

Cisco

C9300L-48PF-4X-A

Datasheet

Product Overview

- Cisco Catalyst 9300 Series is the flagship stackable enterprise access switch, engineered for high-performance secure networking.
- The series serves enterprises needing reliable connectivity in flexible workspaces, targeting IT teams in education, finance, and healthcare.
- Offering 48 full PoE+ gigabit ports and 4x10G uplinks, it ensures robust access, with up to 320 Gbps stacking bandwidth and 8 GB DRAM.
- Advanced device stacking, flexible modular uplinks, and investment protection make it ideal for scalable, evolving infrastructures.
- Cloud-based and on-premise management options provide versatile deployment, while unified wired and wireless network control boosts efficiency.
- Empowering hybrid workplaces, Catalyst 9300 delivers security, application hosting, and simple administration for all business sizes.

Product Highlights

- **Full PoE+ Power:** Delivers 48 PoE+ ports to power phones, cameras, and wireless access points directly from the switch.
- **High-Speed Uplinks:** Equipped with 4 × 10G SFP+ uplink ports for rapid aggregation and reliable backbone connectivity.
- **Powerful Stacking Support:** 320 Gbps stacking bandwidth enables high-density expansion and seamless failover.
- **Flexible Network Management:** Supports advanced cloud and on-premises control, streamlining network deployment and monitoring.

Detailed Features



C9300L-48PF-4X-A

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Component	Specification
Downlink Ports	48 × 1G PoE+
Uplink Ports	4 × 10G SFP+
PoE Power Budget	Full PoE+
Stacking Bandwidth	320 Gbps
Management	Cloud & On-Premises



High-Performance Switching

C9300L-48PF-4X-A delivers up to 176 Gbps switching capacity and advanced hardware architecture, handling demanding enterprise workloads and providing reliable network performance in diverse applications.

Exceptional PoE+ Density

Supports 48 full Power over Ethernet Plus (PoE+) ports, supplying robust power for edge devices such as IP phones, wireless access points, and cameras, reducing the need for separate power solutions.

Scalable StackWise-320 Technology

StackWise-320 delivers 320 Gbps stacking bandwidth, allowing seamless stacking of multiple switches into a unified system for higher resiliency, scalability, and simplified management.

Advanced Layer 3 Routing

Comprehensive Layer 3 support enables efficient traffic management with 32,000 IPv4 routes, 16,000 IPv6 routes, and dynamic protocol capabilities for complex enterprise networks.

Flexible Uplink Options

Equipped with 4 × 10G SFP+ uplinks for rapid aggregation and uplink flexibility, the switch supports high-speed connectivity to core or aggregation layers in expanding network environments.

Robust Security Integrations

Built-in secure network features, including 100G IPsec hardware support and integration with Cisco DNA Center, enhance access control, segmentation, and threat protection across hybrid environments.

Comprehensive Virtualization

Supports up to 1,000 Switched Virtual Interfaces (SVIs) and 4,094 VLANs, allowing high network segmentation, virtualization, and consistent performance for business-critical applications and devices.

Unified Cloud and Local Management

Offers both cloud-based and local management platforms, giving network teams adaptable tools for configuration, monitoring, troubleshooting, and automation to meet diverse operational preferences.

Technical Specifications

Product Specifications

Feature	Value
Supported IOS	Network Advantage, Network Essentials
Network modules options	Fixed Modules
Stack Technology	StackWise-320
Stacking bandwidth	320 Gbps
MAC Addresses	32,000
IPv4 Routes	32,000 (24,000 direct routes and 8,000 indirect routes)
IPv6 Routes	16,000
Multicast Routing	8,000
QoS Entries	5,120
ACL Entries	5,120
Packet Buffer	16 MB buffer for 24 and 48 port Gigabit Ethernet models
Flexible NetFlow Entries	64,000 flows on 24- and 48-port Gigabit Ethernet models
DRAM	8 GB



Feature	Value
Flash	16 GB
VLAN IDs	4,094
Switched Virtual Interfaces (SVIs)	1,000
Jumbo Frames	9,198 bytes
Switching Capacity	56 Gbps - 176 Gbps
Forwarding Rate	41.66 Mpps - 130.95 Mpps

Product Comparison

Feature	C9300L-48PF-4X-A	C9200L-48P-4X-E	C9300L-48PF-4X-10E
Downlink Ports	48 × 1G PoE+	48 × 1G PoE+	48 × 1G PoE+
Uplink Ports	4 × 10G SFP+	4 × 10G SFP+	4 × 10G SFP+
Switching Capacity	56 Gbps - 176 Gbps	104 Gbps	120 Gbps
PoE Power Budget	Full PoE+	Full PoE+	Full PoE+
Stacking Bandwidth	320 Gbps	80 Gbps	320 Gbps
MAC Address Table	32,000	16,000	32,000
Layer 3 Routing	32,000 (IPv4), 16,000 (IPv6)	4,000 (IPv4), 2,000 (IPv6)	32,000 (IPv4), 16,000 (IPv6)
Management	Cloud & On-Premises	Cloud & On-Premises	Cloud & On-Premises

Accessories

Category	Accessories
Included Accessories	- Power Adapter - Rack Mount Kit - Console Cable
Optional Accessories	- SFP+ Transceiver Module - Redundant Power Supply - StackWise-320 Stacking Cable



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References

[1] Cisco. (2023). Cisco 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>