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Overview

Huawei CE5855-48T4S2Q-EI-F provides 48*GE line-speed ports plus 4*10 GE and 2*40G upstream ports for stacking up to 16 switches. 10 GE and 40G ports enable creation of a non-blocking stack that can extend across geographical distances between data centers. Using the Huawei VRP8 software platform, CE5800 switches support Transparent Interconnection of Lots of Links (TRILL) and have a high stacking capability (up to 16-member switches in a stack system). In addition, the airflow direction (front-to-back or back-to-front) can be changed. CE5800 switches can work with CE12800 switches to build an elastic, virtualized, high-quality fabric that meets the requirements of cloud-computing data centers. CE5800 switches provide high-density GE access to help enterprises build a scalable data center network platform for cloud computing. They can also be used as aggregation or access switches for enterprise campus networks.

Quick Specification

Table 1 shows the Quick Specification.

Model	CE5855-48T4S2Q-EI-F
Part Number	02350GTR
Description	48-Port GE RJ45, 4-Port 10G SFP+, 2-Port 40G QSFP+, 2*FAN Box, Port-side Exhaust, Without Power Module
Software Version	V100R005C10 and later
Fixed GE interfaces	48*10/100/1000BASE-T
Fixed 10GE interfaces	4*10GE SFP+
Fixed 40GE interfaces	2*40GE QSFP+ A 40GE interface can be split into four 10GE interfaces.
Fixed 100GE interfaces	None
Base-T Ports	48
SFP+ Ports	4
QSFP+ Ports	2
Switching Capacity	336 Gbit/s
Forwarding Rate	252 Mpps
Power module type	Pluggable AC or DC power module, 1+1 backup supported
Rated voltage range	100 V AC to 240 V AC, 50/60 Hz -48 V DC to -60 V DC
Maximum power consumption	103W
Airflow	Front-to-back or back-to-front, depending on the fan modules and power modules used in the chassis
Dimensions (W x D x H)	442 mm x 420 mm x 43.6 mm
Weight (fully loaded)	8.4 kg (18.5 lb)

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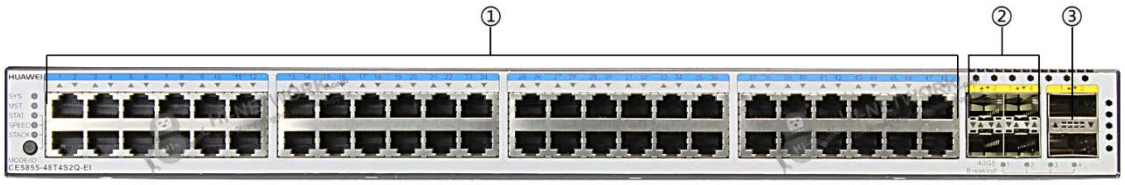
Figure 1 shows the appearance of CE5855-48T4S2Q-EI-F.

Product Details

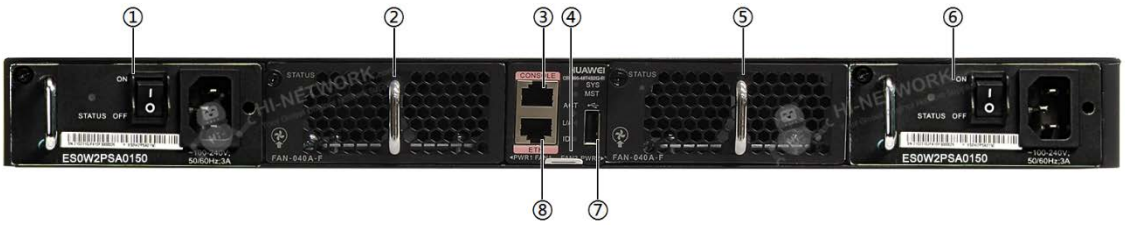
Figure 2 shows the CE5855-48T4S2Q-EI-F front view (port side).



Note:

(1)	Forty-eight 10/100/1000BASE-T Ethernet electrical ports
(2)	Four 10GE SFP+ Ethernet optical ports
(3)	Two 40GE QSFP+ Ethernet optical ports

Figure 3 shows the CE5855-48T4S2Q-EI-F rear view (power supply side).



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 CE5855-48T4S2Q-EI-F.

Model	Description
GE-SFP Optical Transceiver	
eSFP-GE-SX-MM850	Optical Transceiver, eSFP, GE, Multi-mode Module (850nm, 0.55km, LC)
SFP-GE-LX-SM1310	Optical Transceiver, eSFP, GE, Single-mode Module (1310nm, 10km, LC)
S-SFP-GE-LH40-SM1310	Optical Transceiver, eSFP, GE, Single-mode Module (1310nm, 40km, LC)
S-SFP-GE-LH40-SM1550	Optical Transceiver, eSFP, GE, Single-mode Module (1550nm, 40km, LC)
10G-SFP+ Optical Transceiver	
SFP-10G-USR	10GBase-USR Optical Transceiver, SFP+, 10G, Multi-mode Module (850nm, 0.1km, LC)
OMXD30000	Optical Transceiver, SFP+, 10G, Multi-mode Module (850nm, 0.3km, LC)
GE Copper Transceiver	
SFP-1000BaseT	Electrical Transceiver, SFP, GE, Electrical Interface Module (100m, RJ45)
FAN-040A	
FAN-040A-F	Huawei Fan box (F, FAN panel side intake) FAN-040A-F
FAN-040A-B	Huawei Fan box (B, FAN panel side exhaust) FAN-040A-B

Compare to Similar Items

Table 3 shows the comparison of CE5855-48T4S2Q-EI-F, CE5850-HI-B-B00 and CE5855-24T4S2Q-EI-B.

