

# 48-Port 25G Data Center Switch



CE FC RoHS

HR-DCSW4, 48-Port 25G Data Center Switch, provides 48\*25GE SFP28 ports and 8\*100GE QSFP28 ports. This Data Center Switch has a 4.0T Bandwidth and supports link-speed forwarding and 2000Mpps Packet Forward Rate. In addition, this product supports cross-device link aggregation technology to achieve device-level redundancy and high network reliability. It also supports VXLAN and EVPN technologies to implement cross-region and cross-data center data migration and flexibly allocate resources to meet the requirements of different application scenarios.

## Main features

- Support 48\* 25GE SFP28 ports+ 8\* 100GE QSFP28 ports;
- 1\* RJ45 console port,1\* RJ45 external management RJ45 port,1\* USB port;
- 4.0T Bandwidth and 2000Mpps Packet Forward Rate
- Support 1+1 redundant power supply and 2+2 intelligent fan;
- Product size: 440\* 420\* 44mm;
- Maximum power consumption ≤350W;
- Working temperature: (0 ~ 40) °C;
- Relative humidity: (10 ~ 90) % (Non-condensing)
- Power supply characteristics: DC: -40V~-57V, rated voltage -48V; AC: 100V~240V, rated voltage 110V/220V; HVDC: 190~400V, rated voltage 240V/336V

## Application environment

### Data Center:

Data center networking application scenarios

## Technical Specification

### I/O Interface

Power	DC: -40V~-57V, rated voltage -48V; AC: 100V~240V, rated voltage 110V/220V; HVDC: 190~400V, rated voltage 240V/336V
Ethernet	48* 25GE SFP28 ports; 8* 100GE QSFP28 ports 1* RJ45 console port, 1* RJ45 external management RJ45 port 1* USB port

### Performance

Bandwidth	4.0Tbps
Packet Forward Rate	2000Mpps
Memory	8Gb
Flash Memory	512Mb
Packet Cache	32Mbit
MAC Address Table	96K
Jumbo Frame	9216Kbytes
VLANs	4K VLAN

### Standard

Network Protocol	IEEE802.3 (Ethernet) IEEE 802.3ae (10G Gigabit Ethernet) IEEE 802.3by (25G Gigabit Ethernet) IEEE 802.3ba (40/100G Gigabit Ethernet) IEEE802.3x (Flow Control) IEEE 802.3az (Energy Efficient Ethernet) IEEE 802.3ad (link Aggregation) IEEE 802.1AB LLDP/LLDP-MED (Link Layer Discovery Protocol) IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) IEEE 802.1Q (Virtual VLAN) IEEE 802.1p (VLAN Label) IEEE 802.1X (User authentication)
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Certification	
Safety Certificate	CE, FCC, RoHS
Environment Standard	
Working Environment	Working Temperature: -10~50°C Storage Temperature: -40~70°C Relative Humidity : 10%~90%, non-condensing Storage Humidity: 5%~95%, non-condensing
Function Indicator	
Indicator	ID (ID indicator), MST (Stack master/slave indicator), PWR (power indicator), RAN (System running indicator)
ID	Off: The ID indicator is disabled and is in the default state. On: This indicator is used for on-site location. O&M personnel remotely control the ID indicator to turn on or off.
MST	Off: The device is not the master stack device. On: The device is the main stacking device or the device that is not stacked.
PWR	On: Powered on. Off: Powered off.
RAN	On: The device is powered on but the software is not running. Flashing slowly: The device is running normally.
Port indicator	Flashing: The link is being transmitted. Off: The link is down.
RESET botton	Press for less than 5 seconds to restart. Press and hold for more than 5 seconds to restore factory Settings.
Physical Specification	
Structure size	Product dimensions: 440*420*44mm Package dimensions: 585*635*70mm Product weight: < 8KG
Packing information	Packing quantity: 5 PCS
Power voltage	Working voltage: AC100-240V 50/60Hz
Power supply	Maximum 350W, 1+1 Redundant Power Source
Packaging list	Switch: 1PCS, Manual: 1PCS, Certificate: 1PCS, power cord: 1PCS, Rack ear 1 Pair

Software feature	
VLAN type	Support 4K VLANs; 1:1 and N: 1 802.1p-based VLAN Mapping; VLAN based on MAC, protocol and IP; Guest VLAN, Voice VLAN; QinQ, enhanced flexible QinQ
IP Routing	Support IPv4 and IPv6 static routes. GRE tunnel; Equal-cost routing; Policy routing
Multicast	Support IPv4 dynamic routing protocols such as OSPF, IS-IS, and BGP
	Support IPv6 dynamic routing protocols such as OSPFv3, ISISv6, and BGP4+
	Support IGMP, IGMP Snooping, MLD Snooping
VXLAN	Support VXLAN Layer 2 switching, route switching, and Layer 3 gateway; EVPN VXLAN; IPv6 VXLAN over IPv4
EVPN	Support EVPN; the RR function of MP-BGP EVPN; symmetric IRBs
Reliability	Support STP (IEEE 802.1d), RSTP (IEEE 802.1w) and MSTP (IEEE 802.1s)
	Support BPDU protection, Root protection, loop protection; BPDU Tunnel. Supports cross-device link aggregation
	BFD sessions can be bound to static routes, VRRP, OSPF, IS-IS, BGP, and RIP
	Support two PSUs in redundancy mode, two sets of fans in redundancy mode, and power modules and fans in hot swap mode
QoS	Support L2-L4 packet filtering based on MAC, IP, port, protocol, IP ToS, 802.1p priority, VLAN ID, and SVLAN ID
	VLAN range filtering; Support time-based ACLs
	Support DLF storm suppression, multicast storm suppression, broadcast storm suppression
	Support port-based bandwidth limiting; stream/VLAN-based bandwidth limiting (single-speed two-color); the flow of single-speed three-color, two-speed three-color; flow-based priority scheduling and priority mapping
	Support SP/PQ, DRR, SP/PQ+DRR and other scheduling algorithms; queue tail drop, WRED and other queue cache management policies
Each port supports 8* QoS hardware priority queues. Support 802.1p, DSCP/ToS priority	
IPv6	Support Neighbor Discovery (ND) and PMTU
	Support IPv6 Ping and IPv6 Telnet
	Support ACLs based on source IPv6 address, destination IPv6 address, Layer 4 port, and protocol type
	Support IPv4 and IPv6 dual stack; Support a variety of tunnel technologies
Safety feature	Support hierarchical user rights management and hierarchical command line protection. 802.1x, RADIUS, and TACACS+ authentication
	Support user level number limit; user binding (port, source MAC, source IP address access control); SNMP login terminal restrictions; SSH v2.0
	Anti-ARP attacks, DDoS attacks; Support IP Source Guard; Support black hole MAC; Support number of MAC addresses limit
Green energy saving	Support automatic fan temperature control, temperature monitoring, and fan alarm
Configuration & maintenance	Support terminal services such as Console, Telnet, and SSH
	Support SNMPv1/v2/v3 and other network management protocols. Support common feature standard MIB
	Support NETCONF network management protocol
	Support FTP, TFTP upload, download files; Support unified management of logs, alarms, and debugging information. Support user operation log; Support RMON
	Support port mirroring, flow mirroring; BootROM upgrade, remote online upgrade, hot patch

Product Picture

