

Cisco

C9300L-48UXG2Q-10A

Datasheet



Product Overview

- The Cisco Catalyst 9300 Series is Cisco's flagship stackable enterprise access switch platform, tailored for modern hybrid workplaces.
- This switch platform serves businesses of all sizes, ideal for offices, campuses, distributed branches, and workplaces that require scalable secure access.
- C9300L-48UXG2Q-10A features 48 Multi-Gigabit UPOE+ ports, 2x 40G uplinks, up to 472 Gbps switching capacity, and 675W PoE power budget.
- Advanced Layer 3 routing, integrated Catalyst 9800 WLC for 50 APs, and SD-Access support for 256 Virtual Networks deliver network evolution.
- It offers cloud, on-premises, and hybrid management options, end-to-end network visibility with ThousandEyes, and seamless software subscription integration.
- The Catalyst 9300L-48UXG2Q-10A empowers modern IT teams to simplify operations, optimize application experience, and scale secure connectivity across diverse environments.

Product Highlights

- **48 x Multigigabit UPOE+ Ports:** Deliver high-density connectivity for access points and smart devices with robust 90W PoE+ support per port.
- **High-Performance Uplinks:** Two fixed 40G uplink ports ensure reliable and fast aggregation to distribution or core networks.
- **Layer 3 and SD-Access:** Advanced routing, segmentation, and fabric integration elevate security and automation.
- **Unified Management Options:** Granular on-premises, cloud, or hybrid management through Cisco DNA Center and Meraki dashboard.

Detailed Features



C9300L-48UXG2Q-10A

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Component	Specification
Downlink Ports	48 × 1G Multigigabit UPOE+
Uplink Ports	2 × 40G fixed uplinks
Switching Capacity	472 Gbps
PoE Power	675W
Management	Embedded Catalyst 9800 WLC (50 APs supported)



High-Density Multigigabit Access

The C9300L-48UXG2Q-10A provides 48 Multigigabit UPOE+ downlink ports, supporting up to 90W of power per port and a total PoE budget of 675W. This high density allows seamless support for Wi-Fi 6/6E APs, IoT devices, surveillance cameras, and workspace endpoints, ensuring robust connectivity in high-demand environments.

High-Speed Fixed 40G Uplinks

Equipped with 2 fixed 40G uplink ports, the switch enables rapid aggregation and uninterrupted high-speed connections to core or distribution switches. These uplinks ensure the network backbone remains uncongested even as access demands grow, making it ideal for scaling in campuses and enterprise deployments.

Advanced Layer 3 Network Services

The switch supports advanced Layer 3 routing protocols, including large routing tables (32,000 IPv4, 16,000 IPv6 entries) and multicast (8,000 groups). It provides dynamic routing, traffic optimization, and network segmentation to serve converged wired/wireless deployments and complex topologies.

Integrated Wireless Controller

With an embedded Catalyst 9800 Wireless LAN Controller supporting management for up to 50 APs, the C9300L-48UXG2Q-10A seamlessly enables unified wired and wireless management within a single platform, ensuring fast deployment and consistent policy enforcement across the network.

SD-Access and Fabric Automation

Support for Cisco SD-Access architecture delivers automated policy, segmentation, and comprehensive fabric deployment for up to 256 virtual networks. This simplifies IT operations and strengthens security through context-aware access control and group-based policy automation.

Reliability and Redundancy

Redundant, field-replaceable power supplies and fans enhance service continuity and lower mean time to repair. Hardware reliability is reinforced by a high MTBF (275,010 hours) and flexible architecture, minimizing operational risk in enterprise settings.

Scalable Stacking and Deployment

While this model provides 320 Gbps stacking bandwidth, it supports large stack deployments when paired within the Catalyst 9300 family, offering scalable port growth and simplified management under a single console for up to eight units per stack.

Comprehensive Software Ecosystem

Cisco DNA and Meraki software subscriptions enable flexible management, license portability, and regular upgrades. Integrated visibility tools like Cisco ThousandEyes and firewall hosting capability deliver full application analytics and robust security within the switching infrastructure.

Technical Specifications

Product Specifications

Feature	Value
Product Description	C9300L 48p PoE+ 12xmGig, 2x40G Uplink, 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	2x 40G fixed uplinks



Feature	Value
Default AC power supply	1100W AC
Available PoE power	675W
Total number of MAC addresses	32,000
Total number of IPv4 routes	32,000 (24,000 direct 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
FNF entries	64,000
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	472 Gbps
Switching capacity with stacking	792 Gbps
Forwarding rate	351.19 Mpps
Forwarding rate with stacking	589.28 Mpps
Dimensions (H x W x D) Cms - Chassis only	4.4 x 44.5 x 40.9
Dimensions (H x W x D) Cms - W/ Default Power Supply	4.4 x 44.5 x 48.8
Dimensions (H x W x D) Cms - W/ 1100W Power Supply	4.4 x 44.5 x 48.8
Mean Time Between Failures–MTBF (hours)	275,010

Product Comparison

Feature	C9300L-48UXG2Q-10A	C9300L-48UXG4X-10A	C9300-48T-A
Downlink Ports	48 × 1G Multigigabit UPOE+	48 × 1G Multigigabit UPOE+	48 × 1G Base-T



Feature	C9300L-48UXG2Q-10A	C9300L-48UXG4X-10A	C9300-48T-A
Uplink Ports	2 × 40G	4 × 10G	4 × 1G/10G SFP+
PoE Budget	675W	675W	N/A
Wireless Controller	Embedded Catalyst 9800 (50 APs)	Embedded Catalyst 9800 (50 APs)	N/A
Switching Capacity	472 Gbps	472 Gbps	208 Gbps
Stacking Bandwidth	320 Gbps	320 Gbps	480 Gbps
Layer 3 Features	Advanced, SD-Access support	Advanced, SD-Access support	Full L3, no SD-Access
Management	On-premises, cloud (Meraki), hybrid	On-premises, cloud, hybrid	On-premises
Suitable Scenario	High-density, PoE-rich enterprise	High-density, flexible uplink enterprise	Standard access switching

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power Adapter - Mounting Brackets - Console Cable
Optional Accessories	<ul style="list-style-type: none"> - SFP+ Transceiver Modules - 40G QSFP+ Modules - Redundant Power Supply Unit



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Contact Us

Email

High Connectivity: sales@router-switch.com

Expert Technical Support: ccie-support@router-switch.com

Cooperative Partnerships: ccie-support@router-switch.com

Phone

USA: +1-626-655-0998

Hong Kong: +852-25925389 / +852-25925411

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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

USA Branch

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

Shenzhen Branch

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

UK Branch

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



References

[1] Cisco. (2024). Cisco 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>