



IAP5013-O

Wi-Fi 5 (802.11ac Wave 2) Outdoor Dual-band Wireless Access Point

Product Introduction

IAP5013-O is a high-performance, dual-band outdoor wireless access point, designed to meet the rapidly rising demand for high capacity and bandwidth in outdoor applications. Compliant with IEEE 802.11a/b/g/n/ac standards and supporting MU-MIMO and 2x2 MIMO, IAP5013-O provides a maximum bandwidth of 1.267 Gbps.

IAP5013-O is designed with an IP68-rated enclosure, high-performance external antennas, and an internal heating module for deployment in harsh environments, such as transit centers, malls, corporate campuses, stadiums, as well as industrial environments like mining and oil & gas applications.

Product Feature

Intelligent Wi-Fi AP

- Works with the O&M platform to serve as a local Portal gateway, capable of managing 1~32 ceiling APs or 1~64 panel type APs.
- Enables local Portal authentication and customized Portal ads to 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.
- Supports IPsec VPN access for enterprise VPN

High-performance Wi-Fi AP

- Complies with IEEE 802.11a/b/g/n/ac standards and 802.11ac Wave 2
- Provides up to 1.267 Gbps bandwidth (400 Mbps in the 2.4 GHz band; 867 Mbps in the 5 GHz band)

Robust security

- Supports 802.1x, MAC-based, Web-based, and transparent authentication mechanisms
- Allows use of SMS, Facebook® or WeChat® to complete authentication
- Supports WLAN DOS attack detection and protection, as well as radio broadcast message suppression
- Supports user isolation based on SSID, AP, or VLAN
- Supports for up to 32 SSIDs
- User parameters and security policies can be assigned for each 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

Feature-rich AP with centralized optimization and management

- Supports innovative AP functions, such as PPPoE, Network Address Translation, and DHCP server/client, wireless SSID and encryption settings
- Zero-touch join and configuration

Easy to deploy in outdoor applications

- With the highest level of dustproof and waterproof (that is IP68), the device is adaptable to harsh environments
- Supports PoE and built-in high-performance antennas (maximum 8 dBi gain at 2.4 GHz and 10 dBi at 5 GHz)
- Supports pole or bracket mounting
- Supports deployment in (-30°C to +65°C) extreme high or low temperature outdoor environment
- Supports centralized forward mode and local forward mode
- Supports 1 Gigabit SFP port and fiber access is available for ultra-long-haul outdoor wiring

Product Specification

Hardware specification		Software specification	
Item	Parameter description	Item	Parameter description
Port	<ul style="list-style-type: none"> 1 x GE WAN port 1 x SFP port 1 x Console port 	Max SSIDs	<ul style="list-style-type: none"> 32
Power supply	<ul style="list-style-type: none"> 802.3at (PoE) 	Max concurrent users	<ul style="list-style-type: none"> 256
Antenna	<ul style="list-style-type: none"> Internal antenna: 2.4 GHz: 8 dBi gain 5 GHz: 10 dBi gain 	802.11n/ac	<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)
Operating frequency	<ul style="list-style-type: none"> 802.11a/n/ac: 5.150~5.850 GHz 802.11b/g/n: 2.40~2.4835 GHz 	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 WAPI-PSK/CA MAC, Portal, Transparent Authentication and Dot1x Authentication (EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-SIM/AKA, EAP-FAST)
Spatial streams	<ul style="list-style-type: none"> 2.4G: 2x2 MIMO 5G: 2x2 MU-MIMO 	Local AP functions	<ul style="list-style-type: none"> PPPoE Client, NAT, DHCP Server, DHCP Client Configuration of local SSID, encryption and shared keys
Max transmit power	<ul style="list-style-type: none"> 27 dBm (24 dBm per chain) 	QoS	<ul style="list-style-type: none"> Rate-limiting based on STA/SSID/AP Maximum concurrent user limiting based on SSID Radius bandwidth property delivery Voice QoS
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) 	Management	<ul style="list-style-type: none"> Platform-based and APP-based management Remote management: Telnet, SSH, CAPWAP Network management and control: CAPWAP Remote upgrades through FTP Batch upgrades through multi-service gateway
Data rates	<ul style="list-style-type: none"> IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: 20 MHz: 6.5~144.4 Mbps 40 MHz: 13.5~400 Mbps IEEE 802.11a: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11ac: 20 MHz: 6.5~173.3 Mbps 40 MHz: 13.5~400 Mbps 80 MHz: 29.3~867 Mbps 	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.
Indicator	<ul style="list-style-type: none"> 1 x POWER indicator 1 x WAN indicator 1 x SFP indicator 1 x 5G WLAN indicator 1 x 2.4G WLAN indicator 		
Power consumption	<ul style="list-style-type: none"> 25W 		
Dimensions	<ul style="list-style-type: none"> 9.41" x 7.68" x 3.35" (239 mm x 195 mm x 83 mm) 		
Weight	<ul style="list-style-type: none"> 3.31 lbs (1.50 kg) 		
Operating temperature	<ul style="list-style-type: none"> -22° F to +149° F (-30° C to +65° C) 		
Storage temperature	<ul style="list-style-type: none"> -40° F to +185° F (-40° C to +85° C) 		
Relative humidity	<ul style="list-style-type: none"> 0~95% noncondensing 		
Ingress protection ratings	<ul style="list-style-type: none"> IP68 		