



# Cisco

# C1-N9K-C9364C

## Datasheet



## Product Overview

- Cisco's Nexus 9000 Series leads modern data center networking with high-performance, advanced spine and leaf switching.
- The C1-N9K-C9364C is designed for scalable enterprise, cloud, or service provider data centers needing reliable 100G capacity and flexibility.
- With 64 × 40/100G QSFP28 and 2 × 1/10G SFP+ ports, 12.8 Tbps switching, and a Broadwell-DE CPU, it delivers robust, fast performance.
- Features like hot-swappable fans, flexible port configurations, and high power efficiency uniquely position it over comparable switches.
- Centralized management options and Cisco NX-OS/ACI deployment capability simplify integration and automation for IT teams.
- The C1-N9K-C9364C strengthens core and spine layers, driving superior throughput and agility for demanding traffic environments.

## Product Highlights

- **High-Density 100G Ports:** Offers 64 × 40/100G QSFP28 ports, supporting high-bandwidth and aggregation needs in modern data centers.
- **Powerful Switching Capacity:** Delivers 12.8 Tbps switching and 3.6 Bpps forwarding rate for consistently reliable, fast network performance.
- **Flexible Management & OS:** Supports both Cisco NX-OS and ACI, allowing deployment in traditional or policy-driven automated environments.
- **Efficient Cooling & Power:** Dual hot-swappable fans and >90% power efficiency ensure robust, energy-saving operation under heavy workloads.

## Detailed Features



C1-N9K-C9364C

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| Component          | Specification                       |
|--------------------|-------------------------------------|
| Ports              | 64 × 40/100G QSFP28, 2 × 1/10G SFP+ |
| Switching Capacity | 12.8 Tbps                           |
| Forwarding Rate    | 3.6 Bpps                            |
| Form Factor        | 2RU spine switch                    |
| CPU                | Broadwell-DE 4-core processor       |



## Seamless 40/100G Data Center Upgrades

With advanced optics, the Nexus 9300 platform allows organizations to use their existing 10G multimode fiber cabling for simple, economical upgrades to 40G or higher speeds, ensuring smooth transitions and preserving infrastructure investment.

## Dual Operational Modes

The Nexus 9000 Series supports Cisco NX-OS for traditional switch management and is ready for Cisco ACI integration. This dual-mode flexibility gives enterprises and service providers freedom to operate using their preferred network models without compromise.

## Ultimate High Port Density

The C1-N9K-C9364C delivers 64 high-speed 40/100G QSFP28 ports and 2 additional 1/10G SFP+ ports, enabling support for large numbers of servers and connections. High density ensures scalability critical for modern hyper-scale and high-throughput data centers.

## Purpose-Built Hardware for Efficiency

Powered by a Broadwell-DE 4-core CPU, 32 GB memory, and 128 GB SSD storage, the switch achieves 12.8 Tbps switching capacity and 3.6 Bpps forwarding. Its architecture means consistent low-latency delivery for mission-critical applications.

## Flexible Deployment Options

Designed for ToR, MoR, and end-of-row positions, the Nexus 9300 switches fit various data center topologies. They suit enterprise, service provider, and cloud environments by maximizing space utilization and connection flexibility.

## Robust PoE and Cabling Compatibility

Offering support for 1/10G BASE-T and backward compatible optics, users can power devices and extend investment in copper or fiber, reducing total cost of ownership especially during large-scale upgrades from previous hardware generations.

## Advanced Cooling and Power System

Dual hot-swappable fan trays with intake/exhaust options and >90% power efficiency at various loads ensure stability during high performance. This enhances reliability and control of operational expenses in demanding settings.

## Comprehensive Automation Support

Native compatibility with Cisco ACI delivers full policy-based automation for network provisioning, monitoring, and security segmentation. Enterprises accelerate service delivery, reduce errors, and increase agility using proven Cisco data center frameworks.

