Overview

N9K-C92160YC-E X is one of the Cisco Nexus 9200 switches. 92160YC-E   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 con gured as 10, 25, 40, or 100-Gb ports. With 3.2 Tbps of switching capacity, the 92160YC-EX delivers line-rate Layer   2 and 3 features for demanding enterprise, service provider hosting, and cloud computing environments.
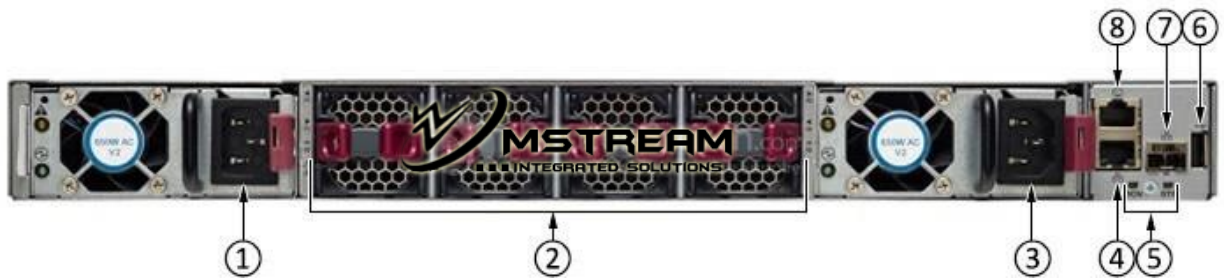
Quick Spec

Part Number	N9K-C92160YC-EX
Ports	48 x 10 - and 25-Gbps SFP+ and 6 x 40/100-Gbps QSFP28 ports
Supported speeds	1, 10, and 25 Gbps on SFP+ ports 10, 25, 40, and 100 Gbps on QSFP28 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	4 cores
System memory	24G
SSD drive	64G
Shared system buffer	40MB
Management ports	2 ports: 1 RJ45 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)	14.4 x 43.9 x 57.1 cm
Weight (without power supplies or fans)	7.8 kg

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-E   X.

(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

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

Specification

N9K -C92160YC-EX Specification	
Ports	48 x 10 - and 25-Gbps SFP+ and 6 QSFP28 ports
Supported speeds	1, 10, and 25 Gbps on SFP+ ports 10, 25, 40, and 100 Gbps on QSFP28 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	4 cores
System memory	24G
SSD drive	64G
Shared system buffer	40MB
Management ports	2 ports: 1 RJ45 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)	14.4 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

Number of MAC address entries	92,000
Number of multicast routes	Shipping: 8,000 Maximum: 32,000
Number of Interior Gateway Management Protocol (IGMP) snooping groups	Shipping: 8,000 Maximum: 32,000
Number of access control list (ACL) entries	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
Maximum number of VLANs	3,967
Number of Virtual Routing and Forwarding (VRF) instances	Shipping: 1,000 Maximum: 16,000
Maximum number of links in a Port Channel	32
Maximum number of ECMP paths	64
Maximum number of ECMP groups	256
Maximum number of ECMP members	64,000
Maximum number of Port Channels	512
Number of active SPAN sessions	4
Number of VLAN's in Rapid per-VLAN Spanning Tree (RPVST) instances	3,967
Number of Hot-Standby Router Protocol (HSRP) groups	490
Number of Multiple Spanning Tree (MST) instances	64
Maximum Number of VxLAN Tunnel Endpoints (VTEPs)	256
Operating temperature	32 to 104°F (0 to 40 °C)
Nonoperating (storage) temperature	-40 to 158°F (-40 to 70 °C)
Humidity	5 to 95% (noncondensing) 0 to 13,123 ft (0 to 4000m)
Altitude	
Weight (without power supplies or fans)	7.8 kg