



H3C S9850 Series Data Center Switches

Product overview

H3C S9850 high-density intelligent series switches is developed for data centers and cloud computing networks. It provides powerful hardware forwarding capacity and abundant data center features. It provides up to 32*100G ports and 2 out-of-band management ports (one fiber port and one copper port). The 100G ports are 100G/40G autosensing and each can be split into four interfaces. This enables the switch to provide up to 128*25G or 10G ports. The switch supports modular power supplies and fan trays. By using different fan trays, the switch can provide field-changeable airflows.

The switch is an ideal product for high-density 100GE or 25GE accessing and aggregation at data centers and cloud computing networks. It can also operate as a TOR access switch on an overlay or integrated network.

Views

The S9850 series switches includes 3 models:

- S9850-4C
- S9850-32H
- S9850-32H-G

S9850-4C

The switch provides 4 × service slots, 2 × 1G SFP ports, 2 × fan tray slots, 2 × out-of-band management ports, 1 × mini USB console port, and 1 × USB port. The switch uses 650W AC or DC removable power modules and supports 2+2 power module redundancy.



S9850-4C front view



S9850-4C rear view

S9850-32H

The switch provides 32 × 100G QSFP28 ports, 2 × 1G SFP ports, 5 × fan tray slots, 2 × out-of-band management ports, 1 × mini USB console port, and 1 × USB port. The switch uses 650W AC or DC removable power modules and supports 1+1 power module redundancy.



S9850-32H front view



S9850-32H rear view

S9850-32H-G

The switch provides 32 × 100G QSFP28 ports or 16 × 100G QSFP28 ports and 4 × 400G QSFP-DD ports.



S9850-32H-G front view



S9850-32H-G rear view

Features and highlights

High port density and powerful forwarding capacity

The switch offers high-density 100G/40G/25G/10G ports and a forwarding capacity as high as 6.4Tbps, which enables the switch to provide high-density server access in high-end data centers without oversubscriptions.

IRF2 (second generation intelligent resilience architecture)

- Facing the application requirements of the unified switching architecture of the data center, the series switches support the IRF2 technology, which virtualizes multiple devices into one logical.
- The equipment has strong advantages in scalability, reliability, distributed and availability.
- IRF2 not only can achieve a long-distance intelligent elastic architecture within a rack, across racks, and even across regions.
- For S9850-32H-G, IRF stacking convergency time less than 50 milliseconds.

Abundant data center features

The switch supports abundant data center features, including:

- H3C S9850 series switches supports VXLAN (Virtual Extensible LAN), which provides two major benefits, higher scalability of Layer 2 segmentation and better utilization of available network paths.
- H3C S9850 series switches supports MP-BGP EVPN (Multiprotocol Border Gateway Protocol Ethernet Virtual Private Network) which can run as VXLAN control plane to simplify VXLAN configuration, eliminate traffic flooding and reduce full mesh requirements between VTEPs via the introduction of BGP RR.
- H3C S9850 series switches support Fiber Channel over Ethernet (FCoE), which permits storage, data, and computing services to be transmitted on one network, reducing the costs of network construction and maintenance.
- H3C S9850 series switches support Priority-based Flow Control (PFC), Enhanced Transmission Selection (ETS) and Data Center Bridging eXchange (DCBX). These features ensure low latency and zero packet loss for FC storage, RDMA applications and high-speed computing services.

H3C distributed resilient network interconnection (DRNI)

- H3C S9850 series switches support DRNI(M-LAG), which enables links of multiple switches to aggregate into one to implement device-level link backup. DRNI is applicable to servers dual-homed to a pair of access devices for node redundancy.
- Streamlined topology: DRNI simplifies the network topology and spanning tree configuration by virtualizing two physical devices into one logical device.
- Independent upgrading: The DR member devices can be upgraded independently one by one to minimize the impact on traffic forwarding.
- High availability: The DR system uses a keepalive link to detect multi-active collision to ensure that only one member device forwards traffic after a DR system splits.

Powerful visibility

With the rapid development of data center, the scale of the data center expands rapidly; reliability, operation and maintenance become the bottleneck of data center for further expansion. H3C S9850 series switches conform to the trend of automated data operation and maintenance, and support visualization of data center.

- INT (Inband-Telemetry) is a network monitoring technology used to collect data from the device. Compared with the traditional network monitoring technology featuring one query, one reporting, INT requires only one-time configuration

for continuous data reporting, thereby reducing the request processing load of the device. INT can collect timestamp information, device ID, port information, and buffer information in real time. INT can be implemented in IP, EVPN, and VXLAN networks.

- Provides a variety of traffic monitoring and analytic tools, including sFlow, NetStream, SPAN/RSPAN/ERSPAN mirroring, and port mirroring to help customers perform precise traffic analysis and gain visibility into network application traffic. With these tools, customers can collect network traffic data to evaluate network health status, create traffic analysis reports, perform traffic engineering, and optimize resource allocation.
- Supports realtime monitoring of buffer and port queues, allowing for visible and dynamic network optimization.
- Supports PTP (Precision Time Protocol) to achieve highly precise clock synchronization.

RoCE (RDMA over converged Ethernet)

- Remote Direct Memory Access (RDMA) directly transmits the user application data to the storage space of the servers, and uses the network to fast transmit the data from the local system to the storage of the remote system. RDMA eliminates multiple data copying and context switching operations during the transmission process, and reduces the CPU load.
- RoCE supports RDMA on standard Ethernet infrastructures. H3C S9850 switch support RoCE and can be used to build a lossless Ethernet network to ensure zero packet loss.
- RoCE include the following key features, include PFC(Priority based Flow Control), ECN(Explicit Congestion Notification), DCBX(Data Center Bridging Capability Exchange Protocol), ETS(Enhanced Transmission Selection).

Flexible programmability

- The switch uses industry-leading programmable switching chips that allow users to define the forwarding logic as needed.
- Users can develop new features that meet the evolving trend of their networks through simple software updates.

Powerful SDN capacity

- H3C S9850 series switches adopt the next-generation chip with more flexible Openflow FlowTable, more resources and accurate ACL matching, which greatly improves the software-defined network (SDN) capabilities and meet the demand of data center SDN network.
- H3C S9850 series switches can interconnect with H3C SeerEngine-DC Controller through standard protocols such as OVSDB, Netconf and SNMP to implement network automatic deployment and configuration