45 Gbps
MU-MIMO 2.4 GHz: 2x2
MU-MIMO 5 GHz: 4x4
Flujos espaciales totales: 6
Ganancia 2.4 GHz: 10 dBi
Ganancia 5 GHz: 11 dBi
Potencia TX 2.4 GHz: 28 dBm
Potencia TX 5 GHz: 30 dBm
Cobertura: Hasta 250 m (820.2 ft)
Capacidad de usuarios: 1,024 concurrentes

Interfaces y Alimentación
Ethernet PoE In: 10/100/1000/2500 Mbps (1 puerto)
SFP+: 1000/2500/10000 Mbps (1 puerto)
USB: 1 puerto
Entrada alimentación CD: 1 puerto

Físicas y Ambientales
Protección: IP68
Rango térmico: -40°C a +70°C
Resistencia a sobretensiones: Alta

ESPECIFICACIONES

Característica 1	**6 flujos espaciales simultáneos para alta densidad de usuarios**
Característica 2	**Antena sectorial 70° con cobertura hasta 250 m (820.2 ft)**
Característica 3	**Puerto SFP+ 10 Gbps para backhaul de fibra óptica**
Característica 4	**Gestión centralizada gratuita vía nube, app y web**
Característica 5	**Operación extrema IP68 con rango -40°C a +70°C**
Característica 6	**MU-MIMO 2x2 en 2.4 GHz y 4x4 en 5 GHz para throughput óptimo**

MEMORIA TÉCNICA · AP772E

Número de parte de esta ficha: AP772E. La información corresponde a esta variante.

Make SME Network Easier and Smarter
Huawei eKitEngine AP772E Wireless Access Point Datasheet
- Huawei eKitEngine AP772E
Wireless Access Point Datasheet
- BE6450 High-Protection Dual-Band Gigabit Outdoor AP
Make SME Network Easier and Smarter
- Make SME Network Easier and Smarter
Huawei eKitEngine AP772E Wireless Access Point Datasheet
- Product Overview
Huawei eKitEngine AP772E is an outdoor access point (AP) that complies with Wi-Fi 7 (802.11be) and provides a maximum of six spatial streams. The AP leverages Wi-Fi 7 innovations to significantly improve users' wireless experience. It stands out with excellent outdoor coverage performance, IP68 waterproof and dustproof ratings, and strong surge protection capability. These strengths make the AP ideal for coverage scenarios such as high-density stadiums, squares, pedestrian streets, and amusement parks.
Product Highlights
● The AP is equipped with built-in directional antennas and can provide wireless services through dual radios:

2.4 GHz (2x2 MIMO) + 5 GHz (4x4 MIMO).
● The Ethernet ports of the AP support 6 kA surge protection. The AP supports IP68 waterproof and dustproof ratings, and an extended operating temperature range of –40°C to +70°C (–40°F to +158°F), meeting industrial-grade requirements.
● It can work in Fit, Fat, or cloud mode.
Feature Description
Wi-Fi 7 (802.11be) Standard
Wi-Fi 7 (802.11be) is the next-generation Wi-Fi standard, also known as IEEE 802.11be or Extremely High Throughput (EHT). It is compatible with protocols such as Wi-Fi 6 and Wi-Fi 5.
Based on Wi-Fi 6, Wi-Fi 7 introduces technologies such as 320 MHz channel width, 4096-QAM, multi-resource unit (RU), MLO, enhanced MU-MIMO, and multi-AP coordination. In this way, Wi-Fi 7 provides a higher data transmission rate and lower latency than Wi-Fi 6.
New Features in Wi-Fi 7
Multi-RU mechanism
● 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 solve this problem and further improve spectral efficiency, Wi-Fi 7 defines a mechanism for allocating multiple RUs to a single user. To balance the implementation complexity and spectrum utilization, the Wi-Fi 7 standard specifications impose certain restrictions on RU combinations. 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 cannot 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 Wi-Fi 7 standard defines a multi-link aggregation technology — MLO. This technology enables a STA to simultaneously establish links with multiple radios (2.4 GHz, 5 GHz, and 6 GHz) of an AP. Using MAC layer technology, these cross-band links are aggregated into a virtual link to enable parallel communication across multiple links.
Preamble puncturing
● Based on channel bonding technology, multiple adjacent channels can be merged into one for communication. If one of the subchannels is severely interfered with and cannot be used, its neighbors are

