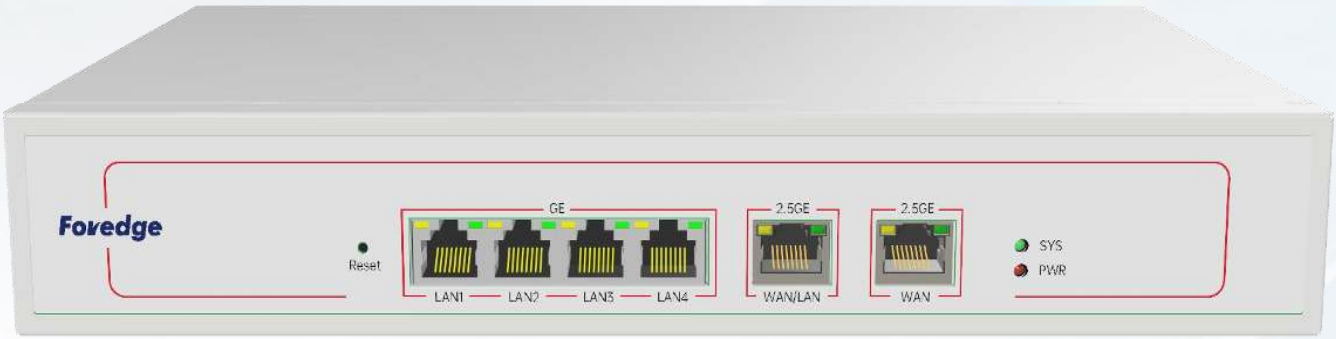
Foredge

Two-in-one Converged Gateway

FAC256PMR



Datasheet

01 Product Introduction

FAC256MR is a brand-new generation of integrated gateway product specially developed for small and medium-sized enterprises and other environments. It is equipped with panel AP, ceiling AP and outdoor AP, providing users with high-quality, high-speed and stable wireless network coverage experience.

FAC256PMR is equipped with AC (wireless controller) and routing functions, supporting dual 2.5G WAN port mode (dual WAN port backup redundancy, traffic load balancing), providing 4 gigabit network ports and 2 2.5G network ports, offering a more high-speed wireless network coverage experience. The device supports Web authentication, PPTP/L2TP VPN, security management and other rich software functions.

02 Main Features

- 4 Gigabit network ports, 2 2.5G network ports, enjoy high-speed network
- Integrated with gateway, AC controller and Portal authentication server, significantly reducing hardware investment costs
- Dual protocol stack of IPv4 and IPv6, one-time deployment, dual guarantees
- Dual WAN access, two broadband backup redundancy, traffic load balancing, ensuring network always smooth and safe and reliable
- Remote centralized management of cloud platform and APP, network dynamics are always sensed

03 Highlight Features

Converged Service Gateway for Simplified Networking

It functions as both a wireless controller and a router, enabling easy network deployment. APs support zero-touch configuration and management, allowing plug-and-play operation. There’s no need for additional AC purchases, making deployment and maintenance simple and cost-effective.

Intelligent Wireless Management for a Faster, Better Network

All APs are centrally accessed, monitored, and managed. Through intelligent AC algorithms, client load balancing and smart roaming are achieved, ensuring a quality experience for every user. The AC also supports full-network radio frequency optimization, intelligently arranging AP channels to avoid interference and significantly improve overall wireless data forwarding efficiency and bandwidth utilization.

High-Efficiency Firewall for Internal and External Network Security

IP-MAC address binding prevents both internal and external ARP spoofing effectively. In case of ARP attacks, it can proactively send ARP correction packets at a specified frequency to quickly restore normal network conditions.
Built-in protection against internal and external network attacks effectively defends against common DoS attacks, scanning attacks, and suspicious packet behaviors.
Access control via whitelists and blacklists effectively blocks unauthorized hosts.
Permissions for various network services can be assigned through the router, ensuring security for both internal and external networks.

03 Highlight Features

Multiple VPNs to Ensure Secure Remote Communication

Supports PPTP/L2TP VPN for stable connections to corporate intranets, enabling unrestricted access to office OA systems and data servers for efficient collaboration. It also allows remote connections to home NAS devices, letting you immerse yourself in your favorite content whether at airports or hotels, adding enjoyment to your travels.

Portal Authentication for Precision Ad Marketing

The device comes with built-in Portal authentication services, supporting multiple authentication methods. When users authenticate to access the internet, businesses can promote products and corporate information through the authentication page, enabling remarketing and significantly boosting user conversion rates.

Multiple Remote O&M Solutions – Management at Your Fingertips, Even Miles Away

Users can remotely manage the network via cloud platforms and mobile apps without needing to be on-site. They can monitor all information of devices within the network in real time and directly perform remote configuration and management, making remote maintenance more convenient and efficient.

03 Specifications

Hardware Characteristics	
Size	284mm*180mm*45mm
RAM	512MB
Flash	128MB
Installation	Desktop , Weak Current Box
FAN	Fanless
Interfaces	4 x 10/100M/1000M LAN Ports 1 x 10/100M/1000M/2500M WAN/LAN ports 1 x 10/100M/1000M/2500M WAN ports
Buttons	Reset button
LED	PWR Indicator、SYS Indicator、Port Status Indicator;
Power Budget	≤8W
AP Management	Suggested≤128APs，MAX 256APs
Concurrent Clients	Suggested≤128APs，MAX 256 Pcs

Operating Environment	
Electrostatic Standard	Air 8kV, Contact 6kV
Port Surge	±6kV
Power Surge	±6kV
Operating Temperature	-10℃～50℃
Operating Humidity	10%-90%RH (non-considering)
Storage Temperature	-40℃～70℃
Storage Humidity	10%～90%RH(non-considering)

Software Functions	
Status Monitoring	Support for information monitoring (SN, MAC, management IP, firmware version, uptime) Support for status monitoring (CPU, memory)
Network Settings	IPv4 、IPv6 PPPoE、Static IP、DHCP for WAN Automatic detection of WAN port access methods Dual WAN redundant links Port status monitoring Hardware acceleration for forwarding DHCP Server Static routing Network diagnostics Bypass mode
Network-Wide Management	Automatic identification of internal network devices and topology information
AP centralized management	Support for monitoring of AP device information Support for switching of AP country codes Support for unified distribution of configuration templates Support for restarting AP Support for resetting AP Support for deleting AP Support for batch upgrading of AP

Software Functions	
Centralized AP Management	Support AP wireless mode switching Support wireless load balancing Support terminal intelligent roaming Support forced offline of users with weak signal Support roaming switching threshold Support RF tuning
Clients Management	Monitoring of connected terminals' IP, MAC, and online duration Speed limiting
Authentication	Non-authentication, local Portal, and cloud-based Portal Authentication user management Authentication blacklist Authentication whitelist (non-authentication)
VPN	L2TP、PPTP VPDN
Application	QoS DDNS
System Tools	NTP System logs Kernel logs Configuration backup Reset Restart
Equipment Upgrade	Local firmware Upgrade Online firmware Upgrade
Equipment Management	Support local WEB management Support cloud platform management Support APP management