



Cisco

C9300L-24T-4G-E

Datasheet



Product Overview

- Cisco Catalyst 9300 Series are next-gen stackable enterprise access switches, positioned as robust network solutions for evolving digital workplaces.
- Designed for large enterprises, medium businesses, and institutions that demand high reliability, flexibility, and secure access in office or campus environments.
- Notable highlights include up to 1TB stacking bandwidth, 100G/40G/25G flexible uplinks, and advanced modular stacking technology for easy expansion.
- Features such as backward-compatible mixed stacking, up to 48 Multigigabit ports, and support for 100G IPsec hardware encryption make this series stand out.
- The C9300 Series offers on-premises, virtual, and cloud-based management options, allowing IT teams to centralize operations and simplify rollouts.
- Ideal for any hybrid workplace, the Catalyst 9300 Series delivers performance, scalability, and multi-layer security to drive digital transformation.

Product Highlights

- **Secure, Automated Network Fabric:** Integrates advanced hardware and software innovations to secure, automate, and simplify large-scale network deployments.
- **Policy-Based SD-Access:** Delivers policy-based automation from access edge to cloud, empowering efficient, flexible network configuration and rapid service deployment.
- **Unified Wired & Wireless Management:** Provides converged access to wired and wireless networks, making device management across diverse environments seamless and intuitive.
- **Flexible Licensing & Future-Ready Design:** Offers modular software licenses, easy upgrades, and investment protection for evolving business and technology needs.

Detailed Features



C9300L-24T-4G-E

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Component	Specification
Switch Ports	24 × 1G copper ports
Uplink Ports	4 × 1G SFP fixed uplinks
Stacking Support	StackWise-320 technology
Switching Capacity	56–176 Gbps
Forwarding Rate	41.66–130.95 Mpps



High-Performance Stackable Architecture

The Catalyst 9300L-24T-4G-E switch features Cisco's next-gen hardware with high-density stacking bandwidth, supporting up to eight units in a stack. This provides seamless scalability and ensures minimal disruption even during hardware upgrades or maintenance. With StackWise-320 technology, users benefit from unified management and simplified expansion as business needs evolve.

Flexible Uplink Options

The switch delivers 24 × 1G copper downlink ports and fixed 4 × 1G SFP uplinks, allowing versatile topologies for diverse networking requirements. Modular uplink flexibility enables high-speed connections to core switches or aggregation layers, guaranteeing robust throughput while maintaining backward compatibility with legacy systems.

Advanced Layer 3 Routing

Comprehensive support for IPv4 and IPv6 routing protocols, including static, dynamic, and multicast, allows seamless integration into complex enterprise architectures. Advanced protocols optimize traffic flow, enhance network resilience, and ensure high availability for business-critical applications.

Quality of Service & Security

Offering 5,120 QoS and ACL scale entries, the C9300L-24T-4G-E enforces advanced traffic prioritization and granular security policies. Real-time application traffic can be shaped, queued, and monitored, enabling high service levels and strong defense against both external and internal threats.

Integrated Power & Resiliency

StackPower technology provides redundant power pooling, allowing power resources to be shared efficiently across stacked switches. Combined with high MTBF of 395,800 hours and redundant fans, this design guarantees operational continuity and rapid recovery in case of disruptions.

Robust Network Analytics

Flexible NetFlow with up to 64,000 flows provides deep network visibility and real-time analytics. Coupled with Cisco DNA and Cisco ThousandEyes, organizations gain actionable insights for swift troubleshooting and proactive performance monitoring.

Large-Scale Virtualization

Supports up to 1,000 switched virtual interfaces (SVIs) and 4,094 VLAN IDs, making it suitable for large campuses or multi-tenancy. Network segmentation, guest policies, and micro-segmentation are easily applied with context-aware controls.

Investment Protection

Backwards compatibility with Catalyst 9300 series modules, redundant fans and power, and Cisco's software licensing flexibility ensure long-term, future-proof deployments. The unified platform approach reduces upgrade costs and streamlines infrastructure transitions.

Technical Specifications

Product Specifications

Feature	Value
Dimensions (H x W x D) inches	1.73 X 17.5 X 16.1
MTBF (hours)	395,800
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



Feature	Value
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
Flexible NetFlow (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
Switching capacity	56 Gbps - 176 Gbps
Forwarding rate	41.66 Mpps - 130.95 Mpps

Product Comparison

Feature	C9300L-24T-4G-E	C9200L-24T-4X-E	C9300-24UB-A=
Fixed Ports	24 × 1G copper + 4 × 1G SFP	24 × 1G copper + 4 × 1G SFP+	24 × 1G copper + 4 × 1G SFP
Switching Capacity	56–176 Gbps	56 Gbps	128 Gbps
Forwarding Rate	41.66–130.95 Mpps	41.66 Mpps	95 Mpps
Stacking Bandwidth	320 Gbps (StackWise-320)	80 Gbps	480 Gbps
Layer 3 Routing	IPv4/IPv6, Multicast	IPv4/IPv6	IPv4/IPv6, Multicast
PoE Support	No	No	Yes (UPOE+ on select models)
Management Options	On-premises, Cloud, Virtual	On-premises, Cloud	On-premises, Cloud, Virtual
Redundant Power/Fans	Yes	Yes	Yes
Application Scenario	Enterprise access/core	SMB/branch access	Enterprise edge/IoT access



Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none">- Power Cord- Mounting Bracket- Quick Install Guide
Optional Accessories	<ul style="list-style-type: none">- SFP Transceiver- StackWise-320 Cable- Redundant Power Supply



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References

[1] Cisco. (2023). Cisco 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>