



Cisco C9300-24U-E Datasheet



Product Overview

- Cisco Catalyst 9300 Series is Cisco's flagship stackable enterprise switch platform, engineered for modern campus networks.
- Built for organizations of all sizes, it fits fast-growing businesses, distributed offices, and hybrid work environments.
- The C9300-24U-E delivers up to 208 Gbps switching, 24x Cisco UPOE 10/100/1000 ports, and robust hardware redundancy.
- Advanced features include StackWise-480 stacking, StackPower, and flexible uplink modules enabling network growth.
- Cloud-enabled management, SD-Access support, and strong security tools simplify deployment and policy application.
- Empowering network teams, the C9300-24U-E offers reliable, secure, and scalable connectivity for today's enterprise needs.

Product Highlights

- **High Performance Switching:** 208 Gbps switching capacity ensures seamless network traffic even in high-demand environments.
- **Industry-Leading UPOE:** 24 ports support Cisco UPOE for powering a wide range of endpoint devices directly from the switch.
- **Resilient StackWise-480:** Enables stackable deployment, simplifying expansion and delivering up to 480 Gbps stacking bandwidth.
- **Flexible Management Options:** Supports on-premises, virtual, or cloud-based management to fit diverse IT infrastructure models.

Detailed Features



C9300-24U-E

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Component	Specification
Switching Capacity	208 Gbps
Port Count	24 × 10/100/1000 Cisco UPOE ports
PoE Power Budget	830W
Stacking Bandwidth	480 Gbps
Default Power Supply	1100W AC



Enterprise-Class Performance

Powered by Cisco UADP ASIC, the C9300-24U-E offers 208 Gbps switching capacity and 154.76 Mpps forwarding rate. This ensures fast data transfers, low latency, and high network availability, supporting bandwidth-intensive applications and growing device densities.

Advanced PoE Support

With 24 UPOE ports and 830W available PoE power, it supplies energy to access points, surveillance, and collaboration devices. The flexible UPOE capability supports rapid endpoint scaling and reduces the need for separate power infrastructure.

Seamless Network Scalability

Integrated StackWise-480 enables stacking of up to eight units with 480 Gbps backplane bandwidth. This design simplifies network expansion, offers unified management, and strengthens redundancy for mission-critical campus deployments.

Robust IPv4/IPv6 Routing

Supports 32,000 IPv4 routes, 16,000 IPv6 routes, and advanced multicast capabilities. This routing power makes the switch ready for complex environments and smooth migration to dual-stack networks supporting future network standards.

Layered Network Security

The Catalyst 9300-24U-E integrates group-based security, role-based access control, MACsec, and Cisco Trustworthy Solutions. It aids enterprises in protecting user access, meeting compliance, and defending against persistent threats at the network edge.

SD-Access and Virtualization

Supports Cisco's Software-Defined Access for automated provisioning, unified wired/wireless management, and network virtualization. This enables IT to rapidly deploy secure, segmented user experiences across campuses.

Flexible Software Licensing

Offers Cisco DNA and Catalyst software subscriptions for flexible lifecycle management. Customers benefit from investment protection, smooth license mobility, and access to analytics, cloud integrations, and ongoing software innovation.

Operational Reliability

Designed for long life with dual redundant fans, replaceable power units, 299,000 hour MTBF, and environmental certifications. Meets rigorous standards needed for business continuity in Asia, Europe, North America, or Africa.

Technical Specifications

Product Specifications

Feature	Value
Product Description	Catalyst 9300 24-port UPOE, Network Essentials
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
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 Routes	32,000 (24,000 direct routes and 8,000 indirect routes)
IPv6 Routing Entries	16,000



Feature	Value
Multicast Routing Scale	8,000
QoS Scale Entries	5,120
ACL Scale Entries	5,120
Packet Buffer per SKU	16 MB buffer for 24- or 48-port Gigabit Ethernet models
FNF Entries	64,000 flows on 24- and 48-port Gigabit Ethernet models
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 in
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-E	C9300-48U-E	C9500-48X-E
Fixed Ports	24 × 10/100/1000 Cisco UPOE	48 × 10/100/1000 Cisco UPOE	48 × 1/10G SFP+
Switching Capacity	208 Gbps	256 Gbps	1760 Gbps
PoE Power Budget	830W	1680W	N/A



