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Overview

N3K-C3232C is the Nexus 3232C 32 x 100G, 1RU switch. The Cisco Nexus 3232C Switch is a low latency, dense, high-performance, power-efficient, 100-Gbps switch designed for the data center. This compact, 1-rack-unit (1RU) model offers wire-rate Layer 2 and 3 switching on all ports with latency of 450ns. It is a member of the Cisco Nexus 3200 platform and runs the industry-leading Cisco NX-OS Software operating system, providing customers with comprehensive features and functions that are widely deployed. The comprehensive programmability features help enable organizations to run today's applications while also preparing them for demanding and changing application needs such as big data, cloud, and virtualization. The Cisco Nexus 3232C supports both forward and reverse (port-side exhaust and port-side intake) airflow schemes with AC and DC power inputs.

Quick Specification

Product Code	N3K-C3232C
Physical	1RU fixed form-factor switch 32 QSFP28 ports; each supports native 100 Gigabit Ethernet and 4 x 25 Gigabit Ethernet modes 2 redundant power supplies 4 redundant (3+1) fans Management, console, and USB flash-memory ports
Performance	6.4-Tbps switching capacity Forwarding rate of up to 3.3 bpps Line-rate traffic throughput (both Layer 2 and 3) on all ports Configurable maximum transmission unit (MTU) of up to 9216 bytes (jumbo frames)
Physical dimensions (H x W x D)	1.72 x 17.3 x 22.4 in. (4.4 x 43.9 x 56.8 cm)
Weight	22.2 lb (10.06 kg)

Product Details:

The Front Panel:

The Cisco Nexus 3232C provides the following main benefits:

1. Wire-rate Layer 2 and 3 switching on all ports, with up to 6.4 terabits per second (Tbps) and up to 3.3 billion packets per second (bpps)

2. Robust programmability, with support for Cisco NX-API, Linux containers, XML and JavaScript Object Notation (JSON) APIs, the OpenStack plug-in, Python, and Puppet and Chef configuration and automation tools

3. High performance and scalability with a four-core CPU, 8 GB of DRAM, and 16 Mb of dynamic buffer allocation, making the switch excellent for massively scalable data centers and big data applications

4. Flexibility (1) The QSFP28 port can be configured to work as 4 x 25-Gbps ports, offering deployment flexibility, with up to a maximum of 128 x 25-Gbps ports. (2) Both fiber and copper cabling solutions are available for 10-, 25-, 40-, 50-, and 100-Gbps connectivity, including active optical cable (AOC) and direct-attached cable (DAC).

5. High availability

(1) Virtual PortChannel (vPC) technology provides Layer 2 multipathing through the elimination of Spanning Tree Protocol. It also enables fully utilized bisectional bandwidth and simplified Layer 2 logical topologies without the need to change the existing management and deployment models.

(2) The 64-way equal-cost multipath (ECMP) routing enables the use of Layer 3 fat-tree designs. This feature allows organizations to prevent network bottlenecks, increase resiliency, and add capacity with little network disruption.

(3) Advanced reboot capabilities include hot and cold patching and fast reboot capabilities.

(4) The switch uses hot-swappable power-supply units (PSUs) and fans.

6. Purpose-built NX-OS operating system with comprehensive, proven innovations

(1) Power-on auto provisioning (POAP) enables touchless bootup and configuration of the switch, drastically reducing provisioning time.

(2) Cisco Embedded Event Manager (EEM) and Python scripting enable automation and remote operations in the data center.

(3) Advanced buffer monitoring reports real-time buffer utilization per port and per queue, which allows organizations to monitor traffic bursts and application traffic patterns.

(4) EtherAnalyzer is a built-in packet analyzer for monitoring and troubleshooting control-plane traffic and is based on the popular Wireshark open-source network protocol analyzer.

(5) Complete Layer 3 unicast and multicast routing protocol suites are supported, including Border Gateway Protocol (BGP), Open Shortest Path First (OSPF), Enhanced Interior Gateway Routing Protocol (EIGRP), Routing Information Protocol Version 2 (RIPv2), Protocol Independent Multicast sparse mode (PIM-SM), Source-Specific Multicast (SSM), and Multicast Source Discovery Protocol (MSDP).

