



Cisco

C9300-24UX-A

Datasheet

Product Overview

- Cisco Catalyst 9300 Series switches deliver industry-leading stackable enterprise access, defining new standards in secure, agile network infrastructure.
- Ideal for hybrid workplaces, global enterprise branches, education, and healthcare networks, serving both IT teams and resellers.
- The C9300-24UX-A features 24 Multigigabit UPOE ports, 640 Gbps switching capacity, and 480 Gbps stacking bandwidth for high-performance deployment.
- Flexible uplink options, advanced StackPower, and backward-compatible stacking empower diverse installation requirements and future-proof investments.
- Cloud, on-premises or virtual management reduces deployment time and delivers unified visibility, supporting automated network policies and updates.
- Empowering organizations with scalable, secure switching, the Catalyst 9300 helps businesses grow and protect investments in next-generation connectivity.

Product Highlights

- **High-Speed Multigigabit Ports:** 24 Multigigabit UPOE ports support up to 10 Gbps, meeting modern bandwidth and device power demands.
- **Resilient StackPower Technology:** StackPower delivers power redundancy across switches, ensuring uninterrupted operation in critical environments.
- **Flexible Uplink Choices:** Modular uplink design enables 1G, 10G, 25G, 40G, or 100G connectivity for scalable network expansion.
- **Unified Cloud and On-Premises Management:** Cisco's management platform supports seamless local or centralized device monitoring and control.

Detailed Features



C9300-24UX-A

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Component	Specification
Multigigabit Ports	24 × Cisco UPOE (100 Mbps/1/2.5/5/10 Gbps)
Switching Capacity	640 Gbps
PoE Power Budget	490W
Stacking Bandwidth	480 Gbps
MAC Address Table	32,000 entries



Advanced Multigigabit Access

The C9300-24UX-A provides 24 Multigigabit Cisco UPOE ports, supporting 100 Mbps to 10 Gbps per port. This enables maximum flexibility for powering and connecting access points, workstations, and IoT devices on a single platform. Seamless delivery of high-speed services is ensured even as network traffic grows.

Industry-Leading Stacking Technology

Equipped with StackWise-480, this switch allows up to eight units to operate as a single logical switch, yielding exceptional scalability and operational simplicity. The stacking bandwidth reaches 480 Gbps, supporting redundant links and simplified management for campus or branch deployments.

Comprehensive Layer 3 Capabilities

The C9300-24UX-A supports 32,000 IPv4 and 16,000 IPv6 routing entries, advanced multicast, and group-based policies. These features deliver robust routing and security flexibility, enabling seamless traffic management across rapidly evolving enterprise networks.

Reliable Power Infrastructure

With StackPower technology, power capacity is shared and balanced among multiple switches. Combined with a standard 1100W AC supply and a 490W PoE budget, the C9300-24UX-A ensures high power availability for connected devices, minimizing downtime.

Rich Uplink Flexibility

The modular uplink architecture allows deployment of 1G/10G/25G/40G/100G uplinks, adapting to diverse backbone requirements and future network upgrades. This enhances infrastructure scalability and future-proofs the network.

Enhanced Management and Security

Supporting unified cloud and local management, the device integrates with Cisco DNA, Meraki, and traditional CLI. Embedded security features, such as IPsec hardware encryption and secure tunnel support, strengthen end-to-end protection for hybrid environments.

Optimized Application Support

With support for Intel QuickAssist Technology, 8GB DRAM, and 16GB flash, the switch is poised for demanding application hosting. Enhanced RAM and CPU resources enable advanced analytics, application integration, and reliable virtualization.

Long-Term Investment Protection

Backward compatibility of redundant fans, power supplies, and StackPower cables ensures seamless upgrades. ROHS compliance and recognized international safety and emission certifications reduce compliance risk and extend product lifecycle value.

Technical Specifications

Product Specifications

Feature	Value
Product Description	Catalyst 9300 24-port Multigigabit Ethernet and UPOE, Network Advantage
Total Multigigabit copper ports	24 Multigigabit Cisco UPOE (100 Mbps or 1, 2.5, 5, or 10 Gbps)
Default AC power supply	1100W AC
Available PoE power	490W
Cisco StackWise-480	Yes
Cisco StackPower	Yes
Default power supply	PWR-C1-1100WAC
Switching capacity	640 Gbps on 24-port Multigigabit Ethernet model
Stacking bandwidth	480 Gbps
Total number of MAC addresses	32,000



Feature	Value
Total number of IPv4 routes	32,000 (24,000 direct routes and 8,000 indirect routes)
IPv4 routing entries	32,000
IPv6 routing entries	16,000
Multicast routing scale	8,000
QoS scale entries	5,120
ACL scale entries	5,120
Packet buffer per SKU	32 MB buffer for 24-port Multigigabit
FNF entries	128,000 flows on 24-port Multigigabit
DRAM	8 GB
Flash	16 GB
VLAN IDs	4,000
Total Switched Virtual Interfaces (SVIs)	2,000
Jumbo frames	9,198 bytes
Total routed ports per 9300 Series stack	208
Wireless bandwidth per switch	Up to 48 Gbps on 24-port Gigabit Ethernet model
Forwarding rate	154.76 Mpps
Dimensions (H x W x D)	1.73 x 17.5 x 17.5 inches
Mean time between failures (hours)	299,000
Safety certifications	UL 60950-1, CAN/CSA-C222.2 No. 60950-1, EN 60950-1, IEC 60950-1, AS/NZS 60950.1, IEEE 802.3
Electromagnetic emissions certifications	47 CFR Part 15, CISPR22 Class A, EN 300 386 V1.6.1, EN 55022 Class A, EN 55032 Class A, CISPR 32 Class A, EN61000-3-2, EN61000-3-3, ICES-003 Class A, TCVN 7189 Class A, V-3 Class A, CISPR24, EN 300 386, EN55024, TCVN 7317
Environmental	Reduction of Hazardous Substances (ROHS) 5

Product Comparison

Feature	C9300-24UX-A	C9300-48UXM-A	C9300-48H-A=
Port Count	24 Multigigabit UPOE	48 Multigigabit UPOE	48 Hybrid UPOE
Switching Capacity	640 Gbps	960 Gbps	440 Gbps



Feature	C9300-24UX-A	C9300-48UXM-A	C9300-48H-A=
PoE Budget	490W	830W	740W
Stacking Bandwidth	480 Gbps	480 Gbps	480 Gbps
Uplink Options	Modular 1/10/25/40/100G	Modular 1/10/25/40/100G	Modular 1/10/25/40G
Layer 3 Routing Entries	32,000	32,000	32,000
Management	Cloud/On-Prem/CLI	Cloud/On-Prem/CLI	Cloud/On-Prem/CLI
Dimensions	1.73 x 17.5 x 17.5 in	1.73 x 17.5 x 17.5 in	1.73 x 17.5 x 17.5 in

Accessories

Category	Accessories
Included Accessories	- Power Adapter - Rack Mount Kit - Console Cable
Optional Accessories	- SFP/SFP+ Transceiver - Redundant Power Supply



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References

[1] Cisco. (2023). 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>