



Cisco
C1-N9K-C9236C
Datasheet



Product Overview

- The Cisco Nexus 9200 Series brings cutting-edge Cloud Scale technology to data center networks, setting standards in enterprise-class performance and reliability.
- It is an ideal solution for large-scale cloud computing, enterprise applications, and service provider data centers requiring agility and speed.
- Key specifications include flexible 1/10/25/40/50/100-Gbps support, high-density 36 × 100G QSFP28 ports, and advanced line-rate Layer 2/3 switching.
- NX-OS Software integration delivers a programmable fabric, enabling seamless policy, automation, and simplified operations.
- Built-in programmability and automation provide DevOps compatibility, reducing errors and optimizing deployment.
- Deploy the Nexus 9200 Series for scalable, efficient, and automated networking in modern data centers, cloud, and hosting scenarios.

Product Highlights

- **Ultra-High Port Density:** Delivers 36 × 100G QSFP28 ports in a compact chassis for extreme scalability in high-demand environments.
- **Flexible Connectivity:** Supports 1/10/25/40/50/100-Gbps mix for adaptable and future-ready network deployment.
- **Programmable Infrastructure:** Enables automation and rapid configuration via Cisco NX-OS, making network management faster and simpler.
- **Cloud and DevOps Ready:** Optimized for cloud and IaaS providers with support for DevOps tool integration workflows.

Detailed Features



C1-N9K-C9236C

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Component	Specification
Fixed Ports	36 × 100G QSFP28
Switching Capacity	Line-rate Layer 2/3
Form Factor	Compact, fixed-configuration
Supported Speeds	1/10/25/40/50/100-Gbps
Operating System	Cisco NX-OS Software



High-Density 100G Access

The switch integrates 36 × 100G QSFP28 ports, offering one of the highest port densities available. This meets the demands of growing data centers and eases migration to higher bandwidths without new hardware investments, ensuring long-term scalability.

Flexible Speed Options

The platform's multi-rate ports span 1/10/25/40/50/100-Gbps, supporting seamless adaptation to evolving performance requirements. Network architects can mix and match port speeds to suit both legacy integration and next-generation workloads.

Line-Rate Layer 2/3 Switching

Cisco Nexus 9200 supports line-rate L2 and L3 forwarding. This delivers non-blocking, high-speed packet processing with minimal latency, crucial for high-performance computing, financials, and real-time analytics in enterprises and hosted environments.

Robust MAC, Routing, and Multicast Tables

The device provides up to 1,792,000 LPM routes, 1,792,000 IP host entries, and 92,000 MAC address entries. This immense table capacity supports complex topologies and dense virtualization, maximizing multi-tenant or multi-service deployments.

Comprehensive Virtualization Support

Up to 16,000 VRFs and 4,096 VLANs allow robust network segmentation for secure multi-tenant, multi-customer, and hybrid cloud architectures. This flexibility is essential for cloud providers and managed service operators.

Programmatic Network Management

Cisco NX-OS enables automation with REST APIs, scripting, and DevOps tools. Automated provisioning and monitoring speed up deployment, reduce human errors, and improve operational consistency.

Advanced High Availability

Redundant power (350W/1200W AC/DC/HVAC/HVDC PSU options), removable fan trays, and field-replaceable units enhance network stability. Intelligent failure recovery and proactive management components ensure uninterrupted service.

Efficient Energy and Environmental Design

The platform operates between 0°C to 40°C and at altitudes up to 4,000 meters. Adaptable power consumption and multiple fan tray choices enable the switch to fit diverse environments, including green, energy-conscious, or remote facilities.

Technical Specifications

Product Specifications

Feature	Value
LPM Routes	Default 6,000 (up to 1,792,000)
IP Host Entries	Default 96,000 (up to 1,792,000)
MAC Addresses	92,000 entries
Multicast Routes	Shipping 8,000 (max 32,000)
IGMP Groups	8,000 (max 32,000)
ACL Capacity	4,000 ingress / 2,000 egress per forwarding slice
VLANs	4,096 (127 reserved)
VRF Instances	Shipping 1,000 (up to 16,000)
Port Channels	512 maximum (32 links each)
ECMP Paths	64-way
ECMP Groups	256 maximum
HSRP Groups	490



Feature	Value
MST Instances	64
RPVST VLANs	3,967
SPAN Sessions	4 active
NAT Entries	1,023 (initial software release)
Power Options	Supports various 350W-1200W AC/DC/HVAC/HVDC PSUs
Fan Trays	Multiple options available (0.24-1.42 lb each)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	5% to 85% non-condensing
Altitude	0–4,000 m (0–13,123 ft)

Product Comparison

Feature	C1-N9K-C9236C	C9300L-24P-4G-A	C1-N7018
Fixed Ports	36 × 100G QSFP28	24 × 1G PoE+ + 4 × 1G SFP	18-slot modular chassis
Port Speed	1/10/25/40/50/100G	1G	1G/10G/40G/100G module support
Switching Capacity	High Line-Rate L2/L3	104 Gbps	Up to 15 Tbps (modular)
MAC Address Entries	92,000	32,000	128,000
VLANs Supported	4,096	4,094	4,096
Virtualization (VRF)	Up to 16,000	Yes (limited)	160,000
Power Options	350W-1200W AC/DC	AC only	Multiple redundant PSU
Management OS	Cisco NX-OS	IOS XE	Cisco NX-OS
Application Scenario	High-density data center	Branch/Access	Core/Aggregation modular switch



Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none">- Power Supply Unit- Rack Mount Kit- Console Cable
Optional Accessories	<ul style="list-style-type: none">- QSFP28 Transceiver Modules- Redundant Fan Tray- DC Power Module



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References

[1] Cisco Systems. (2024). Cisco Nexus 9000 Series Switches Datasheet. Retrieved from <https://www.cisco.com/c/en/us/products/collateral/switches/nexus-9000-series-switches/datasheet-c78-735989.html>