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Overview

The Cisco Nexus 3548P-10GX (N3K-C3548P-10GX) is 1 rack unit (RU) switch with 48 fixed 1- and 10-Gigabit Ethernet small form-factor pluggable (SFP+) ports, 1 fixed 10/100/1000 management port, 1 console port, and 2 USB ports. This switch supports both port-side exhaust and port-side intake airflow schemes. It requires one AC or DC power supply for operations, but it can have a second power supply for redundancy.

Quick Specification

Product Code	N3K-C3548P-10GX
Enclosure Type	1 RU
Switching Capacity	960-Gbps
Forwarding Rate	720 Mpps
Configurable Maximum Transmission Units (MTUs)	Up to 9216 bytes (jumbo frames)
Ports	48 x fixed SFP+ ports (1 or 10 Gbps) 1 x 1-PPS timing port, with the RF1.0/2.3 QuickConnect connector type 1 x 10/100/1000-Mbps management port 1 x RS-232 serial console port 2 x USB ports
Number of power supplies	2
Typical operating power	112W
Dimensions (H x W x D)	4.36 x 43.9 x 46.7 cm
Net Weight	7.9 Kg

Product Details:

The Front Panel:

The Back Panel:

The Accessories for N3K-C3548P-10GX

Supported Accessories

Models	Description
N3548-ALGK9=	Nexus 3500 Algo Boost License Spare
N3548-LAN1K9=	Nexus 3548 Layer 3 LAN Enterprise License Spare

GLC-SX-MMD	Cisco GLC-SX-MMD 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM
GLC-LH-SMD	Cisco GLC-LH-SMD 1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM
SFP-10G-SR	10GBASE-SR SFP Module

Compare to Similar Items

Product Code	N3K-C3548P-10G	N3K-C3548P-10GX
Enclosure Type	1 RU	1 RU
Switching Capacity	960-Gbps	960-Gbps
Forwarding Rate	720 Mpps	720 Mpps
Ports	48 x fixed SFP+ ports (1 or 10 Gbps) 1 x 1-PPS timing port, with the RF1.0/2.3 QuickConnect connector type* 2 × 10/100/1000-Mbps management ports 1 x RS-232 serial console port 1 x USB port	48 x fixed SFP+ ports (1 or 10 Gbps) 1 x 1-PPS timing port, with the RF1.0/2.3 QuickConnect connector type 1 x 10/100/1000-Mbps management port 1 x RS-232 serial console port 2 x USB ports

Get more information:

Do you have any question about the N3K-C3548P-10GX?

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Specific Data Sheet:

Physical	• 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	• 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 tables and scalability	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	
	Boot flash memory	2 GB (3524P and 3548P models) 4 GB (3524X and 3548X models)	
Power	Number of power supplies	2 (redundant)	
	Power supply types	● 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	
Cooling	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)		
Environment	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)	● 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)	
	Mean time between failure (MTBF)	317,030 hours	

