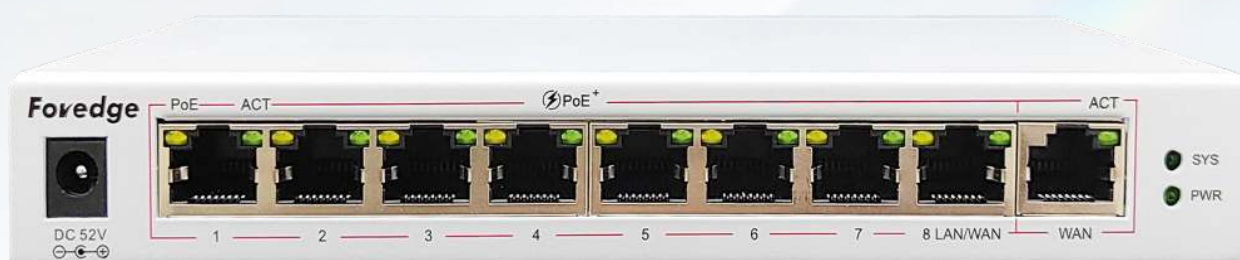




# Wireless Fusion Gateway

FAC109-PoE-MR



Datasheet

## 01 Product Introduction

FAC109-PoE-MR is a new-generation converged gateway developed for small and medium-sized enterprises, offices, villas and other environments. When paired with panel APs, ceiling APs and outdoor APs, it delivers high-quality, high-speed and stable wireless network coverage for users.

FAC109-PoE-MR integrates a built-in AC (Access Controller) and standard IEEE802.3af/at PoE functionality. It supports dual WAN modes (dual WAN backup redundancy and traffic load balancing), provides 8 Gigabit PoE ports, and can power up to 8 APs simultaneously for faster wireless network coverage. The device offers rich software features, including Web authentication, PPTP/L2TP VPN, and security management.

## 02 Main Features

- 9 Gigabit ports
- Compliant with standard IEEE 802.3af/at PoE, accurately identifies powered devices, with up to 30W PoE power per port
- Integrates gateway, AC controller, PoE power supply, and Portal authentication server in one device
- Supports dual-stack IPv4/IPv6 protocols
- Dual WAN access for broadband backup redundancy and traffic load balancing
- Cloud platform and APP for remote centralized management

## 03 Highlight Features

### Simplified Network Architecture

It serves as both a gateway and an AC (Access Controller) for easy network deployment; APs support zero-configuration access management for plug-and-play functionality. All LAN ports of the device support standard 802.3af/at PoE power supply, with a maximum output power of 30W per port. There is no need to purchase additional AC controllers or PoE switches, enabling simple deployment and maintenance with high cost-effectiveness.

### Wireless Management for Faster, Smarter Networks

APs connect seamlessly and are centrally monitored, with the AC's intelligent algorithms ensuring load balancing and smart roaming for optimal user experiences. The AC also supports network-wide RF optimization, staggering AP channels to avoid interference, significantly boosting wireless data forwarding efficiency and maximizing bandwidth utilization.

### Built-in Firewall

With built-in functions including terminal IP-MAC address binding, endpoint access blacklist/whitelist, and internal/external network attack protection, it effectively prevents ARP spoofing, suspicious terminal access, DoS attacks, and other various types of malicious behaviors.

### Multiple VPN Options

Supports PPTP/L2TP VPN for stable connectivity to corporate intranets, enabling seamless access to office OA systems and data servers for efficient collaboration without restrictions. It also allows remote connection to home NAS devices, letting you enjoy movies and series from airports or hotels—adding fun to your travels.

## 03 Highlight Features

### Portal Authentication for Precision Advertising Marketin

The device integrates built-in Portal authentication services, supporting multiple authentication methods. When users authenticate to access the network, enterprises can push product and corporate information through the authentication page for secondary marketing, significantly improving user conversion rates.

### Remote Operation and Maintenance Solution

Users can manage networks remotely via cloud platforms and apps, enabling direct monitoring of all device information within the network. The solution supports remote configuration and management of devices through the cloud platform, making remote maintenance more convenient and efficient.

