Cisco

C9300L-48UXG4X-10E

Datasheet

Product Overview

- The Cisco Catalyst 9300 Series is a flagship stackable enterprise access switch platform designed to transform modern networks for unmatched security and flexibility.

- Targeting businesses of all sizes, it is the ideal solution for offices, education, retail, and distributed campuses that require reliable, scalable connectivity.

- Key specs include 48 Multi-Gigabit PoE+ ports, 4 fixed 10G uplinks, and a switching capacity of 392 Gbps, with robust hardware redundancy built-in.

- Innovative features like software-defined access, built-in wireless controller, and advanced network segmentation set this switch apart from conventional models.

- Flexible deployment is made simple with unified management—on-premises, virtual, or cloud—enabling fast device rollout and streamlined monitoring.

- With its hybrid workforce orientation, the switch delivers secure, high-speed access while supporting IoT and future digital growth for any enterprise scenario.

Product Highlights

- **Flexible Multi-Gigabit PoE+ Access:** 48 Multi-Gigabit PoE+ ports support diverse endpoint connectivity, ideal for Wi-Fi 6 APs and IoT deployments.

- **High-Bandwidth Uplink Design:** 4 fixed 10G uplinks offer scalable, reliable aggregation for demanding network core or distribution environments.

- **Integrated Wireless Controller:** Embedded wireless LAN controller supports up to 50 APs for seamless wired and wireless integration.

- **Advanced Security & SD-Access Support:** Enables segmentation, macro/micro policies, and context-aware analytics for strong network protection.

Detailed Features

C9300L-48UXG4X-10E

Component	Specification
Downlink Ports	48 × 1G Multi-Gigabit PoE+
Uplink Ports	4 × 10G fixed uplinks
Switching Capacity	392 Gbps
PoE Power	675W available
Stacking Bandwidth	320 Gbps

Comprehensive Multi-Gig Access

Equipped with 48 PoE+ Multi-Gigabit ports, the switch ensures high-speed, energy-efficient connectivity for a wide range of access devices. This makes it ideal for dense network environments with Wi-Fi 6 APs, high-performance workstations, and IoT endpoints, supporting modern digital transformation needs.

Powerful Uplink & Data Capacity

Featuring 4 fixed 10G uplinks, it guarantees fast backbone connections and high throughput for bandwidth-intensive applications. A switching capacity of 392 Gbps and stacking bandwidth of 320 Gbps enable smooth traffic handling in large or distributed enterprise networks.

Embedded Wireless Controller

The built-in Catalyst 9800 wireless LAN controller supports up to 50 access points, unifying wired and wireless management. This integrated approach simplifies operations, minimizes hardware investment, and provides consistent network performance without standalone appliances.

High-Performance Virtualization

256 virtual networks through SD-Access allow powerful segmentation and network virtualization. Customers can isolate departments, devices, or services securely, enabling granular policy enforcement and flexible operations that scale with business requirements.

Extensive Routing & Forwarding Resources

It supports up to 32,000 IPv4 routes, 16,000 IPv6 entries, and 5,120 ACL/QoS entries, offering future-proof routing and traffic management across varied application scenarios. Its forwarding rate up to 291.66 Mpps ensures smooth, interruption-free delivery of critical business traffic.

Advanced Security & Analytics

Native support for group-based policies, context-aware analytics, and network synthetics (via Cisco ThousandEyes) enables real-time monitoring, threat detection, and simplified troubleshooting, strengthening enterprise security posture.

Redundant & Efficient Hardware Design

Field-replaceable unit (FRU) power supplies and fans increase system reliability and uptime. The switch provides a PoE budget of 675W and high MTBF (273,820 hours), minimizing maintenance needs and operational risks.

Unified Management with Cisco DNA/Meraki

Flexible software subscriptions and management options on-premises, virtual, or cloud ensure organizations can adopt the most suitable IT operations model. Enhanced visibility and simplified device onboarding included lower cost of ownership over the lifecycle.

Technical Specifications

Product Specifications

Feature	Value
Product Description	C9300L 48p PoE+ 12xmGig, Network Essentials, 4x10G Uplink
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 PoE+ 12xmGig
Uplink Configuration	4x 10G fixed uplinks
Default AC Power Supply	1100W AC

Feature	Value
Available PoE Power	675W
Total Number of MAC Addresses	32,000
Total Number of IPv4 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 flows 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, With Default Power Supply: 4.4 x 44.5 x 48.8, With 1100W Power Supply: 4.4 x 44.5 x 48.8
Mean Time Between Failures (MTBF)	273,820 hours

Product Comparison

Feature	C9300L-48UXG4X-10E	C9300L-24UXG4X-10A	C9300L-48PF-4G-10E
Downlink Ports	48 × 1G Multi-Gig PoE+	24 × 1G Multi-Gig PoE+	48 × 1G PoE+
Uplink Ports	4 × 10G fixed	4 × 10G fixed	4 × 1G fixed
PoE Budget	675W	445W	740W

Feature	C9300L-48UXG4X-10E	C9300L-24UXG4X-10A	C9300L-48PF-4G-10E
Wireless Controller	Embedded (50 APs)	Embedded (50 APs)	Embedded (50 APs)
Stacking Bandwidth	320 Gbps	320 Gbps	320 Gbps
Switching Capacity	392 Gbps	272 Gbps	176 Gbps
SD-Access Support	Yes (256 Virtual Networks)	Yes (256 Virtual Networks)	Yes (256 Virtual Networks)
Dimensions (H x W x D) cm	4.4 x 44.5 x 40.9	4.4 x 44.5 x 40.9	4.4 x 44.5 x 40.9

Accessories

Category	Accessories
Included Accessories	- Power cord - Mounting kit - Console cable
Optional Accessories	- SFP+ transceivers - Redundant power supply - Stack kit

Support & Warranty

24/7 Online Service	3-Year Premium Warranty	Professional Technical Support	100% Low Price Guarantee	100% Quality Assurance	100% Money Back Guarantee

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High Connectivity: sales@router-switch.com
Expert Technical Support: ccie-support@router-switch.com
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USA: +1-626-655-0998
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Global Branches

Headquarters (Hong Kong)

Rm 605, 6/F, Fa Yuen Comm Bldg, 75-77 Fa Yuen St, Mongkok, Kowloon, Hong Kong, China

Shenzhen Branch

Jingfeng Building, 1001 Shangbu South Road, Futian District, Shenzhen, China

USA Branch

3592 Rosemead Blvd, B #220, Rosemead, CA 91770, USA

UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK

References

[1] Cisco. (2024). 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