

# IGW500-1000/1500 Series Internet Gateway Datasheet

## Overview

IGW500-1000/1500 series is a multi-service converged internet gateway developed by Maipu Communication Technology Co., Ltd. It has powerful functions which integrated intelligent routing, 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 IGW500-1000/1500 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.

IGW500-1000/1500 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.



IGW500-1000



IGW500-1500

# Key Features

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

It integrates the functions of router, VPN, AC wireless controller, behavior management, firewall, IPS and authentication. Multiple devices are integrated into one device without license cost, 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 AAA 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, IGW500 series 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

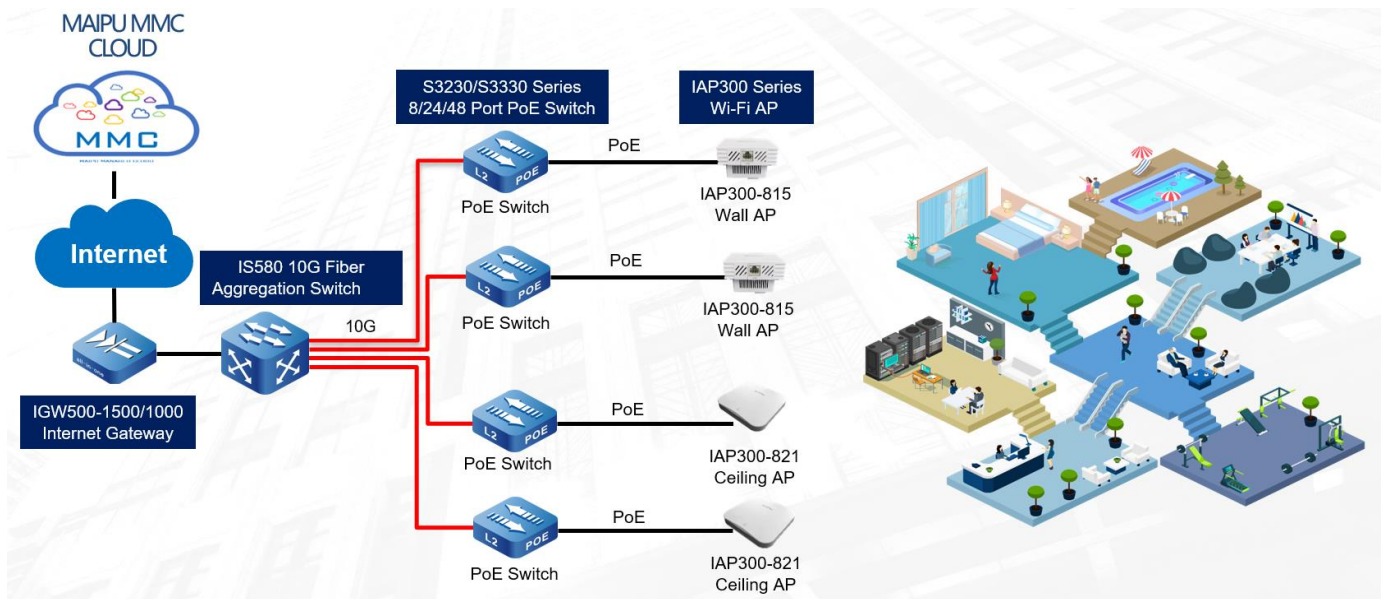
Hardware Specifications		
<b>Model</b>	IGW500-1000	IGW500-1500
<b>Physical ports</b>	Two Gigabit optical ports and eight Gigabit electrical ports	
<b>Management interfaces</b>	One Console port and one management port	
<b>Recommend managed APs</b>	64-128*APs	128-256*APs
<b>Power supply</b>	Fixed power, input voltage (AC): 100-240V, 50-60Hz	
<b>Dimension (W×D×H)</b>	440×440×44mm(1U)	
<b>Power lightning protection</b>	6KV for both common mode and differential mode are 6kV	
<b>Temperature</b>	Work temperature: 0-45°C	
	Storage temperature: -40-70°C	
<b>Humidity</b>	Work humidity: 5-85%, no-condensing	
	Storage humidity: 5-95%, non-condensing	
Software specifications		
<b>Gateway settings</b>	Dynamic IP, static IP and PPPoE dial-up, VLAN, Static NAT, Dynamic NAT, Port Mapping, Link aggregation, IPV4/IPV6 DHCP Server, DNS, IPSEC VPN	
<b>Wireless features</b>	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	
<b>Authentication management</b>	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	
<b>Advanced security function</b>	Application/URL identification and control, Intrusion Prevention (IPS), ACL access control, Keyword, mail, file type and other content filtering	
<b>Attack protection</b>	Flood attack prevention, URPF attack prevention, attack blacklist	
<b>Device management</b>	Web, Telnet, SSH, PING, Tracert, cloud platform	

