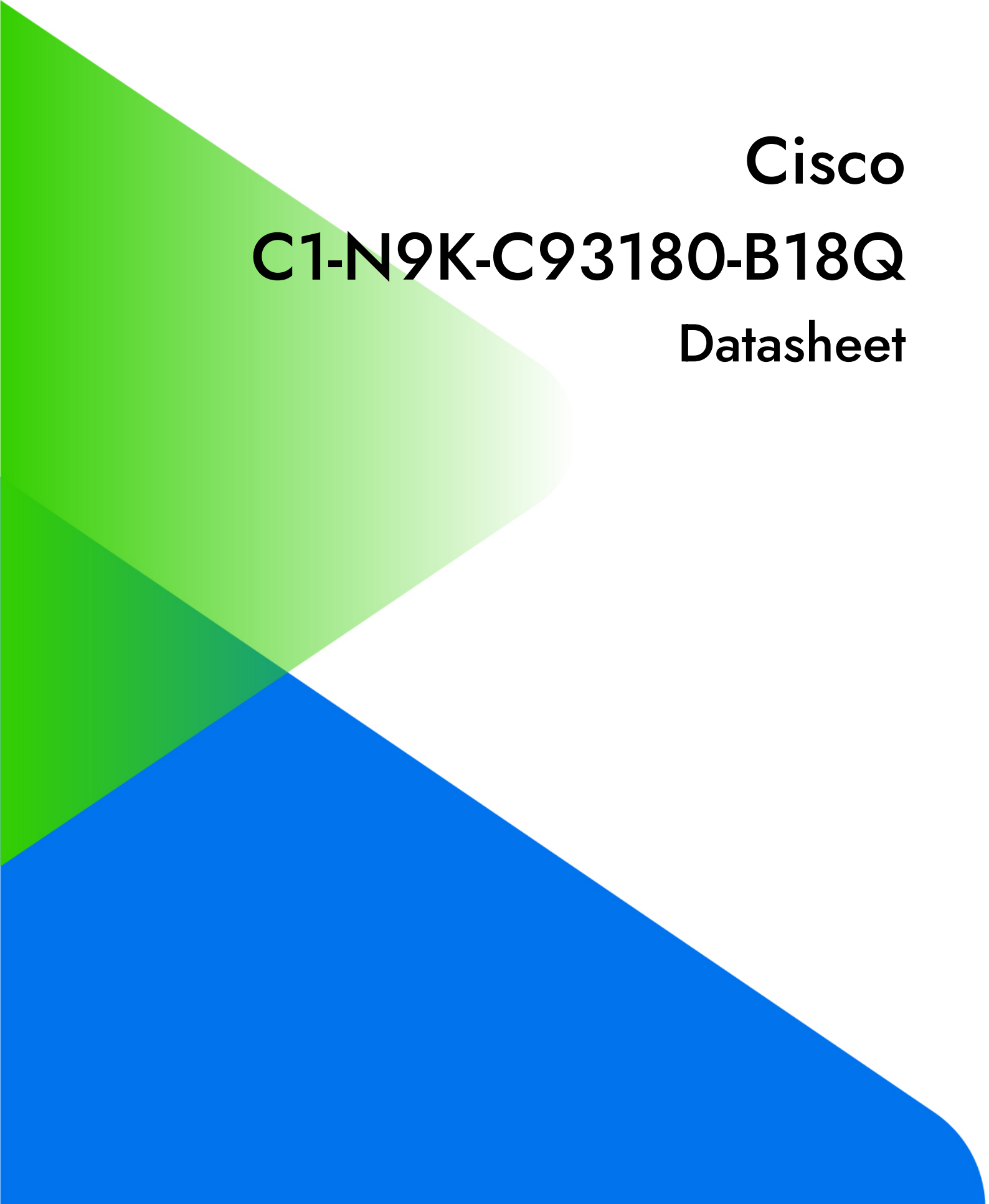




Cisco

C1-N9K-C93180-B18Q

Datasheet



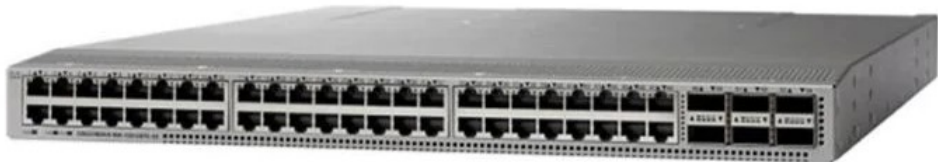
Product Overview

- The Cisco Nexus 9300-EX Series is part of Cisco's advanced data center switching line, built to deliver efficient cloud connectivity.
- It is ideal for modern enterprise data centers, managed hosting providers, and scalable cloud deployments seeking high bandwidth and automation.
- Notable specifications include 8 × 40G QSFP ports, a 1RU form factor, and hot-swappable dual redundant power supplies for critical uptime.
- Key features such as advanced buffer management, virtualization, and intelligent Layer 2/3 scaling set this switch apart from standard models.
- The switch supports both Cisco NX-OS for traditional networks and Cisco ACI mode for automated policy-driven infrastructure.
- With its robust hardware, flexible operation modes, and high throughput, the C93180-B18Q helps future-proof enterprise network investments in demanding cloud and virtualization environments.