The Accessories

Modules and Cables:

Models	Description
NXA-FAN-30CFM-F	Nexus 9300 Fan, Forward airflow (Port-side Exhaust)
NXA-FAN-30CFM-B	Nexus 9300 Reverse airflow (Port-side Intake)
NXA-PAC-650W-PI	Nexus 9300 650W AC PS, Port-side Intake
NXA-PAC-650W-PE	Nexus 9300 650W AC PS, Port-side Exhaust
L-N3K-LAN1K9=	Nexus 3000 LAN Enterprise License, eDelivery

Compare to Similar Items

Product Code	N3K-C3232C	N3K-C3264Q
Ports	32 QSFP28 ports; each supports native 100 Gigabit Ethernet and 4 x 25 Gigabit Ethernet modes	64 QSFP+ ports; each supports native 40 Gigabit Ethernet
Physical dimensions (H x W x D)	1.72 x 17.3 x 22.4 in. (4.4 x 43.9 x 56.8 cm)	3.39 x 17.41 x 22.32 in. (88.4 x 442 x 566 mm)
Weight	22.2 lb (10.06 kg)	32.8 lb (14.9 kg)

Get more information:

Do you have any question about the N3K-C3232C?

Contact us now via e-mail: info@hi-network.com

Specific Data Sheet:

Type	N3K-C3232C
Physical	1RU fixed form-factor switch 32 QSFP28 ports; each supports native 100 Gigabit Ethernet and 4 x 25 Gigabit Ethernet modes 2 redundant power supplies 4 redundant (3+1) fans Management, console, and USB flash-memory ports
Performance	6.4-Tbps switching capacity Forwarding rate of up to 3.3 bpps Line-rate traffic throughput (both Layer 2 and 3) on all ports

	Configurable maximum transmission unit (MTU) of up to 9216 bytes (jumbo frames)
Number of MAC addresses	40,000
Number of VLANS	4096
Number of ACL entries	4096
Number of spanning-tree instances	Rapid Spanning Tree Protocol (RSTP): 512 Multiple Spanning Tree (MST) Protocol: 64
Number of ACL entries	6000 ingress 1000 egress
Routing table	Maximum number of longest-prefix-match (LPM) routes: 128,000 Maximum number of IP host entries:72,000 Maximum number of MAC address entries: 136,000 Maximum number of Layer 3 multicast entries: 64,000
Number of EtherChannels	256 (with vPC)
Latency	~450ns
Number of ports per EtherChannel	32
Buffer size	16 MB shared
System memory	8 GB
Boot flash memory	64 GB
Frequency	50 to 60 Hz
Power-supply types	AC (forward and reverse airflow)
Typical operating power	205 watts (W)
Maximum power	402W
AC PSUs Input voltage Frequency Efficiency	 100 to 240 VAC 50 to 60 Hz 89 to 91% at 220V
Power supply efficiency	89 to 91% at 220V
Typical heat dissipation	700 BTU/hr
Maximum heat dissipation	1371 BTU/hr
Forward and reversed airflow schemes Forward airflow: Port-side exhaust (air enters through fan tray and power supplies and exits through ports) Reversed airflow: Port-side intake (air enters through ports and exits through fan tray and power supplies) Redundant fans Hot swappable (must swap within 1 minute)	
Measured sound power (maximum) Fan speed: 40% duty cycle Fan speed: 70% duty cycle Fan speed: 100% duty cycle	 66.1 dBA 70.6 dBA 76.9 dBA
Dimensions (height x width x depth)	1.72 x 17.3 x 22.4 in. (4.36 x 43.9 x56.8 cm)
Weight	22.2 lb (10.06 kg)

Operating temperature	32 to 104° F (0 to 40°C)
Storage temperature	-40 to 158° F (-40 to 70°C)
Relative humidity (operating)	10 to 85% noncondensing Up to 5 days at maximum (85%) humidity Recommend ASHRAE data center environment
Relative humidity (nonoperating)	5 to 95% noncondensing
Altitude	0 to 10,000 ft (0 to 3000m)