

Cisco
C9300L-48UXG-4X-E
Datasheet



Product Overview

- Cisco Catalyst 9300 Series sets a high standard for stackable access switches, built for secure and agile enterprise networking.
- Designed for modern businesses, the C9300L-48UXG-4X-E is ideal for offices, educational institutions, and organizations seeking flexible, scalable solutions.
- With 48 x 10G SFP+ ports, 4 x 10G uplinks, and 176 Gbps switching capacity, it delivers high-speed data transfer and robust performance for demanding environments.
- Advanced stacking up to 1 TB bandwidth, seamless mixed stacking, and hardware-based IPsec security define its leadership in innovation.
- Centralized management options include on-premises, cloud, or virtual strategies, all with unified wired and wireless network visibility for streamlined operations.
- This switch empowers businesses to simplify IT, boost security, and future-proof their infrastructure for hybrid work scenarios and diverse endpoints.

Product Highlights

- **High-Speed Access:** 48 x 10G SFP+ ports offer fast, reliable connections for bandwidth-intensive enterprise workloads.
- **Flexible Uplink Options:** 4 x 10G SFP+ uplink ports ensure seamless network expansion and aggregation flexibility.
- **Advanced Stacking:** Supports high-density StackWise-1T with up to 320Gbps for scalable, resilient deployments.
- **Integrated Security & Cloud Management:** Enables secure connectivity, advanced application hosting, and cloud-based visibility with Meraki dashboard options.

Detailed Features



C9300L-48UXG-4X-E

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Component	Specification
Switching Capacity	176 Gbps
Forwarding Rate	160.7 Mpps
Ports	48 x 10G SFP+ ports
Uplink Interfaces	4 x 10G SFP+ ports
Stacking Bandwidth	320 Gbps



High-Density 10G SFP+ Ports

The Cisco C9300L-48UXG-4X-E integrates 48 high-speed 10G SFP+ ports, delivering exceptional throughput for modern enterprise networks that require rapid data transfer and future expansion. This high port density makes it easy to scale up or adapt to new network demands.

Powerful Stacking Capabilities

With StackWise-1T, it supports stacking bandwidth up to 320 Gbps, enabling seamless clustering of switches for simplified network management, high availability, and non-stop operation even during maintenance. Backward compatibility with previous models protects your investment.

Robust Switching Performance

A switching capacity of 176 Gbps, along with a forwarding rate of 160.7 Mpps, ensures smooth network traffic even in high-load environments. This robust performance is suitable for data centers, large offices, and educational campuses seeking uninterrupted service.

Advanced Layer 2 & 3 Support

Comprehensive Layer 2 and Layer 3 features, including VLAN, QoS, and dynamic routing protocols, enable intelligent network segmentation, optimized traffic forwarding, and efficient communication across enterprise LAN and WAN infrastructures.

Enhanced Security Technologies

Built-in Cisco UADP 2.0 hardware supports line-rate 100G IPsec encryption. Secure tunnel connectivity and 256-bit AES keep data safe, while application hosting enables adaptive next-generation firewall and traffic inspection.

Flexible Management and Automation

Choose from on-premises, virtual, or cloud management including Cisco DNA and Meraki dashboards. Network virtualization, unified policy, and simplified deployments reduce manual operational tasks and speed up configuration.

Comprehensive Application Hosting

Embedded Intel QuickAssist Technology and expanded memory allow the switch to support ThousandEyes for network insights and Cisco ASAc for seamless, application-level security without extra hardware.

Investment Protection and Reliability

Backward-compatible stacking and StackPower, redundant fans, and hot-swappable power supply options ensure business continuity and protect long-term network investments across evolving infrastructures.

