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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.)

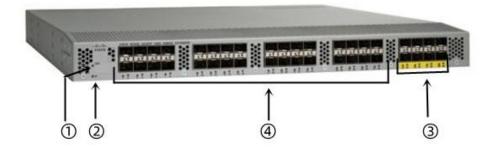


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Product Details:

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	<u>N2K-C2348TQ</u>	<u>N2K-C2232PP</u>
Fabric extender host interfaces	48	32
	48x 100M/1/10GBASE-T ports: RJ-45	1/10 Gigabit Ethernet ports SFP/SFP+
Fabric extender host interface type	connectors	AOC cables
Fabric extender fabric interfaces	6 x 40 Gigabit Ethernet QSFP (24 x 10 Gigabit	0
rabric extender fabric interfaces	Ethernet)	8
Fabric speed	Up to 240 Gbps in each direction (480-Gbps full	80 Gbps in each direction (160-Gbps full
	duplex)	duplex)
Performance	Hardware forwarding at 1440 Gbps or 2160	Hardware former disease 900 Classes 505 mars
	mpps	Hardware forwarding at 800 Gbps or 595 mpps
	Cisco Nexus 5500 and 5600 platforms	Cisco Nexus 5000 Series
Cisco parent switch	Cisco Nexus 6000 Series	Cisco Nexus 6000 Series
	Cisco Nexus 7000 Series and 7700 platform	Cisco Nexus 7000 Series
	Cisco Nexus 9300 and 9500 Series	Cisco Nexus 9000 Series

Get more information:

Do you have any question about N2K-C2232PP?

Contact us now via e-mail: info@hi-network.com

Specific Data Sheet:

