Cisco

C9300L-24P-4X-E

Datasheet

Product Overview

- Cisco Catalyst 9300 Series is the flagship stackable enterprise access solution, part of the advanced Catalyst 9000 family.

- Perfect for mid-sized to large enterprises, it is ideal for distributed offices, hybrid workplaces, or dynamic campus environments.

- Delivers up to 1 TB stacking bandwidth, flexible uplinks with 100G-ready options, and industry-leading Multigigabit port density.

- Offers high-density multigigabit options, StackPower for power resiliency, and robust security with 100G IPsec hardware encryption.

- The switches allow on-premises, virtual, or cloud management including seamless migration to the Cisco Meraki dashboard.

- Transform network agility, security, and visibility for business operations—from distributed branches to large campus cores worldwide.

Product Highlights

- **Automated Network Security:** Integrates advanced hardware and software to automate, protect, and simplify end-to-end network operations.

- **SD-Access Policy Control:** Software-defined architecture enables quick deployment and policy-based automation from edge to cloud for unified management.

- **Enhanced Cloud Management:** Supports Meraki dashboard for centralized monitoring, cloud EVPN fabric, and seamless network visualization.

- **Flexible Software Licenses:** Cisco Catalyst, DNA, and Meraki subscriptions provide investment protection, updates, and scalable purchase models.

Detailed Features

C9300L-24P-4X-E

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Component	Specification
Downlink Ports	24 × 10/100/1000Base-T copper
Uplink Ports	4 × 10G/1G SFP+ fixed uplinks
PoE Support	Yes, on downlink ports
Stacking Capability	Supported, up to 8 units
Switching Layer	Layer 2/Layer 3

High Performance Stacking

StackWise-320 technology supports up to 320 Gbps stacking bandwidth, enabling seamless management of up to eight switches as a single unit. This provides high availability and rapid failover for critical enterprise networks, simplifying expansion and boosting operational continuity.

Advanced Power Resiliency

Cisco StackPower enables power sharing and redundancy between switches within a stack for efficient energy utilization and solid power resiliency. This feature effectively reduces downtime and supports mission-critical deployments in diverse environments.

Secure Edge Connectivity

The built-in Unified Access Data Plane (UADP) ASIC, with hardware-accelerated 100G IPsec, enables high-throughput encrypted site-to-site and cloud VPN tunnels. This delivers high security standards without sacrificing performance, tailored for next-generation borderless networks.

Superior UPOE+ Density

With support for up to 48 ports of 90W Cisco UPOE+ in standalone and up to 384 ports in a full stack, this switch provides reliable power for IoT, access points, and endpoint devices, serving the densest deployments in todays digital workplaces.

Scalable Multigigabit Access

Features the highest number of multigigabit ports, allowing up to 48 per switch standalone and 448 when stacked. This accommodates increasing throughput demands for modern client devices and high-capacity Wi-Fi deployments.

Application Hosting at the Edge

With doubled RAM and Intel QAT acceleration, the switch supports multiple resource-intensive applications natively, including security and monitoring solutions, without extra hardware investments, ensuring high efficiency and cost savings.

Seamless Cloud Transition

Flexible management with support for direct migration to Cisco Meraki® allows organizations to scale or transition networks to cloud control, maintaining advanced CLI features and ensuring operational continuity throughout migration cycles.

Comprehensive Investment Protection

The backward compatibility of fans, power supplies, stacking, and StackPower cables protects previous hardware investments and facilitates smooth network upgradessupporting both classic and new deployments while reducing long-term TCO.

Technical Specifications

Product Specifications

Feature	Value
Designed to Replace	Catalyst 3850
Supported IOS	Network Advantage, Network Essentials
Network Modules Options	Fixed Modules
Stack Technology	StackWise-320
Stacking Bandwidth	320 Gbps
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

Feature	Value
Packet Buffer per SKU	16 MB buffer for 24 and 48 port Gigabit Ethernet models
Flexible NetFlow (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	9198 bytes
Switching Capacity	56 Gbps - 176 Gbps
Forwarding Rate	41.66 Mpps - 130.95 Mpps

Product Comparison

Feature	C9300L-24P-4X-E	C9300L-24T-4X-E	C9300-48P-E
Fixed Ports	24 × 10/100/1000Base-T PoE + 4 × 10G/1G SFP+	24 × 10/100/1000Base-T + 4 × 10G/1G SFP+	48 × 10/100/1000Base-T PoE+ + 4 × 1G/10G SFP+
PoE Support	Yes (PoE/PoE+)	No	Yes (UPOE/PoE+)
Stacking Bandwidth	320 Gbps	320 Gbps	480 Gbps
Switching Capacity	56 Gbps - 176 Gbps	56 Gbps - 176 Gbps	208 Gbps
Supported IOS	Network Advantage, Network Essentials	Network Advantage, Network Essentials	Network Advantage, Network Essentials
Max Power Budget	445W	None	715W (default)
Application Hosting	Supported	Supported	Supported
Management	On-premises, Virtual, Cloud	On-premises, Virtual, Cloud	On-premises, Virtual, Cloud

Accessories

Category	Accessories
Included Accessories	- Power Adapter - Rack Mount Kit - Console Cable

Category	Accessories
Optional Accessories	- SFP Transceiver - Redundant Power Supply - StackWise-320 Cable

Support & Warranty

24/7 Online Service	3-Year Premium Warranty	Professional Technical Support	100% Low Price Guarantee	100% Quality Assurance	100% Money Back Guarantee

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References

[1] Cisco. (2023). 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