N3K-C3132C-Z Datasheet

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Overview

N3K-C3132C-Z is the Cisco Nexus 3132C-Z switch with 32 QSFP28. The Cisco Nexus 3000 Series Switches are a comprehensive portfolio of 1, 10, 40, and 100 Gigabit Ethernet switches built from a Switch-on-a-Chip (SoC) architecture. Introduced in April 2011, this series of switches provides line-rate Layer 2 and 3 performance and is suitable for Top-of-the-Rack (ToR) architecture.

Quick Specs

Table 1 shows the Quick Specs.

Product Code	**N3K-C34180YC**
Physical	· 32 fixed 100 Gigabit Ethernet QSFP28 ports · Beacon LED · Environment LED · Status LED · Lane-selected LED · Dual redundant power supplies · Redundant (3+1) fans · Two 10-Gbps SFP ports (port 33 and port 34 in front) · One RJ-45 console port · One RJ45 and one SFP management port · One USB port
Performance	6.4Tbps switching capacity
Physical dimensions (H x W x D)	17.3W x 1.72H x 18.5D" (43.9 x 4.36 x 46.99cm)
Weight	19.2 lb. with PSU and fan 13.8 lb. without PSU and fan

Product Details

The Cisco Nexus 3132C-Z provides the following main benefits:

1.Data center feature richness that supports full IPv4 and IPv6 routing; Virtual Extensible LAN (VxLAN); and hardware-based encapsulation, including Multiprotocol Label Switching (MPLS), Virtual Private LAN Service (VPLS), Generic Routing Encapsulation (GRE), and Q-in-Q tunneling

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

3.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

4.High performance and scalability with a four-core CPU, 16 GB of DRAM, and 32 Mb of dynamic buffer allocation, making the switch excellent for massively scalable data centers and big data application

5. 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).

6. High availability

(1)Virtual Port Channel (vPC) technology provides Layer 2 multipath 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.

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

(1) Power-on Autoprovisioning (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

Table 2 shows the supported accessories.

Model	Description
NXA-FAN-30CFM-F	Nexus 2K/3K single fan, forward airflow (port-side exhaust)
NXA-FAN-30CFM-B	Nexus 2K/3K single fan, reversed airflow (port-side intake)
NXA-PAC-650W-PE	Cisco Nexus 650W AC power supply, forward airflow (port-side exhaust)
NXA-PAC-650W-PI	Cisco Nexus 650W AC power supply, reversed airflow (port-side intake)
N9K-PUV-1200W	Nexus 9300 1200W Universal Power Supply, bidirectional air flow and supports HVAC/HVDC

Compare to Similar Items

Table 3 shows the comparison.

Product Code	N3K-C3132C-Z	N3K-C3524P-10GX
Ports	32 fixed 100 Gigabit Ethernet QSFP28 ports	24 fixed SFP+ ports (1 or 10 Gbps); expandable to 48 ports
Physical dimensions (H x W x D)	17.3W x 1.72H x 18.5D" (43.9 x 4.36 x 46.99cm)	1.72 x 17.3 x 18.38 in. (4.36 x 43.9 x 46.7 cm)
Weight	19.2 lb. with PSU and fan 13.8 lb. without PSU and fan	17.4 lb (7.9 kg)

Get more information

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Specification

N3K-C3132C-Z Specification	
Physical	· 32 fixed 100 Gigabit Ethernet QSFP28 ports · Beacon LED · Environment LED · Status LED · Lane-selected LED · Dual redundant power supplies · Redundant (3+1) fans · Two 10-Gbps SFP ports (port 33 and port 34 in front) · One RJ-45 console port · One RJ45 and one SFP management port · One USB port
Performance	6.4Tbps switching capacity
Typical operating power	312W
Maximum power	493W

Typical heat dissipation	1064 BTUs/hr
Maximum heat dissipation	1682 BTUs/hr
Number of MAC addresses	32,000 min 288,000 max
Number of IPv4 unicast routes	24,000
Number of IPv4 hosts	16K min/168K max
Number of IPv4 multicast routes	8000
Number of VLANs	4096
Number of ACL entries	4096
Number of spanning-tree instances	RSTP: 512 MSTP: 64
Number of EtherChannels	24
Number of ports per EtherChannel	24
Buffer size	32 MB
Boot flash memory	128 GB
Number of power supplies	2 (redundant)
Power supply types	AC (forward and reversed airflow)
Input voltage	100 to 240 VAC
Frequency	50 to 60Hz
Power supply efficiency	89 to 91% at 220V
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) Four individual, hot-swappable fans (3+1 redundant)
Weight	19.2 lb. with PSU and fan 13.8 lb. without PSU and fan
Operating temperature	32 to 104°F (0 to 40°C)
Storage temperature	–40 to 158°F (–40 to 70°C)
Relative humidity: storage	5 to 95% noncondensing
Relative humidity: operating	· 10 to 85% noncondensing · Up to 5 days at maximum (85%) humidity · Recommend ASHRAE data center environment
Altitude (operating and nonoperating	0 ft. to 10,000 ft.

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Support and Resources

Cisco Nexus 3132C-Z Switch Data Sheet

Transition Guide

Select and Upgrade Cisco Data Center Switch

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- Tel: +971 503823786 /+971 42409998
- Email:sales@gntme.com