MAIPU

IGW500-500/1000/1500 Series

Internet Gateway Datasheet

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

Overview

IGW500-500/1000/1500 series is a multi-service internet gateway developed by Maipu Communication Technology Co., Ltd. It has powerful functions which integrated intelligent routing, switch, wireless control, accurate flow control, anti-attack, Internet behavior management, IPsec VPN, local portal authentication features in one box, and supports docking with Maipu MMC cloud managed platform to realize remote operation and maintenance and centralized management. It well meets the comprehensive customer requirements such as government, hospital, education, hotel, restaurant, supermarket, chain store and other scenarios.

IGW500-500/1000/1500 series internet gateway can centrally manage FIT AP and wireless client, providing rich service types. It 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 IGW500-500/1000/1500 makes the WLAN network easy to manage and maintain to meet the deployment needs of various services.

IGW500-500/1000/1500 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.

Model Name	Specification
 IGW500-500	● 8*10/100/1000M Base-T ● 2*1G SFP ● Fixed one AC Power ● RJ45 Console Port/USB2.0 Port ● Managed AP number (Controller Mode): 128 ● Managed AP number (Gateway Mode): 64 ● Web and Cloud Management
 IGW500-1000	● 8*10/100/1000M Base-T ● 2*1G SFP ● Fixed one AC Power ● RJ45 Console Port/USB2.0 Port ● Managed AP number (Controller Mode): 256 ● Managed AP number (Gateway Mode): 128 ● Web and Cloud Management
 IGW500-1500	● 8*10/100/1000M Base-T ● 2*1G SFP ● Fixed one AC Power ● RJ45 Console Port/USB2.0 Port ● Managed AP numbers(Controller Mode): 512 ● Managed AP number (Gateway Mode): 256 ● Web and Cloud Management

Key Features

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

It integrates the functions of router, switch, wireless controller, security gateway 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 radius server to easily realize a variety of authentication types including Portal, PSK, WPA2/WPA3, 802.1X and OPEN methods.

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

It provides a highly user-friendly web GUI 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 802.11K/V fast 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