- also unavailable. This leads to a significant decrease in overall wireless bandwidth, degrading the throughput. Preamble puncturing technology allows for skipping heavily interfered subchannels by "puncturing" through them. This enables the utilization of adjacent clear subchannels, preventing the overall wireless bandwidth decrease and thereby improving wireless performance in the case of interference.
High-Speed Access
The AP supports 160 MHz channel width, which increases the number of available data subcarriers and expands transmission channels. In addition, the AP adopts 4096-QAM to achieve a rate of up to 0.69 Gbps on the 2.4 GHz band and 5.76 Gbps on the 5 GHz band, meaning up to 6.45 Gbps for the device.
Directional Antenna
The AP has built-in directional antennas and works simultaneously on the 2.4 GHz and 5 GHz frequency bands to provide coverage over an optimal experience radius of 250 meters.
Wired and Wireless Security Guarantee
To ensure data security, this AP integrates wired and wireless security functions and provides comprehensive security protection.
Authentication and encryption for wireless access
● The AP supports WEP, WPA/WPA2-PSK, WPA3-SAE, WPA/WPA2-PPSK, and WPA/WPA2/WPA3-802.1X authentication/encryption modes to ensure the security of wireless networks. 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 data can only be received and parsed by authorized users.
Authentication and encryption for wired access
● The AP access control mechanism ensures that only authorized users can access the AP. Control and provisioning of wireless access point (CAPWAP) link protection and Datagram Transport Layer Security (DTLS) encryption provide security guarantee and improve data transmission security between the AP and wireless access controller (WAC).
Automatic Radio Calibration
Automatic radio calibration allows the AP to collect signal strength, channel, and other parameters of surrounding APs and generate an AP topology according to the collected data. Based on interference from surrounding environments and their loads, the 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.
High-Specification Protection
● The AP is designed with a metal shell and overall heat dissipation, allowing it to operate in an extended temperature range of –40°C to +70°C. It also features an IP68 waterproof and dustproof design, as well as 6 kA surge protection for Ethernet ports, meeting industrial-grade requirements.
● Cable connectors are secured using metal fasteners to ensure secure connections and stable device operations.
Cloud Management
The AP supports cloud-based management. It provides various authentication functions, such as PSK and Portal authentication, without the need of a WAC or an authentication server. This greatly simplifies networking and reduces capital expenditure (CAPEX). In addition, the AP can use the Huawei SME Network cloud management platform to implement cloud-based network planning, deployment, inspection, and O&M.

