N3K-C3432D-S Datasheet

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Overview

N3K-C3432D-S is the Cisco Nexus 3432D-S switch with 32ports 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), and is 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-C3432D-S Switch.

Table 1 shows the quick spec.

SKU	N3K-C3432D-S
Physical	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
Dimensions (height x width x depth)	1.75 x 17.29 x 25.4 in. (4.44 x 43.91 x 64.51cm)

Product Details

Main benefits of the Cisco Nexus 3400-S switches:

●With the 12.8-Tbps ASIC, the Cisco Nexus 3432D-S provides 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, 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 Modules, License and Accessories

Table 2 shows the recommended products.

Part number	Description
N3K-C3432D-S	Nexus 3432D-S switch with 32ports of QSFP-DD
NXA-FAN-35CFM-PE	Nexus Fan, Reverse airflow (port side exhaust)
NXA-FAN-35CFM-PI	Nexus Fan, Forward airflow (port side intake)
NXA-PAC-1500W-PE	Nexus 1500W AC Power Supply, Reverse airflow (port side exhaust)
NXA-PAC-1500W-PI	Nexus 1500W AC Power Supply, Forward airflow (port side intake)
N3K-LAN3K9	Nexus 3432D-S Layer 3 LAN Enterprise License

Compare to Similar Item

Table 3 shows the comparison.

SKU	N3K-C3408-S	N3K-C3432D-S
Physical	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	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)

Get More Information

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Specification

N3K-C3432D-S Specification	
Physical	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
Typical operating power	626W
Maximum power	1240W
Typical heat dissipation	2136 BTU/hr
Maximum heat dissipation	4231 BTU/hr

Hardware tables and scalability	
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	24
Number of ports per EtherChannel	24
Buffer size	70 MB
Boot flash memory	128 GB
Power	
Latency	370 nsec
Number of power supplies	2 (redundant)
Power supply types	AC (forward and reversed airflow)
Input voltage	100 to 240 VAC
Frequency	50 to 60 Hz
Power supply efficiency	89 to 91% at 220V
Cooling	Forward and reversed airflow schemes ●Forward airflow: Port-side intake (air enters through ports and exits through fan tray and power supplies) ●Reversed airflow: Port-side exhaust (air enters through fan tray and power supplies and exits through ports) Six individual, hot-swappable fans (5+1 redundant)
Environment	
Dimensions (height x width x depth)	1.75 x 17.29 x 25.4 in. (4.44 x 43.91 x 64.51cm)
Weight	30 pounds or 13.6 Kg
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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Support and Resources

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