



Cisco

C9300L-48PF-4G-E

Datasheet



Product Overview

- Cisco Catalyst 9300 Series is engineered as the leading stackable enterprise access switch, designed to enable secure and reliable network connectivity.
- Ideal for dynamic workplaces in business, education, and public sectors, the C9300L-48PF-4G-E serves enterprises of all sizes that need robust, scalable wired access.
- This switch offers 48 full PoE+ gigabit ports, 4 dedicated 1G uplinks, and delivers stack bandwidth up to 320 Gbps for high throughput and easy expansion.
- Industry-defining features include advanced PoE+ power delivery, StackWise-320 stacking, and flexible deployment options for evolving IT needs.
- Simplified cloud and on-premise management, unified wired and wireless control, and automated policy application help minimize IT complexity.
- The Catalyst 9300L-48PF-4G-E combines security, automation, and performance, driving digital transformation for hybrid workplaces across global enterprise environments.

Product Highlights

- High-Density PoE+ Support:** Delivers full 48-port 1G PoE+ for powering end devices like access points, IP phones, and cameras across the enterprise.
- Flexible Uplink Options:** Four integrated 1G SFP uplinks allow robust aggregation and seamless network scalability.

- StackWise-320 Technology:** High-performance stacking up to 320 Gbps enables future-proof, resilient network expansion.
- Advanced Security Integration:** Embedded security features and automation ensure protection and compliance for growing network demands.

Detailed Features



C9300L-48PF-4G-E

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Component	Specification
Switching Capacity	56 Gbps - 176 Gbps
Forwarding Rate	41.66 Mpps - 130.95 Mpps
Downlink Ports	48 × 1G PoE+
Uplink Ports	4 × 1G SFP
Stacking Bandwidth	320 Gbps



Robust StackWise-320 Stacking

The C9300L-48PF-4G-E supports StackWise-320 technology, enabling seamless stacking of multiple switches with a total stacking bandwidth of up to 320 Gbps. This provides excellent scalability, redundancy, and simplified management across enterprise switch deployments, making it ideal for expansion and future-proofing network investments.

High PoE+ Density for IoT Expansion

With 48 full PoE+ (IEEE 802.3at) gigabit ports, the switch powers a wide array of PoE-enabled devices including wireless access points, IP telephony, and security cameras. This makes it particularly effective in digital building and smart campus projects that require robust device connectivity and centralized power management.

Comprehensive Layer 3 Routing

The switch delivers strong Layer 3 routing with 32,000 IPv4 and 16,000 IPv6 entries, enabling complex routing tasks in enterprise or campus cores. Advanced protocols and flexibility meet the needs of hybrid architectures, supporting effective segment-based policy and streamlined backbone operations.

Flexible Network Application Hosting

Enhanced with application hosting capability, the switch supports multiple Cisco signed applications directly on the hardware. This provides in-switch threat detection, analytics, and performance optimization, eliminating the need for additional appliances.

Unified Cloud and On-Premises Control

The C9300L-48PF-4G-E offers centralized management via Cisco DNA Center or Meraki dashboard, giving IT administrators a unified view and simplified configuration for both wired and wireless domains. This minimizes management effort and supports hybrid environments with ease.

Advanced Security and Segmentation

Integrating context-aware analytics and group-based policies, the switch helps automate segmentation, threat detection, and policy enforcement. Hardware-based AES-256 encryption and Secure Tunnel connectivity protect data across distributed and edge networks.

Power Redundancy and Investment Protection

Redundant fan and power supply designs ensure uninterrupted operation, while backward compatibility with other Catalyst 9300 series units protects investment and simplifies upgrades in growing networks.

Full Support for Modern Applications

With 8GB DRAM and 16GB flash, up to 1TB stacking capability on specific SKUs, and 64,000 flexible NetFlow entries, the switch provides the application and bandwidth resources necessary for unified communications, cloud, and IoT traffic.

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
Total number of MAC addresses	32,000
Total number of IPv4 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



Feature	Value
Packet buffer per SKU	16 MB buffer for 24 and 48 port Gigabit Ethernet models
Flexible NetFlow (FNF) entries	64,000 flow on 24- and 48-port Gigabit Ethernet models
DRAM	8 GB
Flash	16 GB
VLAN IDs	4,094
Total 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-4G-E	C9200L-48PL-4G-E	C9300-48UXM-E
Downlink Ports	48 × 1G PoE+	48 × 1G PoE+	48 × MultiGigabit PoE+
Uplink Ports	4 × 1G SFP	4 × 1G SFP	4 × 1G/10G/25G SFP+
Stacking Bandwidth	320 Gbps	160 Gbps	480 Gbps
Switching Capacity	56 Gbps - 176 Gbps	104 Gbps	1.04 Tbps
Forwarding Rate	41.66 Mpps - 130.95 Mpps	77.38 Mpps	773.81 Mpps
PoE Power Budget	Full PoE+ on all ports	Full PoE+ on all ports	Full UPOE on all ports
Application Hosting	Supported	Not supported	Supported (Enhanced spec)
Management Options	DNA Center/Meraki/CLI	DNA Center/Meraki/CLI	DNA Center/Meraki/CLI
Layer 3 Routing	Advanced	Standard	Advanced/Programmable



Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none">- Power Cable- Mounting Kit- Quick Start Guide
Optional Accessories	<ul style="list-style-type: none">- SFP Module- Redundant Power Supply- StackWise-320 Cable



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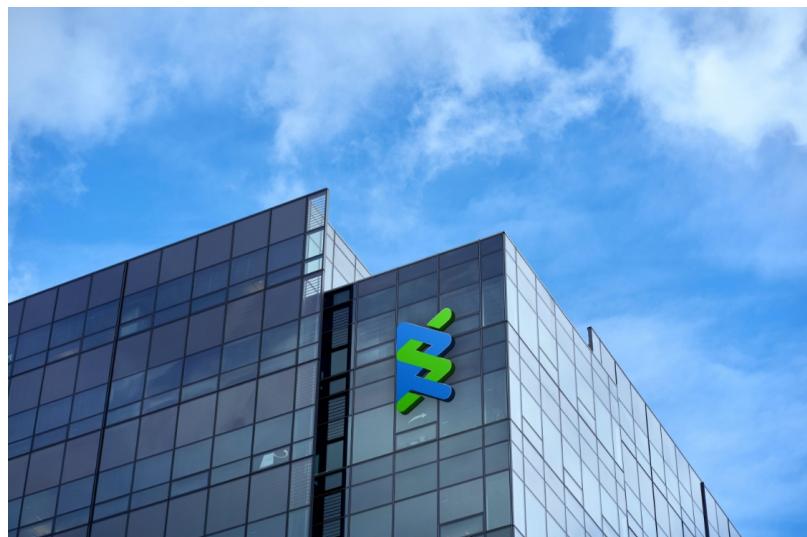


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References

[1] Cisco. (2024). Catalyst 9300 Series Switches Data Sheet. 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>