

AP-SG4500WM Series

Smart Managed Gigabit Switches

Intelligent Access Switching • Simplified Cloud Management • Enterprise PoE Connectivity

PRODUCT OVERVIEW

The AirPro AP-SG4500WM Series is a next-generation family of smart managed Gigabit Ethernet switches engineered to deliver reliable, energy-efficient, and cost-effective enterprise access networking for SMBs, hospitality, retail, education, and campus environments.

Designed with intelligent Layer 2 switching capabilities, integrated PoE+ functionality, and simplified cloud-based management, the AP-SG4500WM Series provides scalable wired connectivity for modern business infrastructure.

The platform combines:

- High-performance Gigabit switching
- Smart PoE+ power delivery
- Energy-efficient operation
- Web and cloud-based management
- Enterprise-grade reliability
- Quiet fanless deployment options

Ideal deployment scenarios include:

- SMB and branch office networks
- Enterprise access layer deployments
- Wireless AP connectivity
- IP surveillance systems
- VoIP infrastructure
- Hospitality and retail networking



KEY FEATURES AND BENEFITS

Feature	Business Benefit
Smart Managed Switching	Simplified deployment and centralized operations
Gigabit Ethernet Performance	Reliable high-speed wired connectivity
Cloud Management	Remote visibility and simplified management
PoE+ Support	Simplified edge device power delivery
Energy Efficient Design	Lower operational costs
Fanless Models	Silent office deployments
Link Aggregation	Improved network resiliency and bandwidth

High-Performance Layer 2 Switching

The AP-SG4500WM Series delivers reliable Layer 2 Gigabit switching performance optimized for enterprise edge and SMB environments.

Performance Highlights:

- Gigabit Ethernet access ports
- Gigabit SFP uplink connectivity
- Wire-speed forwarding architecture
- Layer 2 smart switching functionality
- IEEE 802.1Q VLAN support
- Link aggregation support
- Optimized multicast traffic handling

Intelligent PoE+ Power Delivery

Selected AP-SG4500WM models support advanced PoE+ functionality for powering connected devices directly over Ethernet infrastructure.

PoE+ Features:

- IEEE 802.3af/at compliant
- Up to 30W per port
- Real-time PoE monitoring
- Intelligent power allocation
- Continuous PoE during switch reboot
- Simplified deployment for:
 - Wireless access points
 - IP cameras
 - VoIP phones
 - IoT devices

Energy-Efficient Design

The AP-SG4500WM Series incorporates advanced green networking technologies to reduce energy consumption and operational costs.

Green Features:

- IEEE 802.3az Energy Efficient Ethernet (EEE)
- Intelligent power-saving mechanisms
- Low power consumption architecture
- Fanless silent operation on selected models
- Reduced acoustic noise

Benefits:

- Lower power consumption
- Reduced cooling requirements
- Environmentally responsible operation
- Quiet deployment for office environments

Enterprise Reliability and Stability

The AP-SG4500WM Series is engineered to provide stable and reliable enterprise access connectivity.

Reliability Features:

- Link aggregation for redundancy
- High-performance switching fabric
- DHCP snooping security
- Storm suppression
- Stable Layer 2 forwarding
- Optimized multicast handling

IGMP Snooping

Integrated IGMP Snooping reduces multicast flooding and improves bandwidth efficiency across VLAN environments.

Smart Management and Visibility

The AP-SG4500WM Series simplifies network operations through intelligent management capabilities.

Management Features:

- Web-based management
- Cloud-based centralized management
- Real-time port monitoring
- Traffic statistics visibility
- PoE monitoring and reporting
- Simplified configuration management

These features provide IT administrators with centralized operational visibility and simplified network management.

Product Specifications

Specification	AP-SG4500WM-10GT-2SFP	AP-SG4500WM-10GT-P-2SFP	AP-SG4500WM-28GT-4SFP	AP-SG4500WM-28GT-P-4SFP
Access Ports	8 × GE RJ45 + 2 × GE SFP	8 × GE RJ45 + 2 × GE SFP	24 × GE RJ45 + 4 × 1G Combo	24 × GE RJ45 + 4 × 1G Combo
Switching Capacity	20 Gbps	20 Gbps	56 Gbps	56 Gbps
Forwarding Rate	14.88 Mpps	14.88 Mpps	41.66 Mpps	41.66 Mpps
MAC Address Table	8K	8K	8K	8K
Max. PoE Budget	-	125W	-	370W
VLAN Support	IEEE 802.1Q	IEEE 802.1Q	IEEE 802.1Q	IEEE 802.1Q
Multicast	IGMP Snooping	IGMP Snooping	IGMP Snooping	IGMP Snooping
Traffic Control	Port Bandwidth Control	Port Bandwidth Control	Port Bandwidth Control	Port Bandwidth Control
Security	DHCP Snooping, Storm Control	DHCP Snooping, Storm Control	DHCP Snooping, Storm Control	DHCP Snooping, Storm Control
Management	Web, Cloud	Web, Cloud	Web, Cloud	Web, Cloud
Cooling	Fanless	Fanless	Fanless	Active Cooling
Dimensions	190 × 125 × 27 mm	190 × 125 × 27 mm	440 × 260 × 44 mm	440 × 260 × 44 mm
Power Supply	Internal Power Supply	Internal Power Supply	Internal AC Power Supply	Internal AC Power Supply
Power Consumption	≤7W	≤8W + 125W PoE	≤20W	≤27W + 370W PoE
Operating Temp.	0°C to 50°C			
Storage Temp.	-40°C to 70°C			
Operating Humidity	10% to 90% non-condensing			
Storage Humidity	5% to 90% non-condensing			

Deployment Scenarios

The AP-SG4500WM Series is optimized for:

- SMB networking
- Enterprise edge switching
- Wireless AP aggregation
- Hospitality networking
- Retail infrastructure
- IP surveillance systems
- Education campuses
- Smart office environments

Ordering Information

Product Model	Description
AP-SG4500WM-10GT-2SFP	Smart managed switch with 8 × Gigabit RJ45 ports and 2 × Gigabit SFP uplinks
AP-SG4500WM-28GT-4SFP	Smart managed switch with 24 × Gigabit RJ45 ports and 4 × 1G combo uplinks
AP-SG4500WM-10GT-P-2SFP	Smart managed PoE+ switch with 125W PoE budget
AP-SG4500WM-28GT-P-4SFP	Smart managed PoE+ switch with 370W PoE budget

Executive Summary

The AirPro AP-SG4500WM Series combines intelligent Layer 2 switching, simplified cloud management, energy-efficient operation, and enterprise-grade PoE+ functionality into a flexible and cost-effective access switching platform.

Designed for modern SMB and enterprise edge deployments, the AP-SG4500WM Series delivers reliable performance, simplified management, and scalable wired connectivity for next-generation business infrastructure.



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