



Cisco
C9200L-24PXG-2Y-E
Datasheet



Product Overview

- The Cisco Catalyst 9200L Series is engineered for high-performance enterprise network access and branch deployments.
- This model is ideal for business campuses, distributed branch offices, and small to medium enterprise networks.
- It features 24 full PoE+ ports, including 8 mGig ports up to 10G, plus 2 fixed 25G uplinks for high-speed connectivity.
- Advanced hardware and security features set it apart, offering 6 MB shared buffer and support for Flexible NetFlow traffic analysis.
- Centralized management, stackable design, and software-driven automation ensure simple configuration and streamlined operations.
- The C9200L-24PXG-2Y-E delivers resilient, future-ready network access for businesses seeking fast, scalable switching with advanced Layer 2/3 capabilities.

Product Highlights

- Full PoE+ Support:** All 24 ports deliver PoE+, allowing direct power connection for IP phones, cameras, and wireless APs without extra power supplies.
- 10G Multi-Gigabit Ports:** Eight mGig ports offer up to 10Gbps each, ensuring the network can handle high-speed Wi-Fi 6/6E and power users.
- 25G Uplink Capacity:** Two fixed 25G uplink ports provide high-speed aggregation or access to other core devices and data centers.
- Simplified, Centralized Management:** Supports Cisco DNA Center management, reducing operational complexity for IT teams and system integrators.

Detailed Features



C9200L-24PXG-2Y-E

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Component	Specification
Total Ports	24 full PoE+ (8 mGig up to 10G, 16 ports up to 1G)
PoE Support	IEEE 802.3at (PoE+) on all ports
mGig Ports	8 ports, up to 10Gbps each
Uplinks	2 x 25G fixed uplink ports
Switching Capacity	292 Gbps



High-Density Multi-Gigabit PoE+ Switching

C9200L-24PXG-2Y-E provides 24 full PoE+ ports, including 8 multi-gigabit ports supporting up to 10Gbps. This high-density, high-bandwidth port configuration empowers seamless connectivity for demanding devices like Wi-Fi 6/6E access points, while enabling flexible campus or branch deployments with future-ready hardware.

Enterprise-Class Uplink Performance

Equipped with two fixed 25G SFP28 uplinks, the switch supports high-speed aggregation to the network core or data center. This ensures bottleneck-free data transfers and stable operation for high-growth enterprise environments, even with heavy application loads and real-time service demands.

Advanced Layer 2/3 Security and Routing

Supporting extensive IPv4 and IPv6 routing capabilities, robust access controls (1,500 entries), and up to 11,000 IPv4 routes with 80 Gbps stacking bandwidth, the switch delivers advanced access, traffic segmentation, and threat defense for enterprise and MSP deployments.

Greatly Simplified Stackable Design

The switch supports hardware stacking at up to 80 Gbps bandwidth, facilitating centralized management and redundancy. A fixed redundant fan system further ensures high availability and operational continuity in distributed environments, reducing downtime and onsite intervention.

Comprehensive Quality of Service

With 1,000 QoS scale entries, the C9200L-24PXG-2Y-E enables granular traffic management and prioritization. This supports high-quality voice, video, and mission-critical data applications, while guaranteeing predictable service delivery across all network layers.

Extensive Virtualization Capability

Supporting 1,024 VLANs and 512 switched virtual interfaces, the switch enables flexible network segmentation and multi-tenant scenarios. This is ideal for organizations needing isolated, secure services in a shared infrastructure, optimizing resource allocation and security.

Robust Performance and Scalability

With a 292 Gbps switching capacity, forwarding rate of 229.16 Mpps, 16,000 MAC entries, and large 6 MB shared buffers, this model delivers consistent performance as the network scales. Ample DRAM and flash allow for feature and firmware upgrades as demands increase.

Operational Longevity and Reliability

Boasting a mean time between failures of over 374,000 hours and fixed redundant cooling, the model is designed for long service life and minimal outages. Combined with power supply redundancy, this ensures critical services stay operational in enterprise and public sector environments.

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	2x 25G fixed uplinks
Default Primary AC Power Supply	PWR-C5-600WAC
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
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-E	C1-WS3850-24P/K9	C1-C2960X-48LPS-L
Total Ports	24 PoE+ (8 mGig up to 10G, 16 up to 1G)	24 PoE+ (up to 1G)	48 PoE+ (up to 1G)
Uplink Type	2x 25G fixed SFP28	4x 1G/10G SFP+	4x 1G SFP
Switching Capacity	292 Gbps	up to 640 Gbps	216 Gbps
Stacking Bandwidth	80 Gbps	480 Gbps	80 Gbps
PoE Power Budget	Configurable, 600W (default PSU)	up to 435W support	up to 740W support
MAC Address Table	16,000	32,000	16,000
Advanced Routing	IPv4/IPv6, SVIs, VRF-lite	IPv4/IPv6, OSPF, EIGRP, RIP	IPv4/IPv6, static routing



Feature	C9200L-24PXG-2Y-E	C1-WS3850-24P/K9	C1-C2960X-48LPS-L
Redundant Power/Fans	Yes (fixed redundant fans, optional PSU)	Hot-swappable fans and PSU	Redundant PSU optional
Management	Cisco DNA Center, Web UI, CLI	Web UI, CLI, SNMP	Web UI, CLI, SNMP

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power Supply (PWR-C5-600WAC) - Mounting Brackets - Console Cable
Optional Accessories	<ul style="list-style-type: none"> - SFP28 Uplink Module - Redundant Power Supply - Rack-mount Kit



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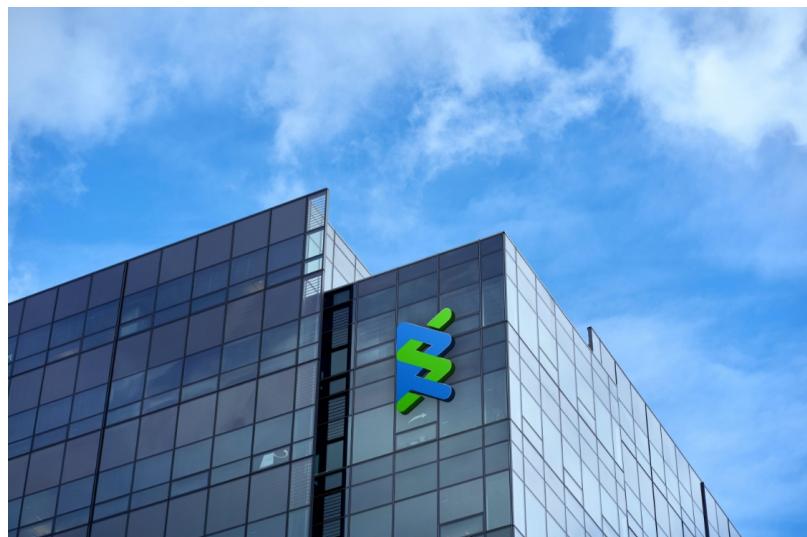


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References

[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>