



Cisco

C9300L-48UXG-4X-A

Datasheet



Product Overview

- Cisco Catalyst 9300 Series stands as Cisco’s lead stackable enterprise access switching platform, redefining secure, efficient connectivity.
- This solution targets distributed enterprises, education, hospitality, and mid-to-large businesses managing hybrid workforces and diverse endpoints.
- It offers 48 Multi-Gigabit ports with UPOE support, 4 fixed 10G uplinks, 320 Gbps stacking bandwidth, and embedded wireless controller functionality.
- Advanced features include industry-leading Stackwise-1T stacking, secure IPsec hardware, and flexible cloud or on-prem management.
- Support for Cisco DNA and Meraki subscriptions ensures streamlined deployment, unified policy, and full end-to-end network visibility.
- Purpose-built for scalable, secure, and simplified campus or branch networks, Catalyst 9300 maximizes performance and future-proofs your network investment.

Product Highlights

- **High-Speed Multigigabit Access:** Up to 48 Multi-Gigabit ports ensure fast wired connections for modern high-performance applications.
- **Advanced Stacking Architecture:** Stackwise-1T enables up to 320 Gbps stacking bandwidth for superior redundancy and scale.
- **Embedded Wireless Controller:** Supports up to 50 wireless access points for unified wired and wireless management.
- **Flexible Power Solutions:** Delivers 675W UPOE power across ports for diverse PoE devices and future expansion.

Detailed Features



C9300L-48UXG-4X-A

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Component	Specification
Downlink Ports	48 × 1G Multi-Gigabit Ethernet
Uplink Ports	4 × 10G SFP+ fixed uplink ports
Stacking Bandwidth	320 Gbps
PoE Capability	675W UPoE, 48 ports supported
Default Power Supply	1100W AC



High-Performance Access Switching

Cisco Catalyst 9300L-48UXG-4X-A delivers premium access switching with 48 Multi-Gigabit UPoE ports and 4 fixed 10G SFP+ uplinks. These features enable flexible, high-speed network designs for digital offices and large-scale deployments, meeting today's exponential bandwidth demands with ease.

Powerful Stackwise-1T Technology

Stackwise-1T delivers up to 320 Gbps stacking bandwidth, making the 9300L-48UXG-4X-A ideal for building robust, scalable switching fabrics. It allows seamless expansion and ensures network reliability, supporting up to 8-member stacks for high-density environments.

Comprehensive PoE and UPOE+ Support

With up to 675W PoE power across 48 ports, the switch empowers IoT devices, wireless APs, and smart building solutions. 90W UPOE+ ensures future-readiness for high-power endpoints without additional power infrastructure.

Integrated SD-Access Platform

Native SD-Access capability automates network policy, segmentation, and analytics across wired/wireless networks. Up to 256 Virtual Networks and embedded wireless controller for 50 APs simplify management and promote secure, policy-based automation.

Enhanced Network Security and Segmentation

Robust security features include hardware-level 100G IPsec encryption, group-based security policies, and support for secure edge tunnel connectivity. This enables precise segmentation, secure site-to-site VPN, and protection from advanced threats.

Advanced Application Hosting

Capable of hosting Cisco-signed applications directly on-switch with increased RAM, dual 10G AppGig Ports, and crypto acceleration. This supports network optimization tools and security applications for greater operational agility.

Intelligent Cloud & Local Management

Deploy, monitor, and configure via on-prem, virtual, or Meraki cloud-based dashboards, offering full operational flexibility. Unified management boosts IT productivity and reduces daily configuration workload.

Investment Protection & Scalability

Redundant power and fan support, backward-compatible stacking, and software licensing options ensure adaptable, investment-protected network growth for evolving business needs.

Technical Specifications

Product Specifications

Feature	Value
Product Description	Catalyst 9300 48-port fixed uplinks UPoE, 12xmGig, 4x10G uplinks, Network Advantage
FRU Power Supply	Yes
FRU Fans	Yes
Modular Uplinks	No
Stacking Bandwidth Support	320 Gbps
Cisco StackPower	No
Catalyst 9800 Embedded WLC	Yes (50 APs)
SD-Access Support	Yes (256 Virtual Networks)
Total 10/100/1000, Multigigabit copper or SFP Fiber	48 UPoE 12xmGig
Uplink Configuration	4x 10G fixed uplinks
Default AC power supply	1100W AC
Available PoE power	675W



Feature	Value
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
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
Total routed ports per Catalyst 9300 Series stack	416
Switching capacity	392 Gbps
Switching capacity with stacking	712 Gbps
Forwarding rate	291.66 Mpps
Forwarding rate with stacking	529.76 Mpps
Dimensions (H x W x D) cm - Chassis only	4.4 x 44.5 x 40.9
Dimensions (H x W x D) cm - W/ Default Power Supply	4.4 x 44.5 x 48.8
Dimensions (H x W x D) cm - W/ 1100W Power Supply	4.4 x 44.5 x 48.8
Mean Time Between Failures (MTBF)	273,820 hours

Product Comparison

Feature	C9300L-48UXG-4X-A	C9300L-24T-4G-E	JL625A
Downlink Ports	48 × 1G Multi-Gig UPoE	24 × 1G RJ45	24 × 1G RJ45
Uplink Ports	4 × 10G SFP+ fixed	4 × 1G SFP	4 × 10G SFP+



Feature	C9300L-48UXG-4X-A	C9300L-24T-4G-E	JL625A
PoE Budget	675W UPoE+	370W PoE+	370W PoE+
Stacking Bandwidth	320 Gbps	80 Gbps	Stacking not supported
Embedded Wireless Controller	Yes (50 APs)	No	No
SD-Access Support	Yes (256 Virtual Networks)	No	No
Switching Capacity	392 Gbps	104 Gbps	128 Gbps
Management Options	On-Prem, Cloud (Meraki), Virtual	On-Prem	On-Prem, Cloud

Accessories

Category	Accessories
Included Accessories	- Power Adapter - Mounting Brackets - Quick Installation Guide
Optional Accessories	- SFP/SFP+ Transceiver Modules - Redundant Power Supply - StackWise-320 Stack Cable



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References

[1] Cisco Systems. (2024). 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>