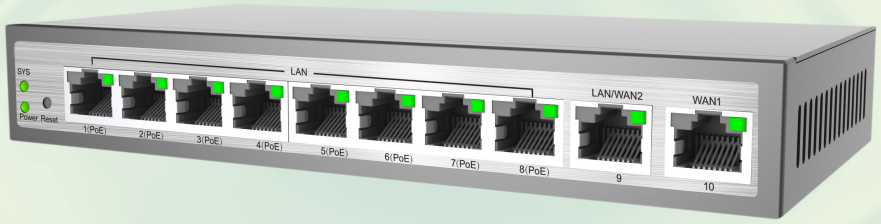
IGNITION
DESIGN LABS



AC9220

Introduction

AC9220 is a high-performance enterprise-class PoE router, integrating gateway, Access Controller, and PoE switch functions. With Ignition Design Labs (IDL) APs, AC9220 provides concise and intelligent Wi-Fi networks, which can be used in a wide range of scenarios such as small and micro enterprises, restaurants, villas, and small hotels.

Features

Multifunctional device

- It supports for NAT, ACL, routing, PPPoE, DHCP, and other functions to achieve seamless connection to the operator's network.
- It supports the management and configuration of AP devices and wireless terminals.
- It supports standard 802.3af/at protocol. Eight LAN ports can be used as PoE interfaces.

Rich types of ports

- It adopts enterprise-class full Gigabit hardware platform to meet different bandwidth requirements.
- It provides ten 10/100/1000M adaptive network ports, including one WAN port and nine LAN ports. One LAN port can be used as a WAN port.

High-performance device

- The maximum output power of a single PoE port is 30W, and that of the whole PoE ports is 86W.
- It supports maximum access to 200 terminals.
- It manages a maximum of 32 APs.

Easy and intelligent deployment

- It achieves fast networking due to the automatic discovery of APs.and devices.
- Built-in AC and PoE modules simplifies the deployment of network.
- With the plug-and-play service, APs automatically discover the controller and receive the configuration.

Robust security mechanisms

- It provides multiple access authentication mechanisms, such as SMS/account password/ QR code/countdown-based authentication, combined authentication, and more.
- It supports fine and dynamic traffic control and intelligent allocation of bandwidth resources.
- t provides multiple security protection means, such as IP-MAC binding and various attack protection, ensuring the security of network.

Multiple management methods

- It supports local management, cloud-based management, and APP-based management.

Specifications

Hardware Specifications

Basic specifications	Descriptions
Port	• 1/2 x 10/100/1000M WAN ports • 8/9 x 10/100/1000M LAN ports
Memory	• 256MB
FLASH	• 32MB
PoE	• Up to 8 LAN ports working as PoE ports • Standard 802.3af/at protocol • 86W for aggregate PoE output power and 30W for a single port output power at most
Overall power consumption	• < 10W (excluding PoE-related • consumption)
Maximum concurrent user	• 200 (It varies according to the delopyment environment.)
Indicator	• PWR indicator • SYS indicator • PoE indicator • Link/Act indicator
Power suppky	• AC 220V 50 ～ 60Hz • DC 52V 1.85A
Physical specifications	**Descriptions**
Dimension (W*D*H)	• 190mm*97mm*29mm
Weight	• 0.5kg
Operation condition	• Operation temperature: -5℃ ~+45℃ • Operation humidity: 10%-90%RH (noncondensing) • Storage temperature: -20℃ ~+70℃ • Storage humidity: 5%~95%RH (noncondensing)

Software Specifications

Network-related specifications	Descriptions	
Network access method	• Dynamic IP • Static IP	• PPPoE
Protocol type	• IPv4	• IPv6
Routing selection	• Static routing	• Policy routing
Other protocol	• DHCP Server • DHCP Client • DNS Client • DNS Server	• DNS Proxy • QOS • NTP • UPNP

Software Specifications

Security	Descriptions	
Detection and protection	• IP-MAC binding • DDoS protection • IP intrusion prevention • FLOOD protection • Block Ping	• Port mapping • ARP broadcast suppression • Port scanning prevention • ARP protection • DHCP broadcast suppression
Wi-Fi security and authentication	• Open authentication • MAC authentication • Password authentication • PPSK authentication • WeChat authentication	• SMS authentication • One-click authentication • QR code authentication • Account and password authentication • Combined authentication
Traffic management	• Intelligent traffic control • Traffic supervision	• Custom traffic control
ACL	• IP filtering • MAC filtering	• Application filtering • URL filtering
Wireless management	**Descriptions**	
Maximum manageable APs	• 32	
Methods of accessing the Internet for APs	• Broadcast • Static address • DDNS resolution	• Order distribution management • DHCP Option43
AP management	• Multiple SSIDs • SSID hiding • Channel configuration • Transmit power configuration • Load balance • User isolation	• 5G prefering • DFS detection • Wi-Fi roaming • AP upgrading online • Quantity of STAs • Weak signal access restriction
System management	**Descriptions**	
Device management	• Version upgrading • Automatic restart • Cloud-based and APP-based management • Factory reset	• Traffic statistics • System log • Fault diagnosis • Configuration wizard • Adertising and marketing

