

IAP300-621-PE

AC1200 Ceiling Mounted AP

Highlight Features

- Support 802.11ac wave2 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



Maipu Communication Technology Co., Ltd Maipu Mansion, No.16, Jiuxing Avenue Hi-Tech Zone Chengdu, Sichuan Province P. R. China URL: http://www.maipu.com

Key Features

High-speed Gigabit dual-band wireless

The IAP300-621-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 802.11ac wave2, the highest access rate of the whole device is 1200Mbps. Compared with the traditional 802.11n 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 uplink and downlink MU-MIMO of higher capacity

IAP300-621-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. 802.11ac 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 IAP300-621-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

IAP300-621-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

IAP300-621-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

IAP300-621-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

Product Model	IAP300-621-PE
Version	V2
Interface Specification	
Service Port	1*10/100/1000M Base-T adaptive Ethernet Port, 802.3af PoE (LAN1) 1*10/100/1000M Base-T adaptive Ethernet Port (LAN0)
Power Interface	1*12VDC (Nominal, +/- 5%)
Indicators	1*Green LED (For System and Radio status)
Reset Button	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	IP40
Weight	0.4kg
Dimension (W*D*H) mm	180*180*31
Hardware Specification	
Installation Mode	Ceiling Mounting
Power Supply	Adapter: DC 12 V/1.5 A (optional) PoE: IEEE 802.3af/802.3at-compliant (compatible). When both DC and POE power sources are available, DC power takes priority over POE.
Power Consumption	<13W
Wireless Specification	
RF Design	Dual-radio design, one 2.4 GHz radio and one 5 GHz radio - Radio1: 2.4 GHz, 2 streams: 2*2 - Radio2: 5 GHz, 2 streams: 2*2
Operating Bands	- Radio1: 2.400 to 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-VHT80)
Antenna	Internal 4 Antennas
Antenna Gain	2.4 GHz: 4.0dBi 5 GHz: 4.0dBi
Transmit Power	2.4 GHz: +20 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

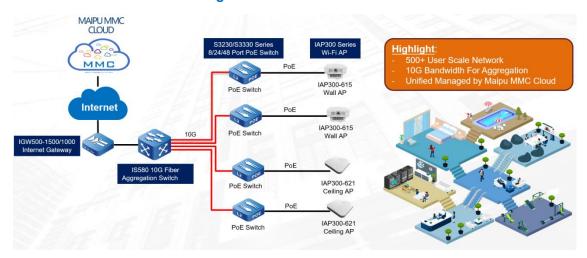
	- 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
Modulation and Encoding	Low Density Parity Check (LDPC)Maximum Likelihood Detection (MLD)Beamforming
Advanced RF Features	- Channel Rate Adjustment, include TPC (Transmit Power Control) - ACS (Automatic Channel Scanning)
Fast Roaming	- 802.11 K/V/R
Rate Limitation	- Based On SSIDs - Based On Users
Load Balancing	- Based On Users
Software Specification	
WIFI Standards	- IEEE 802.11a/b/g/n/ac
SSID Numbers	16*SSIDs (2.4GHZ+5GHZ)
Channelization	20, 40, 80 MHz
STA Capacity	256
Recommend Users	60-100
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	- 802.11ac: VHT80, VHT40, VHT20 - 802.11n: HT40, HT20
Data Rate	- Radio1: 2.4 GHz, 300 Mbps - Radio2: 5 GHz, 867 Mbps - Combined: 1.167 Gbps
MIMO Technologies	 - Wave2 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
Advanced WIFI Features	- Short GI (Short Guard Interval) - DFS (Dynamic Frequency Selection) - Spectrum Navigation

Order Information

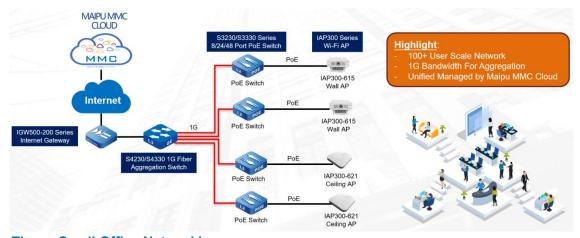
Model	Description	
IAP300 Series AC1200 Access Point		
IAP300-621-PE	IAP300-621-PE, AC1200 ceiling mount Wi-Fi5 802.11a/b/g/n/ac wave2, Dual frequency band, dual mode, forwarding performance of the whole device 1200Mbps, 2:2 MIMO, inbuilt antennas, PoE power input, 2*1000M RJ45 interface	

Application Scenario

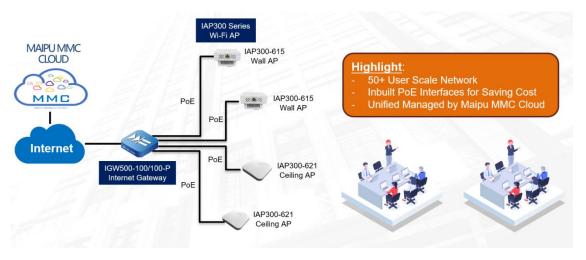
Scenario One: Medium-Sized Networking



Scenario Two: Branch Networking



Scenario Three: Small Office Networking





All rights reserved. Printed in the People's Republic of China.

No part of this document may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, electronic, mechanical, magnetic, optical, chemical, manual or otherwise without the prior written consent of Maipu Communication Technology Co., Ltd.

Maipu makes no representations or warranties with respect to this document contents and specifically disclaims any implied warranties of merchantability or fitness for any specific purpose. Further, Maipu reserves the right to revise this document and to make changes from time to time in its content without being obligated to notify any person of such revisions or changes.

Maipu values and appreciates comments you may have concerning our products or this document. Please address comments to:

Maipu Communication Technology Co., Ltd Maipu Mansion, No.16, Jiuxing Avenue Hi-Tech Zone Chengdu, Sichuan Province P. R. China 610041 Tel: (86) 28-65544850

Tel: (86) 28-65544850, Fax: (86) 28-65544948, URL: http://www.maipu.com Email: overseas@maipu.com

All other products or services mentioned herein may be registered trademarks, trademarks, or service marks of their respective manufacturers, companies, or organizations.





FACEBOOK

LINKEDIN