# Order Information

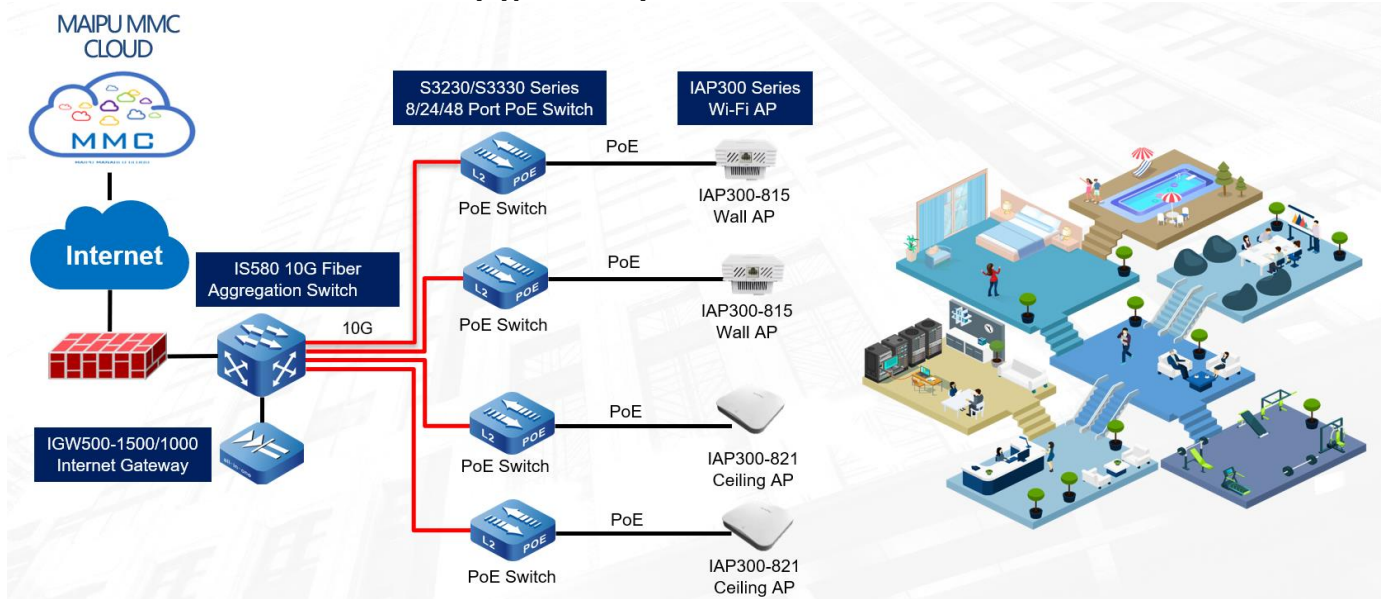
Model	Description
<b>IGW500 Series Converged Internet Gateway</b>	
IGW500-1000	IGW500-1000 Internet Gateway, can manage 64-128 APs, 8*1000M Base-T and 2*1000M SFP, One AC Power Supply
IGW500-1500	IGW500-1500 Internet Gateway, can manage 128-256 APs, 8*1000M Base-T and 2*1000M SFP, One AC Power Supply

## Application Scenario

### Scenario One: Medium-sized Network (Gateway Mode)



### Scenario Two: Medium-sized Network (Bypass Mode)



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