

C9500-12Q-E Datasheet

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Overview

C9500-12Q-E 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

Figure 1 shows the appearance of C9500-12Q-E.

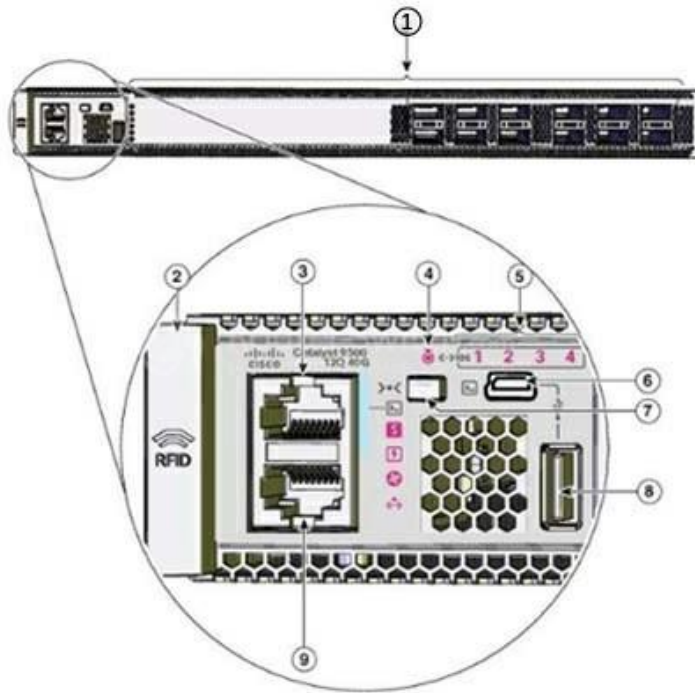


Table 1 shows the Quick Specs.

Product Code	C9500-12Q-E
Description	Catalyst 9500 12-port 40G switch, Network Essentials
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

Product Details

Figure 2 shows the front panel of C9500-12Q-E.



Note:

(1)	12 40G QSFP ports	(6)	USB mini Type B console port
(2)	RFID	(7)	Mode button
(3)	Console port (RJ-45 Serial)	(8)	USB 2.0 host port
(4)	Blue beacon LED	(9)	Ethernet management RJ-45 port
(5)	10G Status LEDs		

The Modules, Cards, Licenses

Table 2 shows the recommended elements for the C9500-12Q-E.

Category	Model	Description
SOFTWARE SUBSCRIPTION	C9500-DNA-12Q-E	C9500 DNA Advantage, Term licenses
	C9500-DNA-L-E-5Y	Catalyst 9500 NW & DNA Essentials. low port density license (5Y) for 12P40G SKU
Power Supply	PWR-C4-950WAC-R	950W AC Config 4 Power Supply front to back cooling
	PWR-C4-950WAC-R/2	950W AC Config 4 Power Supply front to back cooling
Console Cables	CAB-CONSOLE-RJ45	Cisco CAB-CONSOLE-RJ45 Console Cable 6ft with RJ45 and DB9F
	CAB-CONSOLE-USB	Cisco CAB-CONSOLE-USB Console Cable 6 ft with USB Type A and mini-B

Get More Information

Do you have any question about the Cisco C9500-12Q-E?

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Specification

C9500-12Q-E 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
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)	179,660
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

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Selection Decision

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

Support and Resources

 [Cisco Catalyst 9500 Switch Datasheet](#)

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

Transition Guide

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

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

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