

# N9K-C92160YC-X Datasheet

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## Overview

N9K-C92160YC-X is one of the Cisco Nexus 9200 switches. 92160YC-X Switch is optimized for Cisco NX-OS deployments. It provides 48 1/10/25-Gb host ports and up to six hybrid uplink ports that can be configured as 10, 25, 40, or 100-Gb ports. With 3.2 Tbps of switching capacity, the 92160YC-X delivers line-rate Layer 2 and 3 features for demanding enterprise, service provider hosting, and cloud computing environments.

## Quick Spec

Table 1 shows the quick spec.

Part Number	N9K-C92160YC-X
Ports	48 x 10- and 25-Gbps SFP+ and 6 QSFP+ ports (4 are 100-Gbps capable)
Supported speeds	1, 10, and 25 Gbps on SFP+ ports 10, 25, 40, and 100 Gbps on QSFP+ ports
Port configuration	48 x 10/25-Gbps ports for downlinks; 4 of the 6 uplink ports are 100-Gbps capable. Ports 50 and 52 can be individually configured into 1 x 100 Gbps, 4 x 10 Gbps, 4 x 25 Gbps, 1 x 40 Gbps, or 2 x 50 Gbps
CPU	2 cores
System memory	16G
SSD drive	24G
Shared system buffer	20MB
Management ports	2 ports: 1 RJ-45 and 1SFP
USB ports	1
RS-232 serial ports	1
Power supplies (up to 2)	650W AC, 930W DC, or 1200W AC/HVDC
Physical dimensions (H x W x D)	1.72 x 17.3 x 22.5 in. (4.4 x 43.9 x 57.1 cm)
Weight (without power supplies or fans)	14.12 lb (6.4 kg)

## Product Details

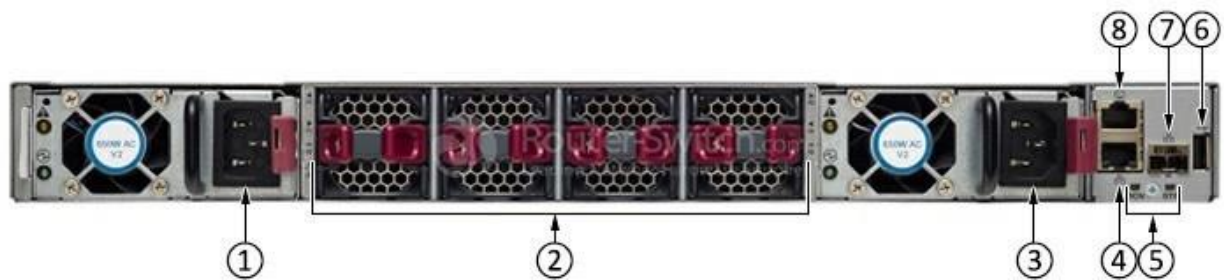
Figure 1 shows the front panel of N9K-C92160YC-X.



Note:

(1)	10-Gigabit SFP+ downlink ports (48) supporting 1-, 10-, and 25-Gigabit Ethernet
(2)	100-Gigabit QSFP28 uplink ports (6) supporting 40- and 100-Gigabit Ethernet

**Figure 2 shows the back panel of N9K-C92160YC-X.**



Note:

(1)	Power Supply	(5)	Chassis LEDs (Beacon [BCN] and Status [STS])
(2)	4 x Fan Module	(6)	USB port used for saving or copying functions
(3)	Power Supply	(7)	Out-of-band management port (SFP port)
(4)	Out-of-band management port (RJ-45 port)	(8)	Console port (RS232 port)

## Compare to Similar Item

Table 2 shows the comparison.

