

Cisco
C9300L-24UXG2Q-10E
Datasheet



Product Overview

- The Cisco Catalyst 9300 Series is Cisco's flagship stackable enterprise access switch family, purpose-built for high-performance and future-ready networking.
- It is ideal for enterprise branches, campuses, and remote work environments where seamless connectivity, advanced security, and reliable performance are critical.
- Key hardware includes 16 x UPOE 1G ports, 2 x 40Gb Ethernet uplinks, and 8 x 1/2.5/5/10GBase-T, delivering powerful throughput and port flexibility.
- Distinctive features like up to 1TB stack bandwidth and industry-leading UPOE power density ensure operational flexibility and long-term investment protection.
- Flexible management—on-premises, virtual, or cloud—simplifies network operations for distributed teams and IT integrators.
- The Catalyst 9300 Series enables secure, scalable, and user-friendly networking to power digital transformation across global enterprise networks.

Product Highlights

- **Advanced Security Fabric:** Integrates hardware and software innovations to automate, secure, and simplify enterprise networks against advanced threats.
- **Cloud-Driven Network Operations:** Cisco Networking Cloud with SD-Access accelerates network deployment, automates policy from edge to cloud, and offers unified management.
- **Flexible Software Licensing:** Cisco Catalyst, DNA, and Meraki software subscriptions enable scalable management and investment protection with smooth upgrades.
- **Seamless Unified Management:** Manage entire wired and wireless structure under a single system offering policy consistency and enhanced network visibility.

Detailed Features



C9300L-24UXG2Q-10E

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Component	Specification
Downlink Ports	16 x 10/100/1000 (UPOE)
Uplink Ports	2 x 40Gb Ethernet
Multigigabit Ports	8 x 1/2.5/5/10GBase-T
Stacking Bandwidth	Up to 1 TB with StackWise-1T
PoE Support	UPOE / 722 W budget



Next-Gen Stackable Architecture

Built with Cisco StackWise-1T technology, the C9300L-24UXG2Q-10E offers up to 1TB stacking bandwidth. This enables high-density deployments and ensures excellent scalability in enterprise networks, supporting large campuses and distributed sites that rely on consistent high-speed connectivity between nodes.

Multi-Gigabit Flexible Port Combination

Equipped with 16 x UPOE 1G and 8 x multi-rate 1/2.5/5/10G ports, plus 2 x 40Gb uplinks, the switch supports diverse endpoint needs. It helps provide future-proof bandwidth for Wi-Fi 6/6E, IoT expansion, and high-performance core device uplinks without infrastructure overhauls.

Comprehensive Layer 3 Routing

Supports OSPF, RIP, EIGRP, VRRP, and more, along with advanced IPv6 routing. Enables sophisticated traffic engineering, multicast, and policy-based forwarding, allowing enterprises to build intelligent and adaptable network topologies for complex applications and multi-branch operations.

Secure Access and Hardware-Level Protection

With features like 802.1x, MACsec, secure boot, ACLs, and Cisco Trust Anchor module, the switch delivers a security-centric approach. This comprehensive suite helps safeguard the network core from edge threats and enables policy compliance across large distributed environments.

Unified Management and Automation

Centralized control via on-premises, virtual, or Cisco Meraki cloud dashboards allows IT teams and integrators to automate routine tasks. This ensures agile network deployment, rapid scaling, and quick adaptation to changing enterprise needs without manual reconfiguration.

Resilient and Efficient Power with StackPower

Support for Cisco StackPower and redundant power design allows dynamic sharing of power resources across switches. This improves energy use efficiency and provides robust failover, reducing downtime risks and maintenance costs in high-availability setups.

Performance at Scale and Programmability

Features like 352 Gbps switching, 261.9 Mpps forwarding rate, and high-entry MAC/ACL/QoS tables support the most demanding campus workloads. Programmable architecture empowers tailored network services, application hosting, and custom policy integration.

