

BRAND NEW & VERIFIED



VERIFIED PRODUCT DATASHEET

C9500-32QC-E

Cisco Network Hardware Specification, Availability and Quote Reference

Product Model	C9500-32QC-E
Document Type	Product Datasheet
Condition	Brand New, Original and Verifieded
Supplier	Layer23-Switch.com

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C9500-32QC-E Datasheet

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

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Key Features

Hybrid 40G/100G Core Platform

Single switch can be deployed as a 32×40G aggregation box or as a 16×100G core switch, giving you flexibility to migrate to 100G without replacing hardware.

UADP 3.0 High-Performance Silicon

Programmable ASIC delivers line-rate forwarding, rich QoS and ACL handling, plus telemetry support for real-time visibility.

StackWise Virtual Resiliency

Two C9500-32QC units can operate as one logical system, providing multichassis redundancy and simplified core design.

Secure, Trusted Infrastructure

Secure Boot, Trust Anchor module and MACsec-256 encryption protect both control plane and high-speed backbone links.

Automation-Ready IOS XE

Open APIs (NETCONF/RESTCONF/gNMI) and model-driven telemetry integrate with Cisco Catalyst Center or third-party controllers for intent-based networking.

Serviceable 1RU Design

Dual PSU slots, FRU fan trays and front-to-back airflow simplify maintenance and deployment in dense 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 ¹ (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 ²
5	Four number-12 pan-head 0.50" long screws	11	(Optional) RJ-45 console cable ¹
6	Four number-10 pan-head 0.625" long screws	12	(Optional) USB console cable ¹



Specification

Parameter	Specification	Parameter	Specification
Model / License	C9500-32QC-E (Network Essentials)	Family	Catalyst 9500 High-Performance Series
Physical Ports	32 x QSFP28 slots	Logical Config	32 x 40G **or** 16 x 100G (profile-based)
Port Types	40G QSFP+ / 100G QSFP28, Cisco-qualified optics	Breakout	Per supported transceiver/cable (see Cisco optics matrix)
ASIC	Cisco UADP 3.0 programmable ASIC	Architecture	Line-rate, non-blocking switching
Switching Capacity	Up to 3.2 Tbps	Forwarding Rate	Up to 1 Bpps (64-byte frames)
MAC Address Table	Up to 64,000 entries	IPv4 / IPv6 Routes	Up to 256,000 each (direct + indirect)
VLAN IDs	4094	Jumbo Frames	9,216 bytes
High Availability	StackWise Virtual, SSO, ISSU supported	Virtual Chassis	Two switches operate as one logical system
Routing Features	Static, OSPF, EIGRP, BGP, IS-IS (per Essentials)	Multicast	PIM-SM/SSM, IGMP, MSDP (license dependent)
Security	Secure Boot, Trust Anchor, MACsec-256	Compliance	Enterprise safety & EMC standards (UL/CE/FCC Class A)

Parameter	Specification	Parameter	Specification
Automation	NETCONF, RESTCONF, gNMI, model-driven telemetry	Management	Cisco Catalyst Center / Meraki Cloud Monitoring
Operating System	Cisco IOS XE (16.8.x or later recommended)	Licensing	Smart Licensing - Network Essentials / DNA subscription
Power Supply Slots	2 × hot-swappable PSU bays	Typical PSUs	Dual 650W AC (1+1 redundancy, region-specific options)
Fan Modules	Field-replaceable fan trays, front-to-back airflow	MTBF	≈ 336,780 hours (nominal, system level)
Dimensions (H×W×D)	1.73 × 17.5 × 21.2 in (4.39 × 44.45 × 53.8 cm)	Weight	≈ 11.4 kg (with 2 PSUs & fans)
Environment	0-40 °C; 10-95% RH (non-condensing)	Warranty	Enhanced Limited Lifetime Warranty (E-LLW)

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