C9500-40X-A Datasheet

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Overview

C9500-40X-A is one of the the Cisco Catalyst 9500 Series Switches. 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	C9500-40X-A
Description	Catalyst 9500 40-port 10Gig switch, Network Advantage
Switching capacity	Up to 960 Gbps
Forwarding rate	Up to 720 Mpps
AC power max rating	950W
System power consumption	850W max
Dimensions (H x W x D)	1.73 x 17.5 x 21.52 in
Rack units (RU)	1 RU

The Accessories

Table 2 shows the recommended elements for theC9300-24P-A.

Product number	Description
C9300-NM-4G	9300 Series 4x 1G Network Module
C9300-NM-4G=	Catalyst 9300 4 x 1GE Network Module, spare
C9300-NM-8X	9300 Series 8x 10G Network Module
C9300-NM-8X=	Catalyst 9300 8 x 10GE Network Module, spare
C9300-NM-2Q	9300 Series 2x 40G Network Module
C9300-NM-2Q=	Catalyst 9300 2 x 40GE Network Module, spare
C9300-NM-4M	9300 Series 4x Multigigabit Network Module
C9300-NM-4M=	Catalyst 9300 4 x MGig Network Module, spare

Compare to Similar Items

Table 3 shows the comparison.

Model	Description
C9200-48T-A	Catalyst 9200 48-port Data Switch, Network Advantage
C9200-48T-E	Catalyst 9200 48-port Data Switch, Network Essentials
C9200-48P-A	Catalyst 9200 48-port PoE+ Switch, Network Advantage
C9200-48P-E	Catalyst 9200 48-port PoE+ Switch, Network Essentials

Specification

C9500-40X-A specifications	
Performance specifications	
Switching capacity	Up to 960 Gbps
Forwarding rate	Up to 720 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 32,000 host*
Total number of IPv6 routes	Up to 32,000 indirect* Up to 16,000 host*
Multicast scale	Up to 48,000*
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 Feature	Support in the Catalyst 9500 Series
AC power max rating	950W
System power consumption	850W max
Input-voltage range and frequency	AC 115 to 230 VAC, 50 to 60 Hz
Power supply efficiency	94%
Total output BTU (Note: 1000 BTU/hr = 293W)	2901 BTU/hr (850W) max
Input current	AC 10A at 115VAC, 5 A at 230VAC
Output ratings	12V at 79A, 12V at 3A
Output holdup time	AC = 10 ms at maximum load
Power-supply input receptacles	AC IEC 60320 C16
Power cord rating	AC 15A
Dimensions, physical specifications, and MTBF	
Description	Specifications
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°F 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 ft
MTBF (hours)	180,640

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