

**Cisco**  
**C9300L-48T-4X-10A**  
**Datasheet**



## Product Overview

- Cisco Catalyst 9300 Series is the flagship stackable enterprise access switch line designed to power secure, scalable networks.
- Built for midsize and large organizations, it enables campus, branch, and distributed work environments for a hybrid workforce.
- Delivers 48 x 1G data ports, 4 x 10G uplinks, a 176 Gbps switching capacity, and Stackwise-480 technology for high throughput.
- Features advanced security, flexible stacking for up to eight switches, and future-ready modular uplinks for network flexibility.
- Supports both on-premises and cloud-based management with unified policies, application hosting, and Cisco DNA licensing options.
- Ideal for environments seeking simplified operations and secure, policy-driven automation across wired and wireless access networks.

## Product Highlights

- **High Performance Stacking:** Includes StackWise-480 technology for seamless stacking and increased bandwidth across multiple switches.
- **Flexible Uplink Options:** 4 x 10G SFP+ uplink ports offer high-speed, scalable connectivity for aggregation or backbone integration.
- **Enhanced Security Capabilities:** Integrated with advanced hardware security and encrypted tunnel options, meeting modern cybersecurity needs.
- **Unified Cloud and Local Management:** Supports Cisco DNA Center and Meraki Dashboard, enabling easy and flexible switch management choices.

## Detailed Features



C9300L-48T-4X-10A

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Component	Specification
Switching Capacity	176 Gbps
Forwarding Rate	130.95 Mpps
Downlink Ports	48 x 1G Ethernet
Uplink Ports	4 x 10G SFP+
StackWise Support	Yes (StackWise-480)



## Industry-Leading Stacking Bandwidth

Supports Cisco StackWise-480 for up to 480 Gbps stacking bandwidth. This ensures resilient, high-throughput connections with minimal latency and easy scalability. Up to eight switches can stack for large campus or branch needs, reducing management complexity and simplifying expansion.

## Flexible 10G Uplink Capability

Provides four built-in 10G SFP+ uplinks, enabling seamless integration into high-speed core networks or aggregation layers. The high uplink capacity supports rapid data transfers and future-proofs access infrastructure for growing bandwidth requirements.

## Comprehensive Layer 3 Routing

Supports advanced Layer 2 and Layer 3 routing protocols, including static routing, OSPF, EIGRP, and BGP. This feature enables intelligent traffic management, route optimization, and efficient load balancing, critical for modern enterprise networks.

## Scalable Address & VLAN Resources

With support for 32,000 MAC addresses, 32,000 IPv4 and 16,000 IPv6 routes, 4,094 VLANs, and 1,000 SVIs, the switch can handle dense network environments and complex segmentation needs. This capacity ensures smooth operation for campus, branch, or service provider use.

## Advanced Network Security Integration

Integrated secure tunneling and hardware-based IPsec up to line rate enables robust security at the network edge. Secure Tunnel connectivity, stateful traffic inspection, and AES-256 encryption protect sensitive data and facilitate compliance in regulated industries.

## Unified Wired and Wireless Policy

Through Cisco DNA Center or Meraki Dashboard, manage wired and wireless networks together with unified policies. This integration helps simplify access control, visibility, and troubleshooting while supporting digital workplace transformation.

## High Availability and Power Resiliency

Offers StackPower and redundant power options, providing non-stop operation and enhanced resiliency. Network downtime is minimized through automated failover and hot-swappable hardware components, supporting business continuity.

## Application Hosting & Analytics

With expanded RAM and embedded application hosting, onboard Cisco or third-party analytics and security apps with minimal impact on performance. ThousandEyes and Cisco ASA Virtual integration enable real-time path monitoring and advanced threat protection for hybrid and cloud-connected environments.

# Technical Specifications

## Product Specifications

Feature	Value
Product Description	C9300L 48p Data, Netw Adv, 4x10G Uplink
Total 10/100/1000 or Multigigabit Copper Ports	48 Data
Uplink Configuration	4x 10G Fixed Uplinks
Default AC Power Supply	350W
Dimensions (H x W x D)	1.73 x 17.5 x 16.1 in
Cisco StackWise-480	Yes
Cisco StackPower	Yes
Switching Capacity	176 Gbps
Stacking Bandwidth	496 Gbps
Forwarding Rate	130.95 Mpps
Total Number of MAC Addresses	32,000



Feature	Value
Total Number of IPv4 Routes (ARP plus learned routes)	32,000 (24,000 direct routes and 8,000 indirect routes)
IPv4 Routing Entries	32,000
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- or 48-port Gigabit Ethernet Models
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
Total Routed Ports Catalyst per 9300 Series Stack	416
Wireless Bandwidth per Switch	Up to 96 Gbps on 48-port Gigabit Ethernet Model
Mean Time Between Failures – MTBF (hours)	380,080
Safety Certifications	UL 60950-1, CAN/CSA-C22.2 No. 60950-1, EN 60950-1, IEC 60950-1, AS/NZS 60950.1, IEEE 802.3

## Product Comparison

Feature	C9300L-48T-4X-10A	C9300L-48T-4X-E	C9300-48S-E
Switching Capacity	176 Gbps	176 Gbps	256 Gbps
Downlink Ports	48 × 1G Ethernet	48 × 1G Ethernet	48 × SFP 1G
Uplink Ports	4 × 10G SFP+	4 × 10G SFP+	4 × 10G SFP+
Stacking Bandwidth	496 Gbps	496 Gbps	480 Gbps
PoE Support	No	No	No
Layer 3 Routing	Yes	Yes	Yes



Feature	C9300L-48T-4X-10A	C9300L-48T-4X-E	C9300-48S-E
Cloud/On-Prem Management	Yes	Yes	Yes
Power Redundancy	Yes, StackPower	Yes, StackPower	Yes, StackPower
Suitable For	Enterprise access/core	Enterprise access/core	Optical access scenarios

## Accessories

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



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### UK Branch

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## References

[1] Cisco Systems. (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>