

N9K-C9336PQ Datasheet

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Overview

N9K-C9336PQ is the Nexus 9336 ACI Spine switch with 36p 40G QSFP. The Cisco Nexus 9336PQ ACI Spine Switch is a 2-Rack-Unit (2RU) spine switch for Cisco ACI that supports 2.88 Tbps of bandwidth and 2.3 billion packets per second (bps) across 36 fixed 40 QSFP+ ports. Cisco Nexus 9300 platform leaf switches are Layer 2 and 3 nonblocking 10 and 40 Gigabit Ethernet switches with up to 2.56 Terabits per second (Tbps) of internal bandwidth.

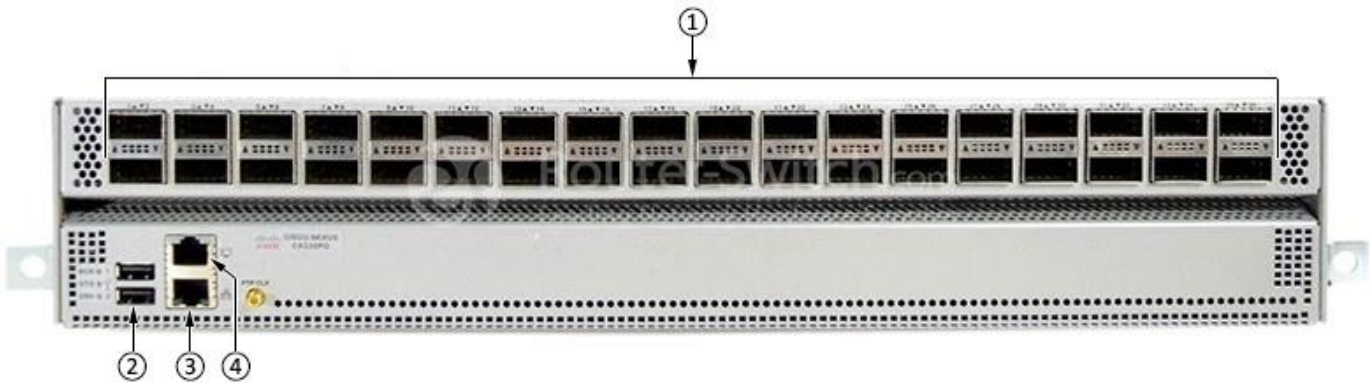
Quick Specs

Table 1 shows the Quick Specs.

Product Code	N9K-C9336PQ
Physical	<ul style="list-style-type: none">• 36-port 40G QSFP ports• 1200 watt (W) AC power supplies or 930W DC power supplies (up to 2)• 80 Plus Platinum-rated power supplies that provide at least 90% efficiency with 20% utilization• Hot-swappable, dual fan trays with redundant fans• Port-side intake or Port side exhaust airflow direction• System memory: 16GB• SSD: 64GB• USB: 2 ports• RS-232 serial console ports: 1• Management ports: 1 x 10/100/1000BASE-T
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 (chassis)	34.4 lb

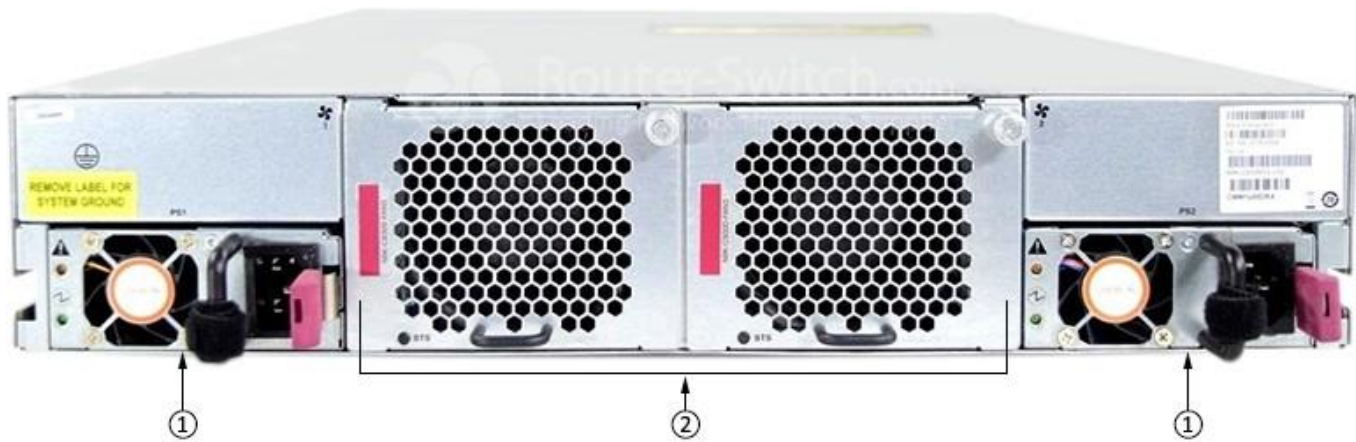
Product Details

Figure 1 shows the front panel of N9K-C9336PQ.



Note: (1) 36 40-Gigabit QSFP+ ports (2) USB ports (3) Out-of-band management port (RJ-45 port) (4) Console port (RJ232 port)

Figure 2 shows the back panel of N9K-C9336PQ.



Note: (1) Power supplies (2) (AC power supply shown) (2) Fan modules (2)

The Accessories

Table 2 shows the supported accessories.

