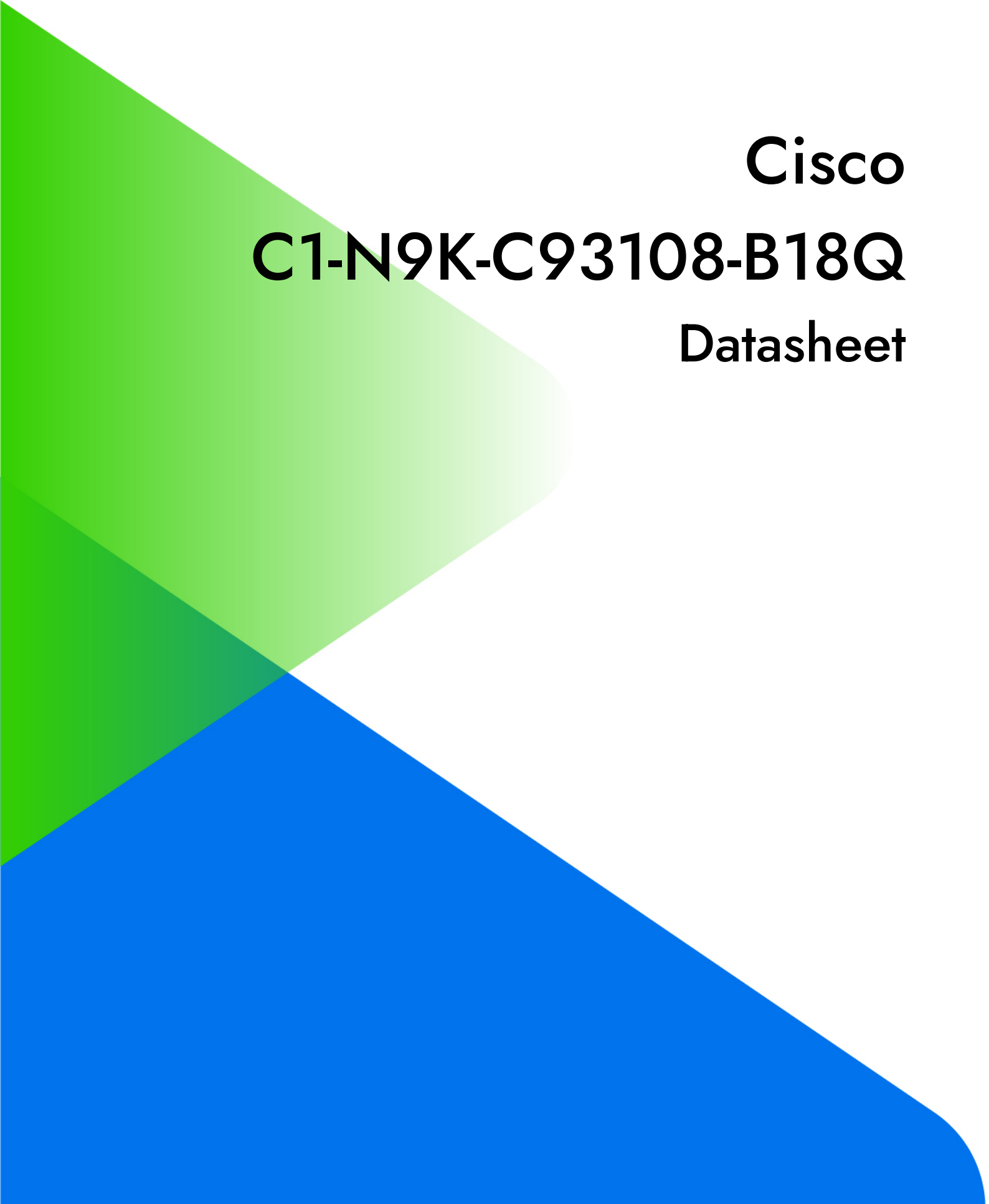




Cisco

C1-N9K-C93108-B18Q

Datasheet



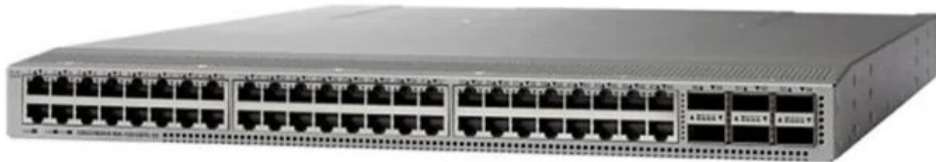
Product Overview

- The Cisco Nexus 9300-EX Series is part of Cisco's fixed switch platform using advanced Cisco Cloud Scale technology.
- It is designed for modern data centers, large enterprise networks, and businesses needing high scalability and cloud migration.
- The switch delivers 48 × 10GBASE-T ports, 6 × 40G uplinks, and features a 2.16 Tbps switching capacity for excellent throughput and low latency.
- Flexible migration options enable seamless transition from legacy speeds to 25G/40G/100G, maximizing infrastructure investments.
- Operational modes include standard NX-OS for traditional needs and ACI mode for automated policy-driven management workflows.
- Ideal for growing environments, the C1-N9K-C93108-B18Q meets evolving networking needs with outstanding scalability and investment protection.

