

**Cisco**  
**C9300L-48UXG-2Q-A**  
**Datasheet**



## Product Overview

- Cisco Catalyst 9300 Series is a flagship stackable enterprise switch line, engineered for high-performance modern networks.
- Ideal for large office, educational, and campus environments, it supports hybrid workforces across Asia, Europe, Africa, and North America.
- With 48 Multigigabit UPoE ports, 2x 40G fixed uplinks, and a 320 Gbps stacking bandwidth, it meets core enterprise needs.
- Features like embedded wireless controller for up to 50 APs, SD-Access support, and advanced security ensure a future-ready network.
- Centralized management in the cloud or on-premises offers flexible, scalable operation and simplified device deployment.
- The C9300L-48UXG-2Q-A delivers secure, efficient, and resilient access, helping organizations scale and innovate with confidence.

## Product Highlights

- **High-Speed Multi-Gigabit Ports:** Up to 48 UPoE Multigigabit ports support fast wired connections for critical business devices and high-density deployments.
- **Powerful 40G Uplink Options:** 2 fixed 40G uplinks ensure robust core connectivity and seamless data aggregation for large campus or branch scenarios.
- **Embedded Wireless Controller:** Supports up to 50 APs for unified wired and wireless management, reducing network complexity.
- **Intelligent SD-Access and Security:** Integrated software-defined access and enhanced security features simplify policy management and segmentation.

## Detailed Features



### C9300L-48UXG-2Q-A

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Component	Specification
Downlink Ports	48 × 1G Multi-Gigabit UPoE
Uplink Ports	2 × 40G fixed uplinks
Stacking Bandwidth	320 Gbps
Power Supply	1100W AC (available PoE power: 675W)
Switching Capacity	472 Gbps (standalone), 792 Gbps (with stacking)



## Multigigabit High-Density Access

The C9300L-48UXG-2Q-A features 48 Multigigabit UPoE ports for flexible gigabit and multi-gigabit access, supporting diverse endpoints including IoT, desktops, and phones. This high port density enables scalable access for large workspaces and devices, ideal for modern enterprise and educational demands.

## High-Power UPoE Capability

Supporting up to 60W per port across all 48 ports, the switch delivers maximum Universal PoE, enabling reliable power for advanced endpoints such as Wi-Fi 6 APs, surveillance cameras, and collaboration tools, reducing cabling and PoE injector requirements for simpler deployments.

## Dual 40G Uplink Design

With two fixed 40G QSFP+ uplinks, the switch ensures non-blocking, high-capacity backbone connectivity, supporting large-scale aggregation, multi-site campuses, and high-speed data center uplinks for advanced application throughput and business continuity.

## Integrated SD-Access Support

The switch seamlessly supports Cisco SD-Access fabric, enabling policy-based automation, rapid segmentation, and secure edge-to-cloud access. This ensures simplified operations, micro-segmentation, and easier IoT and user onboarding for evolving networks.

## Embedded Wireless Controller Functionality

The integrated wireless controller manages up to 50 Access Points, providing consistent wired and wireless policy, simplified network management, and scalability for growing wireless environments with no external controllers required.

## Advanced Security Suite

The model implements advanced security, including hardware-accelerated 256-bit encryption, IPsec, and application-based firewall hosting. It provides internal network defense from endpoint to cloud, mitigating threats and unauthorized access.

## Cloud and On-Premises Management Choices

Supporting Cisco DNA Center and Meraki dashboards, the switch offers flexible managementcloud or local. This enables real-time monitoring, streamlined device onboarding, and user-friendly troubleshooting from a single interface.

## Investment and Interoperability Assurance

Backward compatibility for power and stacking modules, plus flexible software subscription models, ensures smooth upgrades and future expansion. Unified platform strategy maximizes return on infrastructure investment and operational consistency.

# Technical Specifications

## Product Specifications

Feature	Value
Product Description	Catalyst 9300 48-port fixed uplinks UPoE, 12xmGig, 2x40G 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	2x 40G 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 (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	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-48UXG-2Q-A	C9300-24UXB-E	C9300-48UB-A
Fixed Ports	48 × 1G Multigig UPoE	24 × 1G Multigig UPoE	48 × 1G UPoE
Uplink Ports	2 × 40G fixed QSFP+	4 × 10G SFP+	4 × 10G SFP+



Feature	C9300L-48UXG-2Q-A	C9300-24UXB-E	C9300-48UB-A
Stacking Bandwidth	320 Gbps	480 Gbps	480 Gbps
Available PoE Power	675W	830W	960W
Embedded Wireless Controller	Yes (50 APs)	Yes (50 APs)	Yes (100 APs)
SD-Access Support	Yes (256 Virtual Networks)	Yes (256 Virtual Networks)	Yes (256 Virtual Networks)
Switching Capacity	472 Gbps	494 Gbps	544 Gbps
Dimensions (H x W x D)	4.4 x 44.5 x 40.9 cm	4.4 x 44.5 x 36.8 cm	4.4 x 44.5 x 40.9 cm

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Power Adapter</li> <li>- Rack Mount Kit</li> <li>- Console Cable</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- SFP+ Transceiver</li> <li>- QSFP+ Module</li> <li>- Redundant Power Supply</li> </ul>



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### Shenzhen Branch

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### UK Branch

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## References

[1] Cisco. (2023). 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>