- Deployment and O&M Through HUAWEI eKit App
The HUAWEI eKit App supports Wi-Fi-based deployment and barcode scanning–based deployment. After the deployment is complete, you can perform more maintenance operations on the HUAWEI eKit App.
Wi-Fi-based deployment
● In quick deployment mode, you can connect your mobile phone to the management Wi-Fi network of an AP to deploy a network. This allows the device to automatically go online and be remotely managed on the app.
Barcode scanning–based deployment
● Another method is to use a mobile phone to scan the AP's serial number (SN) and synchronize the device information to HUAWEI eKit platform for device onboarding management.
Product Features
Fit AP Mode
Item Description
WLAN features Compliance with IEEE 802.11be and compatibility with IEEE 802.11a/b/g/n/ac/ax on both 2.4 GHz and 5 GHz frequency bands
Maximum ratio combining (MRC)
Space time block code (STBC)
Cyclic delay diversity (CDD)/Cyclic shift diversity (CSD)
Beamforming
MU-MIMO
Orthogonal frequency division multiple access (OFDMA)
Compliance with 4096-QAM and compatibility with 1024-QAM/256-QAM/64-QAM/16-QAM/8-QAM/QPSK/BPSK
Low-density parity-check (LDPC)
Frame aggregation, including aggregate MAC protocol data unit (A-MPDU) (Tx/Rx) and aggregate MAC service data unit (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
Wi-Fi Multimedia (WMM) for priority-based data processing and forwarding
WLAN channel management and channel rate adjustment
Automatic channel scanning and interference avoidance
- For details about WLAN channel management, see the Country Codes and Channels Compliance.
Service set identifier (SSID) hiding configuration for each AP, supporting Chinese SSIDs
Signal sustain technology (SST)
Unscheduled automatic power save delivery (U-APSD)
CAPWAP
Automatic AP onboarding
Extended service set (ESS)
Multi-user call admission control (CAC)
Advanced cellular coexistence (ACC), minimizing the impact of interference from cellular
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Huawei eKitEngine AP772E Wireless Access Point Datasheet
- Item Description
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 the Media
Dependent Interface (MDI) and Media Dependent Interface Crossover (MDI-X)
Compatibility with IEEE 802.1Q
SSID-based VLAN assignment
VLAN trunk on uplink Ethernet ports
Management channel of the AP's uplink port in tagged or untagged mode
DHCP client, obtaining IP addresses through DHCP
Tunnel data forwarding and direct data forwarding
Mesh backhaul
IPv6
STA isolation in the same VLAN
IP access control list (ACL)
Link layer discovery protocol (LLDP)
Uninterrupted service forwarding upon CAPWAP tunnel disconnection
Unified authentication on the WAC
QoS features WMM parameter management for each radio
Queue mapping and scheduling
User-based bandwidth limiting
Adaptive bandwidth management (automatic bandwidth adjustment based on the user quantity
and radio environment) for user experience improvement
Airtime scheduling
Security
features
Open system authentication
WEP authentication and encryption using a 64-bit, 128-bit, 152-bit, or 192-bit encryption key
WPA2-PSK authentication and encryption
WPA2-802.1X authentication and encryption
WPA3-SAE authentication and encryption
WPA3-802.1X authentication and encryption
WPA-WPA2/WPA2-WPA3 hybrid authentication
WPA2-PPSK authentication and encryption
802.1X authentication, MAC address authentication, Portal authentication, etc.
DHCP snooping
802.11w Protected Management Frames (PMF)
DTLS encryption
Dynamic ARP inspection (DAI)
IP Source Guard (IPSG)
Maintenance
features
Unified AP management and maintenance on the WAC
Automatic AP onboarding, automatic configuration loading, and plug-and-play (PnP)
Automatic batch upgrade
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Huawei eKitEngine AP772E Wireless Access Point Datasheet
- Item Description
Telnet and STelnet using SSHv2
SFTP using SSHv2
Real-time configuration monitoring and fast fault locating using the network management system
(NMS)
System status alarm
Cloud-Managed/FAT AP Mode
Item Description
WLAN features Compliance with IEEE 802.11be and compatibility with IEEE 802.11a/b/g/n/ac/ax on both 2.4 GHz
and 5 GHz frequency bands
MRC
STBC
CDD/CSD
Beamforming
MU-MIMO
OFDMA
Compliance with 4096-QAM and compatibility with 1024-QAM/256-QAM/64-QAM/16-QAM/8-
QAM/QPSK/BPSK
LDPC
Frame aggregation, including A-MPDU (Tx/Rx) and A-MSDU (Tx/Rx)
802.11 DFS
Short GI in 20 MHz, 40 MHz, 80 MHz, and 160 MHz modes
Priority mapping and scheduling in compliance with WMM
WLAN channel management and channel rate adjustment
- For details about WLAN channel management, see the Country Codes and Channels Compliance.
Automatic channel scanning and interference avoidance
SSID hiding configuration for each AP, supporting Chinese SSIDs
U-APSD
Automatic AP onboarding
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 MDI and
MDI-X
Compatibility with IEEE 802.1Q
SSID-based VLAN assignment
DHCP client, obtaining IP addresses through DHCP
STA isolation in the same VLAN
ACL
Unified authentication on the cloud management platform

