



Cisco

C9300L-48T-4G-E

Datasheet



Product Overview

- Cisco Catalyst 9300 Series is Cisco’s flagship stackable access switching platform for unified enterprise networks.
- It is designed for distributed, hybrid work environments, supporting businesses of all sizes, ideal for campuses, branches, and corporate networks.
- Delivers up to 48 × 1G ports, 4 × 1G uplinks, forwarding rate up to 130.95 Mpps, and a total switching capacity between 56–176 Gbps.
- Features include StackWise-320 technology for stack bandwidth up to 320 Gbps and hardware-based Layer 2/3 capabilities.
- Management is flexible: choose on-premise, virtual or Meraki cloud for configuration, troubleshooting, and application visibility.
- Empowers enterprises to build secure, scalable, and future-ready network fabrics that enable digital transformation and seamless business growth.

Product Highlights

- **Stackable Enterprise Performance:** Supports StackWise-320, delivering up to 320 Gbps stacking bandwidth for resilient campus networks.
- **Flexible Deployment Options:** Manage through CLI, web UI, or Meraki dashboard, matching diverse IT administrative needs.
- **Advanced Security Features:** Embedded with Cisco DNA and hardware encryption, ensuring secure access and data protection.
- **Comprehensive Layer 3 Routing:** Supports static, OSPF, BGP, and advanced QoS for high-performance and segmented network environments.

Detailed Features



C9300L-48T-4G-E

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Component	Specification
Downlink Ports	48×1G RJ45
Uplink Ports	4×1G SFP
Stack Bandwidth	320 Gbps
Switching Capacity	56–176 Gbps
Forwarding Rate	41.66–130.95 Mpps



High-Performance Enterprise Access

C9300L-48T-4G-E delivers powerful Layer 3 switching, supporting 48 1G ports and 4 1G SFP uplinks. It enables robust connectivity for high-density access deployments, campus core, and branch network scenarios. The high forwarding rate ensures low latency for business-critical tasks.

Robust StackWise-320 Architecture

Utilizing Cisco's StackWise-320, up to eight Catalyst 9300L units can operate as a single logical switch. With 320 Gbps stack bandwidth, switch stacking simplifies management, increases resiliency, and enables seamless network upgrades or expansions without disruption.

Advanced Layer 2/3 Routing Functions

This switch supports extensive Layer 2 protocols for simplified network segmentation and Layer 3 protocols (static, OSPF, BGP). It allows flexible routing, optimal resource utilization, and fine-grained control, ready for evolving enterprise network demands.

Comprehensive Security Features

Built-in features such as hardware-based AES-256 IPsec, advanced access control, and automatic network segmentation protect against security threats. These capabilities bolster compliance for distributed offices and IoT-dense environments.

Cloud and On-Premise Management

C9300L-48T-4G-E offers Cisco DNA Center and Meraki Dashboard compatibility, supporting cloud-managed, on-prem, or hybrid deployments. This flexibility matches diverse IT strategies and streamlines operations across locations.

Future-Proof Network Fabric

Support for Cisco DNA, SD-Access, and virtualization means businesses can automate policy, improve network analytics, and prepare for IoT/mobility while ensuring seamless growth from edge to cloud.

Enhanced QoS and Traffic Control

With up to 5,120 QoS scale entries and 64,000 Flexible NetFlow entries, administrators gain granular traffic management, visibility, and application assurances supporting voice, video, and business-critical apps easily.

Investment Protection

Backward-compatible stacking, redundant power and fan options, and modular OS upgrades safeguard existing infrastructure investments while supporting easy expansion and reliability planning.

Technical Specifications

Product Specifications

Feature	Value
Dimensions (H x W x D) inches	1.73 X 17.5 X 16.1
MTBF (hours)	387,860
Designed to replace	Catalyst 3850
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 (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



Feature	Value
ACL scale entries	5,120
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	4094
Total Switched Virtual Interfaces (SVIs)	1000
Jumbo frames	9,198 bytes
Switching capacity	56 Gbps - 176 Gbps
Forwarding rate	41.66 Mpps - 130.95 Mpps

Product Comparison

Feature	C9300L-48T-4G-E	C9300L-48PF-4X-10A	C9300L-48P-4G-E
Downlink Ports	48 × 1G RJ45	48 × 1G PoE+ RJ45	48 × 1G PoE+ RJ45
Uplink Ports	4 × 1G SFP	4 × 10G SFP+	4 × 1G SFP
PoE Support	No	PoE+	PoE+
Stack Bandwidth	320 Gbps	320 Gbps	320 Gbps
Switching Capacity	56 Gbps - 176 Gbps	104 Gbps	104 Gbps
Forwarding Rate	41.66 – 130.95 Mpps	77.38 Mpps	77.38 Mpps
Power Redundancy	Supported	Supported	Supported
Management	CLI, Web, Meraki Dashboard	CLI, Web, Meraki Dashboard	CLI, Web, Meraki Dashboard
Target Scenario	High-density access, non-PoE	High-performance, full PoE	Cost-effective, PoE for edge



Accessories

Category	Accessories
Included Accessories	- Power Cord - Rack Mount Kit - Console Cable
Optional Accessories	- SFP Transceiver Modules - Redundant Power Supply - StackWise-320 Cables



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References

[1] Cisco Systems. (2023). Cisco 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>