Maipu IAP300-815-PE Wall Mount Wi-Fi6 AP

Datasheet

Overview

Maipu IAP300 series access point is brand new series based on Wi-Fi6 technology. IAP300-815-PE is a highperformance entry level Wi-Fi6 AP for indoor room Wi-Fi coverage scenarios. It supports PoE power supply. Compliant with 802.11a/b/g/n/ac/ax Wi-Fi protocol, IAP300-815-PE supports MU-MIMO dual-stream technology and offers built-in omnidirectional antennas. It can operate under 2.4GHz and 5GHz frequency, providing high-speed wireless access up to 1775Mbps bandwidth. It is wall mounted design for room wireless coverage. It is an ideal choice for many wireless scenarios, such as hotels, resorts, branch offices, chain stores, schools, etc.



IAP300-815-PE

Highlight Features

- Support 802.11ax MU-MIMO Technology
- Central Managed by IGW500 Internet Gateway
- Seamless Layer2 Roaming Supported
- Self-Provisioning Networking Supported
- Lifetime Free Maipu MMC Cloud Management

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Key Features

• High-speed Gigabit dual-band wireless

The device supports 2.4GHz and 5GHz dual-band concurrent communication. The 2.4GHz and 5GHz bands adopt a new generation of Wi-Fi wireless standard 802.11ax, providing 2.4GHz 574mbps and 5GHz 1201mbps. The highest access rate of the whole device is 1775Mbps. Compared with the traditional 802.11ac wireless mode, the throughput is significantly improved, bringing a real gigabit high-speed extreme experience.

• Intelligent AP management technology, AP zero configuration, plug and play

In the fit AP application mode, the zero-configuration fit AP can be found and automatically connected to the IGW500 series converged internet gateway through the L2/L3 network. The converged gateway can configure, operate and manage the fit AP. IGW500 converged gateway supports rich L2/L3 functions, and forms the management and monitoring of fit AP through the networks.

• Support uplink and downlink MU-MIMO, and the wireless effective capacity exceeds 100

IAP300-815-PE supports MU-MIMO (multi-user multi-input multi-output), realize concurrent transmission of multiple Wi-Fi users, double the wireless effective capacity, and easily deal with high-density scenes. The wired adopts two gigabit ethernet interfaces for uplink, without the bottleneck of wireless bandwidth.

5GHz has more abundant bandwidth resources and less wireless interference. 802.11ax protocol adopts the latest modulation technology to greatly improve the wireless rate. Compared with traditional device, it has higher speed and larger capacity. At the same time, it realizes the effects of intelligent load and 5GHz prior, improves the utilization of 5GHz band, and improves the total capacity.

• Unique antenna signal optimization algorithm, improving AP signal coverage

The unique antenna signal optimization algorithm is adopted to make IAP300-815-PE signal have wide coverage and strong penetration ability. In the standard scenario, a single AP can cover more than 25 meters reducing customers' investment in hardware equipment.

• SSID + VLAN binding, ensuring information security

IAP300-815-PE supports transmitting four SSIDs at the same time. By setting different passwords for each SSID, dividing individual VLAN ID and assigning different network segments, it is easy to realize the effect that different wirelesses (SSID) transmit different services. By this way, sensitive information can be safely isolated internally.

• One-key network optimization, improving the maintenance efficiency

IAP300-815-PE support one-key network auto channel optimization function. This will greatly improve the maintenance efficiency and reduce the troubleshooting cost.

• Green design and energy saving

IAP300-815-PE adopts professional green environmental protection and low power consumption design. The device has low calorific value and supports standard PoE power supply mode. It can be powered by Maipu PoE switch, and the PoE distance can reach around 100m.

