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IAP300-815-PE AX1800 Wall Mounted AP

Highlight Features

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



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Key Features

High-speed Gigabit dual-band wireless

The IAP300-815-PE 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 AP, 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 802.11k/v protocols for enhanced WiFi roaming

The IAP300-815-PE supports intelligent fast roaming technology, significantly improving user experience when mobile clients move between APs. By optimizing the switching process between APs and utilizing techniques like PMK Caching, it ensures seamless mobility and smooth roaming. This enhancement is crucial for maintaining service continuity and reliability, especially for latency-sensitive applications running over the WLAN.

Compared to basic roaming solutions, this fast roaming technology provides quicker AP switching, reduced packet loss, and a smoother experience for roaming clients. This is essential for mobility-enabled WLAN applications.

• Support MU-MIMO, higher capacity

The 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. A single AP can cover 25-50 meters based on different environment scenarios which can reduce customers' investment in hardware equipment.

• SSID + VLAN binding, ensuring information security

The IAP300-815-PE supports transmitting 16 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

The 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

The IAP300-815-PE adopts professional green environmental protection and low power consumption design. The device has low calorific value and supports green AP mode. It also supports U-APSD that allows devices to enter a low-power sleep mode when not actively transmitting data while ensuring they remain reachable.

Technical Specifications

Product Model	IAP300-815-PE	IAP300-815-PE
Version	٧2	V3
Interface Specification		
Service Port	1*10/100/1000M Base-T adaptive Ethernet Port, 802.3af PoE (LAN0) 1*10/100/1000M Base-T adaptive Ethernet Port (LAN1)	1*10/100/1000M Base-T adaptive Ethernet Port, 802.3af PoE (LAN0) 4*10/100/1000M Base-T adaptive Ethernet Port (LAN1-LAN4)
Power Interface	N/A	1* 12VDC (Nominal, +/- 5%)
Indicators	1* Green LED (For System and Radio status)	
Other Port	1* Reset Button (Factory reset)	
Environment Specification		
Working Temperature	0°C to +45°C	
Working Humidity	10% to 90% non-condensing	
Storage Temperature	-40°C to +70°C	
Storage Humidity	5% to 95% non-condensing	
IP Rating	IP41	
Weight	0.22kg	0.3 kg
Dimension (W*D*H) mm	86*86*54	162*86*44.5
Hardware Specification		
Installation Mode	Wall Mounting	
Power Supply	PoE Standard: IEEE 802.3af / 802.3at	Adapter: DC 12 V/1.5 A (optional) PoE Standard: IEEE 802.3af / 802.3at
Power Consumption	<10W	<12W
Wireless Specification		
RF Design	Dual-radio design, one 2.4 GHz radio and one - Radio1: 2.4 GHz, 2 streams: 2*2 - Radio2: 5 GHz, 2 streams: 2*2	5 GHz radio
Operating Bands	- Radio1: 2.400 to 2.4835GHz - Radio2: 5.150–5.350GHz, 5.47–5.725GHz, 5.725–5.850)GHz
Transmission Rate	 - 802.11b: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps - 802.11a/g: 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps - 802.11a: 6.5Mbps-300Mbps (MCS0-MCS31, HT20-HT40), 400Mbps with 256-QAM - 802.11ac: 6.5Mbps-866Mbps (MCS0-MCS9, NSS=1-2, VHT20-VHT160) - 802.11ax (2.4GHz): 8.6Mbps-574Mbps (MCS0-MCS11, NSS=1-2, HE20-HE40) - 802.11ax (5GHz): 8.6Mbps-1,202Mbps (MCS0-MCS11, NSS = 1-2, HE20-HE80) 	
Antenna	Internal 4 Antennas	
Antenna Gain	2.4 GHz: 4.0dBi	
	5 GHz: 4.0dBi	
Transmit Power	2.4 GHz: +16 dBm	2.4 GHz: +20 dBm
	5 GHz: +16 dBm	5 GHz: +20 dBm
	The actual transmit power complies with the regulatory requirements for radio frequency emissions in various countries and regions	

