

# N2K-C2348TQ-E Datasheet



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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 Specs

Figure 1 shows the appearance of the N2K-C2348TQ-E.

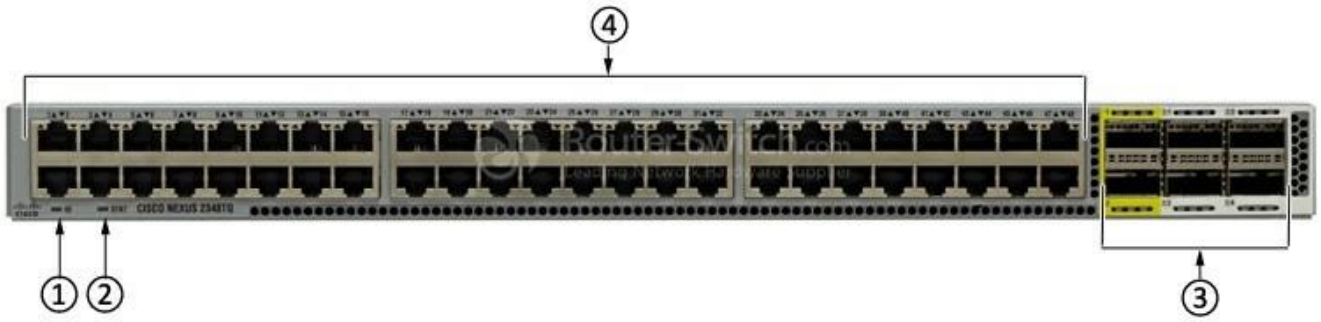


Table 1 shows the Quick Spec.

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

## Product Details

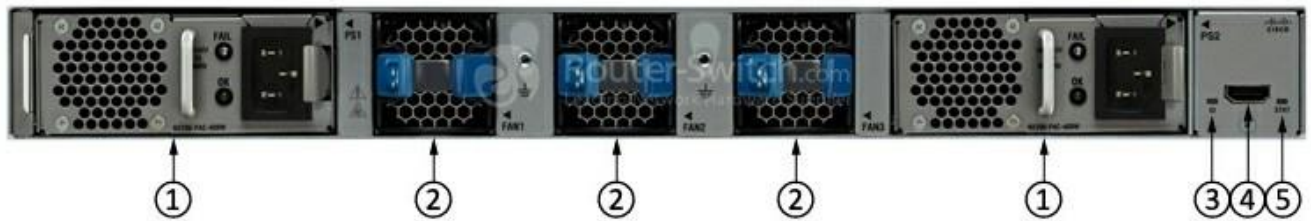
Figure 2 shows the front panel of the N2K-C2348TQ-E.



Note:

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

**Figure 3 shows the back panel of the N2K-C2348TQ-E.**



Note:

|     |  |
|-----|--|
| (1) | Power supply modules (one or two, hot swappable) (AC power supply shown) |
| (2) | Fan modules (three, hot swappable)                                       |
| (3) | ID LED   |
| (4) | Management/Console HDMI port   |
| (5) | Status LED   |

## The Accessories

Table 2 shows some recommended accessories.

| Models                         | Description  |
|--------------------------------|--|
| <a href="#">SFP-10G-SR</a>     | 10GBASE-SR SFP Module  |
| <a href="#">SFP-H10GB-CU1M</a> | Cisco Direct-Attach Twinax Copper Cable Assembly with SFP+ Connectors SFP-H10GB-CU1M |
| <a href="#">SFP-H10GB-CU5M</a> | 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

Table 3 shows the comparison of 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:<br>1/10 Gigabit Ethernet ports SFP/SFP+<br>AOC cables<br>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<br>Cisco Nexus 6000 Series | Cisco Nexus 5500 and 5600 platforms<br>Cisco Nexus 6000 Series<br>Cisco Nexus 7000 Series and 7700 platform<br>Cisco Nexus 9300 and 9500 Series |

