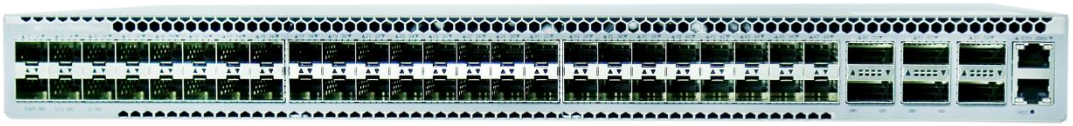

Overview

VSW6654-HI switch is a high-performance, high-density port and low latency Ethernet switch, this is a data center 10G tor switch.

Product Characteristics

High performance, full line speed forwarding

- 48 SFP+ ports and 6*40G port can be provided, L2 / L3 full line speed forwarding.

Rich data center network characteristics

- supports priority flow control (PFC), enhances transmission selection (ETS), quantifies congestion notification (qcn) and other characteristics, meets the needs of users to build packet free Ethernet in the data center, reduces user costs and simplifies management.
- support the mainstream Vxlan EVPN, and solve the problem that the VLAN number of the traditional data center network is insufficient and the scale is difficult to expand;
- support open API interfaces to meet the implementation and deployment of mainstream SDN technologies

High reliability, multiple stability protection:

- support hot plug power supply and hot plug fan, provide equipment level reliability protection, and adopt redundant backup design scheme for all key components, which greatly improves the stability and reliability of the whole machine;
- provide link level reliability protection, support VRRP, BFD and other link redundancy protocols, support cross device link aggregation technology, realize multi virtual one control plane, and ensure uninterrupted service system.

Low delay, nanosecond convergence:

- low delay, providing data packets of any size with a delay of less than 800 nanoseconds to meet the network needs of customers for high-performance computing.

Low power consumption, intelligent cooling

- The power consumption of the whole machine is less than 200W, which has the lower power consumption among the same level products in the industry. The adjustable speed fan is used to automatically adjust the fan speed according to the external environment temperature.

Hardware specification

	VSW6654-HIH
Port	48*10 SFP+ and 6*40 QSFP+ port
Hot-swappable Power Supplies	2(1+1) 250W
FAN	4(2+2) Front-to-Rear
Dimensions(H×W×D)	4.4 x 44.5 x 37 cm
Weight（kg）	10kg
Input Voltage	100 ~ 240V; 50/60H
Power Consumption	Normal: 150W MAX: 200W
Operating Temperature	0 to 45 °C
Storage Temperature	-40 to 70 °C

Software specification

Feature	VSW6654-HIH
Ethernet	Support full duplex, half duplex, and auto-negotiation duplex Support auto-negotiation port speed Support Jumbo Frame Support Flow Control Support Storm Control Support Port-block Support Port-isolate
Vlan	Support 4096 VLAN; Support Default VLAN Support VLAN mapping
LAG	Support Static Link aggregation Support LACP Support Static Load Balancing
Reliability	Support STP/RSTP/MSTP Protocol Support port Loopback Detect

	Support VRRP Support MLAG Support VARP
ARP &DHCP	Support static ARP Support dynamic ARP leaning and aging Support Gratuitous ARP Support basic ARP-Proxy and local ARP-Proxy Support DHCP Server Support DHCP Relay Support DHCP Snooping Support DHCP Client
IPv4 Forwarding	Support IPv4 static routes Support uRPF check Support RIPv1, RIPv2 Support OSPFv2 Support BGP Support Policy-based Routing (PBR) Support ECMP
IPV6	Support ICMPv6 Support NDP Support IPv6 static routes Support RIPng Support OSPFv3 Support DHCPv6
Multicast	Support IGMP v1/v2/v3 Support IGMP agent Support PIM-SM,PIM-SSM,PIM-DM Support MLD v1/v2, MLD v1/v2 snooping Support MVR and MVR6 Support PIM-SM v6
Data Center	Support priority-based flow control (PFC) Support VXLAN Support PFC Deadlock detection Support EVPN
QoS	Traffic classification: based on the combination of the MAC address, IPv4/IPv6 ddress, L2 protocol header, TCP, UTP, outgoing interface, and 802.1p field Traffic behaviors: Access control after traffic classification, Re-marking based on traffic classification (COS, DSCP) Class-based packet queuing Queue scheduling: SP/ WDRR/ SP + WDRR Congestion avoidance:

	Tail Drop, WRED (Weighted Random Early Detection)
Security	Support SSH Support Radius Support TACAS+ Support AAA Support access control list(ACL) Support IP source guard Support CPU Traffic Limit Support Prevent DDOS attack Support ACL filtering Telnet/SSH login Support Link-Flapping detection
Maintenance and Management	support Configurations through CLI (Command Line Interface) support Login through console and Telnet terminals Support Network management based on SNMPv1/v2c/v3 Support Ping、traceroute Support Upload and download files through FTP or TFTP support RMON Management of logs, alarms, and debugging information Detailed debugging information for diagnosing network faults Local Mirror(Port Mirror and VLAN Mirror)