



Cisco

C9300-24UXB-E

Datasheet



Product Overview

- Cisco Catalyst 9300 Series C9300-24UXB-E stands as the flagship stackable enterprise access switch in the Catalyst 9000 portfolio.
- It is designed for modern workspaces, supporting distributed offices, remote endpoints, and cloud-hosted applications, making it ideal for growing businesses, campuses, and managed service providers.
- This model features 24 Multigigabit Cisco UPOE ports, offers stacking bandwidth up to 1TB, and supports modular uplinks with options for 100G/40G/25G/10G/1G.
- Key features include mixed stacking with backward compatibility, high UPOE+ density supporting up to 90W per port, and hardware-accelerated 100G IPsec for secure edge connectivity.
- The unit supports direct integration with Cisco Meraki for centralized cloud management and enables application hosting through Intel QAT for added network intelligence.
- With flexible deployment, advanced automation, and robust security, the C9300-24UXB-E empowers hybrid work and secure business growth across diverse environments.

Product Highlights

- **Software-Defined Access Foundation:** Delivers automated, secure, and simplified networking for Wi-Fi, IoT, and cloud environments with policy-based automation.
- **Unified Management and Segmentation:** Provides seamless control of wired/wireless networks, virtualization, segmentation, and group-based policies for diverse enterprise needs.
- **Flexible Software Licensing:** Offers Cisco Catalyst, DNA, and Meraki subscriptions for easy feature upgrades and management options via cloud or on-premises.
- **Comprehensive Network Visibility:** Includes tools like Cisco Spaces, ThousandEyes, and integrated firewall services for real-time assurance and security analytics.

Detailed Features



C9300-24UXB-E

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Component	Specification
Ports	24 Multigigabit Cisco UPOE (100M, 1G, 2.5G, 5G, or 10 Gbps)
Stacking Bandwidth	Up to 1 TB with StackWise-1T
Modular Uplinks	1G/10G/25G/40G/100G support
PoE Power	Up to 90W UPOE+ per port
Management	Cloud, on-premises, or virtual



High-Performance Switching

The C9300-24UXB-E supports up to 24 Multigigabit Cisco UPOE ports, with robust stacking bandwidth of up to 1 TB per stack using StackWise-1T. Modular uplinks provide flexible connectivity, supporting 1/10/25/40/100 Gigabit speeds for scalable enterprise growth.

Enhanced Secure Connectivity

With in-hardware 100G IPsec and support for 256-bit AES encryption, this switch enables secure tunnels to internet gateways and cloud providers. It provides end-to-end data protection, crucial for financial, healthcare, and government deployments.

Flexible Power and PoE+ Integration

The switch offers industry-leading UPOE+ density, delivering up to 90W per port for IoT endpoints and advanced devices. StackPower technology enhances power-sharing and redundancy within mixed C9300/C9300X stacks, ensuring operational continuity.

Backward Compatibility and Investment Protection

Redundant fans, power supplies, data stack, and StackPower cables are backward compatible with previous Catalyst 9300 models, protecting existing hardware investments and enabling smooth upgrades in growing infrastructures.

Integrated Wireless Controller

Catalyst 9800 embedded wireless controller enables management of up to 200 APs, providing seamless control over both wired and wireless infrastructures and supporting up to 256 virtual networks for advanced segmentation.

Application Hosting and Analytics

The device's large RAM, Intel QAT, and additional AppGig ports empower real-time application hosting and traffic analytics. Tools like ThousandEyes and integrated firewalls increase visibility, assurance, and security in dynamic networks.

Programmable SD-Access Architecture

With support for Cisco SD-Access, the switch delivers intent-based networking, policy-driven automation, network virtualization, and context-aware analytics to simplify IT operations and network segmentation.

Versatile Management Platforms

Users can manage the device via Cisco Meraki cloud dashboard, on-premises tools, or virtual platforms. This flexibility meets the diverse needs of international partners and local IT administrators, streamlining operations regardless of deployment model.

Technical Specifications

Product Specifications

Feature	Value
Product Description	Catalyst 9300 24p Deep Buff mGig, UPOE, 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	24 Multigigabit Cisco UPOE (100M, 1G, 2.5G, 5G, or 10 Gbps)
Uplink Configuration	Modular Uplinks
Default AC power supply	1100W AC



Feature	Value
Available PoE power	560W
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	640 Gbps
Switching capacity with stacking	1120 Gbps
Forwarding rate	476.19 Mpps
Forwarding rate with stacking	833.33 Mpps
Dimensions (H x W x D) (inches, Chassis only)	1.73 x 17.5 x 17.1
Dimensions (H x W x D) (inches, with Default Power Supply)	1.73 x 17.5 x 20.2
Dimensions (H x W x D) (inches, with 1100W Power Supply)	1.73 x 17.5 x 20.2
Mean Time Between Failures—MTBF (hours)	288,520
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
Acoustic noise	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



Feature	Value
Connectors and cabling	Multigigabit-T ports: RJ-45 connectors, 4-pair Cat 5E, Cat 6, Cat 6A UTP cabling
Connectors and cabling	1000BASE-T SFP-based ports: RJ-45 connectors, 4-pair Cat 5E UTP cabling
Connectors and cabling	SFP transceivers: LC fiber connectors (single-mode or multimode fiber)
Connectors and cabling	SFP+ transceivers: LC fiber connectors (single-mode or multimode fiber)
Connectors and cabling	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-C22.2 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, QCVN 118:2018/BTTTT, CISPR24/25, VCCI-CISPR 32 Class A, EN55035
Environmental	Reduction of Hazardous Substances (ROHS) 5



Product Comparison

Feature	C9300-24UXB-E	C9300-48S-A	C9500-24Y4C-1E
Fixed Ports	24 Multigigabit Cisco UPOE (100M/1G/2.5G/5G/10G)	48 SFP 1G fiber	24 x 25G SFP28 + 4 x 100G QSFP28
Uplink Module	Modular: 1G/10G/25G/40G/100G	Modular: 1G/10G/25G/40G/100G	Fixed: 4 x 100G QSFP28
PoE/UPoE Support	24 x UPOE+/PoE+ up to 90W	None	None
Stacking Bandwidth	Up to 1TB	Up to 1TB	480 Gbps
Switching Capacity	640 Gbps	688 Gbps	2.56 Tbps
Wireless Controller Integration	Yes (200 APs)	Yes	No
SD-Access/ Policy	Supported	Supported	Supported
Management Platform	Meraki, On-prem, Virtual	Meraki, On-prem, Virtual	On-prem, Virtual

Accessories

Category	Accessories
Included Accessories	- Power Adapter - Mounting Brackets - Console Cable
Optional Accessories	- Modular Uplink Module - Additional Power Supply - SFP/SFP+ Transceivers



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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-cat9311-ser-data-sheet-cte-en.html>