Software Features	
Layer 2	• Layer 2 switch ports and VLAN trunks • IEEE 802.1Q VLAN encapsulation • Support for up to 4096 VLANs • Rapid Per-VLAN Spanning Tree Plus (PVRST+) (IEEE 802.1w compatible) • MSTP (IEEE 802.1s): 64 instances • Spanning Tree PortFast • Spanning Tree Root Guard • Spanning Tree Bridge Assurance • Cisco EtherChannel technology (up to 24 ports per EtherChannel) • LACP: IEEE 802.3ad, IEEE 802.1ax • Advanced PortChannel hashing based on Layer 2, 3, and 4 information • Jumbo frames on all ports (up to 9216 bytes) • Storm control (multicast and broadcast) • Link-level flow control (IEEE 802.3x) • vPC
Layer 3	• Layer 3 interfaces: Routed ports on interfaces, switch virtual interfaces (SVIs), PortChannels, and subinterfaces (total: 1024) • 24-way Equal-Cost Multipath (ECMP) • 4096 ACL entries • Routing protocols: Static, RIPv2, EIGRP, OSPF, and BGP • HSRP and VRRP • ACL: Routed ACL with Layer 3 and 4 options to match ingress and egress ACLs • VRF: VRF-Lite (IP VPN), VRF-aware unicast (BGP, OSPF, and RIP), and VRF-aware multicast • VRF route leaking • Jumbo frame support (up to 9216 bytes)
Multicast	• Multicast: PIMv2, PIM Sparse Mode (PIM-SM), SSM, and BiDir • Bootstrap router (BSR), Auto-RP, and Static RP • MSDP and Anycast RP • Internet Group Management Protocol (IGMP) Versions 2 and 3
Security	• Ingress ACLs (standard and extended) on Ethernet • Standard and extended Layer 3 to 4 ACLs include IPv4, Internet Control Message Protocol (ICMP), TCP, and User Datagram Protocol (UDP) • VLAN-based ACLs (VACLs) • Port-based ACLs (PACLs) • Named ACLs • ACLs on virtual terminals (VTYs) • Dynamic Host Configuration Protocol (DHCP) relay • Control Plane Policing (CoPP)
Cisco Nexus Data Broker	• Topology support for tap and SPAN aggregation • Traffic load balancing to multiple monitoring tools • Time stamping using PTP • Packet truncation • Traffic filtering based on Layer 1 through Layer 4 header information • Traffic replication and forwarding to multiple monitoring tools • Robust RBAC • Northbound Representational State Transfer (REST) API for all programmability support

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Management	• Power On Auto Provisioning (POAP) • Python scripting • Switch management using 10/100/1000-Mbps management or console ports • CLI-based console to provide detailed out-of-band management • In-band switch management • Locator and beacon LEDs • Configuration rollback • SSHv2 • Telnet • AAA • AAA with RBAC • RADIUS • TACACS+ • Syslog • Embedded packet analyzer • SNMP v1, v2, and v3 • Enhanced SNMP MIB support • XML (NETCONF) support • Remote monitoring (RMON) • Advanced Encryption Standard (AES) for management traffic • Unified username and passwords across CLI and SNMP • Microsoft Challenge Handshake Authentication Protocol (MS-CHAP) • Digital certificates for management between switch and RADIUS server • Cisco Discovery Protocol Versions 1 and 2 • RBAC • SPAN on physical, PortChannel, and VLAN • ERSPAN Versions 2 and 3 • Ingress and egress packet counters per interface • Network Time Protocol (NTP) • Cisco OHMS • Comprehensive bootup diagnostic tests • Cisco Call Home • Cisco DCNM • Active buffer monitoring • PTP (IEEE 1588) boundary clock
Management and Standards Support	

MIB support	Generic MIBs • SNMPv2-SMI • CISCO-SMI • SNMPv2-TM • SNMPv2-TC • IANA-ADDRESS-FAMILY-NUMBERS-MIB • IANAifType-MIB • IANAiprouteprotocol-MIB • HCNUM-TC	Monitoring MIBs • NOTIFICATION-LOG-MIB • CISCO-SYSLOG-EXT-MIB • CISCO-PROCESS-MIB • RMON-MIB • CISCO-RMON-CONFIG-MIB • CISCO-HC-ALARM-MIB Security MIBs • CISCO-AAA-SERVER-MIB • CISCO-AAA-SERVER-EXT-MIB

