



Cisco

C9200-24P-A

Datasheet

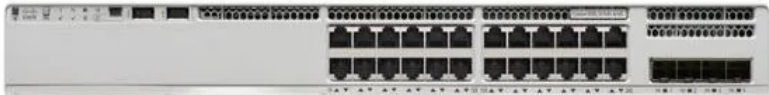
Product Overview

- Cisco Catalyst 9200 Series switches bring trusted enterprise-grade switching to today's evolving networks, building on reliable Cisco innovation.
- Designed for small and large businesses, managed service providers, and campus networks that demand simplified IT without sacrificing security and up-time.
- The C9200-24P-A features 24 × 10/100/1000BASE-T PoE+ ports, 4 × 1G SFP uplinks, 176 Gbps switching capacity, and up to 130 Mpps forwarding rate.
- Key features include PoE+ power for devices, stacking bandwidth up to 160 Gbps, and advanced Layer 3 support for scalable deployments.
- Network control is flexible through CLI, Cisco Catalyst Center, or Meraki cloud dashboard, offering centralized, secure, and convenient management.
- The C9200-24P-A helps businesses in all regions simplify operations, improve IT efficiency, and ensure network security with ongoing investment protection.

Product Highlights

- **High PoE+ Support:** Delivers up to 740W total PoE+ power, enabling direct connection and power supply to IP phones, cameras, and wireless APs.
- **Power & Fan Redundancy:** Supports redundant power supplies and fans to maximize network uptime and resiliency.
- **160 Gbps Stacking Bandwidth:** Enables seamless switch stacking and centralized management with up to 160 Gbps inter-switch connectivity.
- **Advanced Secure Access:** Built-in advanced security features keep your network, data, and operations protected at all layers.

Detailed Features



C9200-24P-A

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Component	Specification
Ports	24 × 10/100/1000BASE-T PoE+ (RJ45), 4 × 1G SFP
PoE Budget	Up to 740W total (30W per port)
Switching Capacity	176 Gbps
Forwarding Rate	130 Mpps



Robust Hardware Performance

The Cisco Catalyst C9200-24P-A integrates an advanced hardware platform with high switching capacity, supporting 176 Gbps throughput and 130 Mpps forwarding. It ensures smooth data and voice traffic even during peak loads, making it fit for branch, campus, or business network access scenarios.

Extensive Power over Ethernet

With PoE+ support on all 24 RJ45 ports and a total PoE budget up to 740W, the C9200-24P-A enables flexible, hassle-free deployment of IP telephones, wireless APs, and cameras without the need for separate power sources. It ensures reliable connectivity and power delivery.

Integrated Uplinks and Modularity

Four built-in 1G SFP uplinks offer high-speed connections to aggregation switches or core networks. The included C9200-NM-4X1G module ensures modularity and upgrade potential, supporting diverse network topologies and bandwidth needs.

Enterprise-Grade Security

Cisco Trustworthy Solutions ensure hardware integrity, software security, and comprehensive data protection. Advanced security features proactively protect against threats, safeguard user privacy, and ensure only authorized devices gain access to the network.

Resiliency and Redundancy

Dual redundant power and fan tray options increase reliability, minimize downtime, and support business continuity. Hot-swappable components allow maintenance and upgrades with zero interruption to network operations.

Simple, Flexible Management

Choose from CLI with Cisco IOS-XE, intuitive Web UI, Cisco Catalyst Center on-premises, or cloud-based Meraki dashboard for deployment and monitoring. These options cater to both advanced and entry-level IT teams for ease of operation.

Advanced Layer 3 Routing

The C9200-24P-A supports industry-standard Layer 3 features, including static routing, OSPF, and RIP. With IPv4 and IPv6 route support, it adapts to both modern and legacy networks, enabling efficient resource utilization and scalable growth.

Investment Protection & Compatibility

Ready for future enhancements and open APIs, the switch aligns with Cisco Networking Cloud initiatives. It secures customer investments, allowing updates as network demands grow or technologies advance, reducing total cost of ownership over time.

Technical Specifications

Product Specifications

Feature	Value
Series	Catalyst 9200 Series
Form Factor	1RU Fixed Switch
Port Configuration	24 × 10/100/1000BASE-T PoE+ (RJ45), 4 × 1G SFP Uplinks (C9200-NM-4X1G module included)
PoE Budget	Up to 740W total (30W per port)
Switching Capacity	176 Gbps
Forwarding Rate	130 Mpps
Base Chassis Dimensions (H × W × D)	1.73 × 17.5 × 13.8 in (4.4 × 44.5 × 35.0 cm)
With FEP/Fan Dimensions (H × W × D)	1.73 × 17.5 × 15.4 in (4.4 × 44.5 × 39.1 cm)
Power Supply	600W AC (PWR-C5-600WAC or PWR-C6-600WAC)
Input Voltage	100–240V AC, 50/60Hz
PoE Support	IEEE 802.3af/at (PoE+); UPOE (60W) not supported
MAC Addresses	32,000



Feature	Value
VLANs	4,096 active
IPv4 Routing	16,000 routes
IPv6 Routing	8,000 routes (software-assisted)
QoS	8 queues per port, DSCP/CoS marking
Operating Temperature Range	32°F to 104°F (0°C to 40°C)
Humidity Range	5% to 90% non-condensing
Altitude	Up to 10,000 ft (3,000 m)
MTBF	422,310 hours (~48 years)
Hot-Swappable Components	Fan tray, power supplies
Management Interface	CLI: Cisco IOS-XE, Web UI: Catalyst 9200 Web Interface
SNMP	v2c/v3
NetFlow	Supported (hardware-accelerated)
Minimum IOS-XE Version	16.12.1
Licensing	Network Advantage (included)
Compliance Safety	UL 60950-1, EN 60950-1
Compliance EMC	FCC Part 15 Class A, EN 55032 Class A
RoHS	Compliant

Product Comparison

Feature	C9200-24P-A	C9300-24P-A	C1000-24P-4X-L
Port Configuration	24 × 10/100/1000BASE-T PoE+, 4 × 1G SFP	24 × 10/100/1000BASE-T PoE+, 4 × 1G SFP	24 × 10/100/1000BASE-T PoE+, 4 × 1G SFP+
Switching Capacity	176 Gbps	128 Gbps	56 Gbps
PoE Budget	Up to 740W	Up to 445W	370W
Forwarding Rate	130 Mpps	95 Mpps	41.66 Mpps
Redundancy	Hot-swappable power, fans	Hot-swappable power, fans	Non-redundant power
Layer 3 Features	Full Layer 3: Static, OSPF, RIP, EIGRP	Full Layer 3: Static, OSPF, VRF, EIGRP	Basic Layer 2/3: Static routing
Stacking Bandwidth	160 Gbps	480 Gbps	Not supported



Feature	C9200-24P-A	C9300-24P-A	C1000-24P-4X-L
Management	CLI, Web, Cisco Catalyst Center, Meraki Dashboard	CLI, Web, Cisco DNA Center, Meraki Dashboard	Web-based GUI, CLI, SNMP

Accessories

Category	Accessories
Included Accessories	- 600W AC Power Supply - Rack Mount Kit - Console Cable
Optional Accessories	- SFP Transceiver Modules - Redundant Power Supply - Stack Cable



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References

[1] Cisco. (2023). Catalyst 9200 Series Switches Datasheet. Retrieved from <https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-9200-series-switches/nb-06-cat9200-ser-data-sheet-cte-en.html>