Туре	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,



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Color Color		and SFP-10G-LR-S; and SFP GLC-T, GLC-SX-MM, GLC-LH-SM, SFP-GE-T, SFP-GE-S, and SFP-GE-
Fabric extender fabric interfaces 8 Fabric extender fabric interfaces 8 Fiber Cisco Fabric Frencher Transceiver (FFT-10G) and SIP+ optics (SIP-10G-AOCIM, and SIP+10G-AOCIM, and SIP+10G-AOCIM, and SIP+10G-AOCIM, SIP-10G-SR-S, SIP-10G-SR-S, SIP-10G-LR, and SIP-10G-LR, and SIP+10G-B-CUM, and SIP-10G-AOCIM, and SIP-10G-AOCIM, and SIP-10G-AOCIM, SIP-10G-AOCIM, SIP-10G-AOCIM, and SIP-10G-AOCIM, and SIP-10G-AOCIM, and SIP-10G-AOCIM, SIP-10G-AOCI		L)
SPF-10G-AOCIM, SPP-10G-AOCIM, SPP-10G-AOCIM, and SPP-10G-AOCIM, and SPP-10G-AOCIM. Fabric extender fabric interfaces S		AOC cables:
Fabric extender fabric interfaces Fiber: Cisco Fabric Extender Transceiver (PET-10G) and SPP+ optics (SFP-10G-SR, SPP-10G-SR, SPP-10G-SR, SPP-10G-SR, SPP-10G-SR, SPP-10G-SR, SPP-10G-SR, SPP-10G-SR, SPP-10G-SR, SPP-10G-SPP		FP-10G-AOC1M,
Fiber: Cisco Fabric Extender Transceiver (FET-10G) and SFP+ optics (SFP-10G-SR, SFP-10G-SR-S, SFP-10G-LR, and SFP- 10G-LR, and SFP- 10G-LCUM, and SFP-H10GB-ACUTM and SFP-H10GB-ACUTM and SFP-H10GB-ACUTM, ACC cables: SFP-10G-ACCIM, SFP-10G-ACCIM, SFP-10G-ACCIM, SFP-10G-ACCIM, and SFP-H10G-ACCIM, ACC proper to a series of the second cables of		SFP-10G-AOC2M, SFP-10G-AOC3M, SFP-10G-AOC5M, SFP-10G-AOC7M, and SFP-10G-AOC10M
SFP-10G-LR, and SFP- 110G-LR, and SFP- 110G-LR-S) Copper: 10 Gigabit Ethernet SFP+ passive Twinax copper cables (SFP-H10GB-CUIM, SFP-H10GB-CUIM, SFP-H10GB-CUIM, and SFP-H10GB-CUIM, and SFP-H10GB-ACUIM and SFP-H10GB-ACUIM) AOC cables: SFP-10G-AOCIM, SFP-10G-AOCIM, SFP-H0G-AOCIM, SFP-H0GB-ACUIM and SFP-H0G-AOCIM, AOC breakout cables: QSFP-4X10G-AOCIM, SFP-10G-AOCIM, AOC breakout cables: QSFP-4X10G-AOCIM, QSFP-4SFP10G-CUIM,	Fabric extender fabric interfaces	8
TOG-LR-S Copper-10 Citigabili Ethernet SFP+ passive Twinas copper cables (SFP-H10GH-CUIM, SFP-H10GH-CUSM), and SFP-H10GB-CUSM and SFP-H10GB-CUSM) and series Twinas copper cables (SFP-H10GB-ACU7M and SFP-H10GB-ACU10M1) AOC cablesc		Fiber: Cisco Fabric Extender Transceiver (FET-10G) and SFP+ optics (SFP-10G-SR, SFP-10G-SR-S,
Copper: 10 Gigabii Ethernet SFP+ passive Twinax copper cables (SFP-H10GB-CUIM, SFP-H10GB-CUIM, SFP-H10GB-CUIM) and sFP-H10GB-CUIM) and sFP-H10GB-CUIM and SFP-H10GB-ACUIM) AOC cables: SFP-16G-AOCIM, SFP-16G-AOCIM, SFP-16G-AOCIM, SFP-16G-AOCSM, SFP-16G-AOCTM, and SFP-H10GB-ACUIM) AOC breakent cables: (SFP-AV10G-AOCSM, SFP-16G-AOCIM, SFP-16G-AOCIM, SFP-16G-AOCIM, SFP-16G-AOCIM, SFP-16G-AOCIM, SFP-16G-AOCIM, SFP-16G-AOCIM, SFP-4X10G-AOCIM, SFP-4X10		SFP-10G-LR, and SFP-
CU3M, and SFP-H10GB- CU3M) and active Twinax capper cables (SFP-H10GB-ACU7M and SFP-H10GB-ACU10M) AOC cables SFP-10G-AOCIM, SFP-10G-AOCIM, SFP-10G-AOCSM, SFP-10G-AOCSM, SFP-10G-AOC7M, and SFP-H0G-AOC10M AOC breakent cables (SFP-4X10G-AOCSM, SFP-10G-AOC3M, SFP-10G-AOC3M, QSFP-4X10G-AOC3M, QSFP-4X10G-AOC3M, QSFP-4X10G-AOC3M, QSFP-4X10G-AOC3M, QSFP-4X10G-AOC3M, QSFP-4X10G-AOC3M, QSFP-4X10G-AOC7M, and QSFP-4X10G-AOC10M Copper breakout cables (SFP-4SFP10G-CU1M, QSFP-4SFP10G-CU3M, QSFP-4SF		10G-LR-S)
CUSM) 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-AOC3M, and SFP-110G-AOC10M AOC breakout cables: OSFP-4X10G-AOC1M, OSFP-4X10G-AOC3M, OSFP-4X10G-AOC3M, OSFP-4X10G-AOC3M, OSFP-4X10G-AOC10M AOC breakout cables: OSFP-4X10G-AOC1M, OSFP-4X10G-AOC3M, OSFP-4X10G-AOC3M, OSFP-4X10G-AOC7M, and OSFP-4X10G-AOC10M Copper breakout cables: OSFP-4X10G-AOC10M OSFP-4x10G-ACT0M, and OSFP-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 duples) Oversubscription 4:1 Performance Hardware forwarding at 800 GBps or 595 trapps FCoE Cisco Nexus 5000 Series Cisco Nexus 6000 Series Cisco Nexus 6000 Series Cisco Nexus 6000 Series Cisco Nexus 5000 Series Cisco Nexus 6000 Serie		Copper: 10 Gigabit Ethernet SFP+ passive Twinax copper cables (SFP-H10GB-CU1M, SFP-H10GB-
AOC cables: SPP-10G-AOCIM, SPP-10G-AOCIM, SFP-10G-AOCIM, SFP-10G-AOCIM, SPP-10G-AOCIM, and SFP-10G-AOCIM ACC breakout cables: QSFP-4X10G-AOCIM, QSFP-4SFP10G-CU3M, QSFP-4SFP10G		CU3M, and SFP-H10GB-
Fabric extender fabric interfaces type SFP-10G-AOCIM. SFP-10G-AOCIM. SFP-10G-AOCIM, SFP-10G-AOCIM, SFP-10G-AOCIM, and SFP-10G-AOCIM, ACC breakout eables: QSFP-4X10G-AOCIM, QSFP-4SFP10G-CUIM, QSFP-4SPP10G-CUIM, QSFP-4SFP10G-CUIM, QSFP-4SP10G-AUCIM, QSFP-4SFP10G-CUIM, QSFP-4SFP10G-CUIM, QSFP-4SFP10G-CUIM, QSFP-4SFP10G-CUIM, QS		CU5M) and active Twinax copper cables (SFP-H10GB-ACU7M and SFP-H10GB-ACU10M)
