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Overview

CE7850-32Q-EI provides 32*40GE QSFP+ optical ports (each can be split into 4*10GE ports), and can be equipped with 2 pluggable power modules and 2 pluggable fan modules.

Quick Specification

Table 1 shows the Quick Specification.

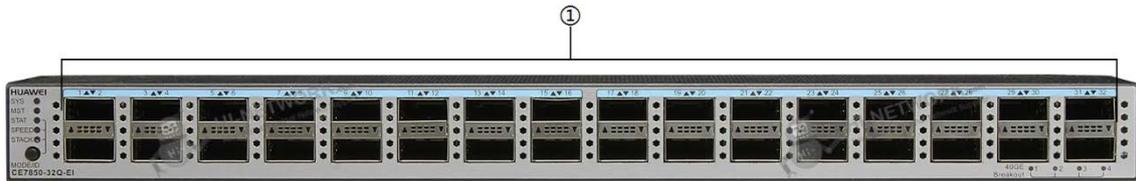
Model	CE7850-32Q-EI
Part Number	02358859
Description	32-Port 40GE QSFP+, Without Fan Box and Power Module
Ports	32 x 40 GE QSFP+ ports
Power supply	600W AC
Number of stack members/Stack bandwidth	16/640G (unidirectional)
Switching Capacity	2.56 Tbit/s
Forwarding Performance	1,440 Mpps
Maximum power consumption	431 W
Typical power consumption	271 W (100% traffic load, QSFP+ high-speed copper cables on 32 ports, double power modules)
Dimensions (W x D x H)	17.4 in. x 23.9 in. x 1.7 in. (442 mm x 607 mm x 43.6 mm)
Weight (fully loaded)	11.2 kg (24.7 lb)

Figure 1 shows the appearance of CE7850-32Q-EI.



Product Details

Figure 2 shows the front (port side) panel of CE7850-32Q-EI.



Note:

(1)	Thirty-two 40GE QSFP+ Ethernet optical ports
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Figure 3 shows the rear (power supply side) panel of CE7850-32Q-EI.



Note:

(1)	Power supply slot 1	(5)	Fan slot 2
(2)	Fan slot 1	(6)	Power supply slot 2
(3)	Console port	(7)	USB port
(4)	Barcode label	(8)	ETH management port (RJ45)

The Modules

Table 2 shows the recommended elements for the CE7850-32Q-EI.

Model	Description
	40GE QSFP+ optical transceiver
QSFP-40G-iSR4	40GBase-iSR4 Optical Transceiver, QSFP+, 40G, Multi-mode (850nm, 0.15km, MPO) (Connect to four SFP+ Optical Transceiver)
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 CE7850-32Q-EI and CE6850-48S4Q-EI.

Model	CE7850-32Q-EI	CE6850-48S4Q-EI
Fixed 10GE interfaces	None	48*10GE SFP+
Fixed 40GE interfaces	32*40GE QSFP+ A 40GE interface can be split into four 10GE interfaces	4*40GE QSFP+ A 40GE interface can be split into four 10GE interfaces
Switching Capacity	2.56 Tbit/s	1.28 Tbit/s
Forwarding Rate	1,440 Mpps	960 Mpps
Maximum power consumption	431 W	272 W
Typical power consumption	271 W	180 W

Get More Information

Do you have any question about the CE7850-32Q-EI (02358859)?

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Specification

CE7850-32Q-EI Specification	
Model	CE7850-32Q-EI
Part Number	02358859
Description	32-Port 40GE QSFP+, Without Fan Box and Power Module
Ports	32 x 40 GE QSFP+
Switching Capacity	2.56 Tbit/s
Forwarding Performance	1,440 Mpps
Airflow Design	Front-to-back or back-to-front
Device Virtualization	iStack SVF M-LAG
Network Virtualization	TRILL VXLAN routing and bridging BGP-EVPN QinQ access VXLAN IPv6 over VXLAN

SDN	Agile Controller VMware NSX
Network Convergence	FCoE DCBX, PFC, and ETS
Programmability	OPS Puppet, Ansible, and OVSDB plug-ins released on open-source websites Linux containers for open-source and customized programming
Traffic Analysis	NetStream sFlow
VLAN	Adding access, trunk, and hybrid interfaces to VLANs Default VLAN QinQ MUX VLAN GARP VLAN registration protocol (GVRP)
ACL	Ingress: 3,750; Egress: 1,000
MAC Address Table	Maximum: 288k Dynamic learning and aging of MAC addresses Static, dynamic, and black hole MAC address entries Packet filtering based on source MAC addresses MAC address limiting based on ports and VLANs
ARP	Maximum: 128k
ND	Maximum: 48k
IPv4 FIB	Maximum: 256k
IP Routing	IPv4 routing protocols, such as RIP, OSPF, BGP, and IS-IS IPv6 routing protocols, such as RIPng, OSPFv3, IS-ISv6, and BGP4+
IPv6 FIB	Maximum: 128k
IPv6	IPv6 Neighbor Discovery (ND) Path MTU Discovery (PMTU) TCP6, ping IPv6, tracer IPv6, socket IPv6, UDP6, and Raw IP6
Multicast FIB	Maximum: 8k
Multicast	IGMP, PIM-SM, PIM-DM, MSDP, and MBGP IGMP snooping Fast leave of multicast member interfaces Multicast traffic suppression Multicast VLAN
MPLS	MPLS
Reliability	LACP STP, RSTP, VBST, and MSTP BPDU protection, root protection, and loop protection Smart Link and multi-instance DLDP ERPS (G.8032) VRRP, VRRP load balancing, and BFD for VRRP

	BFD for BGP/IS-IS/OSPF/Static route
QoS	<p>Traffic classification based on L2 headers, L3 protocols, L4 protocols, and 802.1p priority</p> <p>Actions of ACL, CAR, re-marking, and scheduling</p> <p>Queue scheduling algorithms, including PQ, WRR, DRR, PQ + WRR, and PQ + DRR</p> <p>Congestion avoidance mechanisms, including WRED and tail drop</p> <p>Traffic shaping</p>
Configuration and Maintenance	<p>Console, Telnet, and SSH terminals</p> <p>Network management protocols, such as SNMP v1/v2c/v3</p> <p>File upload and download through FTP and TFTP</p> <p>BootROM upgrade and remote upgrade</p> <p>802.3az Energy Efficient Ethernet (EEE)</p> <p>Hot patches</p> <p>User operation logs</p> <p>Zero-Touch Provisioning (ZTP)</p>
Security and Management	<p>802.1x authentication</p> <p>Command line authority control based on user levels, preventing unauthorized users from using commands</p> <p>DoS, ARP, and ICMP attack defenses</p> <p>Port isolation, port security, and sticky MAC</p> <p>Binding of the IP address, MAC address, interface and VLAN</p> <p>Authentication methods, including AAA, RADIUS, and HWTACACS</p> <p>Remote Network Monitoring (RMON)</p>
Dimensions (W x D x H)	17.4 in. x 23.9 in. x 1.7 in. (442 mm x 607 mm x 43.6 mm)
Weight (fully loaded)	11.2 kg (24.7 lb)
Environment Parameters	<p>Operating temperature: 0°C to 40°C (32°F to 104°F) (0m to 1,800m)</p> <p>Storage temperature: -40°C to 70°C (-40°F to 158°F)</p> <p>Relative humidity: 5% RH to 95% RH, non-condensing</p>
Operating Voltage	90V AC to 290V AC
Maximum Power Consumption	431W

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CE7850-32Q-EI (02358859)

Datasheet



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