Model	Description
N9K-C9300-FAN3	Nexus 9300 Fan 3, Port-side Intake
N9K-C9300-FAN3-B	Nexus 9300 Fan 3, Port-side Exhaust
NXA-FAN-160CFM-PI	Nexus Fan, 160CFM, port side intake airflow
NXA-FAN-160CFM-PE	Nexus Fan, 160CFM, port side exhaust airflow
NXA-FAN-35CFM-PI	Nexus Fan, 35CFM, port side intake airflow
NXA-FAN-35CFM-PE	Nexus Fan, 35CFM, port side exhaust airflow
N9K-PAC-1200W	Nexus 9300 1200W AC PS, Port-side Intake
N9K-PAC-1200W-B	Nexus 9300 1200W AC PS, Port-side Exhaust
NXA-PAC-1100W-PE2	Nexus 1100W AC PS, Port-side Exhaust
NXA-PAC-1100W-PI2	Nexus 1100W AC PS, Port-side Intake
NXA-PAC-1200W-PE	Nexus 1200W AC PS, Port-side Exhaust
NXA-PAC-1200W-PI	Nexus 1200W AC PS, Port-side Intake
N9K-PUV-1200W	Nexus 1200W, 200-277AC,240-380DC, Dual airflow PSU
UCS-PSU-6332-DC	930W -48V DC PS, Port-side Exhaust
UCSC-PSU-930WDC	930W -48V DC PS, Port-side Intake
NXA-PDC-930W-PE	Nexus 930W -48V DC PS, Port-side Exhaust
NXA-PDC-930W-PI	Nexus 930W -48V DC PS, Port-side Intake

Compare to Similar Items

Table 3 shows the comparison.

Product Code	N9K-C9336PQ	N9K-C9332C
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Physical	<ul style="list-style-type: none">• 36-port 40G QSFP ports• 1200 watt (W) AC power supplies or 930W DC power supplies (up to 2)• 80 Plus Platinum-rated power supplies that provide at least 90% efficiency with 20% utilization• Hot-swappable, dual fan trays with redundant fans• Port-side intake or Port side exhaust airflow direction• System memory: 16GB• SSD: 64GB• USB: 2 ports• RS-232 serial console ports: 1• Management ports: 1 x 10/100/1000BASE-T	<ul style="list-style-type: none">• 32-port 40/100G QSFP28 ports & 2-port 1/10G SFP+ ports• 1100 watt (W) AC, DC or HVAC/HVDC power supplies (up to 2)• Hot-swappable, 5 fans with redundancy• System memory: 16 GB• SSD: 256GB• USB: 1 port• RS-232 serial console ports: 1• Management ports: 2 (1 x 10/100/1000BASE-T and 1 x 1-Gbps SFP+)• Broadwell-DE CPU: 4 cores
Physical (H x W x D)	3.5 x 17.5 x 22.5 in. (8.9 x 44.5 x 57.1 cm)	1.7 x 17.3 x 22.9 in. (4.4 x 43.9 x 58.1 cm)
Weight (chassis)	34.4 lb	25.1lb (11.4kg) with power supplies and fans, 19 lb (8.6kg) without power supplies and fans

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Specification

N9K-C9336PQ Specification	
Physical	<ul style="list-style-type: none">• 36-port 40G QSFP ports• 1200 watt (W) AC power supplies or 930W DC power supplies (up to 2)• 80 Plus Platinum-rated power supplies that provide at least 90% efficiency with 20% utilization• Hot-swappable, dual fan trays with redundant fans• Port-side intake or Port side exhaust airflow direction• System memory: 16GB• SSD: 64GB• USB: 2 ports• RS-232 serial console ports: 1• Management ports: 1 x 10/100/1000BASE-T
Power and Cooling	<ul style="list-style-type: none">• Power: 1200W AC, 930W DC or 1200W HVAC/HVDC• Input voltage: 100 to 240V* AC or -40V to -72V DC (min-max), -48V to -60V DC (nominal)*Supports input voltage of 100-120V for a max output of 800W; 200-240V for a max output of 1200W• Frequency: 50 to 60 Hz (AC)• Efficiency: 90% or greater (20 to 100% load)• RoHS compliance: Yes• Hot swappable: Yes• Port-side intake or port-side exhale options• Typical power: 400W (AC)• Maximum power: 660W (AC)
Environmental	<ul style="list-style-type: none">• 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: 34.4 lb• 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)• Altitude: 0 to 13,123 ft (0 to 4000m)
Acoustics	<ul style="list-style-type: none">• Fan speed at 40%: 64.4 dBA• Fan speed at 70%: 79.6 dBA• Fan speed at 100%: 89.8 dBA
MTBF	<ul style="list-style-type: none">• 242,000 hours
Regulatory compliance	Products should comply with CE Markings according to directives 2004/108/EC and 2006/95/EC

Safety	<ul style="list-style-type: none"> • UL 60950-1 Second Edition • CAN/CSA-C22.2 No. 60950-1 Second Edition • EN 60950-1 Second Edition • IEC 60950-1 Second Edition • AS/NZS 60950-1 • GB4943
EMC: Emissions	<ul style="list-style-type: none"> • 47CFR Part 15 (CFR 47) Class A • AS/NZS CISPR22 Class A • CISPR22 Class A • EN55022 Class A • ICES003 Class A • VCCI Class A • EN61000-3-2 • EN61000-3-3 • KN22 Class A • CNS13438 Class A
EMC: Immunity	<ul style="list-style-type: none"> • EN55024 • CISPR24 • EN300386 • KN 61000-4 series
RoHS	The product is RoHS-6 compliant with exceptions for leaded-Ball Grid-Array (BGA) balls and lead press-fit connectors

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Support and Resources

 [Cisco Nexus 9300 ACI Fixed Spine Switches Datasheet](#)

Transition Guide

 [Select and Upgrade Cisco Data Center Switch](#)

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