



# Cisco

# C9300-24UB-A

# Datasheet



## Product Overview

- The Cisco Catalyst 9300 Series is Cisco's premier stackable enterprise switch line, designed for high-performance access layer networking.
- Ideal for modern workplaces, hybrid offices, education, and growing enterprises needing scalable, secure connectivity.
- The C9300-24UB-A delivers up to 24 Cisco UPOE ports, 480 Gbps stacking bandwidth, and modular uplink flexibility.
- It features advanced stacking, StackPower redundancy, and robust IPsec in hardware for secure, high-speed site connectivity.
- Manage on-prem, virtually, or in the cloud with Cisco DNA and Meraki integration, streamlining deployment and operations.
- With reliable scalability, security, and ease of management, it suits dynamic enterprises seeking future-ready networks.

## Product Highlights

- **Software-Defined Access Foundation:** Enables secure, agile deployment with SD-Access for unified wired and wireless management.
- **Flexible Licensing and Investment Protection:** Cisco Catalyst, DNA, and Meraki subscriptions allow for smooth software updates and license portability.
- **End-to-End Network Visibility:** Gain comprehensive insights with Cisco Spaces and ThousandEyes for proactive network assurance.
- **Seamless Cloud and On-Prem Management:** Choose your management model and benefit from robust security, automation, and policy controls.

## Detailed Features



### C9300-24UB-A

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Component	Specification
Switching Capacity	208 Gbps
PoE Support	24 x Cisco UPOE ports
Stacking Bandwidth	480 Gbps
Uplink Options	Modular uplinks supported
Default Power Supply	1100W AC



## High-Density UPOE Ports

The C9300-24UB-A offers 24 Cisco Universal Power Over Ethernet (UPOE) ports, supporting advanced endpoints such as next-generation wireless access points, high-performance IP phones, and building automation devices. UPOE delivers up to 60W per port, ensuring sufficient power for diverse PoE requirements, which simplifies cabling and optimizes infrastructure investment.

## Advanced Stacking and Power Resilience

Featuring StackWise-480 technology, the switch achieves a stacking bandwidth of up to 480 Gbps and supports StackPower for dynamic power sharing and redundancy. StackPower enables unified management of power resources across the stack and supports mixed stacking, ensuring the C9300-24UB-A can flexibly expand as organizational requirements evolve without compromising reliability or uptime.

## Flexible Modular Uplinks

This model incorporates modular uplink slots, supporting a versatile range of network expansion modules, including 1G, 10G, 25G, and even 40G/100G options. This modularity enables future-proof connectivity investments, simplifies migrations, and allows network administrators to tailor uplink speeds to specific workloads or evolving campus network designs without forklift upgrades.

## Integrated Advanced Security

With built-in hardware support for 100G line-rate IPsec encryption and a UADP ASIC architecture, the switch delivers uncompromised data privacy and stateful traffic inspection. Enterprise-grade security features, such as secure tunnel connectivity, AES-256 encryption, and adaptive firewall hosting, ensure secure application access and compliance in distributed and cloud-connected environments.

## Superior Application Hosting Capabilities

The C9300-24UB-A is optimized for embedded application hosting using Intel QAT and large memory resources, supporting deployment of advanced tools like Cisco ThousandEyes and DNA Assurance. Multiple third-party and Cisco-signed applications can be hosted natively, enabling local analytics, monitoring, and rapid response to performance anomalies without impacting switching throughput.

## Unified SD-Access and Virtualization

Native software-defined access is enabled via policy-based automation, context-based analytics, and unified management of both wired and wireless domains. This empowers seamless user segmentation, dynamic group policies, and consistent security enforcement across campus, branch, and cloud boundaries for simplified operational workflows and better resource utilization.

## Seamless Update and Lifecycle Management

With flexible subscription licensing for Cisco Catalyst, DNA, and Meraki software, network admins benefit from simple purchasing, management, and asset portability. Access to feature upgrades, technology advancements, and software support ensures the network infrastructure remains on the cutting edge, with predictable budgeting and lifecycle protection.