Product Highlights

- **Architectural Flexibility:** Supports industry-leading Cisco ACI™ and VXLAN EVPN for scalable and agile data center fabrics.
- **Advanced Programmability:** Offers robust automation with Power On Auto Provisioning and deep API support for integration.
- **Intelligent Buffer Management:** Utilizes innovative mechanisms like AFD and Dynamic Packet Prioritization for traffic optimization.
- **High Availability Design:** Features vPC, ECMP routing, hot-swappable components, and modular NX-OS for resilient operations.

Detailed Features



C1-N9K-C93180-B18Q

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Component	Specification
Model	C1-N9K-C93180-B18Q
Form Factor	1RU
Port Type	8 × 40G QSFP (QSFP-40G-SR-BD)
Switch Type	Layer 3
Power Supply	Dual redundant



Unmatched Cloud-Scale Performance

The Nexus 9300-EX Series leverages Cisco Cloud Scale technology to deliver robust performance in data center and enterprise environments. Designed for rapid data access and minimal latency, it handles dense virtualization, large endpoint counts, and modern cloud traffic. This foundation enables future-proof network scaling without compromising throughput or efficiency.

Flexible High-Speed Migration

Featuring 8 × 40G QSFP ports, the C93180-B18Q allows seamless transition from legacy 1/10G to 25/40/50/100G. This flexible port configuration protects investment by supporting gradual upgrades and mixed-speed deployments. Data centers can optimize existing infrastructure while expanding bandwidth to meet new application demands.

Comprehensive Layer 2 & 3 Support

Enterprise networks rely on scalable Layer 2 and Layer 3 capabilities for segmentation, routing, and convergence. The C93180-B18Q complements high-capacity L2 switching with advanced L3 protocol suites, including BGP, OSPF, EIGRP, and multicast. This breadth ensures smooth service delivery and high application availability.

Enhanced Buffer Management

Leveraging Cisco's innovative buffer management, the switch detects and separates short (mice) and long (elephant) data flows. Techniques like Approximate Fair Dropping (AFD) and ETRAP ensure bandwidth fairness, reduce latency, and prevent congestion from large, persistent flows. Networks benefit from optimized quality of service across all traffic types.

Intelligent Automation & Programmability

The platform supports extensive automation, from day-zero provisioning to ongoing operations. Integration with Ansible, Chef, and Puppet streamlines configuration, while RESTful API access and YANG/OpenConfig modeling enable seamless orchestration. DevOps teams can maximize agility without manual intervention.

Resilient High Availability

With virtual Port-Channel (vPC), redundant hot-swappable PSUs/fans, and modular NX-OS, the switch offers continuous uptime. Layer 3 ECMP support ensures non-blocking designs, minimizing downtime and maximizing network stability for mission-critical applications.

Advanced Analytics and Telemetry

Built-in support for Cisco Tetration Analytics exports real-time telemetry directly from ASICs. By combining flow, variation, and context data, IT teams gain holistic insight and actionable analytics, supporting zero-trust strategies and simplifying large-scale troubleshooting.

Continuous Assurance and Security

Cisco Network Assurance Engine (NAE) proactively validates network intent and policy, predicts potential issues, and automates compliance. This minimizes operational risks, aids rapid remediation, and maintains robust segmentation and security for evolving enterprise environments.

Technical Specifications

Product Specifications

Feature	Value
Model	C1-N9K-C93180-B18Q
Brand	Cisco
Form Factor	1RU
Port Configuration	8 × 40G QSFP (QSFP-40G-SR-BD)
Switch Type	Layer 3
Power Supply	Dual redundant
Port Speed	40Gbps
Maximum Power Consumption	400W
Memory	16 GB



Feature	Value
Flash Storage	64 GB
Dimensions Height	1.72 in
Dimensions Width	17.3 in
Dimensions Depth	18.0 in
Fans	Hot-swappable, redundant
Operating Temperature Min	0°C (32°F)
Operating Temperature Max	40°C (104°F)
Storage Temperature Min	-40°C (-40°F)
Storage Temperature Max	70°C (158°F)
Humidity Range	5% to 95% non-condensing
MTBF	693,720 hours
Operating System	Cisco NX-OS

Product Comparison

Feature	C1-N9K-C93180-B18Q	C9300-24UB-E=	C9300L-24UXG4X-10A
Port Configuration	8 × 40G QSFP	24 × 1G/2.5G/5G/10G/25G Multigigabit + 2 × 40G/100G QSFP28	24 × 1G/2.5G/5G/10G/25G Multigigabit + 4 × 10G SFP+
Switch Type	Layer 3	Layer 3	Layer 3
Form Factor	1RU	1RU	1RU
Power Supply	Dual redundant	Dual redundant	Dual redundant
Maximum Power Consumption	400W	~650W	~550W
Fans	Hot-swappable, redundant	Redundant, field-replaceable	Redundant, field-replaceable
Operating System	Cisco NX-OS	Cisco IOS XE	Cisco IOS XE
Management	NX-OS, ACI support	StackWise, SD-Access, DNA Center	SD-Access, Stacking supported
Application Scenario	Cloud-scale/aggregation	Access/aggregation, campus/core	Campus/aggregated edge



Accessories

Category	Accessories
Included Accessories	- Power Cords - Mounting Kit - Quick Start Guide
Optional Accessories	- QSFP Transceiver Modules - Cable Management Arm - Redundant Power Supply Unit



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References

[1] Cisco. (2023). Cisco Nexus 9300-EX Series Switches Data Sheet. Retrieved from <https://www.cisco.com/c/en/us/products/collateral/switches/nexus-9000-series-switches/datasheet-c78-742283.html>