Model	CE5855-48T4S2Q-EI-F	CE5850-HI-B-B00	CE5855-24T4S2Q-EI-B
Software Version	V100R005C10 and later	V100R003C00 and later	V100R005C10 and later
Fixed GE interfaces	48*10/100/1000BASE-T	48*10/100/1000BASE-T	24*10/100/1000BASE-T
Fixed 10GE interfaces	4*10GE SFP+	4*10GE SFP+	4*10GE SFP+
Fixed 40GE interfaces	2*40GE QSFP+ A 40GE interface can be split into four 10GE interfaces.	2*40GE QSFP+	2*40GE QSFP+ A 40GE interface can be split into four 10GE interfaces.
Fixed 100GE interfaces	None	None	None
Base-T Ports	48	48	24
SFP+ Ports	4	4	4
QSFP+ Ports	2	2	2

Switching Capacity	336 Gbit/s	336 Gbit/s	288 Gbit/s
Forwarding Rate	252 Mpps	252 Mpps	215 Mpps
Maximum power consumption	103W	131W	75W

Get More Information

Do you have any question about the CE5855-48T4S2Q-EI-F (02350GTR)?

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Specification

CE5855-48T4S2Q-EI-F Specification	
Model	CE5855-48T4S2Q-EI-F
Part Number	02350GTR
Description	48-Port GE RJ45, 4-Port 10G SFP+, 2-Port 40G QSFP+, 2*FAN Box, Port-side Exhaust, Without Power Module
Software Version	V100R005C10 and later
Base-T Ports	48
SFP+ Ports	4
QSFP+ Ports	2
Switching Capacity	336 Gbit/s
Forwarding Rates	252 Mpps
Airflow Design	Front-to-back or back-to-front
Device Virtualization	iStack Super Virtual Fabric (SVF)
Network Virtualization	M-LAG TRILL (CE5855 & CE5850)
Programmability	Open Programmability System (OPS)
Traffic Analysis	NetStream sFlow
VLAN	Adding access, trunk, and hybrid interfaces to VLANs Default VLAN QinQ MUX VLAN GVRP
ACL	ingress: 9k egress: 2k
MAC Address Table	maximum: 64k

	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)	54k
ND (Maximum)	16k
IPv4 FIB (maximum)	32k
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)	16k
IPv6	IPv6 Neighbor Discovery (ND) Path MTU Discovery (PMTU) TCP6, ping IPv6, tracert IPv6, socket IPv6, UDP6, and Raw IP6
Multicast FIB (maximum)	2k
Multicast	IGMP, PIM-SM, PIM-DM, MSDP, and MBGP IGMP snooping Fast leave of multicast member interfaces Multicast traffic suppression Multicast VLAN
Reliability	LACP STP, RSTP, VBST, 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	Traffic classification based on Layer 2 headers, Layer 3 protocols, Layer 4 protocols, and 802.1p priority Actions of ACL, CAR, re-marking, and scheduling Queue scheduling algorithms, including PQ, WRR, DRR, PQ + WRR, and PQ + DRR Congestion avoidance mechanisms, including WRED and tail drop Traffic shaping
Configuration and Maintenance	Console, Telnet, and SSH terminals Network management protocols, such as SNMP v1/v2c/v3 File upload and download through FTP and TFTP BootROM upgrade and remote upgrade 802.3az Energy Efficient Ethernet (EEE) Hot patches User operation logs Zero-Touch Provisioning (ZTP)
Security and Management	802.1x authentication Command line authority control based on user levels, preventing unauthorized users from using commands DoS, ARP, and ICMP attack defenses Port isolation, port security, and sticky MAC Binding of the IP address, MAC address, interface number, and VLAN ID

	Authentication methods, including AAA, RADIUS, and HWTACACS Remote Network Monitoring (RMON)
Dimensions (W x D x H)	442 mm x 420 mm x 43.6 mm
Weight (fully loaded)	8.4 kg (18.5 lb)
Environmental Parameters	Operating temperature: 0°C to 40°C (32°F to 104°F) (0m to 1,800m) Storage temperature: -40°C to 70°C (-40°F to 158°F) Relative humidity: 5% to 95%, non-condensing
Operating Voltage	AC: 90V to 264V DC: -38.4V to -72V
Maximum Power Consumption	103W

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