



# Cisco

# C9300L-48P-4X-E

## Datasheet

## Product Overview

- Cisco Catalyst 9300 Series switches represent the leading stackable enterprise access platform in Cisco's portfolio.
- Designed for dynamic workplaces and diverse endpoints, they are ideal for offices, campuses, and distributed networks.
- Key specs include 48 1G PoE+ copper ports, fixed 4x10G SFP+ uplinks, and up to 320 Gbps stacking bandwidth.
- Benefit from features like StackWise technology for simplified stacking, advanced security, and cloud-ready management.
- Seamless on-premises, virtual, or Meraki cloud management boosts network flexibility and centralized operations.
- The C9300L-48P-4X-E delivers robust access, optimized for both growing enterprises and high-density deployments.

## Product Highlights

- **High-Density PoE+ Access:** 48 Gigabit Ethernet PoE+ ports support a wide range of devices, including wireless APs, IP phones, and cameras.
- **Flexible Uplink Options:** Equipped with 4 x 10G/1G SFP+ uplink ports, enabling high-speed connectivity and flexible aggregation.
- **Advanced StackWise Technology:** Delivers up to 320 Gbps stacking bandwidth for seamless scalable deployments and operational simplicity.
- **Comprehensive Security & SD-Access:** Supports Cisco SD-Access, advanced encryption, and integrated analytics for consistent policy enforcement.

## Detailed Features



C9300L-48P-4X-E

 [Quote](#) | [Help](#)

Component	Specification
Downlink Ports	48 x 10/100/1000 Mbps PoE+ copper
Uplink Ports	4 x 10G/1G SFP+ fixed uplinks
Stacking Support	StackWise-320, up to 320 Gbps
Switching Capacity	56-176 Gbps
Form Factor	1RU fixed switch



## High-Density PoE+ and Flexible Uplink

The C9300L-48P-4X-E offers 48 Gigabit Ethernet PoE+ ports to power access points, cameras, and phones. Four fixed 10G/1G SFP+ uplinks provide high-speed connectivity and effortless integration into aggregation layers without the need for expansion modules, ensuring robust, reliable access in demanding network environments.

## Advanced StackWise-320 Technology

With StackWise-320, users can stack up to eight switches, achieving a total stacking bandwidth of up to 320 Gbps. This design enhances scalability, simplifies network growth, and increases redundancy. Hot-swappable stacking and redundant power options ensure continuous availability for enterprise applications.

## Full Layer 3 Routing and Multicast Support

Supporting full Layer 3 routing protocols, including static, OSPF, EIGRP, and BGP, the C9300L-48P-4X-E delivers advanced routing, multicast, and segmentation capabilities. This enables robust traffic management, efficient resource utilization, and seamless inter-VLAN routing, meeting complex enterprise demands.

## Comprehensive Security Features

Integrated advanced security features such as 802.1X, dynamic ARP inspection, and secure tunnel connectivity protect against today's sophisticated threats. Hardware-based AES-256 encryption is available for site-to-site IPsec tunneling, ensuring data integrity and secure access across the network.

## Optimized for Software-Defined Access

Natively supports Cisco Software-Defined Access (SD-Access), enabling seamless policy-based automation and group segmentation. Centralized management streamlines device deployment and unifies wired and wireless experiences, optimizing IT operations through programmability and analytics.

## Extensive Application Hosting Capabilities

With high-capacity CPU resources and Intel QuickAssist Technology, the switch can host multiple Cisco signed applications directly on the device. It enables enhanced security, detailed analytics, and value-added services at the access layer without extra hardware investments.

## Flexible Licensing and Investment Protection

Flexible Network Essentials and Network Advantage license models allow users to scale features as needed. Backward compatibility with Catalyst 9300 family stacking, fans, and power supplies ensure smooth upgrades and protect prior investments as network demands grow.

## Intuitive Cloud and On-Prem Management

Compatible with both on-premises and Cisco Meraki cloud platforms, the C9300L-48P-4X-E offers centralized monitoring, troubleshooting, and proactive alerts to reduce downtime and simplify network operations for organizations of every size.

# Technical Specifications

## Product Specifications

Feature	Value
Designed to replace	Catalyst 3850
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



Feature	Value
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
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-48P-4X-E	C9200-24P-A	C9300-48U-A
Downlink Ports	48 x 1G PoE+ copper	24 x 1G PoE+ copper	48 x 1G UPOE copper
Uplink Ports	4 x 10G/1G SFP+	4 x 1G SFP	4 x 1G/10G SFP+
PoE Power Budget	Up to 740W	445W	Up to 1440W
Stacking Bandwidth	320 Gbps	160 Gbps	480 Gbps
Switching Capacity	56-176 Gbps	56-80 Gbps	176 Gbps
Routing Support	Full Layer 3	Layer 2/Basic Layer 3	Full Layer 3
Management	On-prem/Cloud/Meraki	On-prem/Cloud	On-prem/Cloud
Form Factor	1RU fixed	1RU fixed	1RU fixed



## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"><li>- Power Cord</li><li>- Rack Mount Kit</li><li>- Console Cable</li></ul>
Optional Accessories	<ul style="list-style-type: none"><li>- SFP+ Transceiver</li><li>- Redundant Power Supply</li><li>- StackWise-320 Cable</li></ul>



## 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](mailto:sales@router-switch.com)

**Expert Technical Support:** [ccie-support@router-switch.com](mailto:ccie-support@router-switch.com)

**Cooperative Partnerships:** [ccie-support@router-switch.com](mailto: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>