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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 capacityForwarding rate of up to 3.3 bppsLine-rate traffic throughput (both Layer 2 and 3) on all portsConfigurable 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.



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(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 | <u>N3K-C3232C</u> | 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:

| Туре | 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 |



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| 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) |



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| Operating temperature | 32 to 104° F (0 to 40°C) |
|----------------------------------|--|
| Storage temperature | -40 to 158° F (-40 to 70°C) |
| | 10 to 85% noncondensing |
| Relative humidity (operating) | 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) |

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