

# C9500-32QC-A Datasheet

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## Overview

C9500-32QC-A is a Cisco Catalyst 9500 Series high performance 32-port 40G switch, NW Adv. License. The Cisco Catalyst 9500 Series Switches are the next generation of enterprise-class core and aggregation layer switches, supporting full programmability and serviceability. Based on an x86 CPU, the Catalyst 9500 Series is Cisco's lead purpose-built fixed core and aggregation enterprise switching platform, built for security, IoT, and cloud. The Catalyst 9500 Series is the industry's first purpose-built 40 Gigabit Ethernet line of switches targeted for the enterprise campus.

## Quick Specs

Table 1 shows the Quick Specs.

<b>Product Code</b>	C9500-32QC-A
<b>Description</b>	Cisco Catalyst 9500 Series high performance 32-port 40G switch, NW Adv. License
<b>Switching capacity</b>	Up to 3.2 Tbps
<b>Forwarding rate</b>	Up to 1 Bpps
<b>DRAM</b>	16 G
<b>Flash</b>	16 G
<b>Dimensions (H x W x D)</b>	1.73 x 17.5 x 18.0 in
<b>Rack units (RU)</b>	1RU

## Product Details

### Catalyst 9500 100/40-G 32-port switches: C9500-32C, C9500-32QC

- 32 ports of 100 G and 40 G with rich campus features
- Industry-first 100 G and 40 G enterprise-class switch
- High performance, QSFP+
- Secure segmentation with SD-Access
- MPLS L2/L3 VPNs, MVPN; flexible design templates
- Enhanced Limited Lifetime Warranty (E-LLW)

## The Accessories

Table 2 shows the recommended elements for the C9500-32QC-A.

<b>Category</b>	<b>Model</b>	<b>Description</b>
<b>License</b>	<b>C9500-DNA-E-3Y</b>	Catalyst 9500 NW & DNA Essentials. license (3Y) for 24Q, 40X, 32C, 32QC, 48Y4C SKU
	<b>C9500-DNA-E-5Y</b>	Catalyst 9500 NW & DNA Essentials. license (5Y) for 24Q, 40X, 32C, 32QC, 48Y4C SKU
	<b>C9500-DNA-E-7Y</b>	Catalyst 9500 NW & DNA Essentials. license (7Y) for 24Q, 40X, 32C, 32QC, 48Y4C SKU
	<b>C9500-DNA-A-3Y</b>	Catalyst 9500 NW & DNA Advantage license (3Y) for 24Q, 40X, 32C, 32QC, 48Y4C SKU
	<b>C9500-DNA-A-5Y</b>	Catalyst 9500 NW & DNA Advantage license (5Y) for 24Q, 40X, 32C, 32QC, 48Y4C SKU
	<b>C9500-DNA-A-7Y</b>	Catalyst 9500 NW & DNA Advantage license (7Y)

<b>Module</b>	C9500-NM-2Q	Cisco Catalyst 9500 2 x 40GE Network Module
	C9500-NM-8X	Cisco Catalyst 9500 8 x 10GE Network Module

## Compare to Similar Item

Table 3 shows the comparison.

Product Code	C9500-32QC-E	C9500-32QC-A
<b>Description</b>	Cisco Catalyst 9500 Series high performance 32-port 40G switch, NW Ess. License	Cisco Catalyst 9500 Series high performance 32-port 40G switch, NW Adv. License
<b>Switching capacity</b>	Up to 3.2 Tbps	Up to 3.2 Tbps
<b>Forwarding rate</b>	Up to 1 Bpps	Up to 1 Bpps
DRAM	16 G	16 G
<b>Flash</b>	16 G	16 G
<b>Dimensions (H x W x D)</b>	1.73 x 17.5 x 18.0 in	1.73 x 17.5 x 18.0 in
<b>Rack units (RU)</b>	1RU	1RU

## Get more information

Do you have any question about the C9500-32QC-A?

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## Specification

<b>C9500-32QC-A Specification</b>	
<b>Performance specifications</b>	
Switching capacity	Up to 3.2 Tbps
Forwarding rate	Up to 1 Bpps
Total number of MAC addresses	Up to 82,000
Total number of IPv4 routes (Address Resolution Protocol [ARP] plus learned routes)	Up to 212,000 indirect + direct Up to 90,000 host/ARP
Total number of IPv6 routes	Up to 212,000 indirect + direct Up to 90,000 host
QoS ACL scale	Up to 16000
Security ACL scale	Up to 27000
FNF entries	Up to 98,000
DRAM	16 GB
Flash	16 GB
VLAN IDs	4000
Total Switched Virtual Interfaces (SVIs)	4000
Jumbo frame	9216 bytes

Power supply specifications	
Power Supply Selection	C9K-PWR-650WAC-R or C9K-PWR-930WDC-R
Dimensions, physical specifications, weight, and MTBF	
Dimensions (H x W x D)	1.73 x 17.5 x 21.2 in
Rack units (RU)	1 RU
Input voltage	90 to 264 VAC
Operating temperature	32° to 104°F (0° to 40°C)
Storage temperature	-4° to 149°F (-20° to 65°C)
Relative humidity operating and nonoperating noncondensing	Ambient (noncondensing) operating: 5% to 90% Ambient (noncondensing) nonoperating and storage: 5% to 95%
Altitude	Operation up to 13,000 feet at 40°C
MTBF (hours)	307,200

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### Selection Decision

 [Cisco's New Switch Selection Decision 2018](#)

### Support and Resources

 [Cisco Catalyst 9000 Switches Comparison: 9200 vs 9300 vs 9400 vs 9500](#)

 [Cisco Catalyst 9500 Switch Datasheet](#)

### Transition Guide

 [Guide to Upgrade Cisco Access and Backbone Switch](#)

 [Selecting Cisco Switches-Campus, Branch, Digital Building](#)

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