# Technical Specifications

## Product Specifications

| Feature            | Value                               |
|--------------------|-------------------------------------|
| Model              | C1-N9K-C9364C                       |
| Brand              | Cisco                               |
| Ports              | 64 × 40/100G QSFP28, 2 × 1/10G SFP+ |
| Form Factor        | 2RU spine switch                    |
| CPU                | Broadwell-DE 4-core processor       |
| System Memory      | 32 GB                               |
| Storage            | 128 GB SSD                          |
| Switching Capacity | 12.8 Tbps                           |
| Forwarding Rate    | 3.6 Bpps                            |
| Buffer             | 40 MB shared                        |
| Management Ports   | 1 × 10/100/1000BASE-T, 1 × 1G SFP   |
| Console Port       | 1 × RS-232 serial port              |



| Feature                        | Value                                                             |
|--------------------------------|-------------------------------------------------------------------|
| USB Port                       | 1 port                                                            |
| Power Supplies                 | 1200W AC, 930W DC, 1200W HVAC/HVDC                                |
| Input Voltage AC               | 100-240V (200-240V required for 1200W output)                     |
| Input Voltage DC               | -40V to -72V (nominal -48V to -60V)                               |
| Cooling                        | Dual hot-swappable fan trays, port-side intake or exhaust options |
| Power Efficiency               | ≥90% (20-100% load)                                               |
| Typical Power Consumption (AC) | 429W                                                              |
| Max Power Consumption (AC)     | 1245W                                                             |
| Dimensions                     | 3.38 × 17.37 × 22.27 in (8.59 × 44.13 × 56.58 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)                                                      |
| Operating Humidity             | 5% to 90% non-condensing                                          |
| Maximum Altitude               | 0–13,123 ft (0–4,000 m)                                           |
| Acoustic Noise Levels 40%      | 76.7 dBA                                                          |
| Acoustic Noise Levels 70%      | 88.7 dBA                                                          |
| Acoustic Noise Levels 100%     | 97.4 dBA                                                          |
| MTBF                           | 257,860 hours                                                     |
| RoHS Compliance                | Yes                                                               |

## Product Comparison

| Feature            | C1-N9K-C9364C                       | C1-N9K-C93108TC-EX               | C1-N9K-C93108EXB24                    |
|--------------------|-------------------------------------|----------------------------------|---------------------------------------|
| Ports              | 64 × 40/100G QSFP28, 2 × 1/10G SFP+ | 48 × 1/10G-T, 6 × 40/100G QSFP28 | 24 × 40/100G QSFP28, 8 × 10/25G SFP28 |
| Switching Capacity | 12.8 Tbps                           | 2.6 Tbps                         | 6.8 Tbps                              |
| Forwarding Rate    | 3.6 Bpps                            | 1 Bpps                           | 2.2 Bpps                              |
| Form Factor        | 2RU spine switch                    | 1RU ToR switch                   | 1RU ToR/spine switch                  |



| Feature              | C1-N9K-C9364C                  | C1-N9K-C93108TC-EX                 | C1-N9K-C93108EXB24                       |
|----------------------|--------------------------------|------------------------------------|------------------------------------------|
| CPU & Memory         | Broadwell-DE 4-core / 32 GB    | Broadwell-DE / 16 GB               | Broadwell-DE / 32 GB                     |
| Power Supply Options | 1200W AC/930W DC/1200W HVAC    | 650W AC                            | 1100W AC                                 |
| Cooling              | Dual hot-swappable fans        | Front-to-back, hot-swappable       | Front-to-back/reverse air, hot-swappable |
| Automation & OS      | NX-OS, Cisco ACI ready         | NX-OS, Cisco ACI ready             | NX-OS, Cisco ACI ready                   |
| Application Scenario | High-density spine/aggregation | Top-of-rack, moderate port density | Aggregation/high density, compact 1RU    |

## Accessories

| Category             | Accessories                                                                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Included Accessories | <ul style="list-style-type: none"> <li>- AC Power Supply</li> <li>- Mounting Brackets</li> <li>- Console Cable</li> </ul>                  |
| Optional Accessories | <ul style="list-style-type: none"> <li>- QSFP28 Optical Transceiver</li> <li>- Spare Fan Tray</li> <li>- DC Power Supply Module</li> </ul> |



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## References

[1] Cisco Systems. (2023). Cisco Nexus 9000 Series Switches Datasheet. Retrieved from <https://www.cisco.com/c/en/us/products/collateral/switches/nexus-9000-series-switches/datasheet-c78-736967.html>