



Cisco

C9200L-24PXG-2Y-A

Datasheet



Product Overview

- Cisco C9200L-24PXG-2Y-A belongs to the Catalyst 9200 Series, targeting enterprise-class network access with advanced security and scalability.
- This switch is ideal for midsize businesses, workgroup aggregation, campus access layers, and distributed branch environments.
- It features 24 full PoE+ ports, including 8 mGig ports supporting up to 10G, 16 ports up to 1G, and 2 fixed 25G uplinks for flexible connectivity.
- Support for flexible NetFlow and 80 Gbps stacking bandwidth enable high-throughput, granular traffic management, and scalable deployments.
- Redundant, fixed fans and a robust primary AC power supply ensure reliability and simplify management for distributed teams on diverse sites.
- The C9200L-24PXG-2Y-A delivers enhanced performance, security, and efficiency for growing enterprise networks needing seamless PoE, bandwidth, and simple management.

Product Highlights

- **High-Density PoE+ Support:** Offers 24 full PoE+ ports, enabling direct connection and power delivery to IP phones, cameras, and APs for robust campus networking.
- **Multi-Gigabit Readiness:** 8 mGig ports deliver up to 10G speed to support modern Wi-Fi 6/6E APs or bandwidth-demanding endpoints seamlessly.
- **High-Speed Uplinks:** Equipped with 2 x 25G uplinks, ensuring rapid aggregation, improved backbone performance, and uplink redundancy.
- **Efficient Stackable Architecture:** 80 Gbps stacking bandwidth streamlines expansion and simplifies switch management in large-scale deployments.

Detailed Features



C9200L-24PXG-2Y-A

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Component	Specification
Total Ports	24 full PoE+ ports
mGig Ports	8 ports up to 10G
Standard Ports	16 ports up to 1G
Uplink Ports	2 x 25G fixed uplinks
PoE+ Support	IEEE 802.3at on all 24 ports



High-Density PoE+ Power

The C9200L-24PXG-2Y-A delivers 24 full PoE+ ports, providing reliable network power for devices such as IP phones, security cameras, and access points. Each port complies with IEEE 802.3at standards, allowing simplified deployment without extra power infrastructure in high-density environments.

10G Multi-Gigabit Capability

Equipped with 8 multi-Gigabit ports supporting up to 10G, this switch enables seamless upgrades for demanding Wi-Fi 6 APs, high-performance desktops, or uplinks, ensuring high throughput and future-proofing your network investment.

High-Performance 25G Uplinks

With two fixed 25G uplinks, the switch supports high-bandwidth aggregation for traffic-intensive branches and campus networks. This ensures consistent high-speed connectivity to core or distribution layers, enhancing overall network efficiency.

Enterprise-Class Network Hardware

Built to enterprise standards, the switch includes fixed redundant fans and a 600W AC power supply ensuring uninterrupted operation and enhanced reliability. The fan redundancy and robust PSU design keep critical services running in all conditions.

Advanced Layer 2/3 Features

C9200L-24PXG-2Y-A supports robust Layer 2 and advanced Layer 3 capabilities, scalable VLANs, and efficient routing tables for complex campus or distributed environments. With support for up to 1024 VLANs and 3000 IPv4/1500 IPv6 routes, it adapts to rapid network changes.

Comprehensive Security & QoS

This model integrates advanced security and extensive QoS controls, including 1000 QoS, 1500 ACL entries, and Flexible NetFlow for up to 16,000 flows, providing granular traffic control and threat protection for dynamic enterprise traffic.

Efficient Management & Stack Ready

With 80 Gbps stacking, Flexible NetFlow, central management, and support for Cisco's Network Advantage software, the switch can be managed at scale while deploying automation, monitoring, and stack expansion as needed.

Long-Term Reliability

A mean time between failures of 374,730 hours and high-quality Cisco engineering deliver confidence in mission-critical deployments, resulting in predictable operations and reduced risk of downtime across core commercial and enterprise networks.

Technical Specifications

Product Specifications

Feature	Value
Downlinks total 10/100/1000 or PoE+ copper ports	Yes
24 ports full PoE+	8 mGig ports up to 10G, 16 ports up to 1G
Uplink configuration	2x 25G 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 (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	292 Gbps
Forwarding rate	229.16 Mpps
Mean time between failures (hours)	374,730

Product Comparison

Feature	C9200L-24PXG-2Y-A	C9300-24U-A	C9200-48P-E
Ports	24 x full PoE+ (8 mGig up to 10G, 16 up to 1G)	24 x full PoE+ (Up to 1G)	48 x full PoE+ (Up to 1G)
Uplink Ports	2 x 25G fixed uplinks	4 x 1G/10G SFP+	4 x 1G/10G SFP+
Switching Capacity	292 Gbps	128 Gbps	176 Gbps
Stacking Bandwidth	80 Gbps	480 Gbps	160 Gbps
Total MAC Addresses	16,000	32,000	16,000
Routing Entries (IPv4/IPv6)	3,000 / 1,500	4,000 / 2,000	3,000 / 1,500
Power Supply	PWR-C5-600WAC	Dual redundant, modular	PWR-C6-600WAC



Feature	C9200L-24PXG-2Y-A	C9300-24U-A	C9200-48P-E
MTBF (hours)	374,730	377,670	318,220
Management Software	Network Advantage	Network Advantage	Network Essentials

Accessories

Category	Accessories
Included Accessories	- Power Adapter - Mounting Kit - Console Cable
Optional Accessories	- SFP+ Transceiver - Redundant Power Supply - Stack Module



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Contact Us

Email

High Connectivity: sales@router-switch.com

Expert Technical Support: ccie-support@router-switch.com

Cooperative Partnerships: ccie-support@router-switch.com

Phone

USA: +1-626-655-0998

Hong Kong: +852-25925389 / +852-25925411

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Global Footprint

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Global Branches

Hong Kong Branch

Rm 605, 6/F, Fa Yuen Comm Bldg, 75-77 Fa Yuen St, Mongkok, Kowloon, Hong Kong, China

USA Branch

35 E Horizon Ridge Pkwy, Ste 110 #30131, Henderson, NV 89002, USA

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. (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>