

# C9500-24Y4C-A Datasheet

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## Overview

C9500-24Y4C-A is a Cisco Catalyst 9500 Series high performance 24-port 1/10/25G 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.

Product Code	C9500-24Y4C-A
Description	Cisco Catalyst 9500 Series high performance 24-port 1/10/25G switch, NW Adv. License
Switching capacity	Up to 2.0 Tbps
Forwarding rate	Up to 1 Bpps
DRAM	16 G
Flash	16 G
Dimensions (H x W x D)	1.73 x 17.5 x 18.0 in
Rack units (RU)	1RU

### Product Details

Catalyst 9500 25-G 24- and 48-port switches: C9500-24Y4C, C9500-48Y4C

- 24 and 48 ports of 25 G with rich campus features
- Cisco innovation extending SR reach to 300 million
- High performance, SFP28
- Secure segmentation with SD-Access
- MPLS Level 2/3 VPNs, MVPN; flexible design templates
- Enhanced Limited Lifetime Warranty (E-LLW)

### Compare to Similar Item

Table 2 shows the comparison.

Product Code	<a href="#">C9500-16X-A</a>	<a href="#">C9500-24Y4C-A</a>
Description	Catalyst 9500 16-port 10Gig switch, with Network Advantage	Cisco Catalyst 9500 Series high performance 24-port 1/10/25G switch, NW Adv. License
Switching capacity	Up to 480 Gbps	Up to 2.0 Tbps
Forwarding rate	Up to 360 Mpps	Up to 1 Bpps
DRAM	16 G	16 G
Flash	16 G	16 G
Dimensions (H x W x D)	1.73 x 17.5 x 21.52 in	1.73 x 17.5 x 18.0 in
Rack units (RU)	1 RU	1RU

### Product Details

Table 1 shows the models list.

SKU	Description
<a href="#">C9300L-24T-4G-E</a>	Catalyst 9300 24-port fixed uplinks data only, 4X1G uplinks, Network Essentials
<a href="#">C9300L-24T-4G-A</a>	Catalyst 9300 24-port fixed uplinks data only, 4X1G uplinks, Network Advantage
<a href="#">C9300L-24P-4G-E</a>	Catalyst 9300 24-port fixed uplinks PoE+, 4X1G uplinks, Network Essentials
<a href="#">C9300L-24P-4G-A</a>	Catalyst 9300 24-port fixed uplinks PoE+, 4X1G uplinks, Network Advantage
<a href="#">C9300L-48T-4G-E</a>	Catalyst 9300 48-port fixed uplinks data only, 4X1G uplinks, Network Essentials
<a href="#">C9300L-48T-4G-A</a>	Catalyst 9300 48-port fixed uplinks data only, 4X1G uplinks, Network Advantage
<a href="#">C9300L-48P-4G-E</a>	Catalyst 9300 48-port fixed uplinks PoE+, 4X1G uplinks, Network Essentials
<a href="#">C9300L-48P-4G-A</a>	Catalyst 9300 48-port fixed uplinks PoE+, 4X1G uplinks, Network Advantage
<a href="#">C9300L-48PF-4G-E</a>	Catalyst 9300 48-port fixed uplinks Full PoE+, 4X1G uplinks, Network Essentials
<a href="#">C9300L-48PF-4G-A</a>	Catalyst 9300 48-port fixed uplinks Full PoE+, 4X1G uplinks, Network Advantage
<a href="#">C9300L-24T-4X-E</a>	Catalyst 9300 24-port fixed uplinks data only, 4X10G uplinks, Network Essentials
<a href="#">C9300L-24T-4X-A</a>	Catalyst 9300 24-port fixed uplinks data only, 4X10G uplinks, Network Advantage
<a href="#">C9300L-24P-4X-E</a>	Catalyst 9300 24-port fixed uplinks PoE+, 4X10G uplinks, Network Essentials
<a href="#">C9300L-24P-4X-A</a>	Catalyst 9300 24-port fixed uplinks PoE+, 4X10G uplinks, Network Advantage
<a href="#">C9300L-48T-4X-E</a>	Catalyst 9300 48-port fixed uplinks data only, 4X10G uplinks, Network Essentials
<a href="#">C9300L-48T-4X-A</a>	Catalyst 9300 48-port fixed uplinks data only, 4X10G uplinks, Network Advantage
<a href="#">C9300L-48P-4X-E</a>	Catalyst 9300 48-port fixed uplinks PoE+, 4X10G uplinks, Network Essentials
<a href="#">C9300L-48P-4X-A</a>	Catalyst 9300 48-port fixed uplinks PoE+, 4X10G uplinks, Network Advantage
<a href="#">C9300L-48PF-4X-E</a>	Catalyst 9300 48-port fixed uplinks Full PoE+, 4X10G uplinks, Network Essentials
<a href="#">C9300L-48PF-4X-A</a>	Catalyst 9300 48-port fixed uplinks Full PoE+, 4X10G uplinks, Network Advantage

# Specification

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C9500-24Y4C-A Specification	
Performance specifications	
Switching capacity	Up to 2.0 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 18.0 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)	336,780

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