
CS6550 (R1.1) Dual Stack 40G Data Center Ethernet Switch



■ Product Overview

CS6550 series, next-generation data center 40G Ethernet switch, is dedicatedly designed for data center and ideal as TOR or EOR switch.

CS6550-48S6Q-SI has 48 10G SFP+ and 6 40G QSFP+ ports with 1.44Tbps switching capacity. With VxLAN and SDN/OpenFlow advanced features, it is a cost-effective, high-density 10G access switch as its high performance and reliability.

■ Key Features and Benefits

➤ Performance and Scalability

With multi-core CPU and 1.44Tbps switching capacity, CS6550 supports wire-speed L2/L3 forwarding and high routing performance.

The 10 Gigabit Ethernet connectivity of CS6550-SI is accomplished via a hot-pluggable 10 Gigabit SFP+ transceiver which supports distance up to 300 meters over multimode fiber and 10 to 40km over single-mode fiber (The distance depends the optical module chosen).

➤ High Reliability

CS6550 series support modular 1+1 redundant power supplies and 4+1 redundant fans. Business won't be interrupted in case replacing power supplies and fans. System supports dual images. Even though the primary image was destroyed, system will still boot via backup image normally.

➤ Abundant Data Center Features

As new generation data center switch, CS6550 support VxLAN and SDN/OpenFlow1.0&1.3 which not only guarantees the flexibility, but also enhanced the scalability of datacenter network.

OpenFlow network is increasingly becoming a trend as the core protocol of SDN network. It makes the network easier programming OpenFlow brings the high performance to datacenter

users via self-defined network. With OpenFlow, this product is ideal to build SDN test-bed for research institutes and SDN Experimental Bureau for large ISP and operator.

➤ Flex Resource

Flex Resource is able to allocate, recover and reallocate hardware resource dynamically according to demand. It can increase the utilization of the hardware resource.

■ Specification

Item	CS6550-48S6Q-SI (R1.1)
Physical port	48 * 10G SFP+ and 6 * 40G QSFP+
Management port	Console port RJ45 10/100Mbps RJ45 Ethernet Management port USB2.0 Management port
Performance	
Switching Capacity	1440Gbps
Throughput	1071Mpps
MAC Address	48K/64K/144K
Routing Table	11K
L3 Table	16K/32K/96K
Physical	
Dimension(W*H*D)	438mm*43.80mm*473.5mm
Relative Humidity	10%~90% non-condensing
Temperature	Working 0°C~45°C, storage -40°C~75°C
Power Input	AC: 100~240V,50~60 Hz
Power Supply	1+1 Modular Redundant
Air flow	Back-to-front
Main Features	
L1, L2 Features	IEEE 802.3(10Base-T), IEEE 802.3u(100Base-TX), IEEE 802.3z(1000BASE-X)
	IEEE 802.3ab(1000Base-T), IEEE 802.3ae(10GBase), IEEE802.3x
	IEEE 802.3ak(10GBASE-CX4)
	IEEE 802.3ba
	9k Jumbo Frame
	N:1 Port Mirroring
	RSPAN
	ERSPAN

	<p>IEEE802.1d(STP) IEEE802.1w(RSTP) IEEE802.1s(MSTP) Root Guard BPDU Guard BPDU Tunnel</p> <p>802.1Q, 4096 VLAN MAC VLAN, VOICE VLAN, Protocol VLAN, Super VLAN, VxLAN</p> <p>Flow control: HOL, IEEE802.3x Bandwidth Control</p>
L3 Features	<p>Static Routing, RIPv1/v2, OSPFv2, BGP4 Policy-based Routing(PBR) VRRP URPF, ECMP</p>
QoS	<p>8 Queues SWRR, SP, WRR, DWRR, SDWRR, WRED Traffic Classification Based on 802.1p CoS, ToS, DiffServ DSCP, ACL, port number PRI Mark/Remark</p>
ACL	<p>IPv4 ACL inbound and out bound Dynamic modification of ACL Statistics ACL based Redirect ACL based</p>
Security	<p>Port isolation Anti-ARP Anti DOS-attack</p>
Network Management	<p>CLI, WEB, Telnet, SNMPv1/v2c/v3 through IPv4 and IPv6 Syslog and external Syslog server HTTP SSL SNMP MIB, SNMP TRAP FTP/TFTP SNTP/NTP RMOM 1,2,3,9 Authentication by radius SSH v1/v2 Dual firmware images/ Configuration files</p>
Data Center Features	<p>VxLAN OpenFlow 1.0 and 1.3 (support open controller Opendaylight, Floodlight, Ryu, Pox, etc.)</p>

■ Order Information

Product	Description
CS6550-48S6Q-SI (R1.1)	40G Advance Enhanced Datacenter Switch (48*10GbE(SFP+) +6*40GbE(QSFP+)) , Redundant and modular Design, High performance. Full L3 features, Default with 1 power, default with 5 fans. Air Flow back to front
M6550-AC-R	AC Power Supply Module (400W) for CS6550-48S6Q-SI (R1.1), 100V-240V. Could be purchased alone as accessory. Air Flow back to front
QSFP-SR	40G QSFP module (OM3 100m, OM4 150m), MTP
AOC-SFPX-10M	AOC cable with 2 10G(SFP+) modules, 10m, suitable for SFP+ ports on same model of switch, can be used for VSF
DAC-SFPX-3M	DAC cable with 2 10G(SFP+) modules, 3m, suitable for SFP+ ports on same model of switch, can be used for VSF
DAC-QSFP-5M	DAC cable with 2 40G(QSFP) modules, 5m, suitable for QSFP ports on same model of switch, can be used for VSF

Contact us

For more detail information about DCN product, contact:

URL: <http://www.DCNglobal.com>

Email: sales@DCNglobal.com

Address: Digital Technology Plaza, NO.9 Shangdi 9th Street, Haidian District, Beijing, China