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## Specification

| N2K-C2348TQ-E Specification         |   |
|-------------------------------------|---|
| Type                                | Cisco Nexus 2348TQ-E                                    |
| Fabric extender host interfaces     | 48  |
| Fabric extender host interface 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) |

|  |   |
|--|---|
| <b>Fabric extender fabric interface type</b> | <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<br/>Cisco 40GBASE QSFP to SFP+/SFP adapter (CVR-QSFP-SFP10G)</p> |
| <b>Fabric speed</b>                          | Up to 240 Gbps in each direction (480-Gbps full duplex)   |
| <b>Oversubscription</b>                      | Up to 2:1   |
| <b>Performance</b>                           | Hardware forwarding at 1440 Gbps or 2160 mpps   |
| <b>FCoE</b>                                  | FCoE support up to 30m with Category 6a and 7 cables (Cisco Nexus 5500 and 5600 platforms and 6000 Series)  |
| <b>Cisco parent switch</b>                   | Cisco Nexus 5500 and 5600 platforms<br>Cisco Nexus 6000 Series  |
| <b>Minimum software</b>                      | Cisco NX-OS Release 7.3(0)N1(1)<br>(Cisco Nexus 5500 and 5600 platforms and 6000 Series)  |
| <b>Dimensions (H x W x D)</b>                | 1.72 x 17.3 x 17.07 in. (4.37 x 43.94 x 43.36 cm)   |
| <b>Weight</b>                                | 17.7 lbs. (8.0 kg)  |
| <b>Environment</b>                           | Operating temperature: 32 to 131°F (0 to 55°C)<br>Non-operating temperature: -40 to 158°F (-40 to 70°C) Humidity: 5 to 95 percent (noncondensing)<br>Altitude: 0 to 10,000 ft. (0 to 3000m)   |
| <b>Power supply</b>                          | N2200-PAC-400W,<br>N2200-PAC-400W-B,<br>N2200-PDC-400W, and<br>N2200-PDC-350W-B   |
| <b>Fan modules</b>                           | NXA-FAN-30CFM-F and NXA-FAN-30CFM-B (N+1 redundancy = 3 fans)   |
| <b>Typical input operating power</b>         | 280W at 30m (maximum 350W)  |
| <b>Heat dissipation</b>                      | 952 BTU/hour (typical); 1190 BTU/hour (maximum)   |
| <b>Regulatory Compliance</b>                 | Products should comply with CE Markings according to directives 2004/108/EC and 2006/95/EC  |
| <b>Safety</b>                                | UL 60950-1<br>CAN/CSA-C22.2 No. 60950-1EN 60950-1<br>IEC 60950-1AS/NZS 60950-1GB4943  |