Transmit Power Adjustment	1 dBm	
Modulation Mode	- 802.11b: BPSK, QPSK, CCK - 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM - 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM - 802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM	
Modulation and Encoding	 Low Density Parity Check (LDPC) Maximum Likelihood Detection (MLD) Beamforming 	
Advanced RF Features	 Channel Rate Adjustment, include TPC (Transmit Power Control) ACS (Automatic Channel Scanning) 	
Fast Roaming	- 802.11 K/V, PMK Caching	
Rate Limitation	- Based On SSIDs - Based On Users	
Load Balancing	- Based On Users	
Software Specification	i de la companya de l	
WIFI Standards	- IEEE 802.11a/b/g/n/ac/ax	
SSID Numbers	16*SSIDs (2.4GHZ+5GHZ)	
Channelization	20, 40, 80 MHz	
STA Capacity	256	
Recommend Users	80-120	
Working Mode	FIT/FAT Mode	
Network Features	PPPoE Client, DHCP Server/Client, Static IP, DNS Proxy, Bridge, NAT (Note: FAT Working Mode)	
Security Type	Open, PSK, WPA-Personal, WPA-Enterprise, WPA2-Personal, WPA2-Enterprise, WPA3- Personal, WPA3-Enterprise, Portal, 802.1X, Radius	
Working Bandwidth	- 802.11ax: HE80, HE40, HE20 - 802.11ac: VHT80, VHT40, VHT20 - 802.11n: HT40, HT20	
Data Rate	- Radio1: 2.4 GHz, 574 Mbps - Radio2: 5 GHz, 1201 Mbps - Combined: 1.775 Gbps	
MIMO Technologies	 Multi-User Multiple Input Multiple Output (MU-MIMO) Maximum Ratio Combining (MRC) Space-Time Block Coding (STBC) Cyclic Delay/Cyclic Shift Diversity (CDD/CSD) Dynamic MIMO power saving 	
Energy Saving	- U-APSD - Green AP mode	
Advanced WIFI Features	 Orthogonal Frequency Division Multiple Access (OFDMA) Short GI (Short Guard Interval) DFS (Dynamic Frequency Selection) Spectrum Navigation 	

Order Information

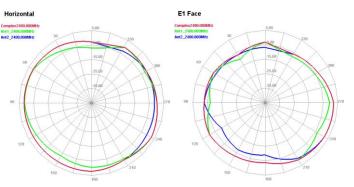
Model	Description	
IAP300 Series AX1800 Access Point		
IAP300-815-PE	V2 Version: Wall mount AX1800 802.11a/b/g/n/ac/ax, Dual frequency band, dual mode, forwarding performance of the whole device 1775Mbps, 2:2 MU-MIMO, inbuilt antennas, PoE	

	power input, 1*1000M LAN Port (PoE), 1*1000M LAN Port. (installation accessory included)
IAP300-815-PE	V3 Version: Wall mount AX1800 802.11a/b/g/n/ac/ax, Dual frequency band, dual mode, forwarding performance of the whole device 1775Mbps, 2:2 MU-MIMO, inbuilt antennas, PoE power input, 1*1000M LAN Port (PoE), 4*1000M LAN Port. (installation accessory included)

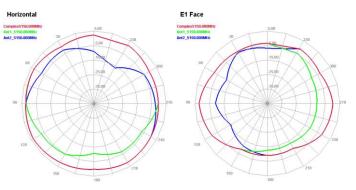
Antenna Patterns

IAP300-815-PE (V2)

• 2.4GHz Wi-Fi (Antennas 1,2)

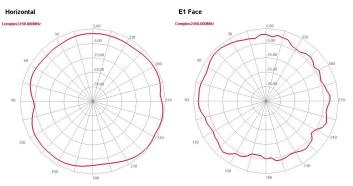


• 5GHz Wi-Fi (Antennas 1,2)

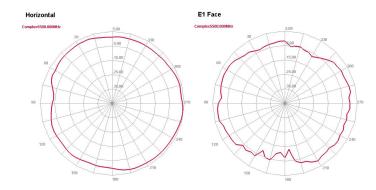


IAP300-815-PE (V3)

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2.4GHz Wi-Fi (Antennas 1,2)
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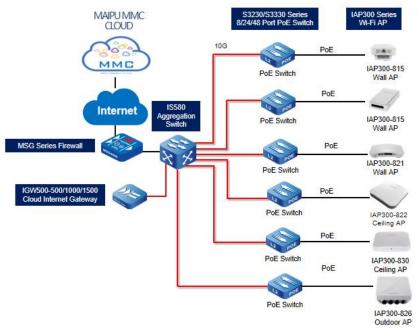


• 5GHz Wi-Fi (Antennas 1,2)



Application Scenario

Scenario One: Medium-Sized Networking

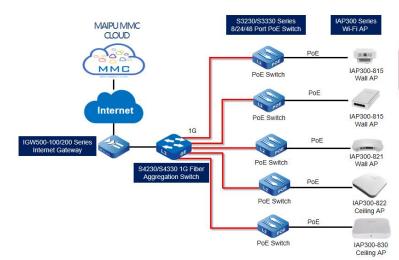


Highlight:

- 500+ User Scale Network
- 10G Bandwidth For Aggregation Unified Managed by Maipu MMC Cloud



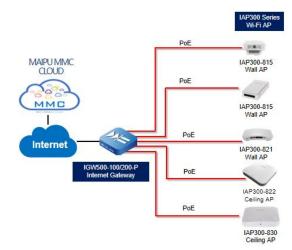
Scenario Two: Branch Networking



Highlight:

- 100+ User Scale Network 1G Bandwidth For Aggregation Unified Managed by Maipu MMC Cloud

Scenario Three: Small Office Networking





- Highlight: 50+ User Scale Network Inbuilt PoE Interfaces for Saving Cost Unified Managed by Malpu MMC Cloud



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