



Cisco

C9300-48S-A

Datasheet

Product Overview

- Cisco Catalyst 9300 Series sets the standard for enterprise access switching, offering a secure, high-performance platform for modern networks.
- Designed for businesses of all sizes, it supports hybrid workplaces, distributed users, and dynamic cloud applications, ensuring flexible connectivity.
- The C9300-48S-A delivers 48×1G SFP fiber ports, 256 Gbps switching capacity, and 736 Gbps stacking bandwidth for scalable, high-speed deployments.
- It features advanced stacking with StackWise, robust modular uplinks, and strong Layer 3 routing alongside seamless high-density fiber stacking.
- Flexible cloud-based and on-premises management options reduce network complexity and streamline operations for IT teams worldwide.
- Ideal for evolving campus and branch networks, Cisco Catalyst 9300 offers agile, secure, and future-ready switching to support digital transformation.

Product Highlights

- **48×1G SFP Fiber Ports:** High-density gigabit fiber access supports enterprise and campus network expansion with flexible deployment options.
- **256 Gbps Switching Capacity:** Handles large data flows and multiple applications, guaranteeing non-blocking wire-speed performance for demanding tasks.
- **StackWise-480 Technology:** Supports up to eight-member stacking for increased resiliency and simplified scalability without performance loss.
- **Modular Uplink Slots:** Enable flexible uplink combinations, future upgrades, and network expansion with minimal disruption or hardware change.

Detailed Features



C9300-48S-A

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Component	Specification
Switching Capacity	256 Gbps
Forwarding Rate	190.47 Mpps
Ports	48 × 1G SFP
Stacking Bandwidth	736 Gbps
Power Supply	715W AC Modular



High-Density Gigabit Fiber Access

With 48×1G SFP ports, the C9300-48S-A enables enterprises to build scalable optical access layers, offering high-speed transmission and robust connectivity for diverse wired environments. Its design is optimized for businesses aiming to expand fiber networks cost-effectively.

Powerful Stacking Architecture

Cisco StackWise-480 stacking provides up to 736 Gbps stacking bandwidth and supports flexible configurations. With mixed stacking and backward compatibility, organizations can seamlessly expand or upgrade without replacing existing investments or disrupting network operations.

Robust Performance and Throughput

Delivering a switching capacity of 256 Gbps and forwarding rate of 190.47 Mpps, the C9300-48S-A meets the needs of demanding campus networks, supporting bandwidth-intensive applications, simultaneous data transfer, and smooth video or VoIP services.

Advanced Layer 3 Routing

With 32,000 IPv4/16,000 IPv6 routing entries and comprehensive multicast support, the switch provides sophisticated traffic management, segmentation, and reliability, ensuring optimized routing across enterprise and branch environments.

Flexible Modular Uplink Design

The switch features modular uplink slots, supporting a variety of uplink speeds and module types. This future-oriented approach enables network expansion, rapid upgrades, and seamless adaptation to changes in traffic requirements or business growth.

Enterprise-Grade Security

Incorporating advanced security features, the C9300-48S-A helps protect against persistent threats. Integration with Cisco DNA and SD-Access enables group-based policy, analytics, and secure access for both users and devices.

Efficient Cloud and On-Premises Management

Compatible with Cisco DNA Center and Meraki cloud dashboard, the device enables centralized management, automation, and monitoring. IT teams benefit from simplified operations and consistent policies across wired and wireless environments.

Comprehensive Investment Protection

Supporting backward-compatible StackPower and fan modules, plus flexible software subscription models, the switch provides long-term value. Customers benefit from seamless upgrades, license portability, and access to continuous software innovations.

Technical Specifications

Product Specifications

Feature	Value
Product Description	Catalyst 9300 48 GE SFP Ports, modular uplink Switch
Total 10/100/1000 or Multigigabit Copper Ports	48x 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
Switching Capacity	256 Gbps
Stacking Bandwidth	736 Gbps
Forwarding Rate	190.47 Mpps



Feature	Value
Total Number of MAC Addresses	32,000
IPv4 Routing Entries	32,000
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- or 48-port Gigabit Ethernet models,
Packet Buffer per SKU	32 MB buffer for 24 and 48-port Multigigabit
FNF Entries	64,000 flow on 24- and 48-port Gigabit Ethernet models,
FNF Entries	128,000 flows on 24-port Multigigabit
DRAM	8 GB
Flash	16 GB
VLAN IDs	4,094
Total Switched Virtual Interfaces (SVIs)	1,000
Jumbo Frames	9,198 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)	281,920 hours
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, CISPR24, EN 300 386, EN55024, TCVN 7317, V-2/2015.04, V-3/2015.04, CNS 13438, KN32, KN35, IEC 61000-6-1, EN 61000-6-1
Environmental	Reduction of Hazardous Substances (ROHS) 5

Product Comparison

Feature	C9300-48S-A	C9300L-24T-4X-E	C9300-48P-E
Port Type	48 × 1G SFP	24 × 1G RJ45	48 × 1G RJ45 PoE+



Feature	C9300-48S-A	C9300L-24T-4X-E	C9300-48P-E
Switching Capacity	256 Gbps	128 Gbps	256 Gbps
Stacking Bandwidth	736 Gbps	320 Gbps	736 Gbps
Uplink Module	Modular (various options)	4 × 10G SFP+ fixed	Modular
Maximum PoE Output	N/A	None	740W (PoE+)
Layer 3 Routing	Yes	Yes	Yes
StackWise Support	Yes	Yes	Yes
Default Power Supply	715W AC	350W AC	715W AC
Dimensions (H x W x D)	1.73 x 17.5 x 17.7 in	1.73 x 17.5 x 13.8 in	1.73 x 17.5 x 17.7 in

Accessories

Category	Accessories
Included Accessories	- AC Power Supply Module - Rack Mount Kit - Console Cable
Optional Accessories	- SFP Transceiver Modules - Redundant Power Supply - Fan Module



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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>