Overview

N2K-C2232PP is a Cisco Nexus 2000 Platform Chassis, offering 2 power supply, 1 Fan Modules, 32 x 1/10GE (req SFP/SFP+) + 8 x 10GE (req SFP+), and choice of airflow. Cisco Nexus 2000 Series Fabric Extenders comprise a category of data center products designed to simplify data center access architecture and operations. Nexus 2000 Series Fabric Extenders behave like remote line cards for a parent Cisco Nexus switch. The fabric extenders are essentially extensions of the parent Cisco Nexus switch fabric, with the fabric extenders and the parent switch together forming a distributed modular system. This architecture enables physical topologies with the flexibility and benefits of both top-of-rack (ToR) and end-of-row (EoR) deployments.

Quick Specification

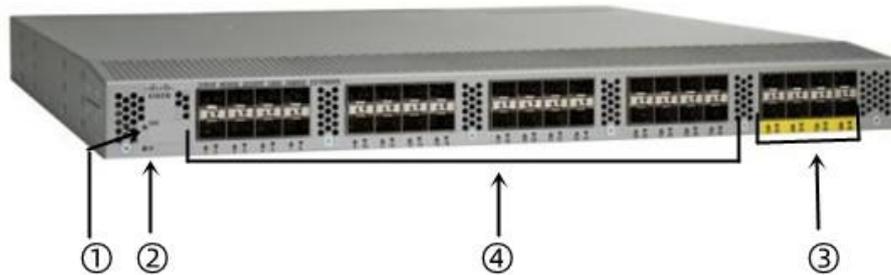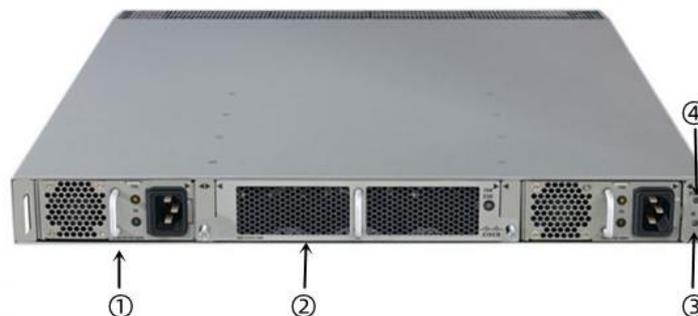|	
Part Number	N2K-C2232PP
Fabric extender host interfaces	32
Fabric extender host interface type	1/10 Gigabit Ethernet ports SFP/SFP+ AOC cables: FP-10G-AOC1M, SFP-10G-AOC2M, SFP-10G-AOC3M, SFP-10G-AOC5M, SFP-10G-AOC7M, and SFP-10G-AOC10M
Fabric extender fabric interfaces	8
Fabric speed	80 Gbps in each direction (160 Gbps full duplex)
Performance	Hardware forwarding at 800 Gbps or 595 mpps
FCoE	FCoE supported
Cisco parent switch	Cisco Nexus 5000 Series Cisco Nexus 6000 Series Cisco Nexus 7000 Series Cisco Nexus 9000 Series
Dimensions (H x W x D)	4.37 x 43.94 x 44.96 cm
Net Weight	8.0 Kg (Systems are fully loaded with two power supplies and one fan tray.)

Product Details:

The Front Panel:

①	Status LED
②	ID LED
③	8x10GE (req SFP+)
④	32 x 1/10 Gigabit Ethernet ports SFP/SFP+

The Back Panel:

①	Power supply modules (one or two, hot swappable) (AC power supply shown)
②	Fan modules (two, hot swappable)
③	Status LED
④	ID LED

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Accessories For N2K-C2232PP:

Modules and Cables:

Model	Description
SFP-10G-SR	10GBASE-SR SFP Module
SFP-H10GB-CU1M	Cisco Direct-Attach Twinax Copper Cable Assembly with SFP+ Connectors SFP-H10GB-CU1M
SFP-H10GB-CU5M	SFP-H10GB-CU5M,5M Passive Copper Twinax Cable F, Nexus,24AWG cable assembly

Compare To Similar Items:

Part Number	N2K-C2348TQ	N2K-C2232PP
Fabric extender host interfaces	48	32
Fabric extender host interface type	48x 100M/1/10GBASE-T ports: RJ-45 connectors	1/10 Gigabit Ethernet ports SFP/SFP+ AOC cables
Fabric extender fabric interfaces	6 x 40 Gigabit Ethernet QSFP (24 x 10 Gigabit Ethernet)	8
Fabric speed	Up to 240 Gbps in each direction (480-Gbps full duplex)	80 Gbps in each direction (160-Gbps full duplex)
Performance	Hardware forwarding at 1440 Gbps or 2160 mpps	Hardware forwarding at 800 Gbps or 595 mpps
Cisco parent switch	Cisco Nexus 5500 and 5600 platforms Cisco Nexus 6000 Series Cisco Nexus 7000 Series and 7700 platform Cisco Nexus 9300 and 9500 Series	Cisco Nexus 5000 Series Cisco Nexus 6000 Series Cisco Nexus 7000 Series Cisco Nexus 9000 Series

Get more information:

Do you have any question about N2K-C2232PP?

