



Cisco

C9300L-48T-4X-E

Datasheet



Product Overview

- Cisco's Catalyst 9300 Series forms the backbone of enterprise-grade, stackable switches, emphasizing secure and scalable access.
- Ideal for mid-sized to large organizations, campuses, and distributed enterprises needing reliable and high-speed network connectivity.
- Key metrics include support for up to 48 Gigabit ports, 4 × 10G uplinks, and a switching capacity ranging from 56 Gbps to 176 Gbps.
- Supports advanced security with hardware-based IPsec, high-density stacking (up to 320 Gbps bandwidth), and flexible cloud management.
- Centralized management enables on-premises, virtual, or cloud-based deployment, simplifying daily operations and network monitoring tasks.
- Perfect for upgrading access or edge environments, the C9300L-48T-4X-E delivers secure, agile, and efficient enterprise network experiences.

Product Highlights

- **High Density Gigabit Ports:** Offers 48 x 1G Ethernet ports for wide device connectivity and future-ready enterprise deployments.
- **Flexible Uplink Options:** Equipped with 4 x 10G SFP+ uplink ports, ensuring fast data aggregation and long-distance connections.
- **Advanced StackWise Technology:** StackWise-320 provides up to 320 Gbps of stack bandwidth, improving scalability and redundancy.
- **Cloud and On-Premises Management:** Supports both Meraki dashboard cloud and local management for maximum operational flexibility.

Detailed Features



C9300L-48T-4X-E

[Quote | Help](#)

Component	Specification
Downlink Ports	48 × 1G Ethernet
Uplink Ports	4 × 10G SFP+
Switching Capacity	56 Gbps - 176 Gbps
Stack Bandwidth	320 Gbps
MAC Address Table	32,000 entries



Enterprise-Class Stacking

The switch supports StackWise-320 technology, uniting up to 8 switches in a stack with 320 Gbps bandwidth. This ensures resilience, rapid failover, and easy network capacity expansion.

Flexible Uplink Architecture

With 4 × 10G SFP+ uplinks, the model allows fast backbone connections, smooth migration to higher-speed networks, and optimizes traffic flows for diverse scenarios.

Comprehensive Layer 2/3 Support

Extensive Layer 2/3 protocols, including VLANs, SVIs, static and dynamic routing, and up to 32,000 MAC addresses, guarantee versatile deployment in access or aggregation roles.

Robust Security Mechanisms

Hardware-accelerated IPsec, support for group-based policies, and AES-256 encrypted tunnels protect data integrity, ensuring secure access across varied network zones and endpoints.

Intelligent Traffic Management

Advanced QoS, with 5,120 entries and Flexible NetFlow capability, provides granular control and full network visibility for optimized performance and troubleshooting.

Cloud and Virtual Management

Native Meraki dashboard and Cisco DNA Center integration enable unified monitoring, simplified configuration, and streamlined lifecycle management for IT teams.

High Performance Hardware

With 8 GB DRAM, 16 GB flash, and a dedicated 16 MB packet buffer, the switch delivers consistent packet processing and accommodates heavy campus or branch workloads.

Future-Proofed Scalability

Features such as 4,094 VLAN IDs, support for 1,000 SVIs, and up to 9,198-byte jumbo frames ensure the switch can smoothly scale as network demands and business grow.

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 (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
Flexible NetFlow (FNF) entries	64,000 flow on 24- and 48-port Gigabit Ethernet models
DRAM	8 GB



Feature	Value
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-48T-4X-E	C9300L-48PF-4G-E	C1000-48P-4X-L
Downlink Ports	48 × 1G Ethernet	48 × 1G Ethernet, PoE+	48 × 1G Ethernet, PoE+
Uplink Ports	4 × 10G SFP+	4 × 1G SFP	4 × 10G SFP+
Stacking Bandwidth	320 Gbps	80 Gbps	Not supported
Switching Capacity	56–176 Gbps	104 Gbps	104 Gbps
PoE Capability	Not supported	PoE+ (up to 740W)	PoE+ (up to 370W)
MAC Address Table	32,000	32,000	16,000
QoS/ACL Scale Entries	5,120 each	5,120 each	2,000 each
Management	Meraki/Cisco DNA Center/ CLI	Meraki/Cisco DNA Center/ CLI	CLI/Web GUI
Ideal Use Case	Enterprise access & stacking	PoE access for phones/APs	Simple PoE campus access

Accessories

Category	Accessories
Included Accessories	- Power Adapter - Mounting Brackets - Console Cable



Category	Accessories
Optional Accessories	- SFP Transceiver Modules - Redundant Power Supply - StackWise-320 Cables



Support & Warranty



24/7 Online
Service



3-Year Premium
Warranty



Professional
Technical Support



100% Low Price
Guarantee



100% Quality
Assurance



100% Money
Back Guarantee

About Us



Router-switch.com, headquartered in Hong Kong since 2002, has been a trusted global leader in ICT distribution for 23 years. We provide cutting-edge networking, cybersecurity, data center, and AI solutions to meet evolving business needs. Our wide range includes products from top brands like Cisco, Arista, Aruba, Fortinet, Mellanox, and Huawei, ensuring access to the latest technology and innovations.

18,000+

global customers

600,000+

end-users

200+

countries & regions

23

years experience

500+

global vendors

100,000+

SKUs available

700+

local sales experts

50-98%

off global list prices

Contact Us

Email

High Connectivity: sales@router-switch.com

Expert Technical Support: ccie-support@router-switch.com

Cooperative Partnerships: ccie-support@router-switch.com

Phone

USA: +1-626-655-0998

Hong Kong: +852-25925389 / +852-25925411

Follow Us

Facebook: [@Routerswitchdotcom](https://www.facebook.com/Routerswitchdotcom)

LinkedIn: [Router-switch.com](https://www.linkedin.com/company/router-switch.com)

X: [@routerswitchcom](https://twitter.com/routerswitchcom)

Instagram: [@routerswitchdotcom](https://www.instagram.com/routerswitchdotcom)

Global Footprint

Global Warehouses & Service Centers Across Continents.



Global Branches

Headquarters (Hong Kong)

Rm 605, 6/F, Fa Yuen Comm Bldg, 75-77 Fa Yuen St, Mongkok, Kowloon, Hong Kong, China

USA Branch

3592 Rosemead Blvd, B #220, Rosemead, CA 91770, USA

Shenzhen Branch

Jingfeng Building, 1001 Shangbu South Road, Futian District, Shenzhen, China

UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK



References

[1] Cisco. (2023). 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>