Fabric extender fabric interfaces type SFP-10G-AOCZM, SFP-10G-AOCZM, SFP-10G-AOCZM, SFP-10G-AOCZM, QSFP-4X10G-AOCZM, QS		AOC cables:
Fabric extender fabric interfaces type AOC breakout cables: QSFP-4X10G-AOC1M, QSFP-4X10G-AOC2M, QSFP-4X10G-AOC3M, QSFP-4X10G-AOC3M, QSFP-4X10G-AOC1M Copper breakout cables: QSFP-4SFP10G-CU1M, QSFP-4SFP10G-CU3M, QSFP-4SFP10G-CU5M, QSFP-4X10G-AC7M, and QSFP-4X10G-AC10M Distance between Ciseo Nexus 2000 Series Fabric Extender and Ciseo Nexus 5000 or 6000 Series Switch: Up to 10 km G00m 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 Ciseo Nexus 5000 Series Ciseo Nexus 5000 Series Ciseo Nexus 5000 Series Ciseo Nexus 5000 Series Ciseo Nexus 6000 Series Ciseo Nexus 5000 Series Ciseo Nexus 6000 Series C		SFP-10G-AOC1M,
AOC breakout cables: QSFP-4X10G-AOC1M, QSFP-4X10G-AOC2M, QSFP-4X10G-AOC3M, QSFP-4X10G-AOC3M, QSFP-4X10G-AOC3M, QSFP-4X10G-AOC3M, QSFP-4X10G-AOC1M Copper breakout cables: QSFP-4SFP10G-CU1M, QSFP-4SFP10G-CU3M, QSFP-4SFP10G-CU5M, QSFP-4SFP10G-CU3M, QSFP-4SFP10G-C	Fahria aytandar fahria intarfacea tuna	SFP-10G-AOC2M, SFP-10G-AOC3M, SFP-10G-AOC5M, SFP-10G-AOC7M, and SFP-10G-AOC10M
AX10G-AOC7M, and QSFP-4X10G-AOC10M Copper breakout cables: QSFP-4SFP10G-CU1M, QSFP-4SFP10G-CU3M, QSFP-4SFP10G-CU5M, QSFP-4SFP10G-CU3M, QSFP-4SFP10	rabile extender labile interfaces type	AOC breakout cables: QSFP-4X10G-AOC1M, QSFP-4X10G-AOC2M, QSFP-4X10G-AOC3M, QSFP-
Copper breakout cables: QSFP-4SFP10G-CU1M, QSFP-4SFP10G-CU3M, QSFP-4SFP10G-CU5M, QSFP-4x10G-AC7M, and QSFP-4x10G-A		4X10G-AOC5M, QSFP-
OSFP-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 FCoE supported Cisco Nexus 5000 Series Cisco Nexus 5000 Series Cisco Nexus 6000 Series Cisco Nexus 7000 Series Cisco Nexus 9000 Series Cisco Nexus 9000 Series Cisco Nexus 9000 Series Cisco Nexus 9000 Series Cisco Nexus 6000 Series Cisco Nexus 6000 Series Cisco Nexus 7000 Series Cisco Nexus 9000 Series Cisco Nexus 6000 Series Switches running Cisco Nexus 5000 Series) Cisco Nexus 6000 Series Switches funning Cisco Nexus 7000 Series Cisco Nexus 6000 Series Switches funning Cisco Nexus 7000 Series Cisco Nexus 6000 Series Switches funning Cisco Nexus 7000 Series Cisco Nexus 6000 Series Switches funning Cisco Nexus 7000 Series Cisco Nexus 7000 Series Cisco Nexus 6000 Series Switches funning Cisco Nexus 7000 Series Cisco Nexus 7		4X10G-AOC7M, and QSFP-4X10G-AOC10M
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) 80 Gbps in each direction (160 Gbps full duplex) Oversubscription 4:1 Performance Hardware forwarding at 800 Gbps or 595 mpps FCoE Cisco Pexus 5000 Series Cisco Nexus 5000 Series Cisc		Copper breakout cables: QSFP-4SFP10G-CU1M, QSFP-4SFP10G-CU3M, QSFP-4SFP10G-CU5M,
Distance between Cisco Nexus 2000 Series Fabric Extender and Cisco Nexus 5000 or 6000 Series Switch: Up to 10 km (300m for FCoE traffic) 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 Nexus 5000 Series Cisco Nexus 5000 Series Cisco Nexus 6000 Series Cisco Nexus 7000 Series Cisco Nexus 9000 Series Cisco Nexus 9000 Series Cisco Nexus 6000 Series Cisco Nexus 6000 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 7000 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 Benvironment Distance Very Surface Switches Fabric Extender and Cisco Nexus 5000 or 6000 or 6		QSFP-4x10G-AC7M, and
Up to 10 km (300m for FCoE traffic) 80 Gbps in each direction (160 Gbps full duplex) Oversubscription 4:1 Performance Hardware forwarding at 800 Gbps or 595 mpps FCoE FCoE FCoE supported Cisco Nexus 5000 Series Cisco Nexus 5000 Series Cisco Nexus 7000 Series Cisco Nexus 9000 Series Cisco Nexus 9000 Series Cisco Nexus 9000 Series Cisco Nexus 9000 Series Cisco Nexus 6000 Series Cisco Nexus 6000 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 Cisco NX-OS Software Release 6.1 on the Cisco Nexus 9000 Series Dimensions (Hx Wx D) 1.72 x 17.3 x 17.7 in. (4.37 x 43.94 x 44.96 cm) Weight 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)		QSFP-4x10G-AC10M
Goom for FCoE traffic) So Gbps in each direction (160 Gbps full duplex)		Distance between Cisco Nexus 2000 Series Fabric Extender and Cisco Nexus 5000 or 6000 Series Switch:
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 Nexus 5000 Series Cisco Nexus 5000 Series Cisco Nexus 6000 Series Cisco Nexus 9000 Series Cisco Nx-OS Software Release 5.1(3)N(1)1 (Cisco Nexus 5000 Series) Cisco Nx-OS Software Release 6.1(1) on the Cisco Nx-OS Software Release 6.0 and later 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) 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)		Up to 10 km
