

IGW500-100 Series Internet Gateway

Datasheet

Overview

IGW500-100 series is a multi-service internet gateway developed by Maipu Communication Technology Co., Ltd. It has powerful functions which integrated intelligent routing, PoE switch, wireless control, accurate flow control, anti-attack, Internet behavior management, IPSec VPN and local portal authentication features in one box, and supports docking with Maipu cloud platform to realize remote operation and maintenance and centralized management. It well meets the comprehensive customer requirements such as office, hotel, restaurant, entertainment, chain store and other scenarios.

The converged internet gateway can centrally manage Fit AP and wireless client, providing rich service types. The new-generation IGW500-100 series internet gateway has the advantages of high-performance, full-integrated, high-service integration, high-reliability and high-security, and fully meets the needs of customers in various industries for the complete integration of wired and wireless networks. The unified management of IGW500 makes the WLAN network easy to manage and maintain to meet the deployment needs of various services.

IGW500-100 series internet gateway has rich software features, which can provide wireless users with load balancing, auto fault recovery, intelligent RF management, fast roaming and other functions. In addition, the web configuration interface can be used for convenient configuration and deployment without the complex operation of the traditional command line. The maintenance personnel can complete the configuration in only few minutes.



IGW500-100



IGW500-100-P

Key Features

- **All-in-one integrated gateway, helping customers save investment**

It integrates the functions of router, PoE switch, VPN, AC wireless controller, behavior management, basic firewall and local authentication. Multiple devices are integrated into one device, greatly reducing the workload of operation and maintenance, realizing rapid fault location and simplifying the difficulty of management. One device can create a set of solutions and reduce the investment cost.

- **Wireless user authentication**

The built-in web portal service provides local authentication services and can quickly and easily build security wireless network. It can also be connected to an external portal server to easily realize a variety of authentication types including Portal, PSK and OPEN methods.

- **Friendly web configuration wizard, which can be learned in only few minutes**

It provides a highly user-friendly web configuration interface and configuration wizard to help network administrators complete the device configuration and maintenance with the highest efficiency, which can be easily done with a little work.

- **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 converged internet gateway through the L2/L3 network. The converged gateway can configure, operate and manage the fit AP. It supports rich L2/L3 functions, and forms the management and monitoring of fit AP through the networks.

- **Intelligent auto roaming technology does not require terminal re-authentication**

When wireless users roam in the network, through the sharing of users' IP, authentication, authorization and other information, users can span the whole wireless network, effectively ensure users' mobility and security, keep the status of IP, authentication and authorization unchanged, and users can enjoy fast data L2 roaming services.

- **Smooth network upgrade, protecting user investment**

It has extremely high MAC address capacity and hardware routing table capacity which can fully meet the networking requirements under various complex network environments. It can be deployed with gateway mode or bypass mode, users can realize seamless, safe and fast wireless network deployment on any existing L2 and L3 network without interrupting the operation of the current network, making the network easy to upgrade smoothly and taking into account the early investment.

- **Intelligent configuration management, reducing user maintenance and management**

Based on the advanced intelligent management and control concept, it can provide auto software upgrade and auto configuration distribution for its controlled APs, and support managing the converged gateway remotely via the cloud management platform, which greatly reduces the cost and difficulty of device deployment and network maintenance.

- **Rich wireless functions, smooth transition to Wi-Fi6 network**

The system provides more comprehensive wireless services: auto channel allocation, auto adjustment of AP transmission power, load flow balancing, fast roaming, pre authentication, etc. At the same time, users can flexibly configure QoS policies according to different applications to ensure the optimal operation of the network. The system supports the traditional AP access of 802.11a/b/g/n/ac/ax to provide users with higher bandwidth guarantee.