Part Number	N9K-C93180YC-EX	N9K-C92160YC-X
Ports	48 x 10/25-Gbps and 6 x 40/100-Gbps QSFP28 ports	48 x 10- and 25-Gbps SFP+ and 6 QSFP+ ports (4 are 100-Gbps capable)
CPU	4 cores	2 cores
System memory	24 GB	16G
SSD drive	64 GB	24G

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## Specification

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N9K-C92160YC-X Specification	
Ports	48 x 10- and 25-Gbps SFP+ and 6 QSFP+ ports (4 are 100-Gbps capable)
Supported speeds	1, 10, and 25 Gbps on SFP+ ports 10, 25, 40, and 100 Gbps on QSFP+ ports
Port configuration	48 x 10/25-Gbps ports for downlinks; 4 of the 6 uplink ports are 100-Gbps capable. Ports 50 and 52 can be individually configured into 1 x 100 Gbps, 4 x 10 Gbps, 4 x 25 Gbps, 1 x 40 Gbps, or 2 x 50 Gbps
CPU	2 cores
System memory	16G
SSD drive	24G
Shared system buffer	20MB
Management ports	2 ports: 1 RJ-45 and 1SFP
USB ports	1
RS-232 serial ports	1
Power supplies (up to 2)	650W AC, 930W DC, or 1200W AC/HVDC
Typical power (AC)	10-Gbps mode: 150W 25-Gbps mode: 170W
Maximum power (AC)	475W
Input voltage (AC)	100 to 240V
Input voltage (HVAC)	200 to 277V
Input voltage (DC)	-40 to -72V DC (minimum and maximum) -48 to -60V DC (nominal)
Input voltage (HVDC)	240 to 380V
Frequency (AC)	50 to 60 Hz
Fans	4
Airflow	Port-side intake and exhaust
MTBF (hours)	379,400
Physical (H x W x D)	1.72 x 17.3 x 22.5 in. (4.4 x 43.9 x 57.1 cm)
Acoustics	51.9 dBA at 40% fan speed, 56.2 dBA at 70% fan speed, and 66.0 dB at 100% fan speed
RoHS compliance	Yes
Number of longest prefix match (LPM) routes	Default: 6,000 LPM heavy mode: 650,000
Number of IP host entries	Default: 96,000 LPM heavy mode: 650,000

<b>Number of MAC address entries</b>	92,000
<b>Number of multicast routes</b>	Shipping: 8,000 Maximum: 32,000
<b>Number of Interior Gateway Management Protocol (IGMP) snooping groups</b>	Shipping: 8,000 Maximum: 32,000
<b>Number of access control list (ACL) entries</b>	Per slice of the forwarding engine: 4,000 ingress 2,000 egress Maximum: 8,000 ingress 4,000 egress Shipping: 7,164 ingress 3,580 egress
<b>Maximum number of VLANs</b>	3,967
<b>Number of Virtual Routing and Forwarding (VRF) instances</b>	Shipping: 1,000 Maximum: 16,000
<b>Maximum number of links in a Port Channel</b>	32
<b>Maximum number of ECMP paths</b>	64
<b>Maximum number of ECMP groups</b>	256
<b>Maximum number of ECMP members</b>	64,000
<b>Maximum number of Port Channels</b>	512
<b>Number of active SPAN sessions</b>	4
<b>Number of VLAN's in Rapid per-VLAN Spanning Tree (RPVST) instances</b>	3,967
<b>Number of Hot-Standby Router Protocol (HSRP) groups</b>	490
<b>Number of Multiple Spanning Tree (MST) instances</b>	64
<b>Maximum Number of VxLAN Tunnel Endpoints (VTEPs)</b>	256
<b>Operating temperature</b>	32 to 104°F (0 to 40°C)
<b>Nonoperating (storage) temperature</b>	-40 to 158°F (-40 to 70°C)
<b>Humidity</b>	5 to 95% (noncondensing)
<b>Altitude</b>	0 to 13,123 ft (0 to 4000m)
<b>Weight (without power supplies or fans)</b>	14.12 lb (6.4 kg)

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 [Cisco Nexus 9200 Switch Datasheet](#)

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