



Cisco

C9200L-48T-4X-A

Datasheet



Product Overview

- Cisco's Catalyst 9200 Series C9200L-48T-4X-A delivers secure, reliable Layer 3 enterprise-grade switching with simplified management.
- Ideal for branches, small and mid-sized businesses, and distributed enterprise environments needing enhanced performance.
- Delivers 48 data ports with 10/100/1000 Mbps speeds, 4 fixed 10G uplinks, and up to 176 Gbps of switching capacity for demanding networks.
- Unique features include Cisco Network Advantage software for advanced security, flexible stack bandwidth up to 80 Gbps, and robust hardware resiliency.
- Redundant fixed fans and straightforward primary AC power ensure high availability and ease of operation, minimizing network downtime.
- Empowering efficient, scalable growth, C9200L-48T-4X-A ensures secure, reliable connectivity for dynamic campus, branch, and business access deployments.

Product Highlights

- **High Port Density:** 48 × 10/100/1000 data ports provide excellent scalability for expanding enterprise networks.
- **10G Uplink Performance:** Four fixed 10G uplink ports enable fast data transfer and efficient network aggregation.
- **Advanced Software Features:** Equipped with Cisco Network Advantage for enhanced security, automation, and management tools.
- **Robust Hardware Redundancy:** Fixed redundant fans and AC power supply ensure stability and continuous operation.

Detailed Features



C9200L-48T-4X-A

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Component	Specification
Downlink Ports	48 × 10/100/1000 Mbps data
Uplink Ports	4 × 10G fixed uplinks
Switching Capacity	176 Gbps
Stacking Bandwidth	80 Gbps
Power Supply	PWR-C5-125WAC, primary AC (fixed redundant fans)

High-Density Access Switching

The C9200L-48T-4X-A features 48 x 10/100/1000 Mbps downlink ports to provide outstanding scalability. It is optimized for high-density environments, allowing businesses to connect numerous devices without sacrificing performance or reliability. This model is well-suited for mid-size offices, campus buildings, and environments with demanding access needs.

Powerful 10G Uplink Capabilities

With 4 fixed 10G SFP+ uplink ports, the switch delivers robust high-speed connectivity to the aggregation or core layers. This design supports seamless integration of bandwidth-heavy applications and large-scale deployments, ensuring rapid data transfer and network convergence across multiple segments.

Advanced Security Features

Equipped with Cisco Network Advantage software, the C9200L-48T-4X-A supports enterprise-grade security such as advanced access control lists (ACLs), segmentation, and macro/micro-segmentation. These capabilities help protect sensitive business data and defend against modern external and internal network threats.

Scalable Stacking and Virtualization

The device offers up to 80 Gbps stacking bandwidth, enabling simple expansion and operational flexibility. Virtual network support and switched virtual interfaces (SVIs) allow for logical network separation and better traffic management, which is essential for growing, evolving network infrastructures.

Resilient Hardware Design

The switch includes a primary AC power supply and fixed redundant fans as standard, which increases uptime and supports reliability. Such redundancy is fundamental for mission-critical deployments where uninterrupted network services are required.

Comprehensive L3 Routing Support

Supporting 3,000 IPv4 and 1,500 IPv6 routing entries with protocol flexibility, the switch is ready for dynamic routing and hybrid IP environments. This promotes seamless migration to IPv6 and management of complex network topologies efficiently.

Optimized Traffic Flow and Buffering

With 6 MB packet buffers and support for 16,000 MAC addresses and NetFlow entries, the switch handles high traffic loads and bursty data efficiently. Its QoS and multicast routing scales, and quality of service ensure smooth operations for voice, video, and business-critical applications.

Simplified Management and Maintenance

Flexible CLI, integrated software solutions, and centralized management reduce operation complexity. Features like jumbo frame support and robust mean time between failures (MTBF) translate to lower maintenance costs and easier ongoing operation for IT teams.

Technical Specifications

Product Specifications

Feature	Value
Downlinks total 10/100/1000 or PoE+ copper ports	48 ports data
Uplink configuration	4x 10G fixed uplinks
Default primary AC power supply	PWR-C5-125WAC
Fans	Fixed redundant
Software	Network Advantage
Chassis Dimensions	1.73 x 17.5 x 11.3 in / 4.4 x 44.5 x 28.8 cm
Virtual Networks	1
Stacking bandwidth	80 Gbps
Total number of MAC addresses	16,000
Total number of IPv4 routes (ARP plus learned routes)	11,000 (8,000 direct routes and 3,000 indirect routes)



Feature	Value
IPv4 routing entries	3,000
IPv6 routing entries	1,500
Multicast routing scale	1,000
QoS scale entries	1,000
ACL scale entries	1,500
Packet buffer per SKU	6 MB buffers for 24- or 48-port Gigabit Ethernet models
Flexible NetFlow (FNF) entries	16,000 flows on 24- and 48-port Gigabit Ethernet models
DRAM	2 GB
Flash	4 GB
VLAN IDs	1024
Total Switched Virtual Interfaces (SVIs)	512
Jumbo frames	9198 bytes
Switching capacity	176 Gbps
Forwarding rate	261.9 Mpps
Mean time between failures (hours)	503,400

Product Comparison

Feature	C9200L-48T-4X-A	N9K-C93180YC-FX3	NVIDIA Mellanox MSN2100-CB2RC
Downlink Ports	48 × 10/100/1000 Mbps	48 × 1/10/25G SFP28	16 × 100GbE QSFP28
Uplink Ports	4 × 10G SFP+	6 × 40/100G QSFP28	16 × 100GbE QSFP28
Switching Capacity	176 Gbps	7.2 Tbps	3.2 Tbps
Stacking	Up to 80 Gbps bandwidth	Supported (vPC, VXLAN EVPN)	No
Power Supply	Primary AC, fixed redundant fans	Dual redundant AC/hot swappable	Redundant hot-swappable AC
Layer 3 Support	Yes, with Network Advantage	Yes, advanced	Yes, advanced
Management	Cisco CLI, Web UI, centralized	NX-OS, DCNM, CLI	Onyx/NOS, CLI, Web UI



Feature	C9200L-48T-4X-A	N9K-C93180YC-FX3	NVIDIA Mellanox MSN2100-CB2RC
Usage Scenario	Campus/branch access	Data center core/ aggregation	High-performance data center ToR

Accessories

Category	Accessories
Included Accessories	- Power Adapter - Rack Mount Kit - Quick Start Guide
Optional Accessories	- SFP+ Transceiver - Stacking Cable - Redundant Power Supply



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References

[1] Cisco Systems. (2024). Catalyst 9200 Series Switches Data Sheet. Retrieved from <https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-9200-series-switches/nb-06-cat9200-ser-data-sheet-cte-en.html>