



IAP6018L

Next-generation Wi-Fi 6 (802.11ax) Indoor Dual-band Wireless Access Point

Product Introduction

IAP6018L is a next-generation indoor dual-band Wi-Fi 6 wireless Access Point (AP). It complies with IEEE 802.1a/b/g/n/ac/ax standards, adopts 2x2 MU-MIMO technology, supports 4 spatial streams, and provides up to 1.775Gbps bandwidth.

IAP6018L delivers optimal performance in dense indoor scenarios such as schools, SOHOs, and business centers.

Product Feature

High-performance Wi-Fi 6 access point

- Complies with Wi-Fi 6 (IEEE 802.11ax) standards
- Supports MU-MIMO and OFDMA to improve the user's Internet experience.
- Supports BSS Coloring mechanism. Compared to 802.11ac technology, channel utilization is higher, overall performance is improved by 25%.
- Provides up to 1.775 Gbps bandwidth (1.2 Gbps in the 5GHz band and 0.575 Gbps in the 2.4GHz band).
- Supports up to 256 terminals.

Smart link management

- Actively monitors the link state with the access controller (AC) or gateway.
- Maintains existing terminal sessions and establishes new sessions when the AC is down.

Security audit

- Provides a security audit data interface.
- Collaborates with IDL's O&M platform to function as an information security management system at public Internet access service sites.

Flexible virtual AP technology

- Encrypts and isolates SSID subnets or VLANs.
- Configures separate authentication methods and encryption mechanisms for each SSID.

Robust security

- Supports MAC authentication, 802.1x authentication, Web authentication, and transparent authentication.
- Supports WEP, WPA/WPA2-PSK, WPA2/WPA3-PSK, WPA3-PSK, and OPEN authentications.
- Works with the cloud O&M platform to enable SMS-based and APP-based portal authentication.
- Supports rate limitation based on terminals and SSIDs.
- Supports terminal isolation based on SSIDs, APs, and VLANs.

Effortless deployment and simplified O&M

- Supports desk-mounted, wall-mounted, and ceiling-mounted installation methods.
- Supports both 12V DC and PoE power supply.
- Supports local, remote, cloud-based, and APP-based management options to simplify Operation and Maintenance.

Energy saving

- Power consumption is lower than 15W.
- Allows users to configure a timed shutdown policy for radio modules.

Product Specification

Hardware specification	
Item	Parameter description
Port	<ul style="list-style-type: none"> 1 x 10/100/1000Mbps auto-adaptive WAN port 1 x 10/100/1000Mbps auto-adaptive LAN port
Reset button	<ul style="list-style-type: none"> 1 x Reset button
Power supply	<ul style="list-style-type: none"> 802.3af/at PoE/PoE+ DC, 12V/1.5A
Antenna	<ul style="list-style-type: none"> Internal antenna
Operating frequency	<ul style="list-style-type: none"> 802.11a/n/ac/ax: 5.150~5.350 GHz; 5.470~5.725 GHz; 5.725~5.850 GHz 802.11b/g/n/ax: 2.40~2.4835 GHz
Spatial streams	<ul style="list-style-type: none"> 2.4G: 2 x 2 MU-MIMO 5G: 2 x 2 MU-MIMO
Max transmit power	<ul style="list-style-type: none"> 23 dBm for combined channel, and 20 dBm per channel
Modulation technique	<ul style="list-style-type: none"> IEEE 802.11b: DSSS (DBPSK, QPSK, CCK) IEEE 802.11a/g/n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) IEEE 802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM) IEEE 802.11ax: OFDMA (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM)
Data rates	<ul style="list-style-type: none"> IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11a/g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: <ul style="list-style-type: none"> 20 MHz: 6.5 Mbps~144.44 Mbps 40 MHz: 13.5 Mbps~300 Mbps IEEE 802.11ac: <ul style="list-style-type: none"> 20 MHz: 6.5 Mbps~173.3 Mbps 40 MHz: 13.5 Mbps~400 Mbps 80 MHz: 29.3 Mbps~867 Mbps IEEE 802.11ax: <ul style="list-style-type: none"> 20 MHz: 7.3 Mbps~286.8 Mbps 40 MHz: 14.6 Mbps~573.6 Mbps 80 MHz: 30.6 Mbps~1201 Mbps
Indicator	<ul style="list-style-type: none"> 1 x SYS indicator 1 x LAN indicator 1 x WAN indicator
Power consumption	<ul style="list-style-type: none"> 15W
Dimensions	<ul style="list-style-type: none"> 186mm x 186mm x 43mm
Weight	<ul style="list-style-type: none"> 0.375kg
Environment	<ul style="list-style-type: none"> Operating temperature: -5°C ~ +45°C Storage temperature: -20°C ~ +70°C Relative humidity: 5%-95%RH (non-condensing)

Software specification	
Item	Parameter description
Max SSIDs	<ul style="list-style-type: none"> 32
Max concurrent users	<ul style="list-style-type: none"> 256
802.11n/ac	<ul style="list-style-type: none"> 20 MHz/40 MHz/80 MHz channel bandwidth Dynamic frequency selection (DFS) Transmit power control (TPC)
802.11ax	<ul style="list-style-type: none"> OFDMA BSS Coloring TWT (Target Wake Time)
Wi-Fi security and authentication	<ul style="list-style-type: none"> OPEN WEP, WPA/WPA2-PSK, WPA2/WPA3-PSK, WPA3-PSK Portal-based, MAC-based and transparent authentication
Protocol	<ul style="list-style-type: none"> IPv4 and IPv6
QoS	<ul style="list-style-type: none"> Rate limitation based on terminals, SSIDs, and APs Maximum concurrent user limitation based on SSIDs Spectrum navigation
Management	<ul style="list-style-type: none"> Network management and control via O&M platform or APP Network management via local CLI or local WebUI Network management via Telnet or SSH Upgrade through CAPWAP or FTP NTP, SYSLOG
Note:	<ul style="list-style-type: none"> Specifications are subject to change. Actual operating frequency varies according to the regulations of different countries and regions. Actual transmit power varies according to the regulations of different countries and regions. Actual number of concurrent users varies according to the application environment and other factors.