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Specific Data Sheet:

Type	Cisco Nexus 2232PP
Fabric extender host interfaces	32
Fabric extender host interfaces type	1/10 Gigabit Ethernet ports SFP/SFP+ (supported transceiver and cables include Twinax SFP-H10GB-CU1M, SFP-H10GB-CU3M, SFP-H10GB-CU5M, SFP-H10GB-ACU7M, and SFP-H10GB-ACU10M; SFP+ SFP-10G-SR, SFP-10G-SR-S, SFP-10G-LR,

	and SFP-10G-LR-S; and SFP GLC-T, GLC-SX-MM, GLC-LH-SM, SFP-GE-T, SFP-GE-S, and SFP-GE-L)
	AOC cables:
	FP-10G-AOC1M,
	SFP-10G-AOC2M, SFP-10G-AOC3M, SFP-10G-AOC5M, SFP-10G-AOC7M, and SFP-10G-AOC10M
Fabric extender fabric interfaces	8
Fabric extender fabric interfaces type	Fiber: Cisco Fabric Extender Transceiver (FET-10G) and SFP+ optics (SFP-10G-SR, SFP-10G-SR-S, SFP-10G-LR, and SFP-10G-LR-S)
	Copper: 10 Gigabit Ethernet SFP+ passive Twinax copper cables (SFP-H10GB-CU1M, SFP-H10GB-CU3M, and SFP-H10GB-CU5M) and active Twinax copper cables (SFP-H10GB-ACU7M and SFP-H10GB-ACU10M)
	AOC cables:
	SFP-10G-AOC1M,
	SFP-10G-AOC2M, SFP-10G-AOC3M, SFP-10G-AOC5M, SFP-10G-AOC7M, and SFP-10G-AOC10M
	AOC breakout cables: QSFP-4X10G-AOC1M, QSFP-4X10G-AOC2M, QSFP-4X10G-AOC3M, QSFP-4X10G-AOC5M, QSFP-4X10G-AOC7M, and QSFP-4X10G-AOC10M
	Copper breakout cables: QSFP-4SFP10G-CU1M, QSFP-4SFP10G-CU3M, QSFP-4SFP10G-CU5M, QSFP-4x10G-AC7M, and QSFP-4x10G-AC10M
	Distance between Cisco Nexus 2000 Series Fabric Extender and Cisco Nexus 5000 or 6000 Series Switch: Up to 10 km
	(300m for FCoE traffic)
Fabric speed	80 Gbps in each direction (160 Gbps full duplex)
Oversubscription	4:1
Performance	Hardware forwarding at 800 Gbps or 595 mpps
FCoE	FCoE supported
Cisco parent switch	Cisco Nexus 5000 Series
	Cisco Nexus 6000 Series
	Cisco Nexus 7000 Series
	Cisco Nexus 9000 Series
Minimum software	Cisco NX-OS Software Release 5.1(3)N(1)1 (Cisco Nexus 5000 Series)
	Cisco Nexus 6000 Series Switches running Cisco NX-OS Software Release 6.0 and later
	Cisco NX-OS Software Release 6.1(1) on the Cisco Nexus 7000 Series
	Cisco NX-OS Software Release 6.1 on the Cisco Nexus 9000 Series
Dimensions (H x W x D)	1.72 x 17.3 x 17.7 in. (4.37 x 43.94 x 44.96 cm)
Weight	18.3 lb (8.3 kg)
Environment	Operating temperature: 32 to 104°F (0 to 40°C)
	Nonoperating temperature: -4 to 158°F (-20 to 70°C)
	Humidity: 5 to 95 percent (noncondensing)
	Altitude: 0 to 10,000 ft (0 to 3000m)
Power supply	N2200-PAC-400W, N2200-PAC-400W-B, N2200-PDC-400W, and N2200-PDC-350W-B

