

## 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.

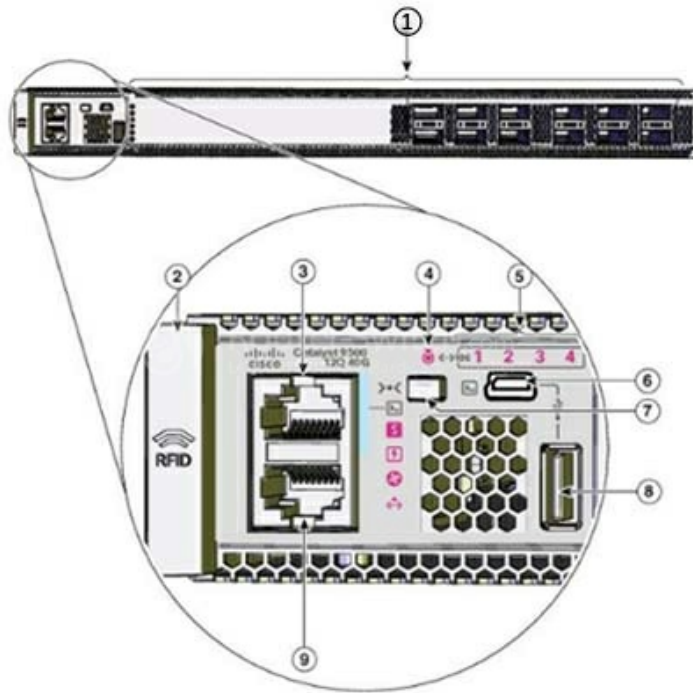


Table 1 shows the Quick Specs.

<b>Product Code</b>	C9500-12Q-E
<b>Description</b>	Catalyst 9500 12-port 40G switch, Network Essentials
<b>Switching capacity</b>	Up to 480 Gbps full duplex
<b>Forwarding rate</b>	Up to 720 Mpps
<b>AC power max rating</b>	950W
<b>System power consumption</b>	850W max
<b>Dimensions (H x W x D)</b>	1.73 x 17.5 x 21.52 in
<b>Rack units (RU)</b>	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	<a href="#">C9500-DNA-12Q-E</a>	C9500 DNA Advantage, Term licenses
	<a href="#">C9500-DNA-L-E-5Y</a>	Catalyst 9500 NW & DNA Essentials. low port density license (5Y) for 12P40G SKU
Power Supply	<a href="#">PWR-C4-950WAC-R</a>	950W AC Config 4 Power Supply front to back cooling
	<a href="#">PWR-C4-950WAC-R/2</a>	950W AC Config 4 Power Supply front to back cooling
Console Cables	<a href="#">CAB-CONSOLE-RJ45</a>	Cisco CAB-CONSOLE-RJ45 Console Cable 6ft with RJ45 and DB9F
	<a href="#">CAB-CONSOLE-USB</a>	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 480 Gbps full duplex
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
Chassis with 2 power supplies and built-in fan	25.75 lb (11.68 kg)
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
<b>Power supply specifications</b>	
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

## Download Resource

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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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