



# Cisco

# C9300-24U-A

# Datasheet



## Product Overview

- Cisco Catalyst 9300 Series is the flagship stackable enterprise switching solution, part of the innovative Catalyst 9000 family.
- This switch is ideal for businesses adapting to hybrid work, offering flexibility for offices, education environments, and distributed workforces.
- Three standout hardware features: up to 1TB stacking bandwidth, 24 UPOE ports, and flexible 1G/10G/40G/100G uplink module options.
- Unique differentiators include industry-leading StackWise stacking, backward-compatible StackPower, and built-in ThousandEyes monitoring.
- Enjoy full cloud, on-premises, or hybrid management with Cisco DNA and Meraki dashboard integration for streamlined operations.
- The C9300-24U-A delivers robust security, flexible management, and future-ready connectivity for business network transformation.

## Product Highlights

- **Software-Defined Access Foundation:** Cisco C9300-24U-A is built with SD-Access, enabling automation, segmentation, and unified management from edge to cloud.
- **Flexible Software Licensing:** Cisco Catalyst, DNA, and Meraki software subscriptions offer simple license management, smooth upgrades, and investment protection.
- **Unified Wired & Wireless Management:** Converged switching for wired and wireless, with easy centralized management and group policy automation.
- **End-to-End Network Visibility:** Gain deep visibility and assurance through ThousandEyes and integrated analytics for proactive network health monitoring.

## Detailed Features



### C9300-24U-A

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Component	Specification
Switching Capacity	208 Gbps
PoE Output	830W, 24 Cisco UPOE ports
Stacking Bandwidth	480 Gbps, StackWise-480
Layer 3 Routing	32,000 IPv4, 16,000 IPv6 routes
Management	Cloud/On-Prem/Virtual via Cisco DNA/Meraki



## Extreme Performance Stacking

The C9300-24U-A supports StackWise technology, delivering up to 480 Gbps stacking bandwidth and up to eight units in one stack. This architecture ensures simplified scalability, high bandwidth, and flexible redundancy, supporting growing network demands in enterprise and campus environments.

## Robust High-Density PoE+ and UPOE

Featuring 24 UPOE ports with up to 830W available PoE output, the switch powers a wide range of devices such as IP phones, wireless APs, and security cameras. It meets both IT and OT requirements, bringing robust power delivery and flexibility for all-enabled workplace networks.

## Comprehensive Routing and Policy Control

Supports advanced layer 3 routing, including IPv4/IPv6, with up to 32,000 routes and 8,000 multicast groups. The switch facilitates network segmentation, virtualization, and group-based policies, increasing traffic control and network security for distributed organizations.

## Application-Ready Modular Uplinks

The switch's modular design provides uplink options up to 100G, supporting a mix of 1G/10G/25G/40G/100G interfaces. Enhanced by Cisco UADP ASICs, this allows direct support for application hosting, network analytics, and evolving edge and cloud connectivity requirements.

## Unified Network Management

Cisco DNA Center and Meraki dashboard enable any-scale management, automation, and troubleshooting. The unified platform centralizes policy control, automates deployment, and supports on-premises, virtual, or cloud operation, reducing management complexity for all business types.

## Enhanced Security and Resilience

Integrated security includes support for 100G IPsec at line rate, AES-256 encryption, and secure tunnel creation. With StackPower technology for power redundancy and hot-swappable modules, the switch guarantees safe, always-on network access for mission-critical services.

## Advanced Analytics and Visibility

Cisco ThousandEyes support unlocks path tracking, cloud application health, and real-time analytics. Endpoints and applications are monitored from branch to data center, improving user experience and enabling proactive response to issues before service is affected.

## Future-Proof Investment Protection

Modular fans, redundant power supplies, and backward-compatible cables guarantee extended lifecycle value. Coupled with flexible and portable software licenses, this switch assures your investment is protected as your network and technology evolve.

# Technical Specifications

## Product Specifications

Feature	Value
Product Description	Catalyst 9300 24-port UPOE, Network Advantage
Total 10/100/1000 or Multigigabit copper ports	24 Cisco UPOE
Default AC power supply	1100W AC
Available PoE power	830W
Cisco StackWise-480	Yes
Cisco StackPower	Yes
Default power supply	PWR-C1-1100WAC-P/2
Switching capacity	208 Gbps on 24-port Gigabit Ethernet model
Stacking bandwidth	480 Gbps
Total number of MAC addresses	32,000
Total number of IPv4/IPv6 routes	32,000 (IPv4), 16,000 (IPv6)
Multicast routing scale	8000