Fan tray	N2K-C2232-FAN and N2K-C2232-FAN-B
Typical input operating power	210W (maximum 270W)
Input current	2.5A (typical); 4.1A (maximum) Note: Input current listed for 110V; divide by 2 for 220V Supply will surge on AC power-up for a fraction of a second beyond this rating
Output current	20A (typical); 33A (maximum)
Heat dissipation	806 BTU/hour (typical); 1330 BTU/hour (maximum)
Regulatory compliance	Products should comply with CE Markings according to directives 2004/108/EC and 2006/95/EC.
Safety	UL 60950-1 CAN/CSA-C22.2 No. 60950-1EN 60950-1 IEC 60950-1AS/NZS 60950-1GB4943
EMC: Emissions	47CFR Part 15 (CFR 47) Class A AS/NZS CISPR22 Class A CISPR22 Class A EN55022 Class A ICES003 Class A VCCI Class A EN61000-3-2 EN61000-3-3 KN22 Class A CNS13438 Class A
EMC: Immunity	EN50082-1 EN61000-6-1 EN55024 CISPR24 EN300386 KN 61000-4 series
RoHS	The Cisco Nexus 2148T is RoHS-5 compliant, and the Cisco Nexus 2224T, 2248TP, 2232PP, 2248PQ, 2232TM, and 2232TM-E are RoHS-6 compliant.
Network Equipment Building Standards (NEBS)	The Cisco Nexus 2248TP, 2248TP-E, and 2232PP meet NEBS level-3 standards (hardware revision 3).
Layer 2 features	Layer 2 VLAN trunks IEEE 802.1Q VLAN encapsulation Cisco EtherChannel technology on uplinks PortChannel on server ports on Cisco Nexus 2200 platforms Advanced PortChannel hashing Jumbo frames on all ports (up to 9216 bytes) Pause frames (Priority Flow Control [PFC] and IEEE 802.3x) Private VLANs (promiscuous only on uplinks) Local multicast replication on Cisco Nexus 2200 platform (8000 entries) Autonegotiation to 1000BASE-T; full duplex on host interfaces
Enhanced Ethernet	DCB (Cisco Nexus 2232PP)
Quality of service (QoS)	Layer 2 IEEE 802.1p (class of service [CoS]) 8 hardware queues per port (Cisco Nexus 2200 platforms), or 4 hardware queues per port (Cisco Nexus

	2148T)
	Per-port QoS configuration
	Local policing on Cisco Nexus 2200 platform (64 policers)
	CoS trust
	Configurable tail-drop threshold on Cisco Nexus 2200 platforms
	Egress strict-priority queuing
	Egress port-based scheduling: Weighted Round Robin (WRR)
High availability	Hot-swappable field-replaceable power supplies and fan modules
	1:1 power redundancy
	Uplink traffic management through Cisco EtherChannel hashing or static port pinning
	vPCs for dual-homed active-active connectivity across two Cisco Nexus 5000 or 6000 Series Switches
	vPCs for dual-homed straight-through NIC connectivity across two Cisco Nexus 2000 Series Fabric Extenders
	ISSU
Security	Local classification (256 access control list [ACL] entries)
Management	Fabric extender management using in-band management
	Locator and beacon LEDs on front and back of chassis (locator beacons on the front and rear of the chassis help reduce errors when the equipment is serviced)
	Per-port locator and beacon LEDs
	Syslog
	Simple Network Management Protocol Versions 1, 2, and 3 (SNMP v1, v2, and v3)
	Enhanced SNMP MIB support
	XML (NETCONF) support
	Remote Monitoring (RMON)
	Cisco Discovery Protocol Versions 1 and 2
	Cisco Switched Port Analyzer (SPAN) source on server ports
	Power-on self-test (POST)
	Cisco Generic Online Diagnostics (GOLD): Ethernet
	Comprehensive bootup diagnostic tests
	CiscoWorks
	Cisco Data Center Network Manager (DCNM); the Cisco Nexus 2000 Series is managed through the parent Cisco Nexus switch using DCNM and standard SNMP, XML interface, and command-line interface (CLI)
Configuration MIBs	ENTITY-MIB
	IF-MIB
	FABRIC-EXTENDER MIB
	CISCO-ENTITY-EXT-MIB
	CISCO-ENTITY-FRU-CONTROL-MIB
	CISCO-ENTITY-SENSOR-MIB
	CISCO-ETHERNET-FABRIC-EXTENDER-MIB
Monitoring MIBs	RMON-MIB
Industry standards	IEEE 802.1p: CoS prioritization
	IEEE 802.1Q: VLAN tagging
	IEEE 802.3: Ethernet
	IEEE 802.3ae: 10 Gigabit Ethernet

	SFF 8431 SFP+ support
	IEEE 802.3u 100BASE-TX specification
	IEEE 802.3ab 1000BASE-T specification
	IEEE 802.3an 10GBASE-T
	10GBASE-SR
	10GBASE-LR
	RMON
	SFF-8461

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