

Cisco

C1-N9K-C93180LCB2

Datasheet



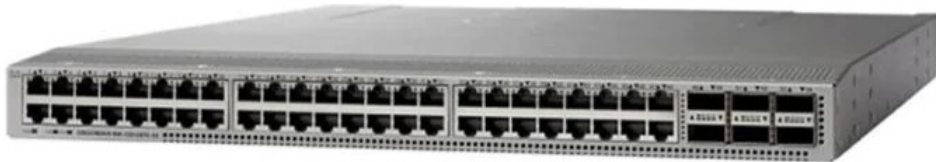
Product Overview

- The Cisco Nexus 9300-EX Series is part of the Cisco Nexus 9000 family, built for modern cloud-scale data centers.
- This platform is ideal for cloud service providers, large enterprises, and scalable data center environments.
- It features 48 × 10/25G SFP28 ports and 6 × 40/100G QSFP28 uplinks for flexible high-performance connectivity.
- Advanced architecture allows seamless migration from legacy 1G/10G to 25G at the server and up to 100G at aggregation.
- Management is simplified through NX-OS and ACI mode, supporting both traditional and automated, policy-driven deployments.
- The Nexus 9300-EX series delivers rapid scaling, high bandwidth, and investment protection for organizations growing their digital infrastructure.

Product Highlights

- **Architectural Flexibility:** Supports Cisco ACI, VXLAN EVPN fabrics, and three-tier BGP for future-proof scalable architectures.
- **Extensive Programmability:** Integrates with top DevOps tools and supports RESTCONF/NETCONF for automated deployments.
- **Intelligent Buffer Management:** Distinguishes and optimizes for both short-lived and long-lived flows, ensuring efficient data traffic.
- **High Availability Design:** vPC, redundant PSU/fans, and advanced reboot minimize downtime and maximize network resilience.

Detailed Features



C1-N9K-C93180LCB2

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Component	Specification
Switching Ports	8 × 10/25G SFP28
Uplink Ports	6 × 40/100G QSFP28
Switching Capacity	3.6 Tbps
Forwarding Rate	1.2 Bpps
Management	NX-OS/ACI Mode



Cloud-Scale Data Center Optimized

Powered by Cisco Cloud Scale technology, this switch is engineered to meet the demands of hyper-scale data centers and cloud service providers. It offers fast, reliable, and dense connectivity for heavily virtualized environments, enabling scalable application deployment and seamless cloud integration.

Flexible Interface Options

With 48 × 10/25G SFP28 and 6 × 40/100G QSFP28, the switch supports straightforward migration between different network speeds within the same infrastructure. This versatility simplifies data center upgrades and enables long-term investment protection.

Consistent High Performance

Delivering 3.6 Tbps switching and 1.2 Bpps forwarding rate, as well as 16GB DDR4 and 64GB SSD storage, the C1-N9K-C93180LCB2 provides the reliability and capacity demanded by traffic-intensive modern network cores.

Rich Layer 2/3 Protocol Support

Comprehensive support for unicast/multicast IPv4/IPv6 routing protocols, including BGP, OSPF, EIGRP, and more, ensures robust interoperability across complex network environments. Advanced features such as segment routing and VXLAN EVPN deliver exceptional scalability for web-scale operations.

Intelligent Buffer Management

Cisco's intelligent buffer management intelligently distinguishes mice/elephant flows. Advanced mechanisms such as AFD and DPP ensure efficient queue management, fairness, and reduced application latency, even in congested scenarios.

Extensive Programmability

Native YANG/OpenConfig models, support for Ansible, Chef, Puppet, and extensive REST/NETCONF APIs enable complete automation from deployment to operations, reducing human error and operating costs.

Resilient High Availability

Hot-swappable power supplies and fans, N+1 redundancy, vPC technology, and 64-way ECMP deliver continuous service and minimal disruption for critical applications, supporting enterprise SLAs.

Comprehensive Network Management

Single-binary modular NX-OS, hot/cold patching, Data Center Network Manager integration, real-time health monitoring, and graphical visibility tools streamline operations from day zero through day N and simplify compliance.

Technical Specifications

Product Specifications

Feature	Value
Form Factor	1RU
Port Configuration	48 × 10/25G SFP28 ports
Uplink Ports	6 × 40/100G QSFP28 uplink ports
Switch Type	Layer 3
Switching Capacity	3.6 Tbps
Forwarding Rate	1.2 Bpps
Memory	16GB DDR4
Storage	64GB SSD
Power Supply	600W AC (1+1 redundancy)
Cooling	Hot-swappable fans
Airflow	Front-to-back
Dimensions (H × W × D)	1.72 × 17.3 × 22.6 in



Feature	Value
Dimensions (H × W × D - Metric)	4.4 × 43.9 × 57.4 cm
Operating Temperature Min	32°F (0°C)
Operating Temperature Max	104°F (40°C)
Storage Temperature Min	-40°F (-40°C)
Storage Temperature Max	158°F (70°C)
Humidity	5% to 95% non-condensing
MTBF	400,000 hours
Operating System	NX-OS with ACI Mode support

Product Comparison

Feature	C1-N9K-C93180LCB2	C9300-24UX-E	C1-N9K-C92160YC-X
Switching Capacity	3.6 Tbps	880 Gbps	6.4 Tbps
Switching Ports	48 × 10/25G SFP28	24 × 10M/100M/1G/2.5G/5G/10G Multigigabit + 2x 40G	48 × 10/25G SFP28
Uplink Ports	6 × 40/100G QSFP28	2 × 40G QSFP+	6 × 40/100G QSFP28
Form Factor	1RU	1RU	1RU
Forwarding Rate	1.2 Bpps	654.76 Mpps	2.4 Bpps
Power Redundancy	600W AC (1+1 redundancy)	Redundant Power Supplies	N+1 Redundancy Supported
Layer 3 Routing	Yes	Yes	Yes
OS Support	NX-OS with ACI Mode	IOS XE	NX-OS with ACI Mode
Management Tool	DCNM, APIs	Web UI, CLI	DCNM, APIs
Application	Data center/core/aggregation	Campus/core	Data center/core



Accessories

Category	Accessories
Included Accessories	- Power Cord - Rack Mount Kit - Quick Start Guide
Optional Accessories	- SFP28 Transceivers - QSFP28 Uplink Modules - Redundant Power Supply



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References

[1] Cisco. (2023). Cisco Nexus 9000 Series Switches Data Sheet. Retrieved from <https://www.cisco.com/c/en/us/products/collateral/switches/nexus-9000-series-switches/datasheet-c78-742283.html>