



Overview

VSW6856-HI switch is a high-performance, high-density port and low latency Ethernet switch, VSW6856-HI is a data center 25G tor switch.

Product Characteristics

High performance, full line speed forwarding

- 48*25G ports and 8*100G 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.

Hardware specification

	VSW6856-HI
Port	48*25G SFP28 and 8*100 QSFP28 port
Hot-swappable Power Supplies	2(1+1) 550W
FAN	5(4+1) Front-to-Rear
Dimensions(H×W×D)	4.4 x 44.5 x 43 cm
Weight (kg)	9kg

	VSW6856-HI
Input Voltage	100 ~ 240V, 50/60Hz; 240VDC
Power Consumption	Normal: 280W MAX: 350W
Operating Temperature	0 to 45 °C
Storage Temperature	-40 to 70 °C

Software specification

Feature	VSW6856-HI
Ethernet	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Support 4096 VLAN; Support Default VLAN Support VLAN mapping
LAG	<ul style="list-style-type: none"> Support Static Link aggregation Support LACP Support Static Load Balancing
Reliability	<ul style="list-style-type: none"> Support STP/RSTP/MSTP Protocol Support port Loopback Detect Support VRRP Support MLAG Support VARP
ARP &DHCP	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Support IPv4 static routes Support uRPF check Support RIPv1, RIPv2 Support OSPFv2 Support BGP Support Policy-based Routing (PBR) Support ECMP
IPv6	<ul style="list-style-type: none"> Support ICMPv6 Support NDP Support IPv6 static routes Support RIPng Support OSPFv3

	Support DHCPv6
Multicast	Support IGMP v1/v2/v3 Support IGMP agent
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 address, L2 protocol header, TCP, UDP, 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)