Feature	Value
QoS scale entries	5120
ACL scale entries	5120
Packet buffer per SKU	16 MB buffer for 24- or 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	4000
Total Switched Virtual Interfaces (SVIs)	2000
Jumbo frames	9198 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 in
Weight	16.33 pounds (7.4 kg)
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	C9300-24U-A	C9200L-24P-4X-E	C9300L-24T-4X-E
Fixed Ports	24 × 10/100/1000Base-T UPOE	24 × 10/100/1000Base-T PoE+	24 × 10/100/1000Base-T
Switching Capacity	208 Gbps	104 Gbps	104 Gbps
Available PoE Power	830W (UPOE)	370W (PoE+)	None



Feature	C9300-24U-A	C9200L-24P-4X-E	C9300L-24T-4X-E
Stacking Bandwidth	480 Gbps	80 Gbps	80 Gbps
Layer 3 Routing	Advanced (32K IPv4, 16K IPv6 routes)	Basic	Basic
Management Interface	Cisco DNA Center/Meraki/CLI	Cisco DNA Center/CLI	Cisco DNA Center/CLI
Power Redundancy	StackPower/Redundant PSU	Redundant PSU Supported	Redundant PSU Supported
Cloud Management	Full Meraki support	Limited	Limited

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- 1100W AC Power Supply</li> <li>- Mounting Kit</li> <li>- Console Cable</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- SFP/SFP+ Transceivers</li> <li>- Redundant Power Supply</li> <li>- StackPower Cable</li> </ul>



## Support & Warranty



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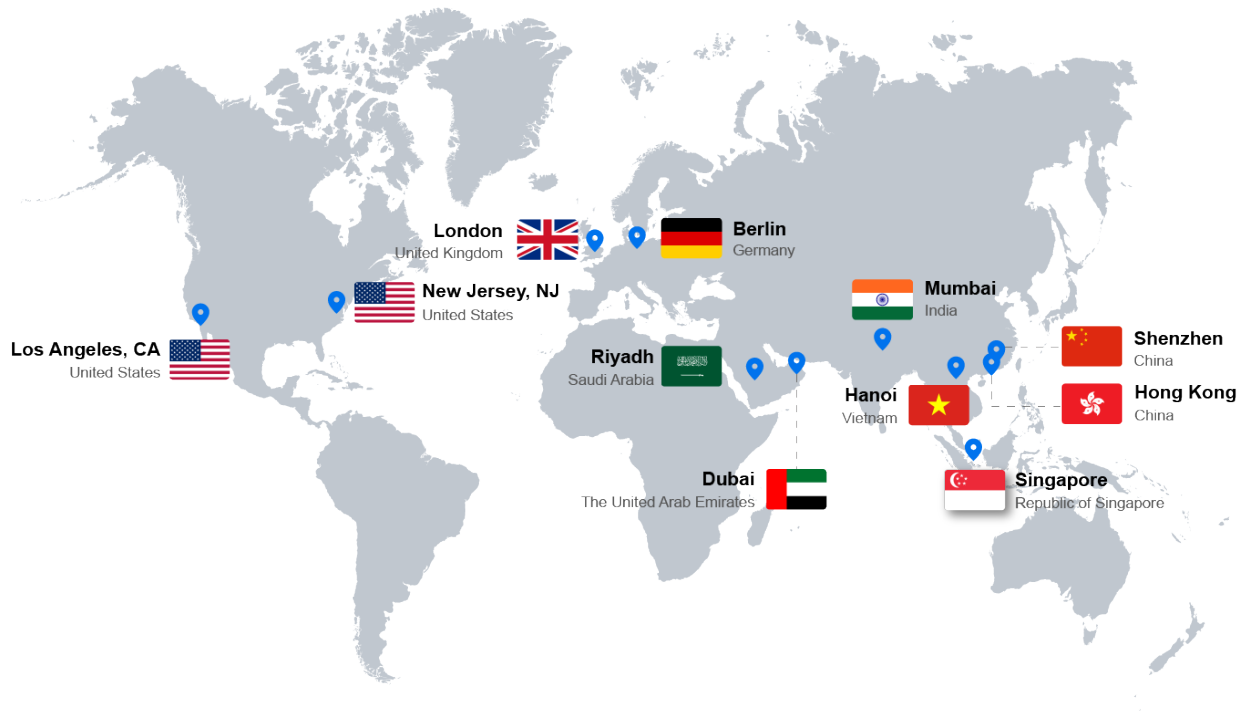
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## References

[1] Cisco Systems. (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-cat9304-ser-data-sheet-cte-en.html>