## Global Compliance and Robust Hardware Design

Compliant with global safety, electromagnetic emission, and environmental standards, the switch meets rigorous requirements for enterprise, education, and public sector deployments worldwide. Field-replaceable units, extensive protocol support, and high durability (MTBF >350,000 hours) ensure dependable service continuity and easier maintenance in mission-critical settings.

## Technical Specifications

### Product Specifications

Feature	Value
Product Description	Catalyst Deep Buffer 9300 24-port UPOE, Network Advantage
FRU Power Supply	Yes
FRU Fans	Yes
Modular Uplinks	Yes
Stacking Bandwidth Support	480 Gbps
Cisco StackPower	Yes



Feature	Value
Catalyst 9800 Embedded WLC	Yes (200 APs)
SD-Access Support	Yes (256 Virtual Networks)
Total 10/100/1000, Multigigabit copper or SFP Fiber	24 Cisco UPOE
Uplink Configuration	Modular Uplinks
Default AC Power Supply	1100W AC
Available PoE Power	830W
Total Number of MAC Addresses	64,000
Total Number of IPv4 Routes (ARP plus Learned Routes)	64,000
IPv6 Routing Entries	32,000
Multicast Routing Scale	16,000
QoS Scale Entries	18,000
ACL Scale Entries	18,000
Packet Buffer per SKU	32 MB buffer for 24- and 48-port Gigabit Ethernet models, 64 MB buffer for 24-port Multigigabit model (24UXB)
FNF Entries	128,000 flow on 24- and 48-port Gigabit Ethernet models, 256,000 flows on 24-port Multigigabit
DRAM	8 GB
Flash	16 GB
VLAN IDs	4094
Total Switched Virtual Interfaces (SVIs)	1000
Jumbo Frames	9198 bytes
Total Routed Ports per Catalyst 9300 Series Stack	448
Switching Capacity	208 Gbps
Switching Capacity with Stacking	688 Gbps
Forwarding Rate	154.76 Mpps
Forwarding Rate with Stacking	511.90 Mpps
Dimensions (H x W x D) inches	Chassis Only: 1.73 x 17.5 x 16.1, W/ Default Power Supply: 1.73 x 17.5 x 19.2, W/ 1100W Power Supply: 1.73 x 17.5 x 19.2
Mean Time Between Failures—MTBF (hours)	354,300



Feature	Value
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. 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.
Connectors and Cabling	1000BASE-T ports: RJ-45 connectors, 4-pair Cat 5E UTP cabling; Multigigabit-T ports: RJ-45 connectors, 4-pair Cat 5E, Cat 6, Cat 6A UTP cabling; 1000BASE-T SFP-based ports: RJ-45 connectors, 4-pair Cat 5E UTP cabling; SFP transceivers: LC fiber connectors (single-mode or multimode fiber); SFP+ transceivers: LC fiber connectors (single-mode or multimode fiber); QSFP+ transceivers: MPO and LC fiber connectors (single-mode or multimode fiber); Cisco StackWise stacking ports: copper-based Cisco StackWise cabling; Cisco StackPower: Cisco proprietary power stacking cables; Ethernet management port: RJ-45 connectors, 4-pair Cat 5 UTP cabling; Management console port: RJ-45-to-DB9 cable for PC connections
Power Connectors	Customers can provide power to a switch by using the internal power at the back of the switch. Internal power supply connector: The internal power supply is an auto-ranging unit. It supports input voltages between 100 (115 for 1100WAC) and 240 VAC. Use the supplied AC power cord to connect the AC power connector to an AC power outlet
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; V-2/2015.04; V-3/2015.04; CNS13438; KN32; KN35; IEC 61000-6-1; EN 61000-6-1; Additional Certifications for C9300L SKUs: QCVN 118:2018/ BTTTT; CISPR24/25; CISPR 32 Class A; VCCI-CISPR 32 Class A; EN55035
Environmental	Reduction of Hazardous Substances (ROHS) 5

