



Cisco

C9200L-48P-4G-A

Datasheet

Product Overview

- Cisco's Catalyst 9200L Series delivers secure, always-on switching for enterprise campus access networks.
- The C9200L-48P-4G-A suits businesses, distributed offices, and organizations needing scalable gigabit wired connectivity.
- With 48 full PoE+ ports, 4 fixed 1G uplinks, and 104Gbps switching, it offers ample capacity for demanding workplace environments.
- Key features include full-feature PoE+ support on all access ports, fixed redundant fans, and advanced security with Network Advantage software.
- Deployment is simplified by flexible management, centralized security policies, and stackable architecture delivering 80Gbps stacking bandwidth.
- C9200L-48P-4G-A brings reliable, high-density gigabit access to diverse networks, maximizing uptime and supporting IoT-ready enterprise growth.

Product Highlights

- **High-Density PoE+ Access:** 48 ports with full PoE+ support provide power and connectivity for IP phones, cameras, and wireless APs.
- **Enterprise-Class Uplinks:** 4 x 1G fixed uplinks ensure seamless aggregation and bandwidth scalability for evolving business needs.
- **Built-In Redundancy:** Fixed redundant fans and AC power deliver continuous operation with minimal downtime.
- **Advanced Network Security:** Network Advantage software enables access control and rich Layer 3 features for secure enterprise deployments.

Detailed Features



C9200L-48P-4G-A

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Component	Specification
Downlink Ports	48 × 10/100/1000 or PoE+ copper ports
PoE Support	48 ports full POE+
Uplink Ports	4 × 1G fixed uplinks
Power Supply	Default primary AC power supply (PWR-C5-1KWAC)
Fans	Fixed redundant



Full PoE+ for Device Power

C9200L-48P-4G-A delivers full IEEE 802.3at PoE+ on all 48 access ports, powering high-density deployments of IP phones, CCTV, and wireless APs. This eliminates the need for separate power sources and streamlines cable management in workspaces and public areas.

High-Performance Switching Fabric

With a switching capacity of 104 Gbps and forwarding rate of 154.76 Mpps, the switch ensures non-blocking data transfer for growing business traffic. The platform efficiently handles high-bandwidth applications and heavy LAN workloads, reducing bottlenecks.

Reliable Uplink Flexibility

Four fixed 1G SFP uplinks offer scalable aggregation for LAN or WAN extensions, enabling seamless network expansion and redundancy strategies. This supports both core access and distribution scenarios within campus environments.

Robust Hardware Design

Fixed redundant fans and primary AC (PWR-C5-1KWAC) power supply ensure stable, continuous operation. The hardware is engineered for maximum reliability, safeguarding business continuity during system upgrades or power events.

Advanced Software Features

Running on Network Advantage, the device enables secure Layer 3 routing, flexible VLANs, ACLs, policy-based segmentation, and automation. It meets advanced enterprise requirements for security, access control, and segmentation.

Comprehensive Management Tools

The switch supports centralized and remote management via CLI, Web UI, SNMP, and Cisco DNA Center. Simplified deployment and proactive monitoring reduce operational overhead for IT administrators.

Extensive Network Scalability

With capacity for 16,000 MAC addresses, 11,000 IPv4 routes, 1024 VLANs, and 80Gbps stack bandwidth, the C9200L-48P-4G-A scales with rapidly growing organizations and diverse network topologies.

Optimized for IoT and Mobility

The platform supports jumbo frames, policy-based QoS, and 16,000 NetFlow entries. This is ideal for IoT, video, and high-density wireless deployments, delivering high performance and reliable service under demanding scenarios.

Technical Specifications

Product Specifications

Feature	Value
Downlinks total 10/100/1000 or PoE+ copper ports	48 ports full POE+
Uplink configuration	4x 1G fixed uplinks
Default primary AC power supply	PWR-C5-1KWAC
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
IPv6 routing entries	1,500
Multicast routing scale	1,000



Feature	Value
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)	347,760

Product Comparison

Feature	C9200L-48P-4G-A	C9300L-48P-4X-E	C9200-48P-E
Downlink Ports	48 × 10/100/1000 or PoE+	48 × 10/100/1000 or PoE+	48 × 10/100/1000 or PoE+
Uplink Ports	4 × 1G SFP	4 × 10G SFP+	4 × 1G SFP
Max Switching Capacity	104 Gbps	136 Gbps	176 Gbps
PoE/PoE+ Support	Full PoE+ (48 ports)	Full PoE+ (48 ports)	Full PoE+ (48 ports)
Stacking Bandwidth	80 Gbps	80 Gbps	160 Gbps
Software Version	Network Advantage	Network Essentials/ Advantage	Network Advantage
Redundant Power Option	Yes	Yes	Yes
Physical Dimensions	1.73 x 17.5 x 11.3 in	1.73 x 17.5 x 11.3 in	1.73 x 17.5 x 17.5 in



Feature	C9200L-48P-4G-A	C9300L-48P-4X-E	C9200-48P-E
Use Case	Access layer, IoT-ready	Access, higher uplink bandwidth	Access, extensive stacking

Accessories

Category	Accessories
Included Accessories	- AC Power Supply - Mounting Kit - Console Cable
Optional Accessories	- SFP Transceiver - Redundant Power Supply - Rackmount Kit



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References

[1] Cisco Systems. (2023). Cisco 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>