



Cisco

C9300L-24UXG-4X-E

Datasheet



Product Overview

- Cisco's Catalyst 9300 Series switches are at the core of Cisco's enterprise-grade stackable access solutions, setting industry standards for reliability and flexibility.
- These switches are ideal for businesses of all sizes, supporting hybrid workforces, distributed offices, and growing IoT deployments needing secure and scalable access.
- Delivering up to 1TB stacking bandwidth, up to 48 multigigabit ports per stack, and powerful 100G/40G/25G/10G/1G uplinks, Catalyst 9300 excels in high-performance environments.
- Innovative features like backward-compatible mixed stacking, high-density UPOE+, and hardware-based 100G IPsec encryption set Catalyst 9300 apart from other switches.
- Choose local, virtual, or cloud-based management through Cisco DNA or Meraki dashboard, simplifying network control and device monitoring.
- Catalyst 9300 delivers rock-solid performance, easy scaling, and secure access, making it the foundation for agile, future-ready enterprise networks.

Product Highlights

- **Automated Network Fabric:** The Catalyst 9300 Series uses SD-Access for automated, secure, and simplified network operations, accelerating service rollout.
- **Unified Management Architecture:** Manage wired and wireless networks together for better visibility and streamlined maintenance.
- **Flexible Licensing and Investment Protection:** Cisco software subscriptions enable flexible upgrades and long-term value for IT investments.
- **End-to-End Network Assurance:** Leverage Cisco Spaces and ThousandEyes for network insights and ensure secure, policy-driven access across all segments.

Detailed Features



C9300L-24UXG-4X-E

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Component	Specification
Switching Ports	24 UPoE, 8 Multigigabit
Uplink Ports	4 × 10G fixed uplinks
PoE Power Budget	880W
Switching Capacity	272 Gbps
Form Factor	Fixed, rack-mountable



High Bandwidth Stacking

Catalyst 9300 supports up to 1 TB of stacking bandwidth with Cisco StackWise-1T, providing unmatched scalability and redundancy. This enables seamless expansion in enterprise networks while maintaining high throughput and minimal downtime. Mixed stacking with backward compatibility eases migration and protects device investment.

Advanced Multigigabit Port Density

The C9300L-24UXG-4X-E model delivers up to 24 Multigigabit UPoE ports with 8 ports supporting Multigig speeds. This is ideal for high-density wireless, IoT, and endpoint environments where high performance is critical to support multimedia applications and device mobility.

Robust Power over Ethernet (UPoE+)

With up to 90W per port and a total PoE budget of 880W, it supports advanced OT/IT needs including wireless APs, cameras, and sensors. This ensures broad device compatibility and future-proofs campus edge infrastructure without needing additional powering solutions.

Hardware-Based Security and Encryption

Built on Ciscos UADP 2.0sec ASIC, the switch enables 100G line-rate IPsec and AES-256 encryption. Secure tunnel connectivity protects data moving to the cloud or distributed sites, supporting compliance and security requirements for sensitive business operations.

Intelligent Network Virtualization

The Catalyst 9300 Series is equipped for full SD-Access, supporting policy-based automation, segmentation, and group-based analytics. This provides granular control over users, devices, and services, making network changes both secure and effortless.

Cloud-Enabled and Flexible Management

Switches can be seamlessly migrated to Cisco Meraki dashboard, enabling centralized cloud management and visibility while preserving advanced CLI capabilities. This hybrid approach optimizes administration in multi-site, multi-cloud, or transition environments.

Comprehensive Software Ecosystem

Catalyst, DNA, and Meraki software deliver flexible licensing, rapid software delivery, and enduring investment protection. Features like Cisco ThousandEyes and ASAc firewall integration empower real-time assurance, application hosting, and advanced threat defense.

Reliability and Enterprise-Grade Design

Featuring redundant fans, power supplies, a Mean Time Between Failures of over 330,000 hours, and enterprise-class hardware, the 9300 Series maximizes uptime. High packet buffer sizes and advanced QoS guarantee stable performance under peak traffic loads.

Technical Specifications

Product Specifications

Feature	Value
Product Description	Catalyst 9300 24-port fixed uplinks UPoE, 8xmGig, 4X10G 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)
Total 10/100/1000, Multigigabit copper or SFP Fiber	24 UPoE 8xmGig
Uplink Configuration	4x 10G fixed uplinks
Default AC power supply	1100W AC



Feature	Value
Available PoE power	880W
Total number of MAC addresses	32,000
Total number of IPv4 routes (ARP plus learned 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	4,094
Total Switched Virtual Interfaces (SVIs)	1,000
Jumbo frames	9,198 bytes
Total routed ports per Catalyst 9300 Series stack	416
Switching capacity	272 Gbps
Switching capacity with stacking	592 Gbps
Forwarding rate	202.38 Mpps
Forwarding rate with stacking	440.47 Mpps
Dimensions (H x W x D) Cm	Chassis: 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)	332,640

Product Comparison

Feature	C9300L-24UXG-4X-E	C9300L-48UXG-2Q-A	C9300L-24P-4X-A
Switching Ports	24 UPoE, 8xmGig	48 UPoE, 16xmGig	24 PoE+
Uplink Ports	4 × 10G fixed	2 × 40G QSFP+	4 × 10G SFP+



Feature	C9300L-24UXG-4X-E	C9300L-48UXG-2Q-A	C9300L-24P-4X-A
Switching Capacity	272 Gbps	376 Gbps	128 Gbps
PoE Power Budget	880W	1800W	370W
Stacking Support	320 Gbps	320 Gbps	320 Gbps
SD-Access Support	Yes (256 VNs)	Yes (256 VNs)	Yes (256 VNs)
Embedded WLC	Yes (50 APs)	Yes (50 APs)	Yes (50 APs)
Management Options	Cisco DNA Center/Meraki/CLI	Cisco DNA Center/Meraki/CLI	Cisco DNA Center/Meraki/CLI
Form Factor	Fixed	Fixed	Fixed
Application	High-density access	Ultra high-density access, higher speed uplinks	Classic PoE+ access

Accessories

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



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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. (2024). Cisco Catalyst 9300 Series Switches Data Sheet. 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>