

N3K-C3548P-XL Datasheet



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Overview

N3K-C3548P-XL is the Nexus 3548-XL Switch, with 48 SFP+. The Cisco Nexus 3000 Series Switches are a comprehensive portfolio of 1, 10, and 40 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. This series of switches has established itself as a leader in High-Frequency Trading (HFT), High-Performance Computing (HPC), and big data environments by pairing high performance and low latency with innovations in performance visibility, automation, and time synchronization.

Quick Specs

Table 1 shows the Quick Specs.

Product Code	N3K-C3548P-XL
Physical	<ul style="list-style-type: none">· 48 fixed SFP+ ports (1 or 10 Gbps)· Dual redundant hot-swappable power supplies· Four individual redundant hot-swappable fans· One 1-PPS timing port, with the RF1.0/2.3 QuickConnect connector type· One 10/100/1000-Mbps management port· One RS-232 serial console port· Two USB ports· Locator LED· Locator LED button
Performance	<ul style="list-style-type: none">· 960-Gbps switching capacity· Forwarding rate of 720 mpps· Line-rate traffic throughput (both Layer 2 and 3) on all ports· Configurable MTUs of up to 9216 bytes (jumbo frames)
Physical dimensions (H x W x D)	1.72 x 17.3 x 18.38 in. (4.36 x 43.9 x 46.7 cm)
Weight	17.4 lb (7.9 kg)

Product Details

The Cisco Nexus 3548-XL Switches are, respectively, Cisco Nexus 3548-X Switches with a faster CPU, running at 2.5 GHz; system memory increased to 16 GB; and bootflash memory increased to 16 GB. These enhancements allow the switches to support the Cisco NX-OS Data Management Engine (DME) model.

The Cisco Nexus 3548-XL have the following hardware configuration:

- 48 fixed SFP+ ports (1 or 10 Gbps)
- Dual redundant hot-swappable power supplies
- Four individual redundant hot-swappable fans
- One 1-PPS timing port, with the RF1.0 and 2.3 QuickConnect connector type
- One 10/100/1000 management port
- One RS-232 serial console port
- Two USB ports
- Locator LED
- Locator LED button

Support for both port-side exhaust and port-side intake airflow schemes is available. Port-side exhaust airflow is useful when the port side of the switch sits on a hot aisle and the power supply side sits on a cold aisle. Port-side intake airflow is useful when the power supply side of the switch sits on a hot aisle and the port side sits on a cold aisle.

The Accessories

Table 2 shows the supported accessories.

Model	Description
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SFP-10G-SR	10GBASE-SR SFP+ module (MMF)
SFP-10G-LR	10GBASE-LR SFP+ module (single-mode fiber [SMF])
SFP-10G-ER	Cisco 10GBASE-ER SFP+ module for SMF
GLC-TE	1000BASE-T SFP
GLC-SX-MM	GE SFP, LC connector SX transceiver (MMF)
GLC-SX-MMD	1000BASE-SX SFP transceiver module, MMF, 850 nm, DOM
NXA-FAN-30CFM-F	N2K/3K Individual Fan, Forward airflow (port side exhaust)
NXA-FAN-30CFM-B	N2K/3K Individual Fan, Reversed airflow (port side intake)
N2200-PAC-400W	N2K/3K 400W AC Power Supply, Forward airflow (port side exhaust)
N2200-PAC-400W-B	N2K/3K 400W AC Power Supply, Reversed airflow (port side intake)
N2200-PDC-400W	N2K/3K 400W DC Power Supply, Forward airflow (port side exhaust)
N3K-PDC-350W-B	N2K/3K 350W DC Power Supply, Reversed airflow (port side intake)
N3548-LAN1K9=	Nexus 3548 Layer 3 LAN Enterprise License (Requires N3K-BAS1K9 License)
N3548-ALGK9=	Nexus 3500 Algo Boost License

Compare to Similar Items

Table 3 shows the comparison.

Product Code	N3K-C3548P-XL	N3K-C36180YC-R
Ports	48 fixed SFP+ ports (1 or 10 Gbps)	·48 SFP ports; each supports native 25, 10, or 1 Gigabit Ethernet mode ·6 QSFP28 ports; each supports native 100 Gigabit Ethernet and 4 x 25 Gigabit Ethernet modes
Physical dimensions (H x W x D)	1.72 x 17.3 x 18.38 in. (4.36 x 43.9 x 46.7 cm)	1.72 x 17.3 x 26.85 in. (4.4 x 43.9 x 68.2 cm)
Weight	17.4 lb (7.9 kg)	27.1 lb (12.3 kg)

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Specification

N3K-C3548P-XL Specification	
Physical	<ul style="list-style-type: none"> · 48 fixed SFP+ ports (1 or 10 Gbps) · Dual redundant hot-swappable power supplies · Four individual redundant hot-swappable fans · One 1-PPS timing port, with the RF1.0/2.3 QuickConnect connector type · One 10/100/1000-Mbps management port · One RS-232 serial console port · Two USB ports · Locator LED · Locator LED button

Performance	<ul style="list-style-type: none"> · 960-Gbps switching capacity · Forwarding rate of 720 mpps · Line-rate traffic throughput (both Layer 2 and 3) on all ports · Configurable MTUs of up to 9216 bytes (jumbo frames) 	
Typical operating power	· 112W	
Maximum power	· 213W	
Typical heat dissipation	· 383 BTUs per hr	
Maximum heat dissipation	· 727 BTUs per hr	
Hardware specifications common to all switches		
Mode	Normal mode	Warp mode
Number of MAC addresses	64,000	8000
Number of IPv4 unicast routes	24,000	4000
Number of IPv4 hosts	64,000	8000
Number of IPv4 multicast routes	8000	8000
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 EtherChannels	24	
Number of ports per EtherChannel	24	
Buffer size	6 MB shared among 16 ports; 18 MB total	
System memory	16 GB	
Boot flash memory	16 GB	
Number of power supplies	2 (redundant)	
Power supply types	<ul style="list-style-type: none"> · AC (forward and reversed airflow) · DC (forward and reversed airflow) 	
Input voltage	100 to 240 VAC	
Frequency	50 to 60 Hz	
Power supply efficiency	89 to 91% at 220V	
Forward and reversed airflow schemes <ul style="list-style-type: none"> · 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)		
Dimensions (height x width x depth)	1.72 x 17.3 x 18.38 in. (4.36 x 43.9 x 46.7 cm)	
Weight	17.4 lb (7.9 kg)	
Operating temperature	32 to 104° F (0 to 40°C)	
Storage temperature	-40 to 158° F (-40 to 70°C)	

Relative humidity (operating)	<ul style="list-style-type: none"> · 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)

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Support and Resources

 [Cisco Nexus 3548-X, 3524-X, 3548-XL, and 3524-XL Switches Data Sheet](#)

Transition Guide

 [Select and Upgrade Cisco Data Center Switch](#)

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