Investment Protection and Lifecycle Flexibility

Backward-compatible fans, power supplies, and stack cables, combined with flexible DNA/Meraki licensing, provide long-term upgrade paths. Enterprises reduce total cost of ownership and can confidently plan phased expansions and technology transitions.

Technical Specifications

Product Specifications

Feature	Value
Product Description	Cisco Catalyst 9300L - Network Essentials - switch - 24 ports - managed - rack-mountable
Device Type	Switch - 24 ports - L3 - managed - stackable
Enclosure Type	Rack-mountable
Bundled Services	10 years Network Essentials
Subtype	Gigabit Ethernet
Ports	16 x 10/100/1000 (UPOE) + 2 x 40Gb Ethernet + 8 x 1/2.5/5/10GBase-T
Power Over Ethernet (PoE)	UPOE
PoE Budget	722 W
Switching capacity	352 Gbps
Switching capacity with stacking	672 Gbps



Feature	Value
Forwarding rate	261.9 Mpps
Forwarding rate with stacking	500 Mpps
IPv4 routes	32000
IPv6 routes	16000
Multicast scale	8000
QoS scale entries	5120
ACL scale entries	5120
VLANs supported	4094
Switched virtual interfaces (SVIs)	1000
MAC Address Table Size	32000 entries
Jumbo Frame Support	9198 bytes
Routing Protocol	OSPF, RIP-1, RIP-2, EIGRP, VRRP, PIM-SM, EIGRP for IPv6, OSPFv3, PIM-SSM, policy-based routing (PBR), RIPng, MSTP
Remote Management Protocol	SNMP 1, RMON 1, RMON 2, SNMP 3, SNMP 2c, CLI, NETCONF, RESTCONF, gRPC, IPv4, IPv6, YANG
Encryption Algorithm	128-bit AES, 256-bit AES
Features	Access Control List (ACL) support, Quality of Service (QoS), Rapid Per-VLAN Spanning Tree Plus (PVRST+), Shaped Round Robin (SRR), PXE support, Energy Efficient Ethernet, Class of Service (CoS), Flexible NetFlow (FNF), 802.1x authentication, 16MB packet buffer, DiffServ Code Point (DSCP) support, MACsec support, Control plane protection (CoPP), Blue Beacon LED, Zero-touch provisioning (ZTP), secure boot, Protocol Independent Multicast (PIM), First Hop Security (FHS), PVLAN support, Committed Information Rate (CIR), Cisco Trust Anchor module, Cisco Unified Access Data Plane (UADP) 2.0, Cisco StackWise-320 technology
Compliant Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.1ae, IEEE 1588v2, IEEE 802.1BA, IEEE 802.3bt, Wi-Fi CERTIFIED 6
RAM	8 GB
Flash Memory	16 GB
Status Indicators	Status
Interfaces	16 x 1000Base-T RJ-45 60 W



Feature	Value
Interfaces	2 x 40Gbit LAN uplink
Interfaces	1 x network stack device
Interfaces	1 x management (LAN) RJ-45
Interfaces	1 x console
Interfaces	1 x USB 2.0
Interfaces	8 x 1/2.5/5/10GBase-T RJ-45
Power Device	Internal power supply - hot-plug
Installed Qty	1 (installed) / 2 (max)
Power Redundancy	Optional
Power Provided	1100 Watt
Voltage Required	AC 100-240 V (50 - 60 Hz)
MTBF	291,670 hours
Compliant Standards (Miscellaneous)	CISPR 22 Class A, CISPR 24, EN 61000-3-2, EN 61000-3-3, EN55024, EN 61000-6-1, AS/NZS 60950-1, CCC, ICES-003 Class A, UL 60950-1, IEC 60950-1, EN 60950-1, RoHS, AS/NZS 3548 Class A, BSMI Class A, VCCI Class A, CNS 13438, EN 55022 Class A, FCC CFR47 Part 15 B Class A, EN 300 386, KN32, KN35, EN 55032 Class A, CISPR 32 Class A, CAN/CSA-C22.2 No. 60950-1, TCVN 7189 Class A, V-3 Class A, TCVN 7317, CISPR 35
Dimensions (WxDxH)	17.5 in x 1.7 in x 19.2 in
Min Operating Temperature	23 °F
Max Operating Temperature	113 °F
Humidity Range Operating	5 - 90% (non-condensing)
Min Storage Temperature	-40 °F
Max Storage Temperature	158 °F

