MAIPU

IAP180-825-PE

AX3000 Wall Mounted AP

Highlight Features

- Support 802.11ax MU-MIMO 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 IAP180-825-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 2402mbps. The highest access rate of the whole device is 2976Mbps. 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 MU-MIMO, higher capacity**

The IAP180-825-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.

- **SSID + VLAN binding, ensuring information security**

The IAP180-825-PE supports transmitting 8 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.

Technical Specifications

Product Model	IAP180-825-PE
Version	V2
Interface Specification	
Service Port	1*10/100/1000Mbps Base-T adaptive Ethernet Port, 802.3af PoE 1*10/100/1000Mbps Base-T adaptive Ethernet Port
Indicators	1*Green LED (For System and Radio status)
Reset Button	1*Rest Button (Factory reset; WPS)
Environment Specification	
Working Temperature	0℃ to +40℃
Working Humidity	10% to 90% non-condensing
Storage Temperature	-40℃ to +70℃
Storage Humidity	5% to 95% non-condensing
IP Rating	IP41
Weight	0.15 kg
Dimension(W*D*H) mm	86*86*38
Hardware Specification	
Installation Mode	Wall Mounted
Power Supply	PoE Standard: IEEE 802.3af
Power Consumption	<12W (without USB output)
Wireless Specification	
RF Design	Dual-band design: - Radio1: 2.4GHz, 2 streams: 2*2 - Radio2: 5GHz, 2 streams: 2*2
Operating Bands	- Radio1: 2.400-2.4835GHz - Radio2: 5.150–5.350GHz, 5.47–5.725GHz, 5.725–5.850GHz
Transmission Rate	- 802.11b: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps - 802.11a/g: 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps - 802.11n: 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-2,402Mbps (MCS0-MCS11, NSS = 1-2, HE20-HE160)
Antenna	Internal 4 Antennas
Antenna Gain	2.4GHz: 2.0dBi 5GHz: 2.0dBi
Transmit Power	2.4GHz: +23dBm 5GHz: +23dBm 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

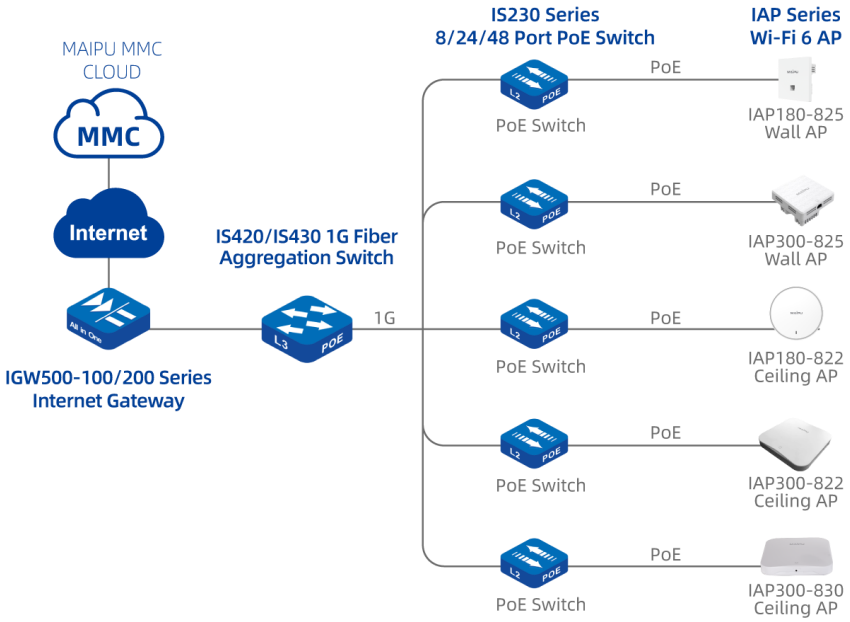
	- 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM - 802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM
Modulation and Encoding	- Low Density Parity Check (LDPC) - Maximum Likelihood Detection (MLD)
Rate Limitation	- Based On SSIDs - Based On Users
Software Specification	
WIFI Standards	IEEE 802.11a/b/g/n/ac/ax
SSID Numbers	8*SSIDs (2.4GHZ+5GHZ)
Channelization	20, 40, 80, 160 MHz
STA Capacity	256
Recommend Users	50-80
Working Mode	FIT Mode
Security Type	Open, PSK, WPA-Personal, WPA2-Personal, WPA3-Personal, Portal
Working Bandwidth	- 802.11ax: HE160, HE80, HE40, HE20 - 802.11ac: VHT160, VHT80, VHT40, VHT20 - 802.11n: HT40, HT20
Data Rate	- Radio1: 2.4GHz, 575Mbps - Radio2: 5GHz, 2.402Gbps
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)

Order Information

Model	Description
IAP180 Series AX3000 Access Point	
IAP180-825-PE	V2 Version:IAP300-825-PE, wall mount Wi-Fi6 802.11b/g/n/ac/ax, Dual frequency, Dual mode, forwarding performance of the whole device 3Gbps, 2:2*2 MIMO, 100mW AP, inbuilt antennas, PoE power supply mode, 2*1000M Interfaces

Application Scenario

Scenario One: Branch Networking



100+

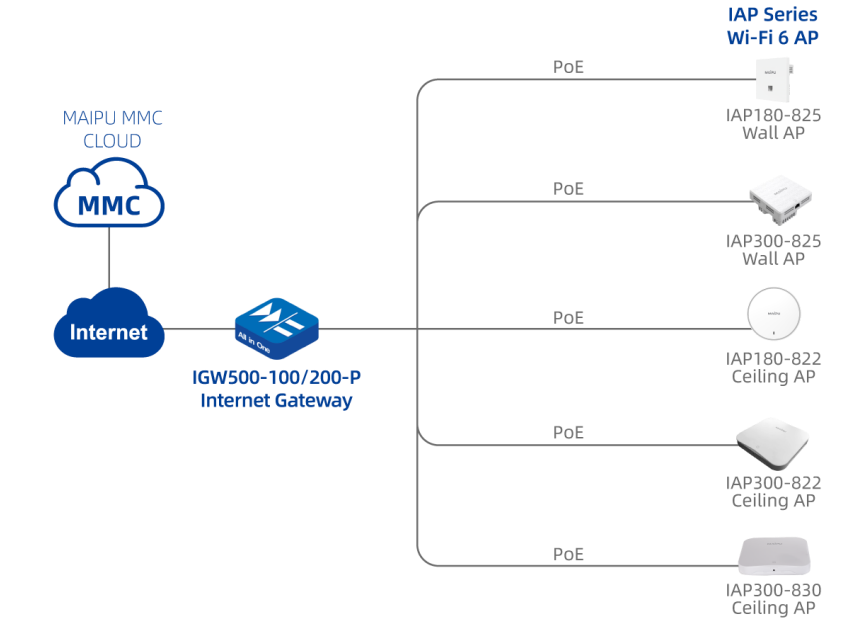
100+ User Scale Network

1G Bandwidth for Aggregation

MMC

Unified Managed by Maipu MMC Cloud

Scenario Two: Small Office Networking



50+

50+ User Scale Network

Inbuilt PoE Interfaces for Saving Cost

MMC

Unified Managed by Maipu MMC Cloud

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