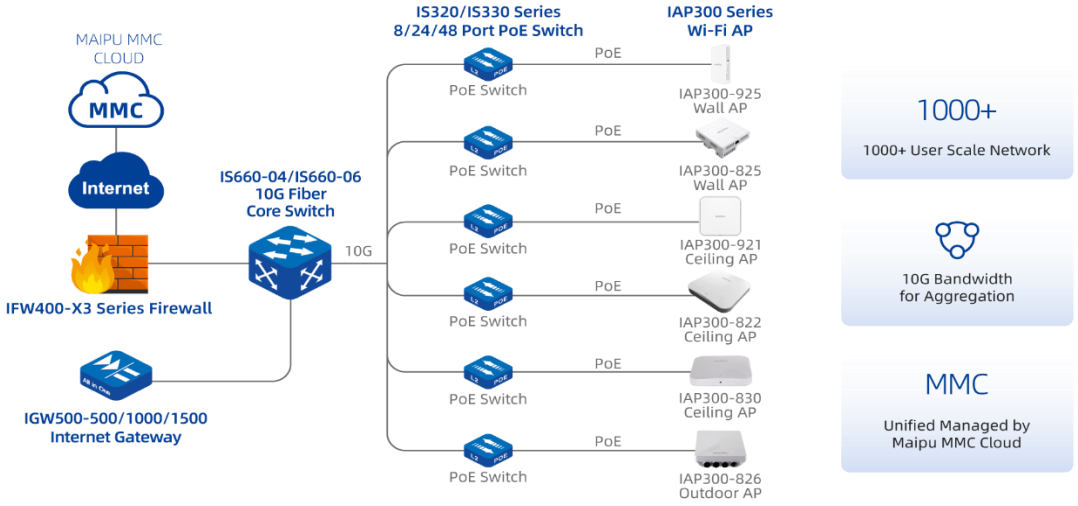
Model	IGW500-500	IGW500-1000	IGW500-1500
Version	V1	V2	V2
Hardware Specifications			
Flash	4G	8G	8G
Memory	1G	4G	4G
Performance (1500Byte)	1-1.2Gbps	1.2-1.5Gbps	1.5-2.0Gbps
Max. Managed APs	Gateway mode: 64 Units	Gateway mode: 128 Units	Gateway mode: 256 Units
	Controller mode: 128 Units	Controller mode: 256 Units	Controller mode: 512 Units
Physical Ports	8*10/100/1000M RJ45 + 2*1000M SFP		
Management Interfaces	One Console Port, One USD2.0 Port		
Power Supply	Fixed One AC Power, Input Voltage (AC): 100-240V，50-60Hz		
Dimension(W*D*H)	440*330*44.2mm(1U)		
Power Lightning Protection	6KV for both common mode and differential mode are 6kV		
Temperature	Work temperature: 0-45℃		
	Storage temperature: -40–70℃		
Humidity	Work humidity: 5-85%, no-condensing		
	Storage humidity: 5-95%, non-condensing		
Software Specification			
WAN Features	Dynamic IP, Static IP, PPPoE, Multiple WAN, Static NAT, Dynamic NAT, Port Mapping, IPSec VPN, Link Detection, PBR		
LAN Features	VLAN, IPv4/IPv6 DHCP Server, DHCP Snooping, Link Aggregation		
Wireless Features	CAPWAP, High Availability, AP Upgrading, Manual and Regular AP Restarting, Limit Numbers of Access Clients, Restore AP, AP Status Monitoring, STA Status Monitoring, Load Balancing Between RF(2.4G & 5G), Load Balancing Between Wireless Clients, Manually/Automatically Work Channel Setting, Manually/Automatically Transmission Power Setting, Manually 20/40/80/160mhz Channel Bandwidth Configuration, Manually/Automatically Channel Optimization, L2 Roaming, Fast Roaming, SSID Hidden, STA Isolation Within VLAN, RF Scheduled ON and OFF, STA Blacklist MAC & Whitelist MAC, Bandwidth Limitation Based On AP Group, Bandwidth Limitation Based On Service Name, Downlink/Uplink Bandwidth Control, AP Escape, Flood Attack Detection, Scan & Anti-rogue		
Authentication Management	Open, PSK, 802.1X, Local Portal (Online Terminals, Effective Online Duration, Local Password-free Authentication, Customize Web Authentication Page/Built-In Authentication Page Template, Free Access Resources), External Radius Server, Voucher Authentication, Wired Network Authentication, WPA-Personal, WPA-Enterprise, WPA2-Personal, WPA2-Enterprise, WPA3-Personal, WPA3-Enterprise		
Basic Security Function	IPS, URL filtering, Connection Limitation, IP Access List, Time Rule Access List		
Wireless Attack Detection	Assoc Attack Detection, Auth Attack Detection, Beacon Attack Detection, Deauth Attack Detection, Desassoc Attack Detection		
Wired Attack Detection	ICMP/Syn/TCP/UDP Flood Attack Detection, Single Packet Attack Detection, Network Scan Attack Detection, Sources Address Spoofing, Network Access Blacklist		
Device Management	Web, Ping, Traceroute, Packet Capture, Cloud, SNMP, NTP, DNS, Configuration Backup and Restore, Factory Reset		

Order Information

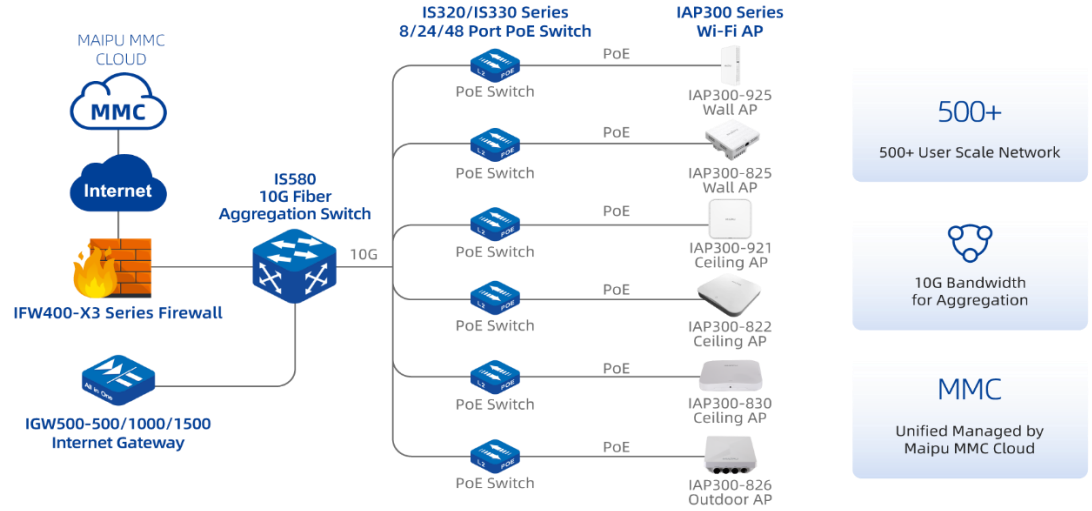
Model	Description
IGW500 Series Internet Gateway	
IGW500-1500	IGW500-1500 internet gateway, integrated Routing, Switching, Security, Access Controller, Authentication in one box, 8*1000M Base-T+2*1000M SFP interfaces, One AC Power Supply. (Gateway Mode: 256 Units AP; Controller Mode: 512 Units AP)
IGW500-1000	IGW500-1000 internet gateway, integrated Routing, Switching, Security, Access Controller, Authentication in one box, 8*1000M Base-T+2*1000M SFP interfaces, One AC Power Supply. (Gateway Mode: 128 Units AP; Controller Mode: 256 Units AP)
IGW500-500	IGW500-500 internet gateway, integrated Routing, Switching, Security, Access Controller, Authentication in one box, 8*1000M Base-T+2*1000M SFP interfaces, One AC Power Supply. (Gateway Mode: 64 Units AP; Controller Mode: 128 Units AP)