Technical Specifications

Product Specifications

Feature	Value
Ports	48x 10G SFP+ uplink
Uplink Interfaces	4x 10G SFP+
Switching Capacity	176 Gbps
Forwarding Rate	160.7 Mpps
Flash	16 GB
DRAM	8 GB
Layer Support	Layer 2 and Layer 3
Dimensions	1.73 x 17.5 x 19.1 in.
Power Supply	350W AC
Max Power Consumption	250W
Stacking Bandwidth	320 Gbps
Stacking Support	Yes



Product Comparison

Feature	C9300L-48UXG-4X-E	C9300L-48PF-4G-10E	C9300L-24P-4G-A
Fixed Ports	48 × 10G SFP+	48 × 10/100/1000 PoE+	24 × 10/100/1000 PoE+
Uplink Interfaces	4 × 10G SFP+	4 × 1G SFP	4 × 1G SFP
Switching Capacity	176 Gbps	104 Gbps	56 Gbps
Forwarding Rate	160.7 Mpps	77.4 Mpps	83.33 Mpps
PoE Power Budget	N/A	740W	370W
Stacking Bandwidth	320 Gbps	320 Gbps	320 Gbps
Layer Support	Layer 2 and Layer 3	Layer 2 and Layer 3	Layer 2 and Layer 3
Management	On-premises/Cloud/Cisco DNA	On-premises/Cloud/Cisco DNA	On-premises/Cloud/Cisco DNA
Application Scenario	High-speed 10G aggregation	Enterprise access with full PoE	Compact access with full PoE

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - AC Power Supply - Mounting Brackets - Console Cable
Optional Accessories	<ul style="list-style-type: none"> - SFP+ Transceivers - Redundant Power Supply - StackWise Cables



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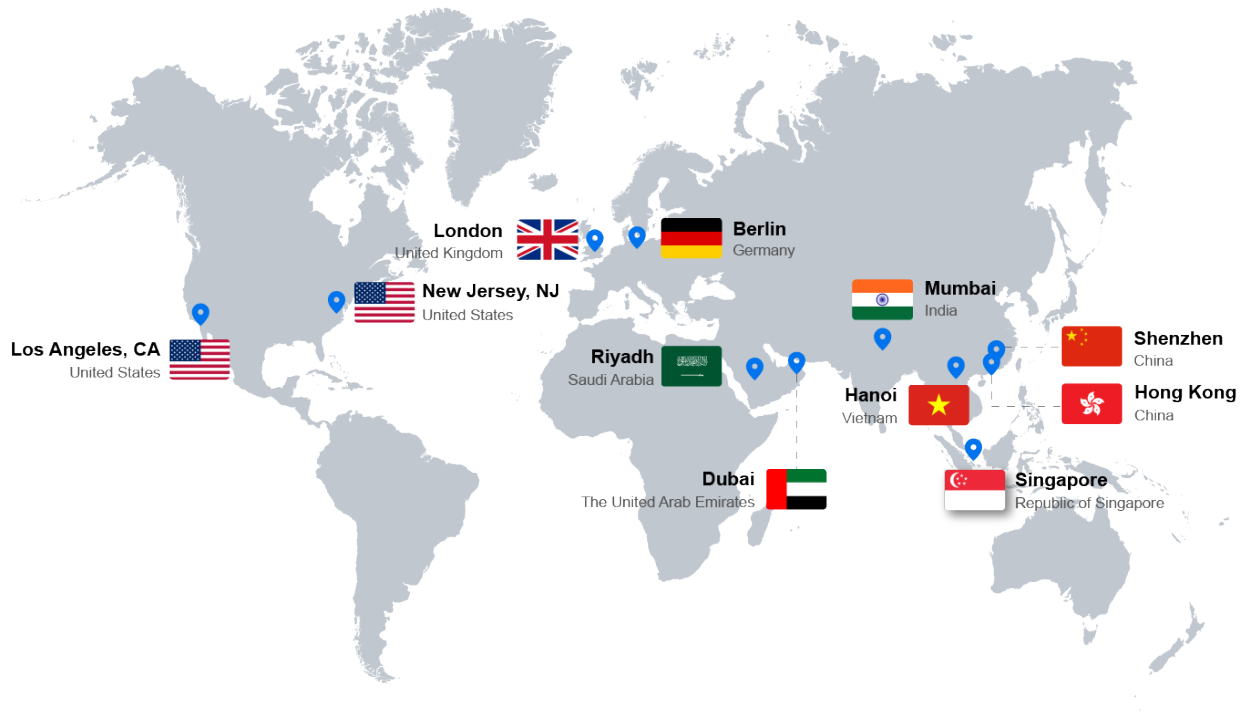
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References

[1] Cisco. (2023). 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>