|  |  |
|--|--|
| <b>EMC: Emissions</b>                              | <p>47CFR Part 15 (CFR 47) Class A<br/> AS/NZS CISPR22 Class A<br/> CISPR22 Class A<br/> EN55022 Class A<br/> ICES003 Class A<br/> VCCI Class A<br/> EN61000-3-2<br/> EN61000-3-3<br/> KN22 Class A<br/> CNS13438 Class A</p>   |
| <b>EMC: Immunity</b>                               | <p>EN50082-1<br/> EN61000-6-1<br/> EN55024<br/> CISPR24<br/> EN300386<br/> KN 61000-4 series</p>   |
| <b>RoHS</b>  | The Cisco Nexus 2348UPQ, 2348TQ, and 2332TQ are RoHS-6 compliant   |
| <b>Network Equipment Building Standards (NEBS)</b> | The Cisco Nexus 2348UPQ, 2348TQ, and 2332TQ meet NEBS level-3 standards (hardware revision 3) (not currently supported)  |
| <b>Description</b>                                 | Specification  |
| <b>Layer 2 features</b>                            | <p>Layer 2 VLAN trunks<br/> IEEE 802.1Q VLAN encapsulation<br/> Cisco EtherChannel technology on uplinks<br/> PortChannel on server ports on Cisco Nexus 2300 platforms<br/> Advanced PortChannel hashing<br/> Jumbo frames on all ports (up to 9216 bytes)<br/> Pause frames (Priority Flow Control [PFC] and IEEE 802.3x)<br/> Private VLANs (promiscuous only on uplinks)<br/> Local multicast replication on Cisco Nexus 2300 platform (8000 entries)<br/> Autonegotiation to 1000BASE-T; full duplex on host interfaces</p> |
| <b>Enhanced Ethernet</b>                           | DCB  |
| <b>Quality of service (QoS)</b>                    | <p>Layer 2 IEEE 802.1p (class of service [CoS])<br/> Eight hardware queues per port (Cisco Nexus 2300 platforms)<br/> Per-port QoS configuration<br/> Local policing on Cisco Nexus 2300 platform (64 policers)<br/> CoS trust<br/> Configurable tail-drop threshold on Cisco Nexus 2300 platform<br/> Egress strict-priority queuing<br/> Egress port-based scheduling: Weighted Round Robin (WRR)</p>  |
| <b>High availability</b>                           | <p>Hot-swappable field-replaceable power supplies and fan modules<br/> 1:1 power redundancy<br/> Uplink traffic management through Cisco EtherChannel hashing or static port pinning<br/> vPCs for dual-homed active-active connectivity across two Cisco Nexus parent switches<br/> vPCs for dual-homed straight-through NIC connectivity across two Cisco Nexus 2300 platform fabric extenders<br/> In-Service Software Upgrade (ISSU)</p>   |
| <b>Security</b>                                    | Local classification (256 access control list [ACL] entries)   |

|                                  |  |
|----------------------------------|--|
| <p><b>Management</b></p>         | <p>Fabric extender management using in-band management<br/>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)<br/>Per-port locator and beacon LEDs<br/>Syslog<br/>Simple Network Management Protocol Versions 1, 2, and 3 (SNMP v1, v2, and v3)<br/>Enhanced SNMP MIB support<br/>XML (NETCONF) support<br/>Remote Monitoring (RMON)<br/>Cisco Discovery Protocol Versions 1 and 2<br/>Cisco Switched Port Analyzer (SPAN) source on server ports<br/>Power-on self-test (POST)<br/>Cisco Generic Online Diagnostics (GOLD): Ethernet<br/>Comprehensive bootup diagnostic tests<br/>CiscoWorks<br/>Cisco Data Center Network Manager (DCNM); the Cisco Nexus 2300 platform is managed through the parent Cisco Nexus switch using DCNM and standard SNMP, XML interface, and command-line interface (CLI)</p> |
| <p><b>Configuration MIBs</b></p> | <p>ENTITY-MIB<br/>IF-MIB<br/>FABRIC-EXTENDER-MIB<br/>CISCO-ENTITY-EXT-MIB<br/>CISCO-ENTITY-FRU-CONTROL-MIB<br/>CISCO-ENTITY-SENSOR-MIB<br/>CISCO-ETHERNET-FABRIC-EXTENDER-MIB</p>  |
| <p><b>Monitoring MIBs</b></p>    | <p>RMON-MIB</p>  |
| <p><b>Industry standards</b></p> | <p>IEEE 802.1p: CoS prioritization<br/>IEEE 802.1Q: VLAN tagging<br/>IEEE 802.3: Ethernet<br/>IEEE 802.3ae: 10 Gigabit Ethernet SFF 8431 SFP+ support<br/>IEEE 802.3u 100BASE-TX specification<br/>IEEE 802.3ab 1000BASE-T specification<br/>IEEE 802.3an 10GBASE-T<br/>10GBASE-SR<br/>10GBASE-LR<br/>RMON<br/>SFF-8461</p>  |

## Download Resource

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### Support and Resources

 [Cisco Nexus 2300 Fabric Extenders Datasheet](#)

### Transition Guide

 [Guide to Upgrade Cisco Access and Backbone Switch](#)

 [Selecting Cisco Switches-Campus, Branch, Digital Building](#)

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

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