



Cisco

C9300-24UX-E

Datasheet

Product Overview

- Cisco Catalyst 9300 Series is Cisco’s flagship stackable enterprise access switching line, engineered for the Catalyst 9000 family.
- Ideal for enterprises, SMEs, and campus networks aiming for secure, scalable network transformation in hybrid work environments.
- Delivers 24 Multigigabit Cisco UPOE ports, up to 640 Gbps switching capacity, and supports Cisco StackWise and StackPower for resilient stacking.
- Features highest-density stacking, flexible 100G/40G/25G uplinks, and full backward stacking with earlier Catalyst models.
- Supports both cloud and on-premises management for easy deployment and centralized device monitoring.
- Enables seamless reliable campus/enterprise core connectivity, boosting workplace productivity and robust security for distributed teams.

Product Highlights

- **High-Capacity Multigigabit Access:** 24 Multigigabit Cisco UPOE ports deliver up to 10 Gbps per port for flexible wired device connectivity.
- **Advanced Stacking Resiliency:** Cisco StackWise-480 and StackPower ensure seamless stack management and power redundancy.
- **Powerful Security Integration:** Supports hardware-accelerated 100G IPsec and secure tunnel connections for safe data flow.
- **Flexible Deployment & Management:** Cloud, virtual, and on-premises management options adapt to various enterprise IT needs.

Detailed Features



C9300-24UX-E

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Component	Specification
Ports	24 Multigigabit Cisco UPOE (100 Mbps/1/2.5/5/10 Gbps)
Switching Capacity	640 Gbps
PoE Power	490W available
Stacking Technology	Cisco StackWise-480, StackPower
Default Power Supply	1100W AC



High-Density Multigigabit Access

C9300-24UX-E offers 24 Multigigabit Cisco UPOE ports supporting 100 Mbps to 10 Gbps, enabling power and high-speed data for Wi-Fi 6/6E APs, digital signage, and IoT devices. This flexibility supports intensive device deployments and future-proofs access layers for evolving business needs.

Resilient Power and StackWise Technology

With both Cisco StackWise-480 for stacking up to 8 switches and StackPower for sharing power resources, enterprises gain hardware-level redundancy, higher availability, and operational simplicity. This design greatly reduces downtime and ensures network continuity.

Comprehensive Layer 3 and Segmentation

Extensive IPv4/IPv6 routing tables (32,000/16,000 entries), multicast support, and advanced segmentation features deliver robust traffic management. These capabilities allow granular network isolation, optimal resource utilization, and improved user experience in complex enterprise environments.

Enterprise-Class Security Integration

The model supports 100G line-rate IPsec tunnels, unified threat analytics, and built-in AES-256 encryption. Combined with compatibility for Cisco DNA and Meraki security solutions, it enables secure access to cloud and on-premises applications with advanced defense against threats.

Flexible Cloud-Ready Management

Choose between on-premises, cloud-based (Meraki dashboard), or hybrid deployment options. Centralized management reduces operational complexity, offers real-time device and application visibility, and streamlines firmware updates for seamless IT operations.

Optimized Application Hosting

With powerful hardware, advanced ASICs, and Intel QAT, the switch hosts secure network applications (like ThousandEyes monitoring) directly on the device. This enables deep telemetry, analytics, and service assurance without added appliances.

Efficient Network Automation

Software-Defined Access (SD-Access) delivers automated provisioning, policy-based segmentation, and context-aware analytics throughout the campus. IT teams benefit from reduced configuration workload and consistent policy enforcement edge-to-cloud.

Investment Protection and Compatibility

Redundant fans, power supplies, data stacks, and StackPower cables are backward-compatible with previous Catalyst 9300 models, safeguarding prior investments while supporting future network expansion and upgrades.

Technical Specifications

Product Specifications

Feature	Value
Product Description	Catalyst 9300 24-port Multigigabit Ethernet and UPOE, Network Essentials
Total Copper Ports	10/100/1000 or Multigigabit
Multigigabit Cisco UPOE 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 Model	PWR-C1-1100WAC
Switching Capacity	640 Gbps on 24-port Multigigabit Ethernet model
Stacking Bandwidth	480 Gbps
MAC Address Table Size	32,000



Feature	Value
IPv4 Routing Capacity	32,000 routes (24,000 direct, 8000 indirect)
IPv4 Routing Entries	32,000
IPv6 Routing Entries	16,000
Multicast Routing Scale	8000
QoS Scale Entries	5120
ACL Scale Entries	5120
Packet Buffer Size	32 MB buffer for 24-port Multigigabit
FNF Entries	128,000 flows on 24-port Multigigabit
DRAM	8 GB
Flash Storage	16 GB
VLAN IDs	4000
Total Switched Virtual Interfaces (SVIs)	2000
Jumbo Frames	9198 bytes
Total Routed Ports per 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
MTBF	299,000 hours
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
EMC 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-E	C9300-48S-E	C9300-24UXB-A
Fixed Ports	24 Multigigabit Cisco UPOE	48 x 1G SFP	24 Multigigabit Cisco UPOE
Switching Capacity	640 Gbps	376 Gbps	640 Gbps
PoE Power	490W available	Not supported	490W available



Feature	C9300-24UX-E	C9300-48S-E	C9300-24UXB-A
Stacking Bandwidth	480 Gbps	480 Gbps	480 Gbps
Layer 3 Routing	Yes, advanced	Yes, advanced	Yes, advanced
Management	Cloud, virtual, or on-premises	Cloud, virtual, or on-premises	Cloud, virtual, or on-premises
Redundant Power	Supported	Supported	Supported
Dimensions (H x W x D)	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
Application	Multigig access with PoE	Full fiber access	Multigig access with advanced licensing
Certification	Full global	Full global	Full global

Accessories

Category	Accessories
Included Accessories	- AC Power Adapter - Rack Mount Kit - Console Cable
Optional Accessories	- SFP/SFP+ Transceiver Modules - Redundant Power Supply - StackWise-480 Cable



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References

[1] Cisco Systems. (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>