



Cisco

C9200L-24PXG-4X-A

Datasheet



Product Overview

- Cisco's Catalyst 9200L Series switches, like the C9200L-24PXG-4X-A, deliver robust, secure, enterprise-class access networking.
- Targeted at small to medium businesses, campus branches, and distributed enterprises, it offers high scalability and secure connectivity.
- It provides 24 full PoE+ ports, including 8 mGig (up to 10G), 16 ports (up to 1G), and four integrated 10G uplinks for advanced performance.
- Flexible Layer 3 routing, advanced QoS, and reliable stacking up to 80 Gbps make it stand out for evolving networks.
- Centralized management and intuitive deployment reduce IT workload, enabling rapid setup and smooth ongoing operations.
- Designed for dynamic business, the C9200L-24PXG-4X-A empowers organizations with stability, scalability, and security in any network environment.

Product Highlights

- **Multi-Gigabit PoE+ Ports:** 8 mGig PoE+ ports support up to 10G each, enabling fast speed for advanced devices and high-powered endpoints.
- **High Bandwidth Uplinks:** 4 × 10G fixed uplinks offer robust links to core or aggregation switches, ensuring minimal bottlenecks and future readiness.
- **Advanced Network Security:** Features Cisco's threat defense with Secure Boot, MACsec, and advanced Layer 2/3 controls for safe user and device access.
- **Efficient Operation:** StackWise-80 stacking and simplified management tools improve deployment flexibility and reduce ongoing maintenance work.

Detailed Features



C9200L-24PXG-4X-A

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Component	Specification
Total PoE+ Ports	24 ports full PoE+
Multi-Gigabit Ports	8 mGig ports up to 10G
Gigabit Ports	16 ports up to 1G
Uplink Ports	4x 10G fixed uplinks
PoE+ Power Capability	On all access ports



Enterprise-Grade Switching

Built on Cisco Catalyst 9200L platform, the C9200L-24PXG-4X-A delivers resilient Layer 2 and Layer 3 switching. The design brings stability and robust performance to modern wired infrastructures, supporting critical business applications without compromise.

Multi-Gigabit PoE+ Connectivity

With 8 multi-gigabit PoE+ ports supporting up to 10G and 16 ports at 1G, this model powers advanced endpoints like Wi-Fi 6 APs, HD cameras, and IoT devices. Its PoE+ capabilities simplify deployment, eliminate power cords, and deliver both data and reliable power.

Flexible High-Speed Uplinks

Equipped with four fixed 10G SFP+ uplinks, the switch supports high-bandwidth uplink aggregation to core networks. This alleviates network bottlenecks and allows seamless scaling even as traffic demands grow due to more connected users and cloud workloads.

StackWise-80 Stacking Architecture

Delivers up to 80 Gbps of stacking bandwidth, enabling multiple switches to function as one. This increases reliability, simplifies management, and allows rapid expansion, accommodating future network growth with minimal configuration effort.

Comprehensive Security and Control

Cisco network security standards are integrated, featuring Secure Boot, MACsec encryption, and advanced ACLs. These functions defend against emerging threats and unauthorized access, protecting sensitive business operations and user data.

Advanced Layer 3 Routing Efficiency

Supports static, RIP, and OSPF routing, plus 3,000 IPv4 and 1,500 IPv6 entries. This allows sophisticated traffic optimization in dynamic business environments, optimizing application performance over WAN and LAN segments.

Scalable Quality of Service (QoS)

With support for 1,000 QoS scale entries, the switch prioritizes mission-critical and latency-sensitive applications. Advanced traffic shaping and marking facilitate smooth voice, video, or real-time data for a superior end-user experience.

Resilient Power and Cooling Design

Includes a primary PWR-C5-600WAC power supply and fixed redundant fans for ongoing system reliability. High MTBF (379,410 hours) offers peace of mind, minimizing risk of downtime and long-term operational costs.

Technical Specifications

Product Specifications

Feature	Value
Downlinks total 10/100/1000 or PoE+ copper ports	24 ports full PoE+ (8 mGig ports up to 10G, 16 ports up to 1G)
Uplink configuration	4x 10G fixed uplinks
Default primary AC power supply	PWR-C5-600WAC
Fans	Fixed redundant
Software	Network Advantage
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
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



Feature	Value
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	1,024
Total Switched Virtual Interfaces (SVIs)	512
Jumbo frames	9,198 bytes
Wireless bandwidth per switch	N/A
Switching capacity	272 Gbps
Forwarding rate	214.28 Mpps
Mean time between failures (hours)	379,410

Product Comparison

Feature	C9200L-24PXG-4X-A	C9300-24H-A	C9200L-24T-4G-E
Fixed Ports	24 × PoE+ (8 mGig up to 10G, 16 × 1G), 4 × 10G SFP+	24 × mGig ports, 4 × 10G SFP+	24 × 1G RJ-45, 4 × 1G SFP
PoE Capability	Full PoE+, 8 mGig	Full UPOE, mGig	Non-PoE
Stacking Bandwidth	80 Gbps	480 Gbps	80 Gbps
Switching Capacity	272 Gbps	208 Gbps	56 Gbps
MAC Address Capacity	16,000	32,000	16,000
Routing Table Size	11,000 (IPv4), 3,000 (IPv4 entries)	32,000	11,000 (IPv4), 3,000 (IPv4 entries)
Management	Network Advantage, Cisco DNA	Network Advantage, Cisco DNA	Network Essentials



Feature	C9200L-24PXG-4X-A	C9300-24H-A	C9200L-24T-4G-E
Redundant Power	Supported	Supported	Supported
Deployment Target	Advanced campus, edge with mGig needs	High-capacity aggregation, high-end campus	Branch/small office, cost-effective basic access

Accessories

Category	Accessories
Included Accessories	- Power Supply (PWR-C5-600WAC) - Mounting Bracket - Console Cable
Optional Accessories	- SFP+ Transceiver Modules - Redundant Power Supply Unit - StackWise Cable



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References

[1] Cisco Systems. (2023). 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>