

Cisco
C9300L-24UXG-2Q-E
Datasheet



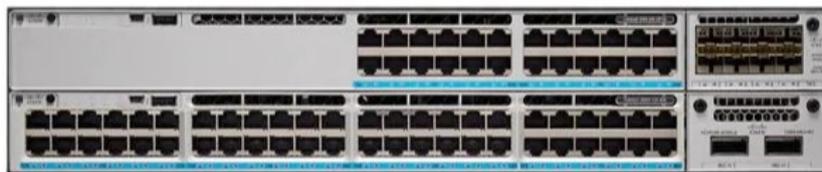
Product Overview

- Cisco Catalyst 9300 Series is the flagship stackable enterprise access switch line, part of the leading Catalyst 9000 family.
- Designed for businesses navigating hybrid work, it fits distributed offices, large campuses, and organizations needing unified connectivity.
- With up to 1TB stacking bandwidth, dense multigigabit ports, and flexible 40G/100G uplink support, performance is always outstanding.
- It brings top features like backward-compatible mixed stacking and robust 90W UPOE+ support for advanced device powering.
- Choose cloud, on-premises, or virtual management, and leverage Cisco Meraki dashboard to simplify network operations and visibility.
- C9300 series delivers secure, high-speed access—making it ideal for future-ready network infrastructures in education, enterprise, and service provider environments.

Product Highlights

- **Enterprise-Grade Network Security:** Integrated security tools and advanced encryption defend against evolving threats, keeping your business data safe.
- **Unified Wired and Wireless Access:** Simplifies deployment and management through policy-driven automation across your entire network edge.
- **Flexible Cloud Management:** Seamlessly migrate switching to Cisco Meraki dashboard for centralized monitoring with no lost advanced features.
- **Investment Friendly Software:** Enjoy simple licensing, software upgrades, and service assurance with Cisco Catalyst, DNA, and Meraki subscriptions.

Detailed Features



C9300L-24UXG-2Q-E

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Component	Specification
Ethernet Ports	24 UPoE (8 Multigigabit)
Uplink Ports	2 x 40G fixed uplinks
PoE Power Budget	722W total
Stacking Bandwidth	320 Gbps
Power Supply	1100W AC, hot-swappable



Comprehensive Stacking Architecture

Cisco C9300L-24UXG-2Q-E supports StackWise technology, achieving 320 Gbps stacking bandwidth. This capability enables high-speed interconnectivity between stack members, ensuring seamless failover and simplified network expansion without the need for complex configurations. The flexibility to stack with a mix of C9300 and C9300X models enhances investment protection and allows organizations to scale according to future demands.

Full Suite of Multigigabit UPoE Ports

This model is equipped with 24 Universal Power over Ethernet (UPoE) ports, with 8 ports supporting Multigigabit operation. The solution delivers up to 60W per port, accommodating a wide range of high-speed wireless APs, surveillance cameras, and IoT sensors, all on a single switch. This feature provides deployment agility and robust support for power-hungry network endpoints.

Resilient Redundant Components

Hot-swappable, Field Replaceable Units (FRU) for both power supply and cooling fans minimize downtime and optimize maintainability. The dual redundant design supports continuous service delivery even under component failure scenarios. Network operators can perform maintenance operations non-disruptively, maximizing business continuity.

Advanced Layer 3 Routing & SD-Access

Supporting 32,000 IPv4 and 16,000 IPv6 routing entries, and up to 256 virtual networks, the switch acts as a powerful Layer 3 aggregation platform. It is engineered for policy-based automation and micro-segmentation in enterprise environments through Cisco's SD-Access architecture, facilitating secure and flexible network design.

Embedded Wireless Controller

Incorporating the Catalyst 9800 Embedded Wireless Controller, the device manages up to 50 access points (APs) natively. This integrated solution eliminates the need for standalone controllers, simplifies operational overhead, and delivers unified wired-wireless policy enforcement, crucial for modern hybrid workspace strategies.

