

**Cisco**  
**C1-N9K-C9372TX-E**  
**Datasheet**



## Product Overview

- The Cisco Nexus 9000 Series C1-N9K-C9372TX-E is a high-performance data center switch built for next-generation networks.
- It is ideal for enterprise data centers, cloud environments, and service providers looking for high density and efficiency.
- Key specifications include 48 × 1/10GBASE-T (RJ45) ports, 6 × 40G QSFP+ uplinks, and up to 1.4 Tbps forwarding rate.
- The switch features advanced nonblocking architecture, hot-swappable fan trays, and dual redundant power supplies for maximum uptime.
- With support for both Cisco NX-OS and Cisco ACI modes, it caters to both traditional and policy-based automation deployments.
- The C1-N9K-C9372TX-E delivers scalable, reliable, and flexible connectivity, meeting the evolving needs of digital business.

## Product Highlights

- **Flexible Port Density:** 48 × 1/10GBASE-T ports and 6 × 40G QSFP+ uplinks deliver versatile, scalable connectivity for dynamic workloads.
- **High-Performance Switching:** 720 Gbps switching capacity and 1.44 Tbps throughput handle large enterprise and cloud workloads with ease.
- **Dual Operating Modes:** Supports Cisco NX-OS and ACI for flexible deployment in both traditional and automated policy-driven networks.
- **Redundant Power and Cooling:** Dual redundant power supplies and hot-swappable fans ensure continuous operation and simplified maintenance.

## Detailed Features



C1-N9K-C9372TX-E

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Component	Specification
Downlink Ports	48 × 1/10G BASE-T (RJ45)
Uplink Ports	6 × 40G QSFP+
Switching Capacity	720 Gbps
Form Factor	1U rack-mounted
Throughput	1.44 Tbps



## High-Speed Data Center Upgrades

Enables seamless migration to 40 Gigabit Ethernet at aggregation or spine layers by leveraging advanced 40G optics. Organizations can use existing 10 Gigabit multimode fiber, providing a cost-effective upgrade path without re-cabling, ensuring fast and efficient expansion.

## Dual Operating Modes

Cisco Nexus 9000 Series offers both Cisco NX-OS for traditional environments and hardware-ready support for Cisco ACI. This dual-mode flexibility allows organizations to choose the best operational model for their needs and future-proof their infrastructure.

## Efficient ToR and EoR Deployments

The Nexus 9300 platform is engineered for high-density top-of-rack (ToR), middle-of-row (MoR), and end-of-row (EoR) deployments. Its nonblocking architecture and low power consumption make it ideal for large, virtualized, and cloud data centers.

## Flexible Copper and Fiber Support

With support for both existing copper and fiber cabling, the switch fits seamlessly into various environments. It enables cost-effective upgrades from legacy Catalyst 6500 Series and supports long-term infrastructure investment.

## Line-Rate 10GbE Over Copper

Delivers full 1/10GBASE-T connectivity over copper, allowing organizations to maximize investment in existing cabling. This streamlines upgrades without massive rewiring, lowering TCO and deployment time.

## Advanced Management and Monitoring

Features support for comprehensive network management, including multiple protocols, centralized control, and real-time monitoring. Simplified deployment and troubleshooting boost network reliability and operational efficiency.

## Industry-Leading Density and Performance

Provides high port density in a compact 1U form factor, offering up to 1.44 Tbps throughput. It is designed to meet the needs of large-scale enterprise and service provider networks.

## Future-Ready for Virtualization

Optimized for virtualized and cloud environments, this switch enables automation, policy-based systems management, and seamless scaling for emerging networking demands and business growth.

# Technical Specifications

## Product Specifications

Feature	Value
Model	C1-N9K-C9372TX-E
Brand	Cisco
Form Factor	1U rack-mounted
Port Configuration	48 × 1/10G BASE-T (RJ45), 6 × 40G QSFP+ uplink
Switching Capacity	720 Gbps
Forwarding Rate	1.4 Tbps
Throughput	1.44 Tbps
Latency	<1 microsecond
Buffer	12 MB shared
Memory	16 GB
Flash Storage	8 GB
VLAN IDs	4,096
Jumbo Frames	9,216 bytes