Oversubscription 4:1 Performance Hardware forwarding at 800 Gbps or 595 mpps FCoE FCoE FCoE supported Cisco Nexus 5000 Series Cisco Nexus 5000 Series Cisco Nexus 5000 Series Cisco Nexus 7000 Series Cisco Nexus 9000 Series Cisco Nexus 9000 Series Cisco Nexus 5000 Series Switches running Cisco Nexus 5000 Series) Cisco Nexus 6000 Series Switches running Cisco Nexus 7000 Series 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) 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)		(300m for FCoE traffic)
Performance Hardware forwarding at 800 Gbps or 595 mpps FCoE FCoE supported Cisco Nexus 5000 Series Cisco Nexus 6000 Series Cisco Nexus 7000 Series Cisco Nexus 9000 Series Cisco Nexus 9000 Series Cisco Nexus 9000 Series Cisco Nexus 9000 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 Cisco Nx-OS Software Release 6.1 on the Cisco Nexus 9000 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) 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)	Fabric speed	80 Gbps in each direction (160 Gbps full duplex)
FCoE Supported Cisco Nexus 5000 Series Cisco Nexus 6000 Series Cisco Nexus 7000 Series Cisco Nexus 9000 Series Cisco Nexus 9000 Series Cisco Nexus 9000 Series Cisco Nexus 9000 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 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) Operating temperature: 24 to 158°F (-20 to 70°C) Humidity: 5 to 95 percent (noncondensing) Altitude: 0 to 10,000 ft (0 to 3000m)	Oversubscription	4:1
Cisco Nexus 5000 Series Cisco Nexus 6000 Series Cisco Nexus 7000 Series Cisco Nexus 9000 Series Cisco Nexus 9000 Series Cisco Nexus 9000 Series Cisco Nexus 9000 Series Cisco NX-OS Software Release 5.1(3)N(1)1 (Cisco Nexus 5000 Series) Cisco NX-OS Software Release 5.1(3)N(1)1 (Cisco Nexus 5000 Series) 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) 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)	Performance	Hardware forwarding at 800 Gbps or 595 mpps
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Cisco Nexus 7000 Series Cisco Nexus 9000 Series Cisco Nexus 9000 Series Cisco Nexus 9000 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) 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)		Cisco Nexus 5000 Series
Cisco Nexus 7000 Series Cisco Nexus 9000 Series Cisco NX-OS Software Release 5.1(3)N(1)1 (Cisco Nexus 5000 Series) 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) 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)	Ciggo popult quitab	Cisco Nexus 6000 Series
Cisco NX-OS Software Release 5.1(3)N(1)1 (Cisco Nexus 5000 Series) Cisco NX-OS Software Release 6.1(1) on the 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) 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)	Cisco parent switch	Cisco Nexus 7000 Series
Minimum software 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) 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)		Cisco Nexus 9000 Series
Minimum software 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) 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)		Cisco NX-OS Software Release 5.1(3)N(1)1 (Cisco Nexus 5000 Series)
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 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) 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)	Minimum software	Cisco Nexus 6000 Series Switches running Cisco NX-OS Software Release 6.0 and later
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) 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)	William Soldware	Cisco NX-OS Software Release 6.1(1) on the Cisco Nexus 7000 Series
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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)	Dimensions (H x W x D)	1.72 x 17.3 x 17.7 in. (4.37 x 43.94 x 44.96 cm)
Environment 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)	Weight	18.3 lb (8.3 kg)
Environment Humidity: 5 to 95 percent (noncondensing) Altitude: 0 to 10,000 ft (0 to 3000m)		Operating temperature: 32 to 104°F (0 to 40°C)
Humidity: 5 to 95 percent (noncondensing) Altitude: 0 to 10,000 ft (0 to 3000m)	Environment	Nonoperating temperature: -4 to 158°F (-20 to 70°C)
· · · · · · · · · · · · · · · · · · ·		Humidity: 5 to 95 percent (noncondensing)
Power supply N2200-PAC-400W, N2200-PAC-400W-B, N2200-PDC-400W, and N2200-PDC-350W-B		Altitude: 0 to 10,000 ft (0 to 3000m)
1	Power supply	N2200-PAC-400W, N2200-PAC-400W-B, N2200-PDC-400W, and N2200-PDC-350W-B