Mesh backhaul
- Make SME Network Easier and Smarter
Huawei eKitEngine AP772E Wireless Access Point Datasheet
- Item Description
IPv6
QoS features Priority mapping and scheduling in compliance with WMM
WMM parameter management for each radio
Queue mapping and scheduling
User-based bandwidth limiting
Airtime scheduling
Security
features
Open system authentication
WPA2-PSK authentication and encryption
WPA2-802.1X authentication and encryption
WPA3-SAE authentication and encryption
WPA3-802.1X authentication and encryption
WPA-WPA2/WPA2-WPA3 hybrid authentication
802.1X authentication, MAC address authentication, Portal authentication, etc.
DHCP snooping
DAI
IPSG
Maintenance
features
Unified management and maintenance on the cloud management platform
Batch upgrade
Telnet and STelnet using SSHv2
SFTP using SSHv2
Real-time configuration monitoring and fast fault locating using the NMS
System status alarm
Network Time Protocol (NTP)
Product Specifications
Item Description
Technical
specifications
Dimensions (H x W x
D)
77 mm x 250 mm x 220 mm
Weight 2.76 kg
Port 1 x 2.5GE (RJ45), 100M/1000M/2500M auto-sensing
1 x 10GE optical (SFP+), GE/2.5GE/10GE auto-sensing
1 x USB port
1 x 48 V DC power port
- The 2.5GE electrical port supports PoE input.
LED indicator Indicates the power-on, startup, running, alarm, and fault states of
the system.
Power specifications Power input ● DC: 48 V ± 10%
- PoE power supply: in compliance with IEEE 802.3bt/at/af
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- Item Description
- When working in 802.3af power supply mode, the AP is restricted in functions.
For example, the USB port is unavailable. For details, see the Info-Finder.
Maximum power
consumption
- 20.4 W (excluding USB)
- The actual maximum power consumption depends on local laws and
regulations.
Environmental
specifications
Operating
temperature
–40°C to +70°C (If the altitude is in the range of 1800 m to 5000 m, the
temperature decreases by 1°C every time the altitude increases by 300 m.)
- Some part of the AP shell may have a higher temperature than the upper limit
of the operating temperature range. In this case, the AP's performance will not
be affected as long as the shell temperature complies with the safety
standards.
Storage temperature –40°C to +85°C
Operating humidity 0% to 100% (non-condensing)
IP rating IP68
Altitude –60 m to +5000 m
Atmospheric
pressure
53 kPa to 106 kPa
Radio specifications Antenna type Built-in directional antennas
- The horizontal and vertical beamwidths of 2.4 GHz antennas are 70° and 35°,
respectively. The horizontal and vertical beamwidths of 5 GHz antennas are 60°
and 20°, respectively.
Antenna gain 2.4 GHz: 10 dBi
5 GHz: 11 dBi
- 1. The preceding gains are the peak gains of a single antenna.
2. When all 2.4 GHz or 5 GHz antennas are combined, the equivalent antenna
gain is 10 dBi for 2.4 GHz radios or 10 dBi for 5 GHz radios.
Maximum quantity
of SSIDs on each
radio
10
Maximum number
of access STAs
1024
- The actual number of users varies according to the environment.
Maximum transmit
power
2.4 GHz: 28 dBm (combined power)
5 GHz: 30 dBm (combined power)
- The actual transmit power varies according to local laws and regulations.
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- Item Description
Power adjustment
increment
1 dBm
Standards Compliance
Item Description
Safety standards ● UL 62368-1
- EN 62368-1
- IEC 62368-1

- CSA 62368-1
- GB 4943.1
Radio standards ● ETSI EN 300 328 ● ETSI EN 301 893
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
- CISPR 24
- CISPR 32
- CISPR 35
- IEC/EN 61000-4-2
- 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 standards ● 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
- Make SME Network Easier and Smarter
Huawei eKitEngine AP772E Wireless Access Point Datasheet
- Antenna Patterns
- Typical Networking
Outdoor scenario
- Make SME Network Easier and Smarter
Huawei eKitEngine AP772E Wireless Access Point Datasheet
- Converged
gateway
Outdoor scenario
Core switch
NVR
WAC
Access switch Outdoor AP
AP772E
- Make SME Network Easier and Smarter
Huawei eKitEngine AP772E Wireless Access Point Datasheet
- More Information
local sales office.
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