## Product Comparison

Feature	C9300-24UB-A	C9300-48UB-A	C9500-24Q-A
Fixed Ports	24 x Cisco UPOE	48 x Cisco UPOE	24 x 40G QSFP+
Modular Uplink Support	Yes	Yes	No (fixed)
Stacking Bandwidth	480 Gbps	480 Gbps	960 Gbps



Feature	C9300-24UB-A	C9300-48UB-A	C9500-24Q-A
PoE Power	830W	1,440W	N/A
Switching Capacity	208 Gbps	376 Gbps	960 Gbps
SD-Access Support	Yes (256 Virtual Networks)	Yes	Yes
Application Hosting	Supported	Supported	Not available
Typical Use	Access Layer, campus/branch	High-density access, campus	Core/aggregation, high-speed backbone

## 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>- Modular Uplink Module</li> <li>- SFP/SFP+ Transceivers</li> <li>- Redundant Power Supply</li> </ul>



## Support & Warranty



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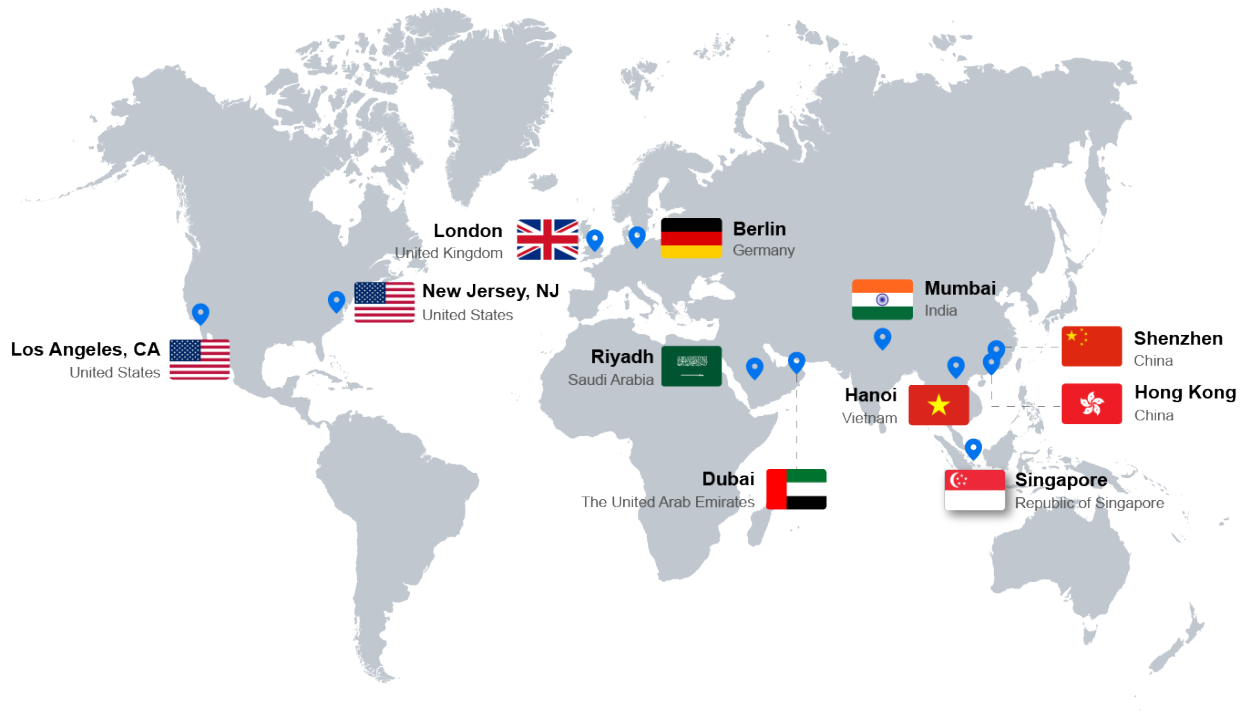
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## Global Branches

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### Shenzhen Branch

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### UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK



## 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-cat9305-ser-data-sheet-cte-en.html>