Overview

C9500-16X-A is a Catalyst 9500 16-port 10Gig switch, with Network Advantage. 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 Specification

Table 1 shows the quick specification.

Model	C9500-16X-A
Description	Catalyst 9500 16-port 10Gig switch, with Network Advantage
Switching capacity	Up to 480 Gbps
Forwarding rate	Up to 360 Mpps
DRAM	16 G
Flash	16 G
Dimensions (H x W x D)	1.73 x 17.5 x 21.52 in
Rack units (RU)	1 RU

Figure 1 shows the appearance of the C9500-16X-A.

Product Details

Highlights of Catalyst 9500 1/10-G 16- and 40-port switches: C9500-16X, C9500-48X

- 16 to 40 ports of 1/10 G with rich campus features
- SFP/SFP+, 8 x 1/10 G or 2 x 40 G uplinks

● Secure segmentation with SD-Access

● MPLS Level 2/3 VPNs, MVPN; flexible design templates

● Enhanced Limited Lifetime Warranty (E-LLW)

Compare to Similar Items

Table 3 shows the comparison of similar items.

Model	C9500-16X-A	C9500-32C-A
Description	Catalyst 9500 16-port 10Gig switch, with Network Advantage	Cisco Catalyst 9500 Series high performance 32-port 100G switch, NW Adv. License
Switching capacity	Up to 480 Gbps	Up to 6.4 Tbps
Forwarding rate	Up to 360 Mpps	Up to 2 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 21.2 in
Rack units (RU)	1 RU	1RU

Get More Information

Do you have any questions about the C9500-16X-A?

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Specification

C9500-16X-A Datasheet	
Performance specifications	
Switching capacity	Up to 480 Gbps
Forwarding rate	Up to 360 Mpps
Total number of MAC addresses	Up to 64,000
Total number of IPv4 routes (Address Resolution Protocol [ARP] plus learned routes)	Up to 64,000 indirect Up to 80,000 host
Total number of IPv6 routes	Up to 32,000 indirect Up to 40,000 host
QoS ACL scale	Up to 18000
Security ACL scale	Up to 18000

FNF entries	Up to 512,000
DRAM	16 GB
Flash	16 GB
VLAN IDs	4000
Total Switched Virtual Interfaces (SVIs)	4000
Jumbo frame	9198 bytes
Power supply specifications	
Power Supply Selection	PWR-C4-950WAC-R or PWR-C4-950WDC-R
Power max rating	950 W
Dimensions, physical specifications, weight, and MTBF	
Dimensions (H x W x D)	1.73 x 17.5 x 21.52 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 6000 feet at 55°C and 13,000 feet at 45°C
MTBF (hours)	315,790

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