Cisco
C9300-48UB-E
Datasheet

Product Overview

- Cisco Catalyst 9300 Series is the flagship stackable enterprise switch line, designed for high-performance access and scalability.

- Ideally suited for modern businesses, managed service providers, and distributed enterprise, it delivers seamless connectivity for hybrid and dynamic workforces.

- Key specifications include up to 1 TB stacking bandwidth, 48 Multigigabit UPOE+ ports, and support for modular uplinks, setting industry benchmarks in performance.

- It features advanced hardware-level IPsec encryption, highest UPOE+ power density per stack, and full backward compatibility for stacking and power resiliency.

- Flexible network management gives you on-premises, cloud, or virtual control options, making deployment, monitoring, and upgrades simple and unified.

- With Catalyst 9300, organizations realize secure, agile, and scalable local or remote networking, meeting the fast-changing needs of digital workplaces and applications.

Product Highlights

- **Policy-Based Automation:** Software-Defined Access capabilities deliver end-to-end network automation and policy control, unifying wired and wireless operation.

- **Unified Lifecycle Management:** Cisco DNA, Catalyst, and Meraki subscription software make deploying, monitoring, and updating networks straightforward and futureproof.

- **Flexible Licensing Models:** Choose on-prem, virtual, or cloud-based management and get smooth software spend across lifecycle stages, lowering long-term costs.

- **Comprehensive Network Insight:** Enjoy end-to-end network visibility, advanced analytics, and integrated firewall functions for resilient multisite enterprise deployments.

Detailed Features

C9300-48UB-E

Component	Specification
Switching Capacity	256 Gbps
Forwarding Rate	190.48 Mpps
Ports	48 x Cisco UPOE
Uplink Configuration	Modular Uplinks
Available PoE Power	822W

High-Density Multigigabit Access

The C9300-48UB-E features 48 Cisco UPOE ports supporting Multigigabit speeds, delivering scalable bandwidth and powering a wide range of endpoint devices. This caters to the increasing demands of cloud, video, and IoT-enabled enterprise environments, allowing seamless integration of high-speed devices without disruption.

Industry-Leading Stacking Architecture

With support for Cisco StackWise-1T, this switch achieves up to 1 TB stacking bandwidth. This stackable solution enables simplified network expansion, delivers high throughput, and maintains operational continuity. Flexible uplinks and backward compatibility ensure investment is protected during future upgrades.

Advanced IPsec Hardware Acceleration

The switch integrates dedicated ASIC-based 100G line-rate IPsec. This enables secure VPN and encrypted site connectivity at hardware speed, addressing compliance and security requirements while maintaining performance. Large-scale deployments benefit from high-speed data protection across critical business networks.

Integrated Power Redundancy

Cisco StackPower technology allows power resources to be pooled and shared across a stack, enhancing uptime and budget efficiency. Mixed-stacking with Catalyst 9300X members maintains power resiliency and protects against failures, which is essential for mission-critical, always-on services.

Intelligent Cloud Management

Full compatibility with Cisco Meraki Dashboard means organizations can adopt centralized cloud monitoring and management. This flexibility lets users keep CLI control while scaling monitoring operations and security across distributed branches and remote sites.

Application Hosting & Analytics

Powered by Intel QAT and large memory, the switch supports advanced Cisco-signed applications on-box. Features like Cisco ThousandEyes enable deep analytics, proactive troubleshooting, and performance assurance for campus-to-cloud traffic flows.

Programmable and Automated Networks

Through SD-Access and programmable policy, the C9300-48UB-E automates provisioning, segmentation, and group-based policies. This reduces manual tasks, accelerates new service rollout, and aligns infrastructure to changing business needs in both SMB and large enterprise scenarios.

Comprehensive Security Capabilities

Features such as secure tunnel connectivity, AES-256 encryption, integrated firewall (ASAc), and context-based analytics protect user, device, and app interactions. These security controls are essential for decentralizing operations while maintaining full regulatory compliance and risk management.

Technical Specifications

Product Specifications

Feature	Value
Product Description	Catalyst 9300 48-port UPOE Deep Buffer, Network Essentials
FRU Power Supply	Yes
FRU Fans	Yes
Modular Uplinks	Yes
Stacking Bandwidth Support	480 Gbps
Cisco StackPower	Yes
Catalyst 9800 Embedded WLC	Yes (200 APs)
SD-Access Support	Yes (256 Virtual Networks)
Total 10/100/1000, Multigigabit copper or SFP Fiber	48 Cisco UPOE
Uplink Configuration	Modular Uplinks

Feature	Value
Default AC Power Supply	1100W AC
Available PoE Power	822W
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
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, 32 MB buffer for 24- and 48-port Multigigabit
FNF Entries	64,000 flow on 24- and 48-port Gigabit Ethernet models, 128,000 flows on 24-port Multigigabit
DRAM	8 GB
Flash	16 GB
VLAN IDs	4,094
Total Switched Virtual Interfaces (SVIs)	1,000
Jumbo Frames	9,198 bytes
Total Routed Ports per Catalyst 9300 Series Stack	448
Switching Capacity	256 Gbps
Switching Capacity with Stacking	736 Gbps
Forwarding Rate	190.48 Mpps
Forwarding Rate with Stacking	547.62 Mpps
Dimensions (H x W x D) Inches (Chassis Only)	1.73 x 17.5 x 16.1
Dimensions (H x W x D) Inches (With Default Power Supply)	1.73 x 17.5 x 19.2
Dimensions (H x W x D) Inches (With 1100W Power Supply)	1.73 x 17.5 x 19.2
Mean Time Between Failures (MTBF)	337,170 hours
Acoustic Noise (Measured per ISO 7779 and declared per ISO 9296)	With AC power supply (24 PoE+ ports loaded for C9300 SKUs): LpA: 45dB typical, 48dB max, LwA: 5.6B typical, 5.9B max.
Acoustic Noise (half the number of PoE+ ports loaded for C9300L SKUs)	LpA: 44dB typical, 47dB max, LwA: 5.5B typical, 5.8B max.

Feature	Value
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). QSFP+ connector. SFP+ connector. 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	C9300-48UB-E	C9300-48UN-E	C9300-48UB-A
Switching Capacity	256 Gbps	208 Gbps	256 Gbps
Ports	48 x Cisco UPOE	48 x Cisco UPOE	48 x Cisco UPOE
Uplink Configuration	Modular Uplinks	Modular Uplinks	Modular Uplinks
Stacking Bandwidth	480 Gbps	480 Gbps	480 Gbps
Available PoE Power	822W	822W	822W

Feature	C9300-48UB-E	C9300-48UN-E	C9300-48UB-A
SD-Access Support	Yes (256 Virtual Networks)	Yes (256 Virtual Networks)	Yes (256 Virtual Networks)
Default AC Power Supply	1100W AC	1100W AC	1100W AC
Management Options	On-prem, Virtual, Cloud	On-prem, Virtual, Cloud	On-prem, Virtual, Cloud
Security Features	Hardware IPsec, Advanced Firewall	Hardware IPsec	Hardware IPsec, Advanced Firewall

Accessories

Category	Accessories
Included Accessories	- Power Adapter - Rack Mount Kit - Console Cable
Optional Accessories	- SFP Module - StackWise Stack Cable - Redundant Power Supply

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References

[1] Cisco. (2023). Catalyst 9300 Series Switches Datasheet. Retrieved from https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-9300-series-switches/nb-06-cat9318-ser-data-sheet-cte-en.html