

Cisco
C9300L-48UXG2Q-10E
Datasheet



Product Overview

- Cisco Catalyst 9300 Series stands as the premier stackable enterprise switch line designed for modern hybrid networks.
- It suits distributed workplaces, large enterprises, managed service providers, and next-generation campus network buildouts.
- Delivers 48-port multi-gigabit access, 2x 40G uplinks, and powerful 472 Gbps switching capacity for high-performance scenarios.
- Supports embedded wireless controller, stacking up to 320 Gbps, and seamless integration with SD-Access fabric.
- Management is flexible, allowing cloud, on-premises, or virtual deployment, with advanced security and deep analytics.
- Brings high bandwidth, robust security, and full-stack visibility for evolving enterprise and service provider environments.

Product Highlights

- **High Performance Multi-Gig Access:** 48 multi-gigabit and PoE+ ports deliver fast, stable connections for large device density.
- **Advanced Uplink Flexibility:** 2 × 40G fixed uplink ports support scalable aggregation and fast uplink speeds for critical data flows.
- **Embedded Wireless Support:** Integrated Catalyst 9800 controller supports up to 50 APs for seamless unified wired-wireless deployments.
- **Stacking Capability:** 320 Gbps stack bandwidth enables efficient resource sharing and failover for business-critical reliability.

Detailed Features



C9300L-48UXG2Q-10E

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Component	Specification
Access Ports	48 × 1G Multi-Gigabit
Uplink Ports	2 × 40G fixed uplinks
Switching Capacity	472 Gbps
PoE Power	675W available PoE
Wireless Controller	Supports up to 50 APs



Robust Multi-Gigabit Access

The switch provides 48 UPoE access ports with 12 mGig capabilities, ideal for densified IoT and high-throughput device environments where seamless speed and power are essential for performance.

High-Bandwidth Uplink Design

Dual 40G fixed uplinks secure rapid data aggregation, maximizing backbone connectivity and future-proofing campus and enterprise deployments requiring abundant east-west or north-south data flows.

Flexible Network Management

Whether managed locally, virtually, or via the Meraki cloud dashboard, the C9300L-48UXG2Q-10E adapts management style to suit enterprise, MSP, or midmarket needs with deep monitoring and automation options.

Advanced Embedded Services

Catalyst 9800 series controller support enables integrated WLAN management for up to 50 APs, while SD-Access facilitates up to 256 virtual networks and efficient segmentation.

Enhanced Security Framework

With AES-256 encryption and IPsec hardware, secure edge and site-site tunnels can be deployed natively, supporting robust, scalable remote access and IoT protection.

Superior Stacking Capabilities

320 Gbps stack bandwidth boosts failover and redundancy among switches, ensuring business continuity with Stackwise technology and quick scalability as organizational demands grow.

Comprehensive Routing Support

Handles up to 32,000 IPv4 and 16,000 IPv6 routes plus multicast and SVI scalability, providing intelligent routing architecture for large campus or multi-tenant networks.

Optimized Operational Efficiency

Embedded 8 GB DRAM, 16 GB flash, LED mode buttons, and intuitive power/fan modularity offer streamlined maintenance and assured high uptimes for critical enterprise services.

Technical Specifications

Product Specifications

Feature	Value
Product Description	C9300L 48p PoE+ 12xmGig, Netw Ess,2x40G 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 UPoE 12xmGig
Uplink Configuration	2x 40G fixed uplinks
Default AC power Supply	1100W AC
Available PoE power	675W
Total number of MAC addresses	32,000
IPv4 routes	32,000 (24,000 direct routes and 8,000 indirect routes)



Feature	Value
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	4094
Total Switched Virtual Interfaces (SVIs)	1000
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 (W/ Default Power Supply)	4.4 x 44.5 x 48.8
Dimensions (W/ 1100W Power Supply)	4.4 x 44.5 x 48.8
Mean Time Between Failures–MTBF (hours)	275,010
Acoustic Noise with AC power supply (with 24 PoE+ ports loaded for C9300 SKUs)	LpA: 45dB typical, 48 dB max; LwA: 5.6B typical, 5.9B max
Acoustic Noise with AC power supply (with half the number of PoE+ ports loaded for C9300L SKUs)	LpA: 44dB typical, 47 dB max; LwA: 5.5B typical, 5.8B max

Product Comparison

Feature	C9300L-48UXG2Q-10E	C9300L-24P-4G-A	C9300L-48PF-4X-A
Access Ports	48 × Multi-Gigabit UPoE	24 × PoE+ 10/100/1000	48 × PoE+ 10/100/1000
Uplink Ports	2 × 40G fixed uplinks	4 × 1G SFP uplinks	4 × 10G SFP+ uplinks



Feature	C9300L-48UXG2Q-10E	C9300L-24P-4G-A	C9300L-48PF-4X-A
Switching Capacity	472 Gbps	128 Gbps	176 Gbps
Embedded Wireless Controller	Yes (50 APs)	No	No
Stacking Bandwidth	320 Gbps	80 Gbps	80 Gbps
Available PoE Power	675W	370W	740W
SD-Access Support	Yes (256 VNs)	No	No
Routing Table Size (IPv4/IPv6)	32,000/16,000	16,000/8,000	24,000/12,000

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power Adapter - Mounting Kit - Console Cable
Optional Accessories	<ul style="list-style-type: none"> - SFP/SFP+ Transceiver - Redundant Power Supply - Stacking Cable



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High Connectivity: sales@router-switch.com

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

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Phone

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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 Systems. (2023). Cisco 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>