

N9K-C9504 Datasheet

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Overview

N9K-C9504 is the Nexus 9504 Chassis with 8 line card slots. The Cisco Nexus 9500 platform, part of the Cisco Nexus 9000 Series, offers three modular options: the Cisco Nexus 9504 Switch with 4 slots, the Cisco Nexus 9508 Switch with 8 slots, and the Cisco Nexus 9516 Switch with 16 slots. All three switches use the same supervisor, system controller, power supplies, and line cards. The Cisco Nexus 9500 platform consists of Layer 2 and 3 non blocking Ethernet switches with backplane bandwidth of up to 115.2 Terabits per second (Tbps). The Cisco Nexus 9504, 9508, and 9516 Switches support 1, 10, 25, 40, 50, and 100 Gigabit Ethernet interfaces through a comprehensive selection of modular line cards. Configurable with up to 2304 x 10 Gigabit Ethernet ports, 2048 x 25 Gigabit Ethernet ports, 576 x 40 Gigabit Ethernet ports, 1024 x 50 Gigabit Ethernet ports, or 512 x 100 Gigabit Ethernet ports, they provide ample capacity for both access- and aggregation-layer deployments.

Quick Specs

Table 1 shows the Quick Specs.

Product Code	<u>N9K-C9504</u>
Chassis	<ul style="list-style-type: none">• Up to 4 line cards• Up to 4 power supplies• Up to 6 fabric modules• Up to 2 system controllers• Up to 2 supervisors• Up to 3 fan trays
Physical (H x W x D)	12.25 x 17.50 x 33.15 in. (31.1 x 44.50 x 84.20 cm)
Weight (chassis)	84 lb (38.2 kg)

Product Details

Front panel of N9K-C9504. The modules and cards in it need to be purchased separately

Note: (1) Line cards (up to 4) (2) Supervisor modules (1 or 2) (3) 3-kW AC power supplies (up to two without power redundancy or up to four with power redundancy) in slots PS 1 to PS 4 (AC power supplies shown).

The back panel have these things:

- (1) Fan trays
- (2) Grounding pad
- (3) Fabric modules
- (4) Chassis handles
- (5) System controllers

The Modules

Table 2 shows the supported accessories.

Model	Description
N9K-SUP-B+	Nexus 9500 6-Core/12-Thread Supervisor
N9K-SUP-B	Nexus 9500 6-Core/12-Thread Supervisor
N9K-SC-A	Nexus 9500 System Controller
N9K-PAC-3000W-B	Nexus 9500 3000W 200V to 240V AC AC PS, Port Side Intake
N9K-PDC-3000W-B	Nexus 9500 3000W -48V-60V DC PS, Port Side Intake
N9K-PUV-3000W-B	Nexus 9500 3000W 200V to 277V AC or 240V to 380V DC Universal high voltage AC/DC PS, Port Side Intake

Compare to Similar Items

Table 3 shows the comparison.

Product Code	N9K-C9508	N9K-C9504
Chassis	<ul style="list-style-type: none"> Up to 8 line cards Up to 8 power supplies Up to 6 fabric modules Up to 2 system controllers Up to 2 supervisors Up to 3 fan trays 	<ul style="list-style-type: none"> Up to 4 line cards Up to 4 power supplies Up to 6 fabric modules Up to 2 system controllers Up to 2 supervisors Up to 3 fan trays
Physical (H x W x D)	22.70 x 17.50 x 31.76 in. (57.78 x 44.50 x 80.67 cm)	12.25 x 17.50 x 33.15 in. (31.1 x 44.50 x 84.20 cm)
Weight (chassis)	150 lb (68.2 kg)	84 lb (38.2 kg)

Specification

N9K-C9504 Specification	
Chassis	<ul style="list-style-type: none"> Up to 4 line cards Up to 4 power supplies Up to 6 fabric modules Up to 2 system controllers Up to 2 supervisors Up to 3 fan trays
Physical (H x W x D)	12.25 x 17.50 x 33.15 in. (31.1 x 44.50 x 84.20 cm)
Weight (chassis)	84 lb (38.2 kg)
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)
MTBF (Hours)	Chassis: 1,038,080
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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