Efficient Power and PoE Design

The 1100W AC power supply supports up to 722W of usable PoE power for demanding endpoint deployments. Dynamic PoE allocation and advanced energy management protect network investment and reduce overall operational expenditure. The absence of StackPower support is offset by optimized local delivery.

High-Performance Switching & Buffering

The switch offers 352 Gbps of non-blocking switching capacity and a forwarding rate of 261.90 Mpps standalone, scaling to 672 Gbps and 500 Mpps with stacking. Deep packet buffers and QoS/ACL scales support mission-critical workloads, real-time applications, and congestion-free performance even during traffic bursts.

Long Lifecycle and Reliability

Designed for enterprise uptime, the model boasts a mean time between failures (MTBF) of 291,670 hours. Combined with a robust chassis and mature software ecosystem, this extends product lifecycle, assures stable operation in large or distributed networks, and delivers consistent user experience across evolving business challenges.

Technical Specifications

Product Specifications

Feature	Value
Product Description	Catalyst 9300 24-port fixed uplinks UPoE, 8xmGig, 2X40G uplinks, Network Essentials
FRU Power Supply	Yes
FRU Fans	Yes
Modular Uplinks	No
Stacking Bandwidth Support	320 Gbps
Cisco StackPower	No
Catalyst 9800 Embedded WLC	Yes (50 APs)
SD-Access Support	Yes (256 Virtual Networks)



Feature	Value
Total 10/100/1000, Multigigabit Copper or SFP Fiber	24 UPoE 8xmGig
Uplink Configuration	2x 40G fixed uplinks
Default AC Power Supply	1100W AC
Available PoE Power	722W
Total Number of MAC Addresses	32,000
Total Number of IPv4 Routes	32,000 (24,000 direct routes and 8,000 indirect routes)
IPv6 Routing Entries	16,000
Multicast Routing Scale	8,000
QoS Scale Entries	5,120
ACL Scale Entries	5,120
Packet Buffer per SKU	16 MB buffer for 24 and 48 port Gigabit Ethernet models
FNF Entries	64,000 flow on 24 and 48 port Gigabit Ethernet models
DRAM	8 GB
Flash	16 GB
VLAN IDs	4094
Total Switched Virtual Interfaces (SVIs)	1000
Jumbo Frames	9,198 bytes
Total Routed Ports per Catalyst 9300 Series Stack	416
Switching Capacity	352 Gbps
Switching Capacity with Stacking	672 Gbps
Forwarding Rate	261.90 Mpps
Forwarding Rate with Stacking	500 Mpps
Dimensions (H x W x D) Cms	4.4 x 44.5 x 40.9
W/ Default Power Supply	4.4 x 44.5 x 48.8
W/ 1100W Power Supply	4.4 x 44.5 x 48.8
Mean Time Between Failures (MTBF Hours)	291,670



Product Comparison

Feature	C9300L-24UXG-2Q-E	C9300L-24T-4X-E	C9300L-48UXG2Q-10A
Fixed Ports	24 UPoE (8xmGig)	24 x 10/100/1000Base-T	48 UPoE (16xmGig)
Uplink Ports	2 x 40G fixed uplinks	4 x 10G SFP+	2 x 40G fixed uplinks
PoE Power Budget	722W	370W	1440W
Stacking Bandwidth	320 Gbps	320 Gbps	320 Gbps
Embedded Wireless Controller	Yes (50 APs)	Yes (50 APs)	Yes (100 APs)
SD-Access Support	Yes (256 Virtual Networks)	Yes	Yes
Switching Capacity	352 Gbps	136 Gbps	352 Gbps
Management	Cloud, On-prem, Virtual	Cloud, On-prem, Virtual	Cloud, On-prem, Virtual

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power Adapter - Mounting Bracket - Quick Installation Guide
Optional Accessories	<ul style="list-style-type: none"> - SFP Transceiver - StackWise Cable - Advanced Power Supply



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References

[1] Cisco. (2024). Catalyst 9300 Series Switches Datasheet. Retrieved from <https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-9300-series-switches/nb-06-cat9300-ser-data-sheet-cte-en.html>