Product Highlights

- **Flexible Architecture:** Supports Cisco ACI for software-defined networking and VXLAN EVPN multi-site fabrics for modern enterprise needs.
- **High Performance Scalability:** Accommodates up to one million shared entries with large forwarding tables for future-proof network growth.
- **Advanced Buffer Management:** Smart algorithms dynamically manage flows to optimize performance for diverse traffic patterns under congestion.
- **High Availability Design:** Robust hardware and software redundancy, vPC support, hot-swappable PSUs, and advanced reboot ensure minimal downtime.

Detailed Features



C1-N9K-C93108-B18Q

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Component	Specification
Switching Capacity	2.16 Tbps
Forwarding Rate	1.6 Bpps
Ports	48 × 10GBASE-T (RJ45), 6 × 40G QSFP+ uplinks
Form Factor	1RU
Power Supply	Dual redundant, hot-swappable



Cloud-Scale System Architecture

Built on Cisco Cloud Scale technology, the C1-N9K-C93108-B18Q is optimized for high-density, high-performance data centers. Its advanced ASIC ensures consistent performance and enhanced resource management, making it suitable for demanding next-generation enterprise workloads.

Advanced Port Flexibility

The switch offers 48 × 10GBASE-T ports and 6 × 40G QSFP+ uplink ports, providing granular connectivity for both legacy and high-speed network environments. This versatility ensures compatibility with evolving data center requirements and simplifies infrastructure upgrades.

Exceptional Throughput and Latency

With a switching capacity of 2.16 Tbps and forwarding rate of 1.6 Bpps, the device maintains low ~1 microsecond latency even under full load conditions. It delivers predictable performance for latency-sensitive virtualized and cloud applications.

Comprehensive Layer 2/3 Support

The platform supports advanced routing and switching protocols across IPv4 and IPv6, including BGP, OSPF, EIGRP, and multicast suite. This allows for highly flexible and scalable topologies that adapt to modern enterprise and cloud deployments.

Intelligent Buffer Management

Innovative buffer techniques distinguish between small and large flows, optimizing link utilization and ensuring fair access during congestion. Dynamic Packet Prioritization and Approximate Fair Dropping prevent traffic loss for critical applications.

Extensive Programmability

Features industry-leading automation tools with support for Ansible, Chef, Puppet, and SALT. Native YANG/OpenConfig model and RESTCONF/NETCONF interfaces ensure seamless integration with contemporary DevOps workflows and network automation platforms.

Holistic Network Visibility

Telemetry data exported every 100 ms gives real-time insights. Integrated with Cisco Tetration Analytics, it enables deep application visibility, behavioral analytics, and proactive zero-trust security enforcement in complex environments.

Operational Resilience

Hot-swappable power supplies, front-to-back airflow cooling, advanced reboot (patching) features, and integrated vPC/ECMP ensure high uptime. Modular NX-OS architecture with isolated processes and automated management reduces failures and facilitates rapid troubleshooting.

Technical Specifications

Product Specifications

Feature	Value
Model	C1-N9K-C93108-B18Q
Brand	Cisco
Port Configuration	48 × 10GBASE-T (RJ45) ports
Uplink Ports	6 × 40G QSFP+
Throughput	2.16 Tbps
Forwarding Rate	1.6 Bpps
Form Factor	1RU
Switching Capacity	2.16 Tbps
MAC Address Table	256,000 entries
VLAN Support	4,094 VLAN IDs
Jumbo Frame Support	9,216 bytes
Latency	~1 microsecond



Feature	Value
Power Supply	Dual redundant, hot-swappable
AC Input Voltage	90–264 VAC
Cooling	Front-to-back airflow
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)
Management Interfaces	CLI
Management Support	SNMP
Management Options	Web GUI

Product Comparison

Feature	C1-N9K-C93108-B18Q	Arista DCS-7280CR3-32D4-F	C9300L-24P-4G-A
Ports	48 × 10GBASE-T (RJ45), 6 × 40G QSFP+	32 × 100G QSFP28	24 × 1G PoE+, 4 × 1G SFP uplinks
Switching Capacity	2.16 Tbps	6.4 Tbps	56 Gbps
Forwarding Rate	1.6 Bpps	4.77 Bpps	83.33 Mpps
Form Factor	1RU	1RU	1RU
Redundant Power	Dual, hot-swappable	Dual, hot-swappable	Redundant options
Layer 3 Support	Comprehensive (BGP, OSPF, EIGRP, etc.)	Comprehensive	Basic L3
Fan Design	Front-to-back airflow	Front-to-back airflow	Integrated
Stacking/ Virtualization	vPC, ACI, VXLAN EVPN	MLAG, VXLAN, EVPN	StackWise Virtual



Accessories

Category	Accessories
Included Accessories	- Power Cords - Rack Mount Kit - Console Cable
Optional Accessories	- QSFP+ Transceiver Modules - Expansion Fan Trays - Additional Power Supply Units



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Contact Us

Email

High Connectivity: sales@router-switch.com

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

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Global Branches

Headquarters (Hong Kong)

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

Shenzhen Branch

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

USA Branch

3592 Rosemead Blvd, B #220, Rosemead, CA 91770, USA

UK Branch

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



References

[1] Cisco. (2023). 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>