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Fan tray	N2K-C2232-FAN and N2K-C2232-FAN-B
Typical input operating power	210W (maximum 270W)
	2.5A (typical); 4.1A (maximum)
Input current	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.
	UL 60950-1
Safety	CAN/CSA-C22.2 No. 60950-1EN 60950-1
	IEC 60950-1AS/NZS 60950-1GB4943
	47CFR Part 15 (CFR 47) Class A
	AS/NZS CISPR22 Class A
	CISPR22 Class A
	EN55022 Class A
EMC: Emissions	ICES003 Class A
EWC. EMISSIONS	VCCI Class A
	EN61000-3-2
	EN61000-3-3
	KN22 Class A
	CNS13438 Class A
	EN50082-1
	EN61000-6-1
FMC I	EN55024
EMC: Immunity	CISPR24
	EN300386
	KN 61000-4 series
RoHS	The Cisco Nexus 2148T is RoHS-5 compliant, and the Cisco Nexus 2224T, 2248TP, 2232PP, 2248PQ,
KUNS	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 VLAN trunks
	IEEE 802.1Q VLAN encapsulation
	Cisco EtherChannel technology on uplinks
	PortChannel on server ports on Cisco Nexus 2200 platforms
L 2 G-t	Advanced PortChannel hashing
Layer 2 features	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])
Quartey of service (Q00)	8 hardware queues per port (Cisco Nexus 2200 platforms), or 4 hardware queues per port (Cisco Nexus



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	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)
	Hot-swappable field-replaceable power supplies and fan modules
	1:1 power redundancy
	Uplink traffic management through Cisco EtherChannel hashing or static port pinning
High availability	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)
	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
Management	Remote Monitoring (RMON)
Management	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)
	ENTITY-MIB
	IF-MIB
	FABRIC-EXTENDER MIB
Configuration MIBs	CISCO-ENTITY-EXT-MIB
	CISCO-ENTITY-FRU-CONTROL-MIB
	CISCO-ENTITY-SENSOR-MIB
	CISCO-ETHERNET-FABRIC-EXTENDER-MIB
Monitoring MIBs	RMON-MIB
	IEEE 802.1p: CoS prioritization
Industry standard-	TETE 000 10 MI ANA
Industry standards	IEEE 802.1Q: VLAN tagging
Industry standards	IEEE 802.1Q: VLAN tagging IEEE 802.3: Ethernet



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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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