

**Cisco**  
**C9200L-48PXG-2Y-E**  
**Datasheet**



## Product Overview

- Cisco's Catalyst 9200L Series is built for enterprise access, offering reliable high-performance Layer 3 switching in modern networks.
- The C9200L-48PXG-2Y-E suits mid-to-large branches, campus edge, and digital workplaces requiring robust PoE, fast uplinks, and secure segmentation.
- It delivers 48 full PoE+ ports with 8 multigigabit up to 10G, 2x 25G fixed uplinks, 340 Gbps switching, and 252.97 Mpps forwarding rate.
- With advanced Layer 3 routing, ample MAC/route tables, and Cisco's Network Essentials, it supports growing IoT and endpoint needs.
- Easy stacking, fixed redundant fans, and flexible NetFlow ensure scalable performance for real-world demands and simplified management.
- The C9200L-48PXG-2Y-E is ideal for campus upgrades, enabling secure, scalable, and easy-to-manage wired infrastructure for business-critical operations.

## Product Highlights

- **High-Capacity PoE+ Access:** 48 full PoE+ ports, with 8 multigigabit ports up to 10G, power more endpoints and smart devices seamlessly.
- **Future-Proof Uplinks:** 2 fixed 25G uplink ports enable ultra-fast core connectivity to support cloud, server, and campus backbone expansion.
- **Resilient Stack and Power:** Fixed redundant fans and stackable bandwidth up to 80 Gbps ensure high availability and scalability.
- **Comprehensive Network Essentials:** Layer 3 routing, advanced QoS, and rich security in a simple license make deployment and daily operations easy to manage.

## Detailed Features



C9200L-48PXG-2Y-E

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Component	Specification
Downlink Ports	48 full PoE+ (8 mGig up to 10G, 40 up to 1G)
Uplink Ports	2 × 25G fixed
Power Supply	PWR-C5-1KWAC (Primary AC)
Stacking Bandwidth	80 Gbps
Switching Capacity	340 Gbps



## Full-Powered Multigigabit PoE+ Access

The switch delivers 48 PoE+ ports, including 8 multigigabit interfaces supporting up to 10 Gbps, and 40 gigabit-capable ports. This structure enables seamless support for Wi-Fi 6/6E APs, smart devices, and IoT deployments, accommodating high-bandwidth endpoints while maintaining reliable power delivery. Organizations can easily scale device density without power limitations or port bottlenecks.

## Superior High-Speed Uplinks

With two fixed 25G uplink ports, the C9200L-48PXG-2Y-E offers significant uplink headroom, ensuring the access layer never becomes a network bottleneck. These uplinks provide smooth integration to distribution or core layers in larger networks. Enterprises benefit from investment protection as network traffic grows and backbone speed demands increase across digital campuses.

## Robust Performance and Reliability

A 340 Gbps switching capacity and 252.97 Mpps forwarding rate support heavy real-time data transfer, VoIP, and high-density wireless simultaneously. Designed with fixed redundant fans and the PWR-C5-1KWAC power supply, it guarantees continuous operation and minimizes unscheduled downtime.

## Extensive Layer 3 Routing and Segmentation

Advanced Layer 3 features, including static and dynamic routing with support for up to 11,000 IPv4 routes and segmentation for up to 1,024 VLANs, enable smart and secure traffic flows. This flexibility fits both flat and segmented network topologies as required by enterprise security and performance best practices.

## Comprehensive Application Visibility and Management

Flexible NetFlow monitoring up to 16,000 flows and support for advanced QoS grants visibility and fine-tuned traffic engineering. Admins benefit from rich telemetry and proactive control for critical applications improving end-user experience and simplifying compliance.

## Enterprise-Grade Security and Access Control

Support for up to 1,500 ACL entries enables granular access security, and 1,000 multicast routing scale meets complex enterprise needs. Advanced security features guard against threats while supporting guest, IoT, and internal devices with policy segmentation.

## Effortless Scalability with Cisco Stacking

An 80 Gbps stacking bandwidth and chassis-level virtual networking ensure simple scaling and redundancy. Adding switches expands capacity or HA, while centralized management and software upgrades reduce operational overhead and risk during scaling events.

## Operational Efficiency and Service Continuity

High MTBF (Mean Time Between Failures) of 337,260 hours, fixed redundant cooling, and embedded diagnostics maximize device uptime. Automated management via Cisco's Network Essentials brings multi-platform integration, lessening manual effort and supporting modern IT infrastructure strategies.

# Technical Specifications

## Product Specifications

Feature	Value
Downlinks Total 10/100/1000 or PoE+ Copper Ports	48 ports full POE+ (8 mGig ports up to 10G, 40 ports up to 1G)
Uplink Configuration	2x 25G fixed uplinks
Default Primary AC Power Supply	PWR-C5-1KWAC
Fans	Fixed redundant
Software	Network Essentials
Chassis Dimensions	1.73 x 17.5 x 13.8 in (4.4 x 44.5 x 35.0 cm)
Virtual Networks	1
Stacking Bandwidth	80 Gbps



Feature	Value
Total Number of MAC Addresses	16,000
Total Number of IPv4 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
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	340 Gbps
Forwarding Rate	252.97 Mpps
Mean Time Between Failures (Hours)	337,260

## Product Comparison

Feature	C9200L-48PXG-2Y-E	C9300L-48PF-4G-10E	C9200L-48PL-4G-E
Fixed Ports	48 x 10/100/1000 (8 mGig up to 10G, 40 up to 1G) Full POE+	48 x 10/100/1000 POE+	48 x 10/100/1000 POE+
Uplink Ports	2 x 25G fixed	4 x 1G/10G SFP+	4 x 1G SFP
Switching Capacity	340 Gbps	176 Gbps	136 Gbps
Stacking Bandwidth	80 Gbps	160 Gbps	80 Gbps
Maximum PoE Power	Full PoE+ (all ports)	Full PoE+ (all ports)	Full PoE+ (all ports)



Feature	C9200L-48PXG-2Y-E	C9300L-48PF-4G-10E	C9200L-48PL-4G-E
Layer 3 Routing	Yes (up to 11,000 IPv4 routes)	Yes	Yes
Redundant Components	Fixed redundant fans	Field-replaceable power/fans	Fixed redundant fans
Software	Network Essentials	Network Essentials	Network Essentials
Dimensions (H x W x D)	1.73 x 17.5 x 13.8 in	1.73 x 17.5 x 13.8 in	1.73 x 17.5 x 13.8 in

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Power Adapter</li> <li>- Console Cable</li> <li>- Mounting Bracket</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- SFP Transceiver</li> <li>- Rack Mount Kit</li> <li>- Redundant Power Supply</li> </ul>



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### USA Branch

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### 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 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>