



Cisco

C9300L-24-E-A

Datasheet



Product Overview

- Cisco Catalyst 9300 Series is the flagship stackable enterprise access switch line, designed for secure, intelligent, and scalable networking.
- Ideal for medium and large enterprises, education campuses, and service provider environments, it suits businesses seeking future-ready access.
- Key specs include up to 1 TB stacking bandwidth with StackWise-1T, advanced modular uplink options, and industry-leading multi-gigabit port density.
- Supports cloud management via Cisco Meraki dashboard and enables secure tunnels, backward-compatible stacking, and robust hardware encryption.
- Flexible network management choices—on-premises, virtual, or cloud—provide agility and centralized visibility for diverse distributed sites.
- The Catalyst 9300 Series empowers global organizations to transform hybrid work and security, driving efficient connectivity and long-term value.

Product Highlights

- **Enterprise-Class SD-Access:** Cisco's SD-Access architecture lets IT teams automate, secure, and manage access policy from edge to cloud, streamlining network ops.
- **Integrated Cloud Management:** Manage 9300 switches via Cisco Meraki dashboard for unified deployment, monitoring, and troubleshooting anywhere.
- **Software Subscription Flexibility:** Choose Cisco Catalyst, DNA, or Meraki subscriptions with flexible licensing and software updates for maximum investment protection.
- **Simple Converged Management:** Manage wired and wireless policies from one system, achieving unified secure access without operational complexity.

Detailed Features



C9300L-24-E-A

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Component	Specification
Switching Capacity	56 Gbps - 176 Gbps
Forwarding Rate	41.66 Mpps - 130.95 Mpps
Ports	24 x 1G Ethernet
Stacking Bandwidth	320 Gbps
Routing Table	32,000 IPv4 routes



High StackWise Bandwidth

The Catalyst 9300L-24-E-A supports up to 320 Gbps stacking bandwidth with StackWise-320 technology, ensuring high-bandwidth inter-switch communication and seamless scalability for modern campus networks.

Flexible Uplink Architecture

This switch provides flexible modular uplink options, supporting a combination of 1G, 10G, 25G, 40G, and 100G interfaces for adaptable network expansion and smooth upgrade paths as business requirements grow.

Comprehensive Network Scalability

A massive MAC address table of 32,000 entries and support for 32,000 IPv4 and 16,000 IPv6 routes make the platform suitable for large-scale enterprise deployments with diverse client and device types.

Advanced Multigigabit Support

Multigigabit capabilities facilitate high-throughput device connections, enabling demanding applications and hybrid work environments while future-proofing access layers as digital transformation advances.

Rich Layer 3 Routing Features

Supports static, OSPF, RIP, and BGP, plus 8000 multicast routes, delivering robust routing for both IPv4 and IPv6 environments and enhancing traffic engineering across distributed offices.

Robust Application Hosting

With 8GB DRAM and 16GB Flash, the switch enables intelligent application hosting, leveraging Cisco UADP ASIC for high-performance, programmable integration with network analytics and security apps.

IPSec and Secure Tunneling

Integrated hardware IPsec engines provide line-rate 100G encryption, establishing secure site-to-site tunnels with AES-256 for resilient hybrid and cloud connectivity at the network access edge.

Investment Protection Features

Backward-compatible stack modules, power redundancy, and modular fan design ensure seamless integration in evolving infrastructures, protecting capital expenditure and supporting long-term flexibility.

Technical Specifications

Product Specifications

Feature	Value
Designed to replace	Catalyst 3850
Supported IOS	Network Advantage
Supported IOS	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
Packet buffer per SKU	16 MB buffer for 24 and 48 port Gigabit Ethernet models



Feature	Value
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)	1,000
Jumbo frames	9,198 bytes
Switching capacity	56 Gbps - 176 Gbps
Forwarding rate	41.66 Mpps - 130.95 Mpps

Product Comparison

Feature	C9300L-24-E-A	C9300L-48-E-A	C9300L-24T-4G-A
Fixed Ports	24 x 1G Ethernet	48 x 1G Ethernet	24 x 1G Ethernet
Switching Capacity	56 Gbps - 176 Gbps	56 Gbps - 176 Gbps	56 Gbps - 176 Gbps
Forwarding Rate	41.66 Mpps - 130.95 Mpps	41.66 Mpps - 130.95 Mpps	41.66 Mpps - 130.95 Mpps
Stacking Bandwidth	320 Gbps	320 Gbps	320 Gbps
Routing Table Size	32,000 IPv4 routes	32,000 IPv4 routes	32,000 IPv4 routes
Multi-Gig Support	Yes	Yes	No
Power Supply Options	Redundant Supported	Redundant Supported	Redundant Supported
Application Hosting	Yes	Yes	Yes
Ideal Use Case	Enterprise core/access	High-density enterprise edge	Branch/SMB access switching



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- Redundant Power Supply- Network Module



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References

[1] Cisco Systems. (2023). 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>