	• CISCO-TC • SNMPv2-MIB • SNMP-COMMUNITY-MIB • SNMP-FRAMEWORK-MIB • SNMP-NOTIFICATION-MIB • SNMP-TARGET-MIB • SNMP-USER-BASED-SM-MIB • SNMP-VIEW-BASED-ACM-MIB • CISCO-SNMP-VACM-EXT-MIB Ethernet MIBs • CISCO-VLAN-MEMBERSHIP-MIB Configuration MIBs • ENTITY-MIB • IF-MIB • CISCO-ENTITY-EXT-MIB • CISCO-ENTITY-FRU-CONTROL-MIB • CISCO-ENTITY-SENSOR-MIB • CISCO-SYSTEM-MIB • CISCO-SYSTEM-EXT-MIB • CISCO-IP-IF-MIB • CISCO-IF-EXTENSION-MIB • CISCO-NTP-MIB • CISCO-IMAGE-MIB • CISCO-IMAGE-UPGRADE-MIB	• CISCO-COMMON-ROLES-MIB • CISCO-COMMON-MGMT-MIB • CISCO-SECURE-SHELL-MIB Miscellaneous MIBs • CISCO-LICENSE-MGR-MIB • CISCO-FEATURE-CONTROL-MIB • CISCO-CDP-MIB • CISCO-RF-MIB Layer 3 and Routing MIBs • UDP-MIB • TCP-MIB • OSPF-MIB • OSPF-TRAP-MIB • BGP4-MIB • CISCO-HSRP-MIB • PIM-MIB
Standards	• IEEE 802.1D: Spanning Tree Protocol • IEEE 802.1p: CoS Prioritization • IEEE 802.1Q: VLAN Tagging • IEEE 802.1s: Multiple VLAN Instances of Spanning Tree Protocol • IEEE 802.1w: Rapid Reconfiguration of Spanning Tree Protocol • IEEE 802.3z: Gigabit Ethernet • IEEE 802.3ad: Link Aggregation Control Protocol (LACP) • IEEE 802.1ax: Link Aggregation Control Protocol (LACP) • IEEE 802.3ae: 10 Gigabit Ethernet • IEEE 802.3ba: 40 Gigabit Ethernet • IEEE 802.1ab: LLDP	
RFC	BGP • RFC 1997: BGP CommunitiesAttribute • RFC 2385: Protection of BGP Sessions with the TCP MD5 Signature Option • RFC 2439: BGP Route Flap Damping • RFC 2519: A Framework for Inter-Domain Route Aggregation • RFC 2545: Use of BGPv4 Multiprotocol Extensions • RFC 2858: Multiprotocol Extensions for BGPv4 • RFC 3065: Autonomous System Confederations for BGP • RFC 3392: Capabilities Advertisement with BGPv4 • RFC 4271: BGPv4	

- RFC 4273: BGPv4 MIB: Definitions of Managed Objects for BGPv4
- RFC 4456: BGP Route Reflection
- RFC 4486: Subcodes for BGP Cease Notification Message
- RFC 4724: Graceful Restart Mechanism for BGP
- RFC 4893: BGP Support for Four-Octet AS Number Space

OSPF

- RFC 2328: OSPFVersion 2
- 8431RFC 3101: OSPF Not-So-Stubby-Area (NSSA) Option
- RFC 3137: OSPF Stub Router Advertisement
- RFC 3509: Alternative Implementations of OSPF Area Border Routers
- RFC 3623: Graceful OSPF Restart
- RFC 4750: OSPF Version 2 MIB

RIP

- RFC1724: RIPv2 MIB Extension
- RFC 2082: RIPv2 MD5 Authentication
- RFC 2453: RIP Version 2
- IP Services
- RFC 768: User Datagram Protocol (UDP)
- RFC 783: Trivial File Transfer Protocol (TFTP)
- RFC 791: IP
- RFC 792: Internet Control Message Protocol (ICMP)
- RFC 793: TCP
- RFC 826: ARP
- RFC 854: Telnet
- RFC 959: FTP
- RFC 1027: Proxy ARP
- RFC 1305: Network Time Protocol (NTP) Version 3
- RFC 1519: Classless Interdomain Routing (CIDR)
- RFC 1542: BootP Relay
- RFC 1591: Domain Name System (DNS) Client
- RFC 1812: IPv4 Routers
- RFC 2131: DHCP Helper
- RFC 2338: VRRP

IP Multicast

- RFC 2236: InternetGroup Management Protocol, version 2
- RFC 3376: Internet Group Management Protocol, Version 3
- RFC 3446: Anycast Rendezvous Point Mechanism Using PIM and MSDP
- RFC 3569: An Overview of SSM
- RFC 3618: Multicast Source Discovery Protocol (MSDP)
- RFC 4601: Protocol Independent Multicast - Sparse Mode (PIM-SM): Protocol Specification (Revised)
- RFC 4607: Source-Specific Multicast for IP
- RFC 4610: Anycast-RP using PIM
- RFC 5015: PIM BiDir
- RFC 5132: IP Multicast MIB

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