



IAP6030E

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

Product Introduction

IAP6030E is a next-generation Wi-Fi 6 dual-band indoor access point and designed to meet rapidly rising demand for high capacity and bandwidth in indoor applications. Compliant with IEEE 802.11a/b/g/n/ac/ax standards, IAP6030E supports technologies such as OFDMA, MU-MIMO, TWT, and BSS coloring, providing a maximum bandwidth of 2.975 Gbps.

IAP6030E supports standalone mode, AC management mode, and cloud management mode. IAP6030E delivers outstanding performance even in dense indoor deployment scenarios such as schools, hotels, stations, and airports.

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.
- Provides up to 2.975 Gbps bandwidth (2.4 Gbps in the 5GHz band and 0.575 Gbps in the 2.4GHz band).

Robust security

- Supports PPSK for multi-password authentication and encryption.
- Supports MAC authentication, 802.1X authentication, Web authentication, and transparent authentication
- Supports WPA3 256-bit encryption.
- Supports VPN tunnel technologies such as IPSEC, SoftGRE, and CAPWAP.
- Supports WLAN DOS attack detection and protection, as well as suppression of wireless broadcast messages.
- Supports terminal isolation based on SSIDs, APs, and VLANs.

Intelligent Wi-Fi access point

- Works with the O&M platform to serve as a local Portal gateway, capable of managing 1 to 16 conventional APs.
- Enables local Portal authentication and customized Portal advertisement push on the web page.
- Provides various local data collection and statistical analysis services.
- Supports end-user network behavior management, recognition of mainstream domestic apps, and network behavior management and control based on SSID.

Smart Link connectivity 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.

Energy saving

- Power consumption is lower than 20W.
- Allows users to configure a timed shutdown policy for radio modules.

Effortless deployment and simplified O&M

- Supports PoE+ (802.3at) and local power options.
- Offers ceiling or wall-mounted installation options.
- Facilitates remote management via Telnet or SSH and automatic configuration retrieval from the cloud platform.
- Enables intelligent, visualized, and remote O&M, cloud diagnosis, fault alarms, and level-based and domain-based management.
- Supports centralized and local forward mode.

Feature-rich AP with centralized optimization and management

- Supports flexible operation modes including routing mode, Portal gateway mode, and bridge mode.
- Offers innovative AP functions, such as PPPoE, NAT, DHCP Server/Client, and wireless SSID and encryption settings.
- Supports up to 32 SSIDs and allows for setting parameters and security policies for each SSID individually.

Product Specification

Hardware specification	
Item	Parameter description
Port	<ul style="list-style-type: none"> 1 x 1/2.5 Gbps Ethernet (PoE port) 1 x 1 Gbps Ethernet port 1 x 1 Console port
Reset button	<ul style="list-style-type: none"> 1 x Reset button
Power supply	<ul style="list-style-type: none"> PoE+ (802.3at) DC, 12V 1.5A
Antenna	<ul style="list-style-type: none"> Internal antenna 3 dBi gain in 2.4 Ghz band 4 dBi gain in 5 Ghz band
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"> 2.4 GHz: 20 dBm per chain 5 GHz: 23 dBm per chain
Modulation technique	<ul style="list-style-type: none"> IEEE 802.11b: DSSS (DBPSK, DQPSK, CCK) IEEE 802.11g/a: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) IEEE 802.11n/ac: 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: 11/5.5/2/1Mbps IEEE 802.11g/a: 54/48/36/24/18/12/9/6Mbps IEEE 802.11n: 20 MHz: 6.5~144.4 Mbps 40 MHz: 13.5~400 Mbps IEEE 802.11ac: 20 MHz: 6.5~346.8 Mbps 40 MHz: 13.5~800 Mbps 80 MHz: 29.3~1733 Mbps IEEE 802.11ax: 20MHz: 7.3 Mbps~573.5 Mbps 40MHz: 14.6 Mbps~1147.1 Mbps 80MHz: 30.6 Mbps~2402 Mbps 160MHz: 61.3 Mbps~2402 Mbps
Indicator	<ul style="list-style-type: none"> 1 x full color LED
Power consumption	<ul style="list-style-type: none"> 20 W
Dimensions	<ul style="list-style-type: none"> 7.09" x 7.09" x 1.54" (180 mm x 180 mm x 39 mm)
Weight	<ul style="list-style-type: none"> 1 lbs (0.453 kg)
Operating temperature	<ul style="list-style-type: none"> +32° F to +122° F (0° C to +50° C)
Storage temperature	<ul style="list-style-type: none"> -22° F to +158° F (-30° C to +70° C)
Relative humidity	<ul style="list-style-type: none"> 10%~95% noncondensing

Software specification	
Item	Parameter description
Max SSIDs	<ul style="list-style-type: none"> 32
Max concurrent users	<ul style="list-style-type: none"> 512
802.11n/ac/ax	<ul style="list-style-type: none"> Automatic channel scanning 20 MHz/40 MHz/80 MHz channel bandwidth A-MPDU, A-MSDU Dynamic frequency selection (DFS) Transmit power control (TPC) Unscheduled automatic power save delivery (U-APSD)
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"> WEP 64/128 WPA/WPA2-PSK-TKIP WPA/WPA2-PSK-CCMP WPA/WPA2-802.1X-TKIP WPA/WPA2-802.1X-CCMP WPA/WPA2-PPSK WPA3-ASE, WPA2/WPA3, WPA3-802.1X WAPI-PSK/CA MAC, Portal, Transparent Authentication and Dot1x Authentication (EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-SIM/AKA, EAP-FAST)
Local AP functions	<ul style="list-style-type: none"> PPPoE Client, NAT, DHCP Server, DHCP Client Configuration of local SSID, encryption and shared keys
QoS	<ul style="list-style-type: none"> Rate limitation based on STAs, SSIDs, and APs Maximum concurrent user limitation based on SSIDs Radius bandwidth property delivery voice QoS
Management	<ul style="list-style-type: none"> Cloud platform management APP management Network management and control: Telnet/SSH/CAPWAP Remote upgrades through FTP NTP, FTP/TFTP, local CLI command reference, local Web (Web pages can be opened and closed locally or remotely.)
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.