



Cisco

C9300L-24T-4X-A

Datasheet



Product Overview

- Cisco Catalyst 9300 Series is the flagship stackable enterprise access switch platform, part of the Catalyst 9000 family.
- Designed for modern businesses, it is ideal for hybrid work environments, supporting distributed offices and diverse endpoints.
- Key hardware includes 24 fixed data ports, 4x 10G uplink ports, and StackWise-320 technology for 320 Gbps stacking bandwidth.
- Advanced security, 100G IPsec hardware encryption, and flexible multigigabit options distinguish the Catalyst 9300 Series.
- Centralized management via Cisco DNA, cloud-based Meraki, or on-premises controls simplifies network deployment and operation.
- The C9300L-24T-4X-A helps organizations secure connectivity, streamline workflows, and adapt to changing digital demands.

Product Highlights

- **StackWise-320 Technology:** Enables high stacking bandwidth and seamless scalability for growing enterprise network requirements.
- **Fixed Uplink Design:** Comes with 4 integrated 10G SFP+ uplink ports for reliable high-speed connections to the core.
- **Enhanced Security:** Built-in hardware-based 100G IPsec and advanced encryption ensure data safety across distributed environments.
- **Cloud and On-Premise Management:** Compatible with Cisco DNA Center and Meraki dashboard for flexible, unified device management.

Detailed Features



C9300L-24T-4X-A

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Component	Specification
Downlink Ports	24 × 10/100/1000Base-T (data only)
Uplink Ports	4 × 10G SFP+
Stacking Bandwidth	320 Gbps
Switching Capacity	56 Gbps - 176 Gbps
Packet Buffer	16 MB



High-Performance Stacking

StackWise-320 provides up to 320 Gbps stacking bandwidth, enabling unified management of up to eight switches. This supports expansion with minimal downtime, higher port density, and improved failover, making it ideal for scalable business growth in high-traffic segments.

Flexible Uplink Options

The 4 x 10G SFP+ uplinks allow seamless integration with fast backbone connections or uplink aggregation for redundancy. This flexibility ensures network reliability and bandwidth optimization for enterprises handling heavy data loads or large user bases.

Advanced Security Framework

Integrated with hardware-based 100G IPsec encryption, this switch series protects data in transit using strong AES-256 encryption. This feature is essential for organizations requiring secure site-to-site connectivity or cloud integration with robust compliance requirements.

Investment Protection

The model is backward compatible with Catalyst 9300 Series stack modules, power supplies, and fans. Businesses can upgrade networking technology incrementally, protecting previous investments while adapting to newer standards and capacities.

Comprehensive Routing Capabilities

Supporting 32,000 IPv4 and 16,000 IPv6 routing entries, it enables advanced Layer 3 routing, effective ARP management, and accommodates growing demands on dynamic networks.

Application Hosting Support

With robust hardware, 8 GB DRAM, 16 GB Flash, and Intel QAT, it hosts performance applications such as ThousandEyes and ASAc firewall directly, optimizing network visibility and security.

Unified Wired and Wireless Management

The platform enables policy-based automation across both wired and wireless networks, simplifying device deployment, management, and context-based analytics for enhanced operational efficiency.

Enterprise-Grade Reliability and Endurance

It features MTBF of 387,700 hours, redundant hardware, and advanced QoS/ACL management for mission-critical stability in business, education, healthcare, and public sector segments.

Technical Specifications

Product Specifications

Feature	Value
Dimensions (H x W x D) inches	1.73 x 17.5 x 16.1 in
Mean Time Between Failures – MTBF (hours)	387,700 hours
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



Feature	Value
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-4X-A	C9300-24U-A	C9200L-24T-4X-E
Downlink Ports	24 × 10/100/1000Base-T	24 × 10/100/1000Base-T (UPOE)	24 × 10/100/1000Base-T
Uplink Ports	4 × 10G SFP+	4 × 10G SFP+	4 × 10G SFP+
PoE Power	No PoE	UPOE support	No PoE
Stacking Bandwidth	320 Gbps	480 Gbps	80 Gbps
Switching Capacity	56 Gbps - 176 Gbps	128 Gbps	104 Gbps
Layer 3 Routing	Yes	Yes	Yes
Management	DNA Center/Meraki/CLI	DNA Center/Meraki/CLI	DNA Center/Meraki/CLI
Redundant Power Option	Supported	Supported	Supported
Intended Use	Data only access	UPOE for high power needs	Cost-effective access with 10G uplinks



Accessories

Category	Accessories
Included Accessories	- Power Cord - Rack Mount Kit - Console Cable
Optional Accessories	- SFP/SFP+ Transceiver - Redundant Power Supply - Stacking Cable



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References

[1] Cisco. (2023). 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>