

Cisco
C9300L-48PF-4G-10E
Datasheet



Product Overview

- Cisco Catalyst 9300 Series switches set the enterprise campus standard, offering stackable Layer 3 access for modern network demands.
- This model is designed for corporations, educational institutions, distributed offices, and service providers needing scalable, flexible switching.
- Featuring 48x1G PoE+ ports, high stacking bandwidth up to 320 Gbps, and 4x1G uplinks to support high-density access reliably.
- Includes advanced security, flexible management by cloud or on-premises, and unified wired-wireless strategy for borderless IT.
- Simplified deployment, device virtualization, and policy-driven software-defined capabilities enable consistent user and device experiences.
- The C9300L-48PF-4G-10E helps teams confidently handle cloud migration, IoT expansion, and remote work environments everywhere.

Product Highlights

- **High-Density PoE+ Access:** Equipped with 48 × 1G PoE+ ports, this model delivers ample, reliable power to endpoints while reducing cabling complexity.
- **Scalable Stacking Capability:** Supports StackWise-320 and up to 320 Gbps stacking bandwidth for easy scaling, redundancy, and network reliability.
- **Flexible Network Uplinks:** Includes 4 × 1G uplink ports, enabling efficient aggregation and traffic handling for branches, offices, and campus networks.
- **Unified Management Support:** Compatible with Cisco DNA Center and Meraki dashboard for centralized monitoring, configuration, and troubleshooting.

Detailed Features



C9300L-48PF-4G-10E

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Component	Specification
Access Ports	48 × 1G PoE+
Uplink Ports	4 × 1G
Switching Capacity	56 Gbps - 176 Gbps
Stacking Bandwidth	320 Gbps
DRAM	8 GB



Enterprise-Grade Stacking

StackWise-320 technology delivers up to 320 Gbps bandwidth, supporting robust virtual stacking. It allows multiple switches to operate seamlessly as one unit, ensuring high availability, simplified management, and business continuity in campus or branch environments.

Full Power and Flexible Access

With 48 × 1G PoE+ ports, this model meets the needs of dense device deployments like wireless APs, IP phones, and video endpoints. It maximizes workspace flexibility while minimizing power cabling and ensures uninterrupted critical device operation.

Comprehensive Routing and Scalability

Support for advanced Layer 3 features, including 32,000 IPv4 routes, 16,000 IPv6 entries, and 8,000 multicast routes, guarantees efficient traffic control, future-ready migration paths, and the ability to serve large, diverse enterprise environments.

Rich QoS and Flow Management

5,120 QoS scale entries and 64,000 NetFlow records enable granular traffic shaping, deep flow visibility, and effective application performance control. This assures stability for latency-sensitive or bandwidth-intensive network services.

Application Hosting Flexibility

Hardware enhancements like increased RAM, app-specific interfaces, and support for hosting Cisco-signed apps natively on the switch create a platform for on-premise security and analytics, reducing add-on hardware.

Advanced Security Integration

Hardware-based 100G IPsec support, AES-256 encryption, and seamless connectivity to secure cloud gateways ensure compliance with modern cybersecurity demands for site-to-site and cloud services.

End-to-End Visibility Tools

Integration with Cisco ThousandEyes and support for advanced analytics provides continuous, real-time insights from campus to cloud. This simplifies troubleshooting and guarantees optimal user experience at scale.

Investment Protection & Compatibility

Backward-compatible power supplies, fans, and stacking cables help protect hardware investments. The switch supports all software lifecycle management models, ensuring longevity regardless of infrastructure upgrades.

Technical Specifications

Product Specifications

Feature	Value
Supported IOS	Network Advantage
Supported IOS	Network Essentials
Network modules options	Fixed Modules
Stack Technology	StackWise-320
Stacking bandwidth	320 Gbps
Total number of MAC addresses	32,000
Total number of IPv4 routes (ARP plus learned routes)	32,000 (24,000 direct routes and 8,000 indirect routes)
IPv6 routing entries	16,000
Multicast routing scale	8,000
QoS scale entries	5,120
ACL scale entries	5,120
Packet buffer per SKU	16 MB buffer for 24 and 48 port Gigabit Ethernet models



Feature	Value
Flexible NetFlow (FNF) entries	64,000 flow on 24- and 48-port Gigabit Ethernet models
DRAM	8 GB
Flash	16 GB
VLAN IDs	4094
Total Switched Virtual Interfaces (SVIs)	1000
Jumbo frames	9198 bytes
Switching capacity	56 Gbps - 176 Gbps
Forwarding rate	41.66 Mpps - 130.95 Mpps

Product Comparison

Feature	C9300L-48PF-4G-10E	C9200-48P-E	C9300L-48P-4X-E
Access Ports	48 × 1G PoE+	48 × 1G PoE+	48 × 1G PoE+
Uplink Ports	4 × 1G	4 × 1G	4 × 10G
Stacking Bandwidth	320 Gbps	160 Gbps	80 Gbps
Switching Capacity	56 Gbps - 176 Gbps	176 Gbps	104 Gbps
PoE Power Budget	Full PoE+ support	740W maximum	740W maximum
Layer 3 Routing	Yes	Yes	Yes
Management	Cisco DNA, Meraki compatible	Cisco DNA Center	Cisco DNA Center
Redundant Power	Supported	Supported	Not specified

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power Adapter - Rack Mount Kit - Console Cable



Category	Accessories
Optional Accessories	<ul style="list-style-type: none">- SFP Transceiver- Redundant Power Supply- StackWise Cable



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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>