Application Scenario

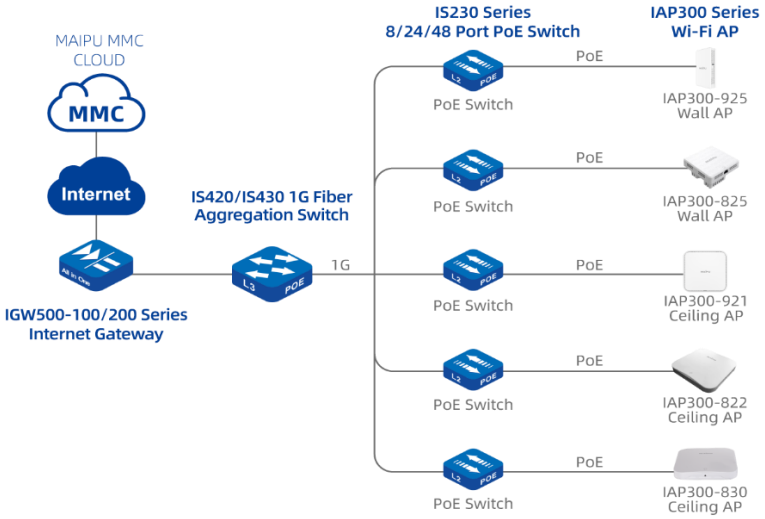
Scenario One: large-sized Networking: 1000+ Users



Scenario Two: medium-sized Networking: 500+ Users



Scenario Three: Small-sized Networking: 100+ Users



100+

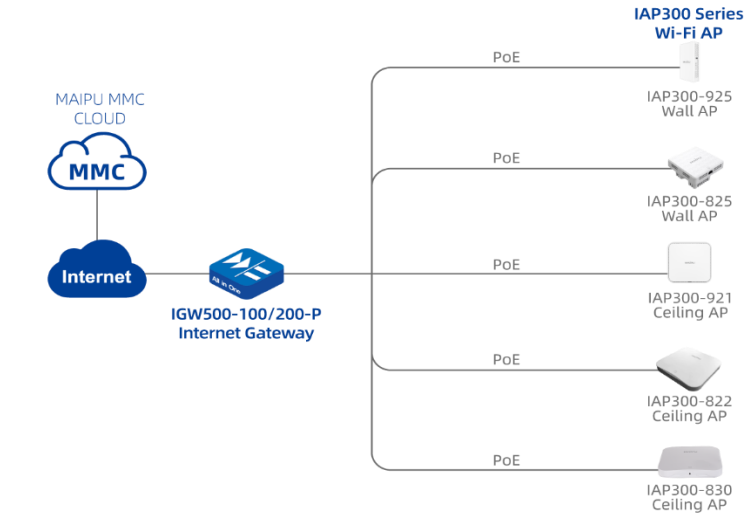
100+ User Scale Network

1G Bandwidth for Aggregation

MMC

Unified Managed by Maipu MMC Cloud

Scenario Four: SOHO Networking: 50+ Users



50+

50+ User Scale Network

Inbuilt PoE Interfaces for Saving Cost

MMC

Unified Managed by Maipu MMC Cloud

MAIPU

MAKE IT INTELLIGENT

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

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