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SW58-44R-2PS-1D-2SF-2Y



Product Features

High-density Interfaces

With the popularity of the application server network card rate from 10G, 40G to 100G, new requirements are put forward for the port bandwidth and access data center network access layer switches. SW58-44R-2PS-1D-2SF-2Y data center access switch can provide fixed 48*10G, 8*40/100G QSFP28 optical interfaces. The combination fully satisfies the interface combination and density requirement of data center construction for access-layer switches.

Support H-VST/M-VST technology

SW58-44R-2PS-1D-2SF-2Y other core switches realizes "vertical virtualization". Inserted with 40G/100G fiber, it can automatically realize virtual management site installation is convenient. A maximum of 128 devices can be virtualized to a virtual device without the need to plan the interconnection address and management address. Telnet a core device is equivalent to logging into more than 100 switches at the same time. There is no need to maintain and memorize the complex configuration. Through the global configuration command, a command is also effective on more than 100 devices at the same time, which greatly improves the daily maintenance efficiency of customers.

Large-capacity port buffer technology

SW58-44R-2PS-1D-2SF-2Y uses the large-capacity port buffer design, and a single port can have 200ms data buffer capacity. With the VoQ hardware virtual traffic control technology, it can fully adapt to the application model of the new-generation data center with large data flow and frequent instantaneous flow burst.

Comprehensive green environmental protection and energy saving design

The advanced power management mechanism of switching chips can reduce the power consumption of the standby Ethernet ports, saving 25% power consumption for the whole device. Temperature monitoring and fan stepless speed regulation effectively reduce the environmental noise and extend the life of the hardware components, meeting the green energy saving requirements of the data center room.



Product Specifications

Hardware specifications

Physical ports	Fixed 48 10G SFP+ optical interfaces, 8 100/40G QSFP28 optical interfaces.
Management interface	One Console port, one management Ethernet port, one USB interface
Redundant design	Support power redundancy, 1+ 1 backup mode
Switching capability (bps)	2.56Tbps
Power	Two Power Slots
	Input voltage (AC): 100V ~ 240V, 50Hz ~ 60Hz
Temperature	Work temperature: 0°C to 50°C
	Storage temperature: -40°C to 70°C
Humidity	Work humidity: 10% to 90%, no-condensing
	Storage humidity: 5% to 95%, no-condensing
Dimension (W×D×H)	442mm×420mm×44.2mm
MTBF	>100, 000 hours

Software Features

Standard L2 protocol	Interface	Port Type UNI/NNI, Port Speed, Port MTU, Port Loopback, Loopback interface, Tunnel interface, Null interface, VXLAN interface
	Ethernet Swithing	LACP Link aggregation, LACP Port Priority, LACP Load Balance, LACP Rate Monitor, LACP Debug, Port isolation, QinQ, VLAN mapping, Super VLAN, PVLAN, Voice VLAN, STP, MSTP, Loopback-detection, Errordisable, GVRP, MLAG, VLAN isolation
Standard L3 protocol	IP Protocol	ARP, DHCP, DHCPv6, DHCP Server, DHCPv6 Server, DHCPv6 Client, DHCP Relay, DHCPv6 Relay, DHCP Option82, DNS, GRE, IPIP, IPv6 over IPv4, ISATAP, IPv4 over IPv6, IPv6 over IPv6
	Routing Protocol	Static route for IPv4&IPv6, RIPv1/v2, RIPng, OSPFv2, OSPFv3, IS-IS, IS-ISv6, BGP, BGPv6, Policy Route
Multicast	L2 multicast	IGMPv1/v2/v3 Snooping, multicast VLAN
	L3 multicast	IGMPv1/v2/v3, PIM-SM, IPv6 PIM-SM, IPv6 PIM-SSM, PIM-DM, MSDP, MLD-snooping

QoS & ACL		management, Congestion avoidance, Flow-based mirroring
	ACL	Standard IP ACL, extended IP ACL, standard MAC ACL, extended MAC ACL, extended Hybrid ACL, Standard IPv6 ACL, extended IPv6 ACL
Data center feature	Data center feature	TRILL, M-LAG, VXLAN, BGP-EVPN, NLB, OpenFlow, Netconf
MPLS	BGP MPLS	MPLS LDP, MPLS GR, M-VRF, MPLS L3 VPN
Virtualization	VST	H-VST, M-VST
	MAD	MAD LACP, MAD BFD, MAD Fast-hello
Security & Network Reliability	Security	ARP Check, AARF, AARF ARP-Guard, CPU Protection, Port Security, IP Source Guard, IPv6 Source Guard, ND-Snooping, DHCP Snooping, DHCPv6 Snooping, Dynamic ARP Inspection, Host Guard, PPPoE+, AAA, 802.1x, Portal Authentication, Anti-attack detect drop flood log, URPF
	Network Reliability	HA, ULFD, ERPS, ULPP, Monitor Link, VRRP, VRRPv3, VBRP, BFD, EEP
Management	Network Monitoring	SNMP v1/v2/v3, MIB, RMON, SYSLOG, DNS, CLI, Telnet, FTP/TFTP, Debug, NTP, Keepalive Gateway
	Network Monitoring	SPAN, RSPAN, ERSPAN, VLAN SPAN, IPFIX, LLDP, IP-SLA, CWMP, Telemetry, BSM

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Order Information

Product model	Description
Distribution switch	48*10G SFP+ optical interfaces, 8*40/100G QSFP28 optical interfaces, five modular fan slots and dual modular power slots x1
Power Supply Module	AC power module, 550W, AC input 100-240V, support hot-swap, draw air outward x2
Fan Modules	Modular Fan Slot, Hot-swappable, front in rear out x5
DAC stacking cable	QSFP DAC stacking cable, QSFP to QSFP, 40Gbps, 1 meters length x1
Optical module	40G QSFP+ 1310nm 40km LC DDM Single-mode x2



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