



Cisco

C9300-24P-A

Datasheet

Product Overview

- Cisco Catalyst 9300 Series is Cisco’s flagship stackable enterprise access switch, leading the Catalyst 9000 family for modern networks.
- Ideal for enterprises and organizations adapting to hybrid workplaces, it meets connectivity needs in offices, educational sites, and distributed branches.
- Key performance specs include up to 1TB stacking bandwidth, advanced StackWise technology, and extensive multi-gigabit port capacity.
- Unique features include high UPOE+ PoE density, flexible modular uplink options supporting up to 100G, and full StackPower power sharing.
- Enjoy advanced management with on-premises, virtual, or cloud-based network controls, and seamless integration with Cisco Meraki dashboard.
- Empowering businesses of any size, the Catalyst 9300 delivers secure, scalable, and easily managed networking for evolving digital demands.

Product Highlights

- **Software-Defined Access Foundation:** Enables automated, secure, and policy-based network operations with SD-Access across wired and wireless environments.
- **Unified Wired & Wireless Management:** Simplified deployment and unified control streamline IT operations and reduce manual network administration effort.
- **Flexible Licensing and Upgrades:** Offers options for cost-effective software subscriptions, license portability, and timely access to features and updates.
- **Single Policy, Centralized Management:** Manages all switching, access, and security policies from one interface, ensuring consistent protection and compliance.

Detailed Features



C9300-24P-A

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Component	Specification
Switching Capacity	208 Gbps
PoE+ Ports	24
Power Supply	715W AC
Available PoE Power	445W
Stacking Bandwidth	480 Gbps



Industry-Leading Stacking Technology

Cisco StackWise-480 enables high-density stacking, supporting up to 480 Gbps of bandwidth for uninterrupted operations and easy scalability. This simplifies network expansion and delivers seamless administrative control.

High-Density PoE and UPOE+ Capabilities

With up to 24 PoE+ ports and support for Cisco UPOE+, the C9300-24P-A efficiently powers devices like APs, cameras, and phones, supporting dense device environments and lowering infrastructure costs.

Comprehensive Layer 2/3 Services

The switch supports robust Layer 2 and Layer 3 routing, including 32,000 IPv4/16,000 IPv6 entries, multicast features, and advanced QoS, ensuring intelligent traffic handling in complex topologies.

Flexible Modular Uplink Options

Users benefit from modular uplinks supporting 1G/10G/25G/40G/100G, delivering high bandwidth and flexible connectivity for future-ready network scaling and investment protection.

Power Resilience with StackPower

StackPower technology provides energy pooling across switches, allowing dynamic supply sharing and resiliency. Downtime is minimized and overall system reliability is improved for mission-critical environments.

Rich Network Visibility & Analytics

Built-in support for Cisco ThousandEyes, FNF, and extensive analytics equips administrators with end-to-end path visibility, proactive troubleshooting, and enhanced user experience monitoring.

Cloud and On-Premises Management

Catalyst 9300's integration with the Cisco Meraki dashboard or traditional CLI supports different management preferences, centralized policies, and streamlined large-scale deployments.

Robust Security & Compliance Suite

Hardware-powered 100G IPsec, secure tunnel connectivity, and advanced access control lists protect users and data, ensuring compliance in regulated sectors like finance, healthcare, and government.

Technical Specifications

Product Specifications

Feature	Value
Total 10/100/1000 or Multigigabit copper ports	24 POE+
Default AC power supply	715W AC
Available PoE power	445W
Cisco StackWise-480	Yes
Cisco StackPower	Yes
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 8000 indirect routes)
IPv4 routing entries	32,000
IPv6 routing entries	16,000
Multicast routing scale	8000
QoS scale entries	5120
ACL scale entries	5120



Feature	Value
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 16.1 inches
Mean time between failures (hours)	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
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
Weight	7.4 kg

Product Comparison

Feature	C9300-24P-A	C9300-24P-E	C9300-48UB-A=
Fixed Ports	24 × 10/100/1000Base-T PoE+	24 × 10/100/1000Base-T PoE+	48 × Multigigabit (1/2.5/5/10G)
Switching Capacity	208 Gbps	208 Gbps	736 Gbps
PoE Power Budget	445W	445W	1440W
Stacking Bandwidth	480 Gbps	480 Gbps	480 Gbps



Feature	C9300-24P-A	C9300-24P-E	C9300-48UB-A=
Default AC Power Supply	715W AC	715W AC	1100W AC
Software License	Network Advantage (A)	Network Essentials (E)	Network Advantage (A)
Management Options	On-premises/Cloud	On-premises/Cloud	On-premises/Cloud
Port Density	24	24	48

Accessories

Category	Accessories
Included Accessories	- AC Power Supply - Mounting Kit - Console Cable
Optional Accessories	- SFP/SFP+ Transceivers - Redundant Power Supply - StackWise-480 Cable



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References

[1] Cisco. (2024). Catalyst 9300 Series Switches Datasheet. 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>