

**Cisco**  
**C9200L-48T-4G-A**  
**Datasheet**



## Product Overview

- The Cisco Catalyst C9200L-48T-4G-A is a compact enterprise switch in the renowned Catalyst 9200 Series, designed for secure, simple, and resilient network access.
- Targeted at businesses, schools, and distributed sites, it fits integrators, resellers, and end customers needing reliable campus or branch network solutions.
- Key metrics include 48 Gigabit Ethernet ports for data, four 1G fixed uplinks for high aggregate throughput, and 104 Gbps switching capacity.
- Highlights include fixed redundant cooling fans for reliability, 16,000 MAC address support for large user bases, and support for 512 switched virtual interfaces.
- Management is straightforward through Cisco's Network Advantage software, centralizing control and enabling policy automation, ideal for diverse environments.
- Perfect for organizations prioritizing secure, efficient, and scalable networks, the C9200L-48T-4G-A delivers reliable performance and future-ready flexibility.

## Product Highlights

- **48-Port Full Gigabit Access:** Delivers 48 high-speed 10/100/1000 Mbps data ports, ensuring fast and stable device connectivity in enterprise setups.
- **Flexible Uplink Architecture:** Equipped with 4 fixed 1G uplinks, supporting network expansion and fast interconnection in campus or distributed office deployments.
- **Redundant Cooling System:** Built-in fixed redundant fans offer greater system reliability and continuous operation in demanding environments.
- **Network Advantage Software:** Includes Cisco's advanced software features for comprehensive security, network policy enforcement, and automated management.

## Detailed Features



C9200L-48T-4G-A

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Component	Specification
Switching Capacity	104 Gbps
Downlink Ports	48 × 10/100/1000Base-T
Uplink Ports	4 × 1G fixed uplinks
Power Supply	PWR-C5-125WAC (default AC supply)
Redundant Fans	Fixed redundant



## High Port Density

With 48 data downlink ports, the switch efficiently supports dense user environments, connecting workstations, wireless access points, and IoT devices in large office spaces and campuses. This port count reduces cabling complexity and simplifies core or access layer deployments.

## Flexible Uplink Design

Four 1-Gigabit fixed uplinks empower users to aggregate links, connect to upstream devices, or extend network segments. This offers strong scalability, lets businesses expand without disruptions and supports multi-site connectivity through fast and reliable uplinks.

## Robust Layer 2/3 Capabilities

The switch handles up to 16,000 MAC addresses, 11,000 IPv4 routes, 3,000 IPv4, and 1,500 IPv6 entries. Such capacity ensures smooth network segmentation, efficient routing, and stable traffic flow, even in highly dynamic or complex topologies.

## Comprehensive Security and Policy Enforcement

Powered by Cisco Network Advantage software, the C9200L-48T-4G-A enables advanced security functions like ACLs and policy-based automation. This controls access, segments networks, and supports regulatory compliance for enterprise and branch office deployments.

## Reliable Hardware Design

The switch features fixed redundant fans and a robust power supply, reducing hardware failure risks. Its 508,700 MTBF hour rating means extended uptime, critical for 24/7 operations in enterprise or service provider environments.

## Advanced Quality of Service

Supporting 1,000 QoS scale entries, the device prioritizes critical communications such as voice or video, enhances end-user experiences, and delivers consistent performance under peak loads or congested conditions.

## Efficient Traffic Monitoring

With built-in Flexible NetFlow supporting 16,000 flows, network admins gain clear visibility into traffic patterns. This speeds up troubleshooting, capacity planning, and security monitoring without requiring external appliances.

## Scalable Network Segmentation

Support for 1024 VLAN IDs and up to 512 switched virtual interfaces allows precise segmentation of resources and user groups. This boosts security, simplifies management, and enables organizations to flexibly adapt to organizational or workflow changes.

# Technical Specifications

## Product Specifications

Feature	Value
Downlinks total 10/100/1000 or PoE+ copper ports	48 ports data
Uplink configuration	4x 1G 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)
IPv4 routing entries	3,000



Feature	Value
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
Wireless bandwidth per switch	N/A
Switching capacity	104 Gbps
Forwarding rate	154.76 Mpps
Mean time between failures (hours)	508,700

## Product Comparison

Feature	C9200L-48T-4G-A	C9300L-48PF-4G-A	C9200L-24P-4G-E
Downlink Ports	48 × 10/100/1000Base-T	48 × 10/100/1000Base-T (PoE+)	24 × 10/100/1000Base-T (PoE+)
Uplink Ports	4 × 1G fixed uplinks	4 × 1G fixed uplinks	4 × 1G fixed uplinks
Switching Capacity	104 Gbps	104 Gbps	56 Gbps
PoE Support	No	Yes, full port PoE+	Yes, half port PoE+
MAC Address Table	16,000	16,000	16,000
Stacking Bandwidth	80 Gbps	80 Gbps	80 Gbps
Default Power Supply	PWR-C5-125WAC	PWR-C5-125WAC	PWR-C5-125WAC



Feature	C9200L-48T-4G-A	C9300L-48PF-4G-A	C9200L-24P-4G-E
Fan Redundancy	Fixed redundant	Fixed redundant	Fixed redundant
Software	Network Advantage	Network Advantage	Network Essentials
Suitable For	Data access, non-PoE scenario	Data+PoE power, wireless+IP telephony	Cost-effective mid-sized PoE deployments

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Power Adapter</li> <li>- Mounting Kit</li> <li>- Quick Start Guide</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- SFP Transceiver Modules</li> <li>- Stack Kit</li> <li>- Redundant Power Supply</li> </ul>



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## References

[1] Cisco Systems. (2023). Catalyst 9200 Series Switches Datasheet. 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>