Technical Specifications

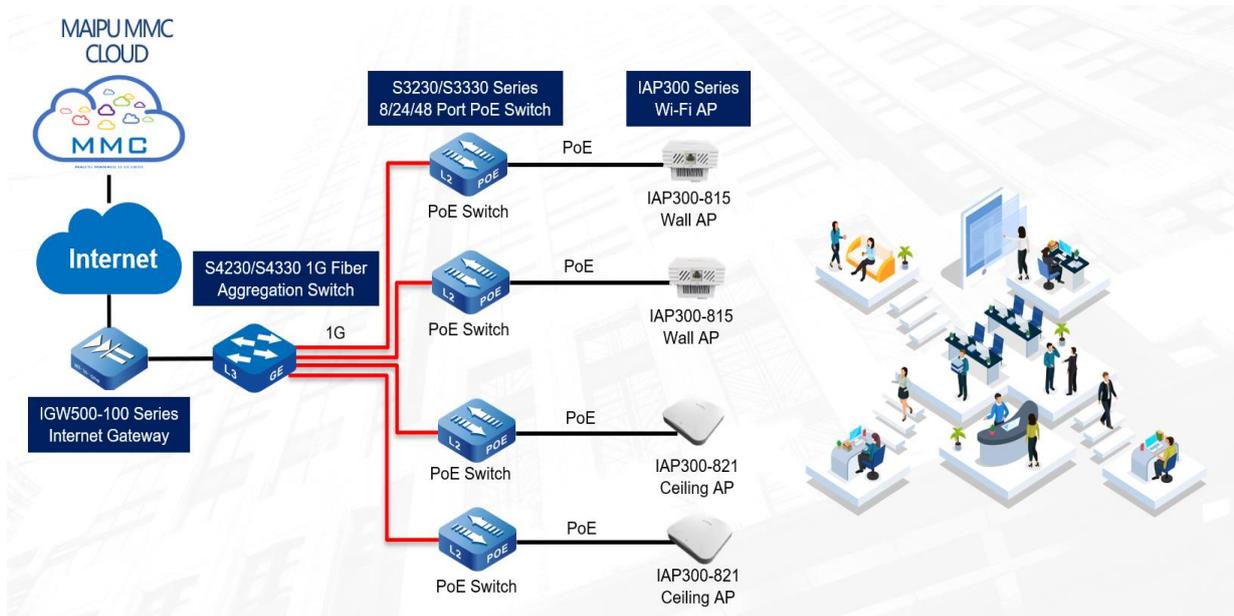
Hardware Specifications		
Model	IGW500-100	IGW500-100-P
Physical ports	5*GE RJ45	5*GE RJ45
PoE Enable	N/A	Including 4*PoE Port (60W)
Recommend managed APs	16-32*APs	16-32*APs
Power supply	AC Power Supply	External PoE Power Adaptor
Dimension (W×D×H)	440×208×44mm	190×100×28mm
Power lightning protection	6KV for both common mode and differential mode are 6kV	
Temperature	Work temperature: 0-45°C	
	Storage temperature: -40-70°C	
Humidity	Work humidity: 5-85%, no-condensing	
	Storage humidity: 5-95%, non-condensing	
Software specifications		
Gateway settings	Dynamic IP, static IP and PPPoE dial-up, VLAN, Static NAT, Dynamic NAT, Port Mapping, Link aggregation, IPV4/IPV6 DHCP Server, DNS, IPSEC VPN	
Wireless features	CAPWAP, AP upgrading, AP timing restarting, SSID hidden, RF load balancing and 5G prior, Manual and auto adjustment of the channel, Manual and auto adjustment of the power, L2 roaming, Terminal blacklist, User isolation, Bandwidth guarantee, Prevent private setting of terminal address, Unlimited endurance	
Authentication management	Local portal user groups and user management, Local account authentication, WPA-PSK/WPA2-PSK authentication, Customize Web authentication page/built-in authentication page template, Terminal authentication-free list, Authentication-free network resources	
Advanced security function	Application/URL identification and control, ACL access control, Keyword/mail/file type filtering	
Attack protection	Flood attack prevention, URPF attack prevention, attack blacklist	
Device management	Web, Telnet, SSH, PING, Tracert, cloud platform	

Order Information

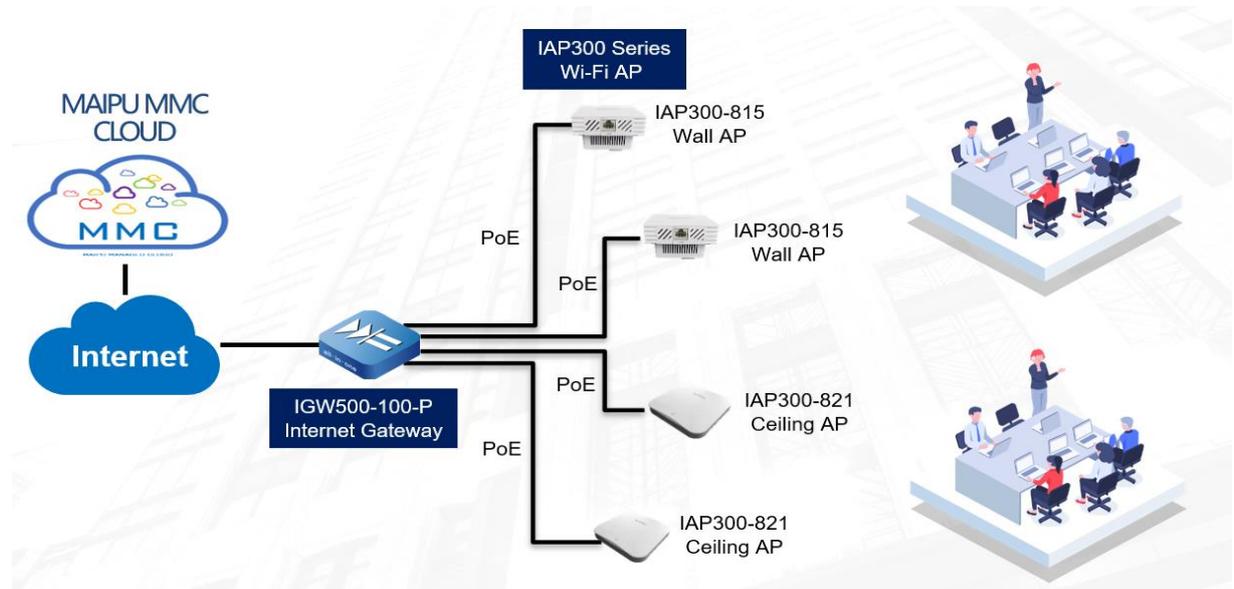
Model	Description
IGW500-100 Series Internet Gateway	
IGW500-100	IGW500-100 Internet Gateway, can manage 16-32 APs, 5*1000M Base-T Interfaces, One AC Power Supply
IGW500-100-P	IGW500-100-P Internet Gateway, can manage 16-32 APs, 5*1000M Base-T Interfaces, including 4*PoE ports, External PoE Power Adaptor

Application Scenario

Scenario One: Branch Office Network



Scenario Two: Small Office Network



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