Product Comparison

Feature	C9300L-24UXG2Q-10E	BSN09E-VS720-1G (USED)	C1-N9K-C9508
Fixed Ports	16 x 10/100/1000 (UPOE) + 8 x 1/2.5/5/10GBase-T	48 x 10/100/1000Base-T	192 x 1/10/25/40/100G ports (modular)
Uplink Ports	2 x 40Gb Ethernet	4 x 1G SFP	Modular uplink cards



Feature	C9300L-24UXG2Q-10E	BSN09E-VS720-1G (USED)	C1-N9K-C9508
PoE Support	UPOE, 722 W budget	PoE/PoE+ support	N/A
Switching Capacity	352 Gbps (standalone), 672 Gbps (stacked)	720 Gbps	Up to 115.2 Tbps
Forwarding Rate	261.9 Mpps (standalone)	550 Mpps	8 Bpps
Stacking Bandwidth	Up to 1 TB	720 Gbps	N/A
Layer 3 Routing	Full IPv4/IPv6 suite	OSPF, EIGRP, BGP, etc.	OSPF, EIGRP, BGP, IS-IS, VRF
Management	On-prem, cloud, Meraki	CLI, SNMP	CLI, SNMP, REST API
Redundant Power	Supported (1+1)	Redundant available	Fully redundant N+N/N+1

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power supply module - Mounting bracket - Console cable
Optional Accessories	<ul style="list-style-type: none"> - SFP+ transceiver module - StackWise cable - Additional power supply



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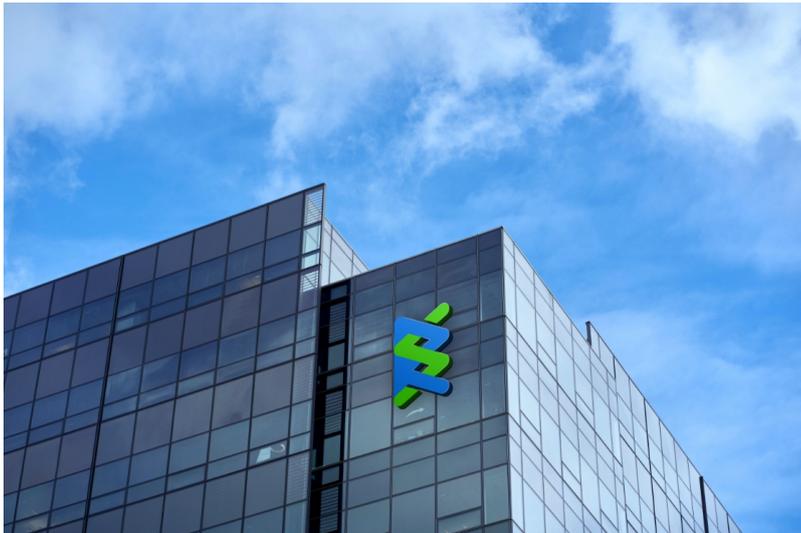


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High Connectivity: sales@router-switch.com

Expert Technical Support: ccie-support@router-switch.com

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Phone

USA: +1-626-655-0998

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Rm 605, 6/F, Fa Yuen Comm Bldg, 75-77 Fa Yuen St, Mongkok, Kowloon, Hong Kong, China

USA Branch

35 E Horizon Ridge Pkwy, Ste 110 #30131, Henderson, NV 89002, USA

Shenzhen Branch

Jingfeng Building, 1001 Shangbu South Road, Futian District, Shenzhen, China

UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK



References

[1] Cisco. (2023). Cisco 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>