## 03 Specifications

### Hardware Characteristics

|                           |                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Size</b>               | 185mm × 100mm × 28mm                                                                                                             |
| <b>RAM</b>                | 256MB                                                                                                                            |
| <b>Flash</b>              | 16MB                                                                                                                             |
| <b>Installation</b>       | Desktop , Weak Current Box                                                                                                       |
| <b>FAN</b>                | Fanless                                                                                                                          |
| <b>Interfaces</b>         | 1*10/100/1000M RJ45 WAN Port<br>1*10/100/1000M RJ45 LAN Port/WAN Port(Support PoE)<br>7*10/100/1000M RJ45 LAN Ports(Support PoE) |
| <b>Buttons</b>            | Reset button                                                                                                                     |
| <b>LED</b>                | PWR Indicator、SYS Indicator、Port Status Indicator;                                                                               |
| <b>Power Supply</b>       | DC 52V/1.85A<br>(Outer diameter: 5.5mm, Inner diameter: 2.1mm)                                                                   |
| <b>Power Budget</b>       | ≤96W                                                                                                                             |
| <b>PoE Output</b>         | IEEE 802.3af/at                                                                                                                  |
| <b>PoE Power</b>          | Port PoE Power: 30W<br>Total PoE Power: 85W                                                                                      |
| <b>AP Management</b>      | Suggested≤16APs, MAX 64APs                                                                                                       |
| <b>Concurrent Clients</b> | Suggested≤32APs, MAX 50APs                                                                                                       |

| Operating Environment   |                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrostatic Standard  | Air 8kV, Contact 6kV                                                                                                                                                                                                                                                 |
| Port Surge              | ±6kV                                                                                                                                                                                                                                                                 |
| Power Surge             | ±6kV                                                                                                                                                                                                                                                                 |
| Operating Temperature   | -10°C～50°C                                                                                                                                                                                                                                                           |
| Operating Humidity      | 10%-90%RH (non-considering)                                                                                                                                                                                                                                          |
| Storage Temperature     | -40°C～70°C                                                                                                                                                                                                                                                           |
| Storage Humidity        | 10%～90%RH(non-considering)                                                                                                                                                                                                                                           |
| Software Functions      |                                                                                                                                                                                                                                                                      |
| Status Monitoring       | Equipment information(model, firmware version, SN 、 IP、 MAC、 Uptime、 CPU、 Memory、 PoE)                                                                                                                                                                               |
| Network Settings        | IPv4 、 IPv6<br>PPPoE、 Static IP、 DHCP for WAN<br>Automatic detection of WAN port access methods<br>Dual WAN redundant links<br>Port status monitoring<br>Hardware acceleration for forwarding<br>DHCP Server<br>Static routing<br>Network diagnostics<br>Bypass mode |
| Network-Wide Management | Automatic identification of internal network devices and topology information                                                                                                                                                                                        |

## Software Functions

|                                  |                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Centralized AP Management</b> | AP Information Monitoring<br>Country Code Switching for APs<br>Unified Configuration Template Deployment<br>Restart APs<br>Reset APs<br>Remove APs<br>Upgrade APs<br>AP Radio mode switching<br>Wireless load balancing<br>Wireless roaming<br>Forced disconnection of weak-signal clients<br>Roaming handover threshold configuration<br>RF optimization |
| <b>Clients Management</b>        | Monitoring of connected terminals' IP, MAC, and online duration<br>Speed limiting                                                                                                                                                                                                                                                                         |
| <b>Authentication</b>            | Non-authentication, local Portal, and cloud-based Portal<br>Authentication user management<br>Authentication blacklist<br>Authentication whitelist (non-authentication)                                                                                                                                                                                   |
| <b>VPN</b>                       | L2TP、PPTP VPDN                                                                                                                                                                                                                                                                                                                                            |
| <b>Application</b>               | QoS<br>DDNS                                                                                                                                                                                                                                                                                                                                               |
| <b>System Tools</b>              | NTP<br>System logs<br>Kernel logs<br>Configuration backup<br>Reset<br>Restart                                                                                                                                                                                                                                                                             |
| <b>Equipment Upgrade</b>         | Local firmware Upgrade<br>Online firmware Upgrade                                                                                                                                                                                                                                                                                                         |
| <b>Equipment Management</b>      | Support local WEB management<br>Support cloud platform management<br>Support APP management                                                                                                                                                                                                                                                               |