Feature	C9300-24U-E	C9300-48U-E	C9500-48X-E
Stacking Bandwidth	480 Gbps	480 Gbps	480 Gbps (StackWise-480)
Default Power Supply	1100W AC	1100W AC	1100W AC
IPv4 Routing Entries	32,000	32,000	64,000
Management	On-prem/cloud, DNA, SD-Access	On-prem/cloud, DNA, SD-Access	On-prem/cloud; advanced L3 and fabric
Hot Swappable Fans/PSU	Yes	Yes	Yes

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power Adapter - Mounting Bracket - Quick Installation Guide
Optional Accessories	<ul style="list-style-type: none"> - SFP Transceiver - StackWise Cable - Redundant Power Supply



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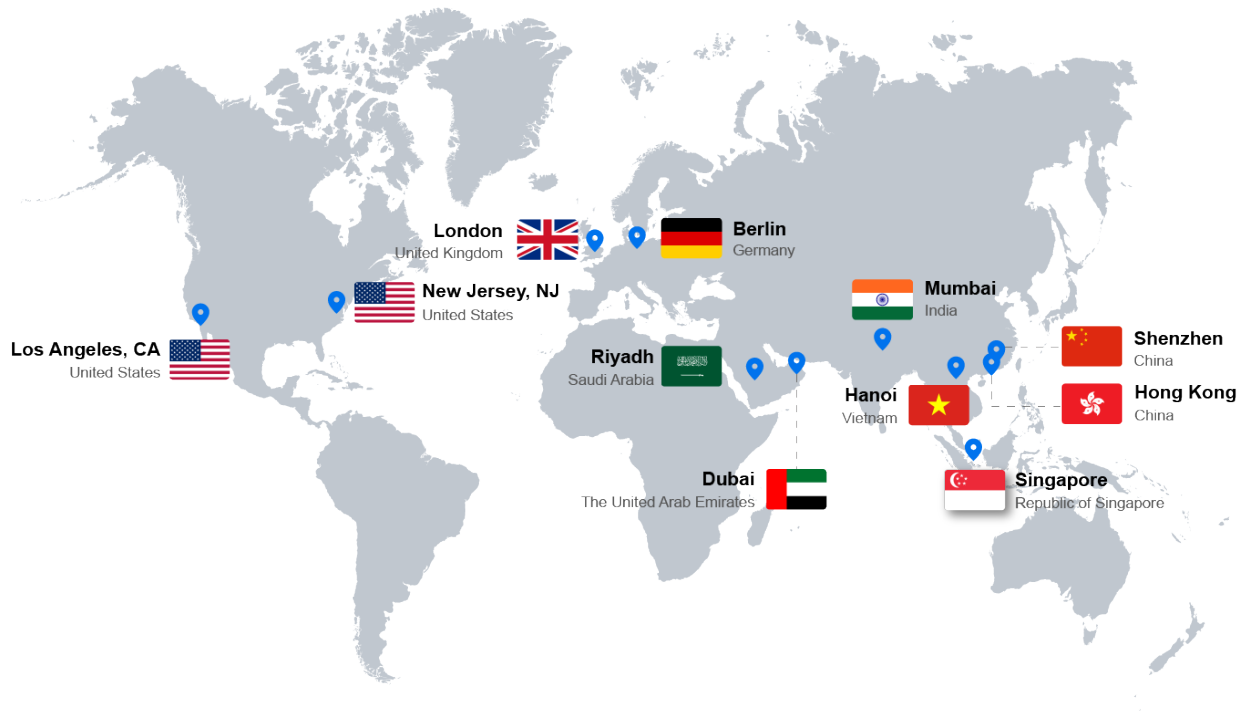
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References

[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>