

N9K-C9396PX Datasheet

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Overview

N9K-C9396PX is the Nexus 9300 with 48p 1/10G SFP+ and 12p 40G QSFP. The Cisco Nexus 9300 platform consists of fixed-port switches designed for top-of-rack (ToR) and middle-of-row (MoR) deployment in data centers that support enterprise applications, service provider hosting, and cloud computing environments. They are Layer 2 and 3 nonblocking 10 and 40 Gigabit Ethernet switches with up to 2.56 terabits per second (Tbps) of internal bandwidth.

Quick Specs

Table 1 shows the Quick Specs.

Product Code	N9K-C9396PX
Ports	48 fixed SFP+ ports
Supported speeds	1/10 Gigabit Ethernet speeds
40 Gigabit Ethernet uplink ports	6 or 12 QSFP+ ports active through the uplink module
Physical (H x W x D)	3.5 x 17.5 x 22.5 in. (8.9 x 44.5 x 57.1 cm)
Weight	22.45 lb (10.2 kg) (without power supplies, fans, or uplink module)

Product Details

Table 2 shows Cisco Nexus 9300 Platform Switch Features.

Feature	Benefit
Predictable high performance	Latency of 1 to 2 microseconds with up to 1.28 Tbps of bandwidth enables customers to build a robust switch fabric scaling from as few as 200 10-Gbps server ports to more than 200,000 10-Gbps server ports.
Increased integrated buffer space	Up to a total of 50 MB of integrated shared buffer space allows better management of speed mismatch between access and uplink ports.
Designed for availability	Hot-swappable, redundant power supplies and fan trays increase availability.
Flexible airflow configuration	Port-side intake and port-side exhaust airflow configurations are both supported.
CPU, SSD, and memory	Dual-core 2.5-GHz x86 CPUs with 64-GB SSD drive and 16 GB of memory provide enhanced network performance.
Power efficiency	All Cisco Nexus 9000 Series power supplies are 80 Plus Platinum rated.
Advanced optics	Cisco offers a pluggable 40 Gigabit Ethernet QSFP+ transceiver that enables customers to use existing 10 Gigabit Ethernet data center cabling to support 40 Gigabit Ethernet connectivity. This technology facilitates adoption of 40 Gigabit Ethernet with no cable infrastructure upgrade cost.

The Accessories

Table 3 shows the supported accessories.

Model	Description
N9K-M6PQ-E	Uplink Module for Nexus 9300, 6p 40G QSFP



N9K-M6PQ	Uplink Module for Nexus 9300, 6p 40G QSFP
N9K-M12PQ	Uplink Module for Nexus 9300, 12p 40G QSFP
N9K-M4PC-CFP2	Uplink Module for Nexus 9300, 4p 100G
UCSC-PSU-930WDC	Nexus 9000 930W DC PS, Port-side Intake
UCS-PSU-6332-DC	Nexus 9000 930W DC PS, Port-side Exhaust
N9K-PUV-1200W	Nexus 9300 1200W Universal Power Supply, Bi-directional air flow and Supports AC/HVDC
N9K-C9300-FAN2	Nexus 93128 & 9396 Fan 2, Port-side Intake
N9K-C9300-FAN2-B	Nexus 93128 & 9396 Fan 2, Port-side Exhaust
NXA-FAN-30CFM-F	Nexus 2K/3K/9K Single Fan for 1RU switch, port side exhaust airflow
NXA-FAN-30CFM-B	Nexus 2K/3K/9K Single Fan for 1RU switch, port side intake airflow
N93-LAN1K9=	Enhanced L3 including full OSPF, EIGRP, BGP for Nexus 9200/9300 Platform

Compare to Similar Items

Table 4 shows the comparison.

Product Code	N9K-C92304QC	N9K-C9396PX
Ports	56 x 40-Gbps QSFP+ and 8 100-Gbps ports	48 fixed SPF+ ports
Supported speeds	10, 40, and 100 Gbps	1/10 Gigabit Ethernet speeds

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Specification

N9K-C9396PX Specification	
Ports	48 fixed SPF+ ports
Supported speeds	1/10 Gigabit Ethernet speeds
40 Gigabit Ethernet uplink ports	6 or 12 QFSP+ ports active through the uplink module Customers have the choice of either N9K-M6PQ or N9K-M12PQ for 40 Gigabit Ethernet uplink connectivity to aggregation or spine switches.
100 Gigabit Ethernet uplink ports	Customer can have 100 Gigabit Ethernet uplink connectivity to spine switches or routers through the N9K- M4PC- uplink module, with CPF2 optics as well as the Cisco CPAK®100-Gbps module through converters. The N9K-M4PC-CFP2 offers 5 MB of additional buffer space for each port.
Power supplies (up to 2)	650W AC, 930W DC, or 1200W HVAC/HVDC
Typical power (AC)	232W
Maximum power (AC)	455W
Input voltage (AC)	100 to 240V
Input voltage (HVAC)	200 to 277V

Input voltage (DC)	-48 to -60V
Input voltage (HVDC)	-240 to -380V
Frequency (AC)	50 to 60 Hz
Fans	3
Physical (H x W x D)	3.5 x 17.5 x 22.5 in. (8.9 x 44.5 x 57.1 cm)
Acoustics	68.3 dBA at 40% fan speed, 78.8 dBA at 70% fan speed, and 84.5 dB at 100% fan speed
RoHS compliance	Yes
Weight	22.45 lb (10.2 kg) (without power supplies, fans, or uplink module)

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