



Cisco

C9300-48P-A

Datasheet

Product Overview

- The Cisco Catalyst 9300 Series is Cisco's flagship stackable enterprise access switches, designed to deliver leading-edge connectivity, performance, and security.
- Ideal for medium to large businesses, education, and multi-branch organizations, the C9300-48P-A empowers network managers to optimize hybrid and dynamic environments.
- Equipped with 48x 10/100/1000 PoE+ ports, a 740W PoE budget, switching capacity of 176 Gbps, and advanced StackWise-480 stacking, it ensures efficient, high-throughput operations.
- Differentiated by its flexible modular uplinks, advanced security with hardware-level encryption, and cloud-ready management, the Catalyst 9300-48P-A is built for demanding deployments.
- Zero-touch provisioning, unified wired and wireless policies, and seamless migration to cloud management cut operational workload and speed up network rollouts.
- Whether deployed in fast-paced offices or dispersed campuses, this platform secures, scales, and simplifies your enterprise networking for today and tomorrow.

Product Highlights

- **High-Density PoE+ Support:** Delivers 48 PoE+ ports with a total 740W PoE budget, ideal for powering access points, IP phones, and IoT devices.
- **Robust Performance:** 176 Gbps switching capacity and 77.36 Mpps forwarding rate ensure stable and high-speed data transmission for enterprise applications.
- **Advanced StackWise Technology:** Supports up to 480 Gbps stacking bandwidth, offering simplified management and high scalability for growing networks.
- **Flexible Management Options:** Choose between on-premises, virtual, or cloud management to match your IT strategy and operational needs.

Detailed Features



C9300-48P-A

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Component	Specification
Switching Capacity	176 Gbps
Forwarding Rate	77.36 Mpps
Ports	48x 10/100/1000 PoE+
PoE Budget	740W
Stacking Bandwidth	480 Gbps



High Port Density and Reliable Power

The C9300-48P-A offers 48 PoE+ ports in a 1U form factor, enabling high-density device connectivity and centralized power for IoT, WLAN, and VoIP endpoints. The generous 740W PoE budget ensures uninterrupted operations for your critical network devices, reducing complexity in powering equipment across diverse deployment scenarios.

Enterprise-Grade Performance

With a 176 Gbps switching fabric and 77.36 Mpps forwarding rate, this model delivers seamless, high-throughput packet processing and non-blocking performance. Such capacity supports bandwidth-intensive applications and multiple VLANs, providing predictable performance even in busy enterprise environments.

StackWise-480 Stacking

Advanced StackWise-480 technology boosts scalability and redundancy. Up to eight switches can stack as one logical unit with up to 480 Gbps stacking bandwidth. This design streamlines management, simplifies expansion, and provides high availability by allowing switch replacements or additions without service disruption.

Extensive Routing and Table Sizes

Support for up to 32,000 IPv4 and 16,000 IPv6 routing entries allows deployment in large or segmented enterprise networks. The device handles extensive routing schemes and supports robust segmentation, making it compatible with complex policy-driven and multi-tenant environments.

Comprehensive Security Foundation

Integrated hardware-level security supports AES-256 IPsec encryption, secure tunnels, policy-based segmentations, and application-aware firewalling (with additional Cisco software). These features defend against advanced threats and secure edge, campus, or distributed environments.

Flexible Uplink & App Hosting

Modular uplinks support various speeds (including 1G/10G/25G on other 9300 series). Though this model focuses on access, the series can host Cisco Signed applications and enable features like ThousandEyes for application performance monitoring, expanding its role in complex networks.

Simplified Deployment & Management

With unified wired and wireless policy management, zero-touch provisioning, and compatibility with the Meraki cloud dashboard, IT teams can deploy, monitor, and troubleshoot the network from anywhere. This flexibility reduces time-to-service and operational risk.

Investment Protection and Redundancy

Designed for longevity, the C9300-48P-A supports redundant fans, power supplies, and is backward-compatible with many Catalyst 9300 Series accessories. This future-proof design ensures resilience and simplifies network upgrades for organizations evolving their IT infrastructure.

Technical Specifications

Product Specifications

Feature	Value
Ports	48x 10/100/1000 PoE+ ports
Total PoE Budget	740W
Forwarding Rate	77.36 Mpps
Switching Capacity	176 Gbps
Stacking Bandwidth	480 Gbps
RAM	8 GB
Flash Memory	16 GB
IPv4 Routing Entries	32,000
IPv6 Routing Entries	16,000
Dimensions Width	44.5 cm
Dimensions Depth	44.5 cm



Feature	Value
Dimensions Height	4.4 cm

Product Comparison

Feature	C9300-48P-A	C9300L-48T-4X-10A	C9300-48UXM-A
Fixed Ports	48x 10/100/1000 PoE+	48x 10/100/1000 non-PoE	48x 10/100/1000 Multigigabit PoE+
Switching Capacity	176 Gbps	176 Gbps	320 Gbps
Forwarding Rate	77.36 Mpps	77.36 Mpps	238.09 Mpps
PoE Budget	740W	None	1440W
Stacking Bandwidth	480 Gbps	320 Gbps	480 Gbps
Management Option	On-premises, Virtual, Cloud	On-premises, Virtual, Cloud	On-premises, Virtual, Cloud
IPv4 Routing Entries	32,000	32,000	32,000
Target Use Case	Enterprise Unified Access	Standard High Density Access	High-Speed Multigigabit Access

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power Cord - Rack Mount Kit - Console Cable
Optional Accessories	<ul style="list-style-type: none"> - SFP Transceiver Modules - Redundant Power Supply - StackWise Cables



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References

[1] Cisco. (2023). Catalyst 9300 Series Switches Datasheet. Retrieved from <https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-9300-series-switches/nb-06-cat9300-ser-data-sheet-cte-en.html>