Technical Specifications

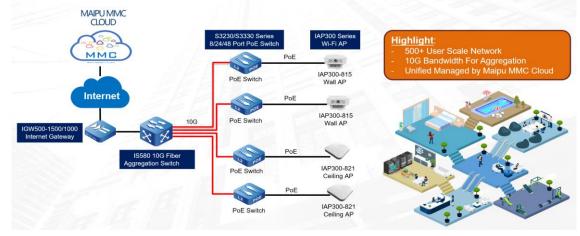
AP Remote Controlof the AP, restart the AP manually, restart the AP regularly, and turn of off the breathing lampAP Status ReportTraffic statistics, RF parameters, memory/CPU information, STA inform STA ManagementSTA Management5GHz prior, 2.4G/5GHz load balancing, based on user load, based on to load balancing, L2 roamingPortal AuthenticationLocal Portal, External Portal, Portal whitelist, MAC Portal, Portal URL Redirection, Portal authentication free, Portal no-sense authentication	Product Model	IAP300-815-PE	
PoE Power supply Support 802.3af (LAN1) RF standard Support IEEE 802.11a/b/g/n/ac/ax MU-MIMO 2T2R MIMO (2*2:2) RF transmission speed RF transmission speed 1775Mbps (2.4GHz 2*2: 574Mbps, 5GHz 2*2: 1201Mbps) RF working bandwidth 802.11ax: HT80 802.11ax: HT80, HT40, HT20 802.11ax: HT80, HT40, HT20 RF transmission power (max.) 2.4G:14dbm+/-1.5db@1Mbps 5G:14dbm+/-1.5db@1Mbps 5G:14dbm+/-1.5db@1Mbps Protection IP40 Overall power consumption <13W Working temperature 0-45°C Working humidity 10%~90%/RH, non-condensing Altitude ≤5000m Overall dimension (L * W * H) 86mm*86mm*54mm Software specification (Collaborating with IGW500 Internet Gateway) Recommend connection devices 128 Multiple SSIDs 4*SSID AP Working Mode Fit Mode (Controlled by IGW500 Internet Gateway) Security OPEN, WPA-PSK, WPA2-PSK AC Auto Discovery DHCP Option43, DHCP Option52, CAPWAP Broadcast AP Remote Control Force offline, limit the number of access users, restore the factory set of the AP, restart the AP manually, restart the AP regularly, and turn of the here	ardware Specification		
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Redirection, Portal authentication free, Portal no-sense authentication	STA Management	5GHz prior, 2.4G/5GHz load balancing, based on user load, based on traffic load balancing, L2 roaming	
	Portal Authentication	Local Portal, External Portal, Portal whitelist, MAC Portal, Portal URL Redirection, Portal authentication free, Portal no-sense authentication	
Anti-Flood Attack Detection TCP Flood, UDP Flood, ICMP Flood, TCP Sync Flood, ARP Flood, Beacc Flood, etc.	Anti-Flood Attack Detection	TCP Flood, UDP Flood, ICMP Flood, TCP Sync Flood, ARP Flood, Beacon Flood, etc.	
	Wireless QoS	AP Rate Limitation, BSS Total Bandwidth Limitation, BSS User Bandwidth Limitation, BSS Minimum Bandwidth Guarantee, BSS priority mapping	
Wireless ACL AP ACL, BYOD ACL, Time-Based ACL	Wireless ACL	AP ACL, BYOD ACL, Time-Based ACL	
Management Access Controller Central Management, Cloud Management	Management	Access Controller Central Management, Cloud Management	

Order Information

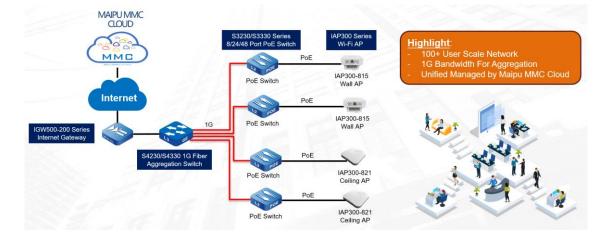
Model	Description	
IAP300 Series Wi-Fi6 Access Point		
IAP300-815-PE	IAP300-815-PE, wall mount Wi-Fi6 802.11a/b/g/n/ac/ax, Dual frequency band, dual mode, forwarding performance of the whole device 1775Mbps, 2:2 MIMO, inbuilt antennas, PoE power input, 2*1000M RJ45 interface	

Application Scenario

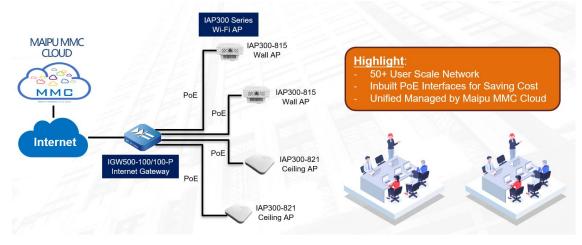
Scenario One: Medium-Sized Networking



Scenario Two: Branch Office Networking



Scenario Three: Small Office Networking



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Maipu Communication Technology Co., Ltd No.16, Jiuxing avenue Hi-Tech Zone Chengdu, Sichuan Province P. R. China 610041 Tel: (86) 28-65544850, Fax: (86) 28-65544948, URL: http:// www.maipu.com Email: overseas@maipu.com

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