

BRAND NEW &amp; VERIFIED



## VERIFIED PRODUCT DATASHEET

# C9500-32QC-A

Cisco Network Hardware Specification, Availability and Quote Reference

<b>Product Model</b>	<b>C9500-32QC-A</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>

<b>200+</b> Countries Sold	<b>18,000+</b> Customers Trusted	<b>\$20M</b> Inventory Available	<b>1-Year</b> Warranty Support
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## C9500-32QC-A Datasheet

The Cisco C9500-32QC-A datasheet provides verified specifications, key features, and application scenarios. This document helps engineers and IT buyers quickly evaluate the C9500-32QC-A and integrate it into enterprise or service provider networks with confidence.

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## Key Features

### Dual-Mode 40G/100G Core Performance

Operates as either 32×40G or 16×100G QSFP28 interfaces, allowing flexible transition to 100G backbones without hardware replacement.

### Advanced Routing and Segmentation

Supports MPLS L3VPN, EVPN, VRF-Lite, and Segment Routing for scalable multi-tenant and service-provider deployments.

### StackWise Virtual Resiliency

Two switches act as one logical unit, delivering SSO / ISSU failover and non-stop operation in mission-critical networks.

### Secure Infrastructure

Secure Boot, Trust Anchor, and MACsec-256 encryption ensure end-to-end integrity and data protection.

### Programmable and SDN-Ready

Cisco IOS XE and UADP 3.0 enable model-driven telemetry and open APIs for DNA Center and automation platforms.

### Compact 1RU Design with Serviceability

Dual hot-swappable PSUs and modular fan trays simplify maintenance and reduce downtime in dense data-center racks.

## Components Delivered in the Shipping Box

The shipping box contains the model of the switch you ordered and other components needed for installation. Some components are optional, depending on your order.

1	Cisco Catalyst 9500 Series switch with optional network module <sup>1</sup> (power supply and fan modules not shown)	7	Eight number-8 Phillips flat-head 0.312" long screws
2	Product documentation and compliance document	8	Two M4.0 x 20mm Phillips pan-head screws (Black color)
3	Two 19-inch mounting brackets	9	Ground lug and two M4.0 x 8mm Phillips pan-head screws
4	Two Cable guides	10	(Optional) AC power cord <sup>2</sup>
5	Four number-12 pan-head 0.50" long screws	11	(Optional) RJ-45 console cable <sup>1</sup>
6	Four number-10 pan-head 0.625" long screws	12	(Optional) USB console cable <sup>1</sup>



## Specification

Parameter	Specification	Parameter	Specification
Model / License	C9500-32QC-A (Network Advantage)	Family	Catalyst 9500 High-Performance Series
Physical Ports	32 x QSFP28 slots	Logical Modes	32 x 40G or 16 x 100G (active profile)
Port Type	QSFP+/QSFP28, supports Cisco-qualified optics	Breakout	QSFP+ → 4x10G / QSFP28 → 4x25G (as supported)
ASIC	Cisco UADP 3.0 programmable ASIC	Architecture	Line-rate non-blocking switching
Switching Capacity	3.2 Tbps (full duplex)	Forwarding Rate	1 Bpps (64-byte frames)
MAC Address Table	Up to 64 000 entries	IPv4 / IPv6 Routes	256 000 each (direct + indirect)
VLAN IDs	4094	Jumbo Frames	9216 bytes
Routing Features	MPLS L3VPN, EVPN, VRF-Lite, Segment Routing	Dynamic Protocols	BGP, OSPF, IS-IS, EIGRP
High Availability	StackWise Virtual (SSO / ISSU)	Virtual Chassis	Two devices act as one logical system
Security	Trust Anchor, Secure Boot, MACsec-256	QoS	Hierarchical QoS, two-level scheduling
Automation	NETCONF, RESTCONF, gNMI, Model-Driven Telemetry	Management	Cisco Catalyst Center / Meraki Cloud Monitoring
Operating System	Cisco IOS XE 16.8.1a or later	Licensing	Smart License – Network Advantage / DNA Subscription

Parameter	Specification	Parameter	Specification
Power Supply Slots	2 × hot-swappable PSUs (1+1 redundant)	Typical PSU Option	C9K-PWR-650WAC-R (front-to-back airflow)
Fan Modules	FRU fan trays (C9K-T1-FANTRAY × 4)	Airflow	Front-to-Back
Dimensions (H×W×D)	1.73 × 17.5 × 21.2 in (4.39 × 44.45 × 53.8 cm)	Weight	≈ 11.4 kg (fully loaded)
Environment	0–40 °C; 10–95 % RH (non-condensing)	Warranty	Enhanced Limited Lifetime (E-LLW)

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## Why Layer23-Switch.com

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