

BRAND NEW &amp; VERIFIED



## VERIFIED PRODUCT DATASHEET

**N9K-C9332C**

Cisco Network Hardware Specification, Availability and Quote Reference

<b>Product Model</b>	<b>N9K-C9332C</b>
<b>Document Type</b>	<b>Product Datasheet</b>
<b>Condition</b>	<b>Brand New, Original and Verifieded</b>
<b>Supplier</b>	<b>Layer23-Switch.com</b>

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## N9K-C9332C Datasheet

The Cisco N9K-C9332C datasheet provides verified specifications, key features, and application scenarios. This document helps engineers and IT buyers quickly evaluate the N9K-C9332C and integrate it into enterprise or service provider networks with confidence.

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### Key Features

#### Compact 100G spine for rapid scale-out

32 × QSFP28 40/100G in 1RU enables dense, power-efficient spines for VXLAN EVPN or ACI fabrics with minimal rack footprint.

#### Consistent core-link security

Wire-rate MACsec on the last eight QSFP28 ports secures leaf-to-spine or inter-POD links without throughput penalties.

#### Deterministic throughput and low jitter

6.4 Tbps, 4.4 bpps and 40 MB shared buffers keep queues shallow under fan-in bursts common to east-west traffic.

#### Operations made simple

No breakout, hot-swappable PSUs/fans, and dual OOB management shorten deployment time and streamline field service.

#### Programmable, fabric-agnostic design

Run NX-OS or ACI; integrate model-driven telemetry and open APIs to standardize Day-0 to Day-N workflows.

#### Efficient power profile

Typical 296 W (AC) helps reduce TCO across multi-chassis spines while maintaining headroom for feature growth.

## Specification

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Parameter	Specification	Parameter	Specification
<b>Model</b>	N9K-C9332C (Nexus 9300 Series)	<b>Product type</b>	Fixed 100G data center switch (leaf/spine capable)
<b>Front-panel ports</b>	32 × QSFP28 (100G/40G)	<b>Breakout options</b>	100G → 4×25G; 40G → 4×10G (where optics/cables supported)
<b>Optics &amp; cabling</b>	Cisco QSFP28/QSFP+ transceivers; DAC/AOC supported	<b>Max fan-out density</b>	Up to 128 × 25G via breakout
<b>Operating system</b>	Cisco NX-OS; ACI mode capable	<b>Overlay</b>	VXLAN EVPN (L2/L3), Anycast Gateway
<b>Layer 3 features</b>	BGP, OSPF, IS-IS, PBR, uRPF, Multicast (PIM/IGMP/MLD)	<b>Security</b>	CoPP, uACLs, 802.1X; MACsec on select ports/SKUs
<b>Timing</b>	IEEE 1588v2 PTP, SyncE (profile dependent)	<b>Telemetry</b>	Streaming telemetry, ERSPAN, sFlow/NetFlow (IPFIX)
<b>QoS &amp; buffers</b>	PFC, ECN, DWRR; per-queue shaping/policing	<b>Automation</b>	NX-API/REST, gNMI, Ansible; on-box Python (Guest Shell)
<b>Throughput/latency</b>	Line-rate on all ports; low-microsecond latency	<b>Use cases</b>	Leaf/spine for 25/40/100G fabrics; high-density 25G via breakout
<b>Management interfaces</b>	1 × OOB 10/100/1000 RJ-45 mgmt; USB/RJ-45 console	<b>Storage/CPU</b>	On-box SSD/eMMC; multi-core CPU (platform-specific)
<b>Chassis</b>	1RU fixed chassis; standard 19-inch rack mount	<b>Airflow</b>	Front-to-Back or Back-to-Front (-B/-F SKUs)
<b>Power supplies</b>	Dual hot-swappable PSUs (AC 100–240 VAC or –48 VDC)	<b>Cooling</b>	N+1 hot-swappable fan trays
<b>Environment</b>	0°C–40°C operating; 5%–95% RH non-condensing (typical)	<b>Compliance</b>	RoHS/REACH; regional safety & EMC certifications
<b>Licensing (NX-OS)</b>	Essentials / Advantage feature tiers	<b>Ordering PID</b>	N9K-C9332C

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