Feature	Value
Management Port	1 × RJ-45
Console Port	1 × RS-232 serial
USB Port	1 × Type-A
Power Supply	Dual redundant
Fan Tray	Hot-swappable
Operating Temperature	0°C to 40°C (32°F to 104°F)

## Product Comparison

Feature	C1-N9K-C9372TX-E	C1-N9K-C92160-B18Q	C9407R-96U-BNDL-E
Port Configuration	48 × 1/10G BASE-T + 6 × 40G QSFP+	48 × 40G QSFP+	7 Slots, up to 384 × 25/40/100G
Switching Capacity	720 Gbps	7.2 Tbps	19.2 Tbps
Throughput	1.44 Tbps	5.76 Tbps	15 Bpps
Form Factor	1U fixed	2RU fixed	Chassis-based modular
Redundant Power	Yes	Yes	Yes
Hot-Swappable Fans	Yes	Yes	Yes
Stacking Capability	No (Standalone)	No (Standalone)	Yes (modular stacking support)
Management Options	NX-OS/ACI	NX-OS/ACI	NX-OS/ACI
Application Scenario	ToR/MoR/EoR, campus aggregation	High-density 40G spine/core	Large campus/data center core, modular expansion

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- Dual Power Supply</li> <li>- Mounting Brackets</li> <li>- Console Cable</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- 40G QSFP+ Module</li> <li>- SFP Transceivers</li> <li>- Spare Fan Tray</li> </ul>



## Support & Warranty



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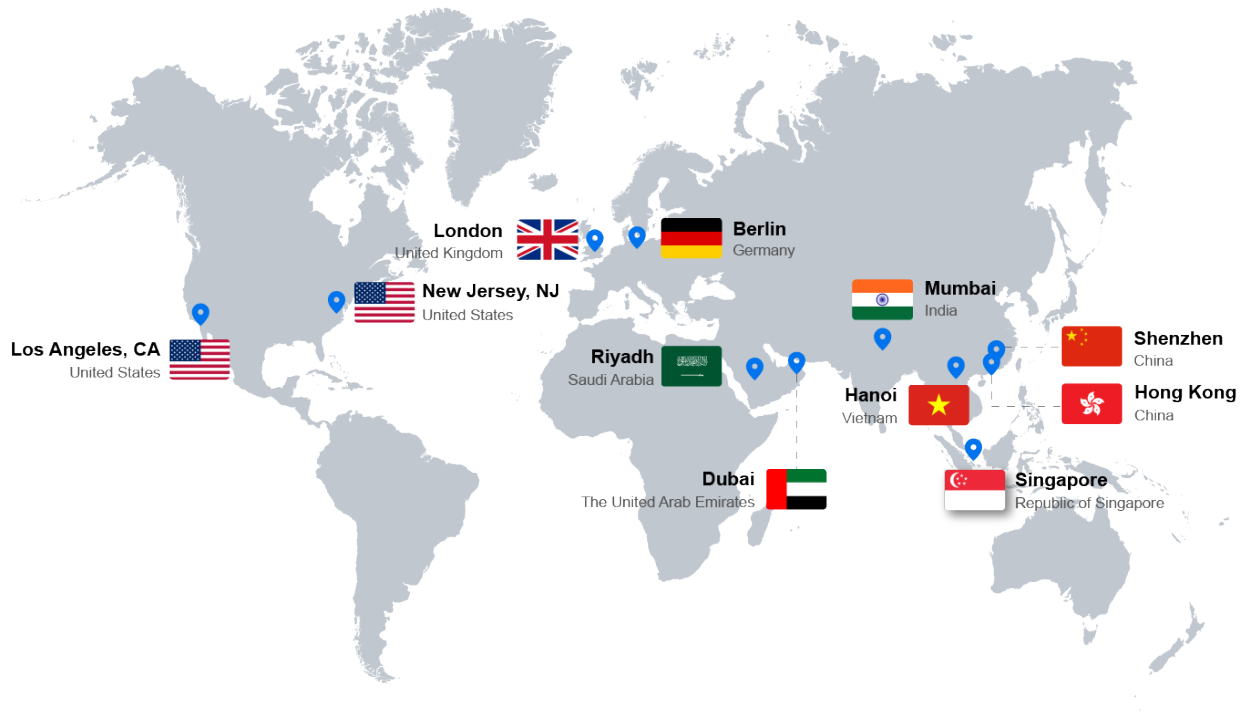
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## References

[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>