

N3K-C3408-S Datasheet

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Overview

N3K-C3408-S is the Cisco Nexus 3408-S switch with 32 ports of QSFP-DD. The Cisco Nexus® 3400-S is the first 400G programmable switch series in the Nexus 3000 portfolio with 50 Gbps PAM4 Serial-Deserializers (SerDes), designed for data centers with industry-leading performance-per-watt power efficiency at low latency, offering leading analytics.

Quick Spec

Figure 1 shows the Cisco N3K-C3408-S Switch.



Table 1 shows the quick spec.

SKU	N3K-C3408-S
Physical	<ul style="list-style-type: none">• 4 RU, 8-slot chassis• Beacon LED• Status LED• Dual-redundant power supplies• Redundant (2+1) fans• Two 100/1000Mbps SFP ports• One RS-232 serial console port• One RJ45 and one SFP management port• One USB port
Performance	25.6-Tbps switching capacity
Dimensions (height x width x depth)	6.97 in. x 17.3 in. x 31.6 in.

Product Details

Main benefits of the Cisco Nexus 3400-S switches:

- With the 12.8-Tbps ASIC, the Cisco Nexus 3408-S series provides 128 ports of 100G or 32 ports of 400G, allowing customers to grow at scale with fewer numbers of switches in their fabric, simplifying management and reducing cost and number of hops.
- At 400G, the Cisco Nexus 3400-S offers the lowest latency in the industry, of 370ns at high-power efficiency
- The Cisco Nexus 3400-S offers a programmable pipeline translated to flexible profiles, whether Longest-Prefix-Matching (LPM)-optimized or layer 3 host-optimized. Customers can choose the profile to match their deployment needs.
- The Cisco Nexus 3400-S supports comprehensive encapsulation and tunneling technologies, Virtual Extensible LAN (VXLAN), VXLAN routing, Multiprotocol Label Switching (MPLS), Generic Protocol Extension (GPE), Geneve, Network Virtualization Using Generic Routing Encapsulation (NVGRE), and more.
- Cisco Nexus 3400-S switches enable deep network analytics, offering per flow monitoring, queue forensics, and drop-packet forensics to help monitor customer networks.

The Cisco Nexus 3408-S is a 4-Rack-Unit (RU), 8-slot chassis with the flexibility of 100G or 400G Line-Card Expansion Modules (LEMs) offering

128 ports of 100G or 32 ports of 400G. The Cisco Nexus 3408-S is the industry's highest port radix in a compact and energy-efficient form factor. The Cisco Nexus 3408-S supports HVAC/DC power inputs with forward airflow direction.

The Cisco Nexus 3408-S has the following hardware configuration:

- 4RU, 8-slot chassis
- **NXM-X16C** LEM with 16 ports of Quad-Small-Form-Factor 28 (QSFP28)
- **NXM-X4D** LEM with 4 ports of Quad Small Form-Factor Pluggable – Double Density (QSFP-DD)
- Beacon LED
- Status LED
- Dual-redundant power supplies
- Redundant (2+1) fans
- Two 100/1000-Mbps SFP ports
- One RS-232 console port
- One RJ45 and one SFP Management port
- One USB port

Figure 2 shows the Cisco Nexus **NXM-X16C**, 16 ports of 100G.



The 100G LEMs are 16 ports of QSFP28 supporting 100, 50, 40, 25, and 10G speeds.

The 400G LEMs are 4 ports of QSFP-DD that are backward-compatible with QSFP+, QSFP28, and QSFP56. Each QSFP-DD port can operate at 400, 100, 50, 40, and 25 Gbps.

The Modules, License and Accessories

Table 3 shows the recommended products.

Part number	Description
NXM-X16C	Nexus 100G Line Expansion Module
NXM-X4D	Nexus 400G Line Expansion Module
NXM-XBLNK	Nexus Blank Line Expansion Module
NXA-FAN-300CFM-PI	Nexus fan, forward airflow (port-side intake)
NXA-PHV-2KW-PI	Nexus 2KW HV power supply, forward airflow (port-side intake)
NXA-PDC-2KW-PI	Nexus 2KW DC power supply, forward airflow (port-side intake)
NXA-PAC-2KW-PI	Nexus 2KW AC power supply, forward airflow (port-side intake)
N3K-LAN3K9	Nexus 3408-S layer 3 LAN Enterprise License

Compare to Similar Item

Table 4 shows the comparison.

SKU	N3K-C3408-S	N3K-C3432D-S
Physical	<ul style="list-style-type: none"> • 4 RU, 8-slot chassis • Beacon LED • Status LED • Dual-redundant power supplies • Redundant (2+1) fans • Two 100/1000Mbps SFP ports • One RS-232 serial console port • One RJ45 and one SFP management port • One USB port 	<ul style="list-style-type: none"> • 32 fixed 400-Gigabit-Ethernet QSFP-DD ports • Beacon LED • Status LED • Dual-redundant power supplies • Redundant (5+1) fans • Two 100/1000Mbps SFP ports in front (ports 33 and 34) • One RS-232 serial console port • One RJ45 and one SFP management port • One USB port
Performance	25.6-Tbps switching capacity	25.6 Tbps switching capacity
Dimensions (height x width x depth)	6.97 in. x 17.3 in. x 31.6 in.	1.75 x 17.29 x 25.4 in. (4.44 x 43.91 x 64.51cm)

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Specification

N3K-C3408-S Specification	
Physical	<ul style="list-style-type: none"> • 4 RU, 8-slot chassis • Beacon LED • Status LED • Dual-redundant power supplies • Redundant (2+1) fans • Two 100/1000Mbps SFP ports • One RS-232 serial console port • One RJ45 and one SFP management port • One USB port
Performance	25.6-Tbps switching capacity
Number of MAC addresses	120K
Number of IPv4/IPv6 unicast routes	440K / 360K
Number of IPv4/IPv6 hosts	192K / 96K
Number of IPv4 multicast routes	Up to 96K with 8K groups
Number of VLANS	4K
Number of ACL entries	3.5K ingress and 1.5K egress
Number of spanning-tree instances	Rapid Spanning Tree Protocol (RSTP): 123 Multiple Spanning Tree (MST) Protocol: 64
Number of EtherChannels	512
Number of ports per EtherChannel	up to 128
Buffer size	70 Mb
Boot flash memory	128 GB
Latency	370 nsec
Number of power supplies	2 (redundant)

Power supply types	AC (forward airflow)
Input voltage	100 to 240 VAC
Frequency	50 to 60 Hz
Power supply efficiency	89 to 91% at 220V
Cooling	Forward airflow: Port-side intake (air enters through ports and exits through fan tray and power supplies) Six individual, hot-swappable fans (5+1 redundant)
Dimensions (height x width x depth)	6.97 in. x 17.3 in. x 31.6 in.
Weight	N3K-C3408-S weight across configurations: <ul style="list-style-type: none"> • 68 lb (without LEMs, PSUs, or fans) • 107.7 lb (with eight 100G LEMs, PSUs, and fans) • 104.5 lb (with eight 400G LEMs, PSUs, and fans) Individual LEMs: <ul style="list-style-type: none"> • NXM-X16C (100G LEM) – 3.6 lb • NXM-X4D (400G LEM) – 3.2 lb
Operating temperature	32 to 104° F (0 to 40°C)
Storage temperature	-40 to 158° F (-40 to 70°C)
Relative humidity	5 to 95% non-condensing
Altitude (operating)	Designed to meet: -500 ft to 13,123 ft
Altitude (non-operating)	-1000 ft to 30,000 ft

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