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Overview

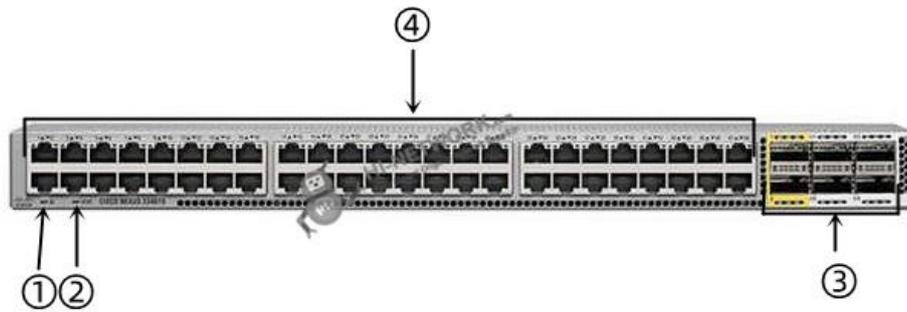
N2K-C2348TQ-E is a Cisco Nexus 2300 Platform Chassis, offering 10G BASE T Fabric Extender, 2 power supplier, 3 Fan Modules, 48x100M/1/10GT (RJ45) + 6x40G QSFP+(req QSFP+) and choice of airflow.

Quick Specification

Product Code	N2K-C2348TQ-E
Fabric extender host interfaces	48
Fabric extender host interface type	48 x 100M/1/10GBASE-T ports: RJ-45 connectors
Fabric extender fabric interfaces	6 x 40 Gigabit Ethernet QSFP (24 x 10 Gigabit Ethernet)
Fabric speed	Up to 240 Gbps in each direction (480-Gbps full duplex)
Performance	Hardware forwarding at 1440 Gbps or 2160 mpps
FCoE	FCoE support up to 30m with Category 6a and 7 cables (Cisco Nexus 5500 and 5600 platforms and 6000 Series)
Cisco parent switch	Cisco Nexus 5500 and 5600 platforms Cisco Nexus 6000 Series
Dimensions (H x W x D)	4.37 x 43.94 x 43.36 cm
Net Weight	8.0 Kg

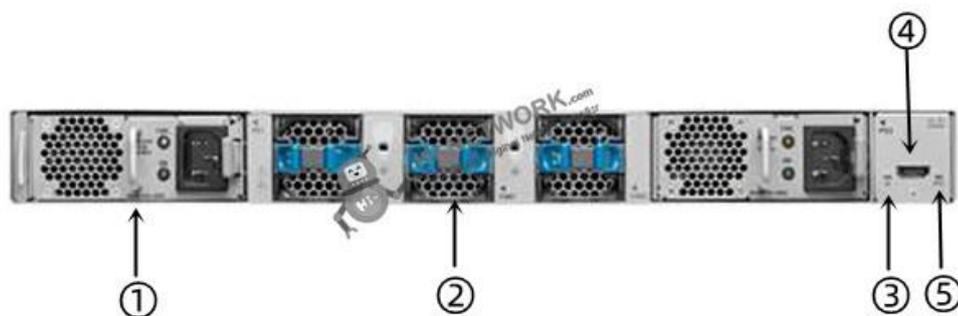
Product Details:

The Front Panel:



①	ID LED
②	Status LED
③	40-Gigabit ports (six) for QSFP+ transceivers and 40-Gigabit QSFP+ to four 10-Gigabit SFP+ breakout cables
④	48 x 100M/1/10GBASE-T ports

The back panel



①	Power supply modules (one or two, hot swappable) (AC power supply shown)
②	Fan modules (two, hot swappable)

③	ID LED
④	Management/Console HDMI port
⑤	Status LED

The Accessories

Modules and Cables:

Models	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
QSFP-H40G-CU5M	Cisco QSFP to QSFP copper direct-attach 40GBASE-CR4 cable QSFP-H40G-CU5M
QSFP-40G-LR4	40GBase-LR4 Optical Transceiver,QSFP+,40GE,Single-mode Module(1310nm,10km,LC)

Compare to Similar Items

Product Code	N2K-C2348TQ-E	N2K-C2348UPQ
Fabric extender host interfaces	48	48
Fabric extender host interface type	48 x 100M/1/10GBASE-T ports: RJ-45 connectors	For 48 x 1/10 Gigabit Ethernet host interface ports: 1/10 Gigabit Ethernet ports SFP/SFP+ AOC cables DS-SFP-FC16G-SW
Fabric extender fabric interfaces	6 x 40 Gigabit Ethernet QSFP (24 x 10 Gigabit Ethernet)	6 x 40 Gigabit Ethernet QSFP (24 x 10 Gigabit Ethernet)
Fabric speed	Up to 240 Gbps in each direction (480-Gbps full duplex)	Up to 240 Gbps in each direction (480-Gbps full duplex)
Performance	Hardware forwarding at 1440 Gbps or 2160 mpps	Hardware forwarding at 1440 Gbps or 2160 mpps
Cisco parent switch	Cisco Nexus 5500 and 5600 platforms Cisco Nexus 6000 Series	Cisco Nexus 5500 and 5600 platforms Cisco Nexus 6000 Series Cisco Nexus 7000 Series and 7700 platform Cisco Nexus 9300 and 9500 Series

Get more information:

Do you have any question about the N2K-C2348TQ-E?

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

Specific Data Sheet:

Type	Cisco Nexus 2348TQ-E
Fabric extender host interfaces	48
Fabric extender host interfaces type	48 100M/1/10GBASE-T ports: RJ-45 connectors
Fabric extender fabric interfaces	6 x 40 Gigabit Ethernet QSFP (24 x 10 Gigabit Ethernet)
Fabric extender fabric interfaces type	<p>Fiber: QSFP-40G-SR-BD, QSFP-40G-SR4, QSFP-40G-SR4-S, QSFP-40G-LR4, QSFP-40G-LR4-S, and QSFP-40G-CSR4-S</p> <p>Copper: 40 Gigabit Ethernet QSFP+ active Twinax cables (QSFP-H40G-ACU7M and QSFP-H40G-ACU10M (no passive cables)</p> <p>AOC cables: QSFP-H40G-AOC1M, QSFP-H40G-AOC2M, QSFP-H40G-AOC3M, QSFP-H40G-AOC5M, QSFP-H40G-AOC7M, QSFP-H40G-AOC10M, and QSFP-H40G-AOC15M</p> <p>AOC breakout cables: QSFP-4X10G-AOC1M, QSFP-4X10G-AOC2M, QSFP-4X10G-AOC3M, QSFP-4X10G-AOC5M, QSFP-4X10G-AOC7M, and QSFP-4X10G-AOC10M</p> <p>Copper breakout cables: QSFP-4x10G-AC7M and QSFP-4x10G-AC10M (no passive cables)</p> <p>Distance between Cisco Nexus 2300 fabric extender and Cisco Nexus 5500 switch is up to 10 km (up to 3 km for FCoE traffic), and for the Cisco Nexus 5600 switch or 6000 Series Switch the distance is up to 3 km (300m for FCoE traffic)</p> <p>All equivalent S-class optics are supported</p> <p>Cisco 40GBASE QSFP to SFP+/SFP adapter (CVR-QSFP-SFP10G)</p>
Fabric speed	Up to 240 Gbps in each direction (480-Gbps full duplex)
Oversubscription	Up to 2:1
Performance	Hardware forwarding at 1440 Gbps or 2160 mpps
FCoE	FCoE support up to 30m with Category 6a and 7 cables (Cisco Nexus 5500 and 5600 platforms and 6000 Series)
Cisco parent switch	Cisco Nexus 5500 and 5600 platforms Cisco Nexus 6000 Series
Minimum software	Cisco NX-OS Release 7.3(0)N1(1) (Cisco Nexus 5500 and 5600 platforms and 6000 Series)
Dimensions (H x W x D)	1.72 x 17.3 x 17.07 in. (4.37 x 43.94 x 43.36 cm)
Weight	17.7 lb (8.0 kg)
Environment	<p>Operating temperature: 32 to 131°F (0 to 55°C)</p> <p>Non-operating temperature: -40 to 158°F (-40 to 70°C)</p> <p>Humidity: 5 to 95 percent (noncondensing)</p> <p>Altitude: 0 to 10,000 ft. (0 to 3000m)</p>
Power supply	N2200-PAC-400W, N2200-PAC-400W-B, N2200-PDC-400W, and N2200-PDC-350W-B
Fan modules	280W at 30m (maximum 350W)



Heat dissipation	952 BTU/hour (typical); 1190 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 2348UPQ, 2348TQ, and 2332TQ meet NEBS level-3 standards (hardware revision 3) (not currently supported)
Description	Specification
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
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



	<p>Egress strict-priority queuing</p> <p>Egress port-based scheduling: Weighted Round Robin (WRR)</p>
High availability	<p>Hot-swappable field-replaceable power supplies and fan modules</p> <p>1:1 power redundancy</p> <p>Uplink traffic management through Cisco EtherChannel hashing or static port pinning</p> <p>vPCs for dual-homed active-active connectivity across two Cisco Nexus 5000 or 6000 Series Switches</p> <p>vPCs for dual-homed straight-through NIC connectivity across two Cisco Nexus 2000 Series Fabric Extenders</p> <p>In-Service Software Upgrade (ISSU)</p>
Security	<p>Local classification (256 access control list [ACL] entries)</p>
Management	<p>Fabric extender management using in-band management</p> <p>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)</p> <p>Per-port locator and beacon LEDs</p> <p>Syslog</p> <p>Simple Network Management Protocol Versions 1, 2, and 3 (SNMP v1, v2, and v3)</p> <p>Enhanced SNMP MIB support</p> <p>XML (NETCONF) support</p> <p>Remote Monitoring (RMON)</p> <p>Cisco Discovery Protocol Versions 1 and 2</p> <p>Cisco Switched Port Analyzer (SPAN) source on server ports</p> <p>Power-on self-test (POST)</p> <p>Cisco Generic Online Diagnostics (GOLD): Ethernet</p> <p>Comprehensive bootup diagnostic tests</p> <p>CiscoWorks</p> <p>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)</p>
Configuration MIBs	<p>ENTITY-MIB</p> <p>IF-MIB</p> <p>FABRIC-EXTENDER MIB</p> <p>CISCO-ENTITY-EXT-MIB</p> <p>CISCO-ENTITY-FRU-CONTROL-MIB</p> <p>CISCO-ENTITY-SENSOR-MIB</p> <p>CISCO-ETHERNET-FABRIC-EXTENDER-MIB</p>
Monitoring MIBs	<p>RMON-MIB</p>
Industry standards	<p>IEEE 802.1p: CoS prioritization</p> <p>IEEE 802.1Q: VLAN tagging</p> <p>IEEE 802.3: Ethernet</p> <p>IEEE 802.3ae: 10 Gigabit Ethernet</p> <p>SFF 8431 SFP+ support</p> <p>IEEE 802.3u 100BASE-TX specification</p> <p>IEEE 802.3ab 1000BASE-T specification</p> <p>IEEE 802.3an 10GBASE-T</p> <p>10GBASE-SR</p> <p>10GBASE-LR</p>

RMON
SFF-8461

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