



Cisco C9300-24S-E Datasheet

Product Overview

- Cisco Catalyst 9300 Series represents Cisco's leading solution for stackable enterprise access switching within the Catalyst 9000 family.
- Designed for businesses of any size, it is ideal for distributed work environments, hybrid offices, and organizations demanding network flexibility.
- It delivers robust 24 x 1G SFP ports, up to 208 Gbps switching capacity, and 688 Gbps stacking bandwidth for reliable and agile performance.
- Mixed stacking capability and cloud-managed features ensure backward compatibility and advanced network scalability.
- Flexible deployment options allow management on-premises, virtually, or via the cloud, simplifying network operations and reducing IT workload.
- By combining next-gen hardware and software, the C9300-24S-E empowers secure, agile connections, supporting evolving business and IT needs worldwide.

Product Highlights

- **Advanced Hardware and SD-Access:** Integrates Cisco's advanced hardware design with Software-Defined Access, automating, securing, and simplifying complex network operations.
- **Unified Wired and Wireless Management:** Offers seamless management of both wired and wireless networks from a single system for streamlined enterprise administration.
- **Flexible Licensing and Rapid Upgrades:** Flexible software subscriptions and license portability help manage spend while ensuring access to up-to-date features and services.
- **End-to-End Network Insight:** Tools like Cisco Spaces and ThousandEyes enable real-time monitoring, advanced analytics, and service assurance across your entire network.

Detailed Features



C9300-24S-E

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Component	Specification
Switching Capacity	208 Gbps
Ports	24x 1G SFP
Stacking Bandwidth	688 Gbps
Default Power Supply	715W AC
Uplink Configuration	Modular Uplinks



High-Density Fiber Access

C9300-24S-E offers 24x 1G SFP ports, providing high-density optical connectivity that supports a broad variety of enterprise deployment scenarios. It enables seamless integration of fiber connections throughout the access layer, enhancing both reach and reliability for modern LANs and campus networks.

Exceptional Stacking Performance

Supporting up to 688 Gbps stacking bandwidth, the model utilizes Cisco StackWise-480 for redundancy and scalability. Multiple units can be interconnected to act as a single switch. This design ensures high resilience and flexible port expansion, ideal for dynamic growing enterprises.

Enterprise-Grade Switching Capacity

With a 208 Gbps switching capacity and 154.76 Mpps forwarding rate, the C9300-24S-E easily handles large volumes of data and congestion-free packet forwarding. It is optimized for bandwidth-intensive applications, high-density environments, and uninterrupted service delivery.

Comprehensive Network Virtualization

The hardware supports extensive virtualization and segmentation, allowing for network compartmentalization through unified policies and robust VLAN, SVIs, and QoS management. Enterprises can safely implement department and guest segmentation or hybrid IT environments with ease and security.

Programmable Intelligent Architecture

Leverages Cisco's UADP ASIC with robust programmability, enabling software-driven automation, policy-based operations, and advanced analytics across network segments. This accelerates deployment and simplifies ongoing management for distributed or multi-cloud enterprises.

Backward Compatible and Investment Protection

Featuring mixed stacking and backward compatibility, it preserves existing investments by integrating seamlessly with other Catalyst 9300 and 9300X models. Shared StackPower and redundant fans further enhance operational reliability and protect against hardware obsolescence.

Advanced Security and Encryption

Built-in hardware-based 100G IPsec support and AES-256 encryption deliver end-to-end secure tunnel connectivity. This safeguards application traffic, supports secure cloud connections, and ensures compliance for sensitive business operations and global standards.

Multi-Mode Cloud and On-Premises Manageability

Supports on-premises, virtualized, and cloud-based management, including migration to Cisco Meraki. This enables organizations to transition between management models as their IT strategies evolve, while retaining CLI and advanced features for skilled network professionals.

Technical Specifications

Product Specifications

Feature	Value
Total 10/100/1000 or Multigigabit copper ports	N/A
1G SFP Ports	24x 1G SFP
Uplink Configuration	Modular Uplinks
Default AC power supply	715W AC
Available PoE power	N/A
Dimensions (H x W x D)	1.73 x 17.5 x 17.7 Inches
Cisco StackWise-480	Yes
Cisco StackPower	Yes
Default power supply	PWR-C1-715WAC-P/2
Switching capacity	208 Gbps
Stacking bandwidth	688 Gbps



Feature	Value
Forwarding rate	154.76 Mpps
Total number of MAC addresses	32,000
Total number of IPv4 routes (ARP plus learned routes)	32,000 (24,000 direct routes and 8000 indirect routes)
IPv4 routing entries	32,000
IPv6 routing entries	16,000
Multicast routing scale	8000
QoS scale entries	5120
ACL scale entries	5120
Packet buffer per SKU	16 MB buffer for 24- or 48-port Gigabit Ethernet models, 32 MB buffer for 24 and 48-port Multigigabit
FNF entries	64,000 flow on 24- and 48-port Gigabit Ethernet models, 128,000 flows on 24-port Multigigabit
DRAM	8 GB
Flash	16 GB
VLAN IDs	4094
Total Switched Virtual Interfaces (SVIs)	1000
Jumbo frames	9198 bytes
Total routed ports Catalyst per 9300 Series stack	448
Wireless bandwidth per switch	Up to 96 Gbps on 48-port Gigabit Ethernet model
Mean time between failures – MTBF (hours)	284,130
Safety certifications	UL 60950-1, CAN/CSA-C222.2 No. 60950-1, EN 60950-1, IEC 60950-1, AS/NZS 60950.1, IEEE 802.3
Electromagnetic emissions certifications	47 CFR Part 15, CISPR22 Class A, EN 300 386 V1.6.1, EN 55022 Class A, EN 55032 Class A, CISPR 32 Class A, EN61000-3-2, EN61000-3-3, ICES-003 Class A, TCVN 7189 Class A, V-3 Class A, CISPR24, EN 300 386, EN55024, TCVN 7317, V-2/2015.04, V-3/2015.04, CNS13438, KN32, KN35, IEC 61000-6-1, EN 61000-6-1
Environmental	Reduction of Hazardous Substances (ROHS) 5

Product Comparison

Feature	C9300-24S-E	C9300-24T-E	C9300-24P-A
Fixed Ports	24x 1G SFP	24x 1G RJ45	24x 1G RJ45 (PoE+)



Feature	C9300-24S-E	C9300-24T-E	C9300-24P-A
Switching Capacity	208 Gbps	208 Gbps	208 Gbps
Stacking Bandwidth	688 Gbps	688 Gbps	688 Gbps
Default Power Supply	715W AC	715W AC	715W AC (PoE+ available)
PoE Support	N/A	N/A	Yes, PoE+
MAC Address Table	32,000	32,000	32,000
IPv4/IPv6 Routing	32,000/16,000	32,000/16,000	32,000/16,000
Management Options	On-premises, Virtual, Cloud (Meraki)	On-premises, Virtual, Cloud (Meraki)	On-premises, Virtual, Cloud (Meraki)

Accessories

Category	Accessories
Included Accessories	- AC Power Adapter - Mounting Bracket - Console Cable
Optional Accessories	- SFP Transceiver Modules - Redundant Power Supply - StackWise-480 Stacking Cable



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References

[1] Cisco. (2024). Catalyst 9300 Series Switches Datasheet. Retrieved from <https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-9300-series-switches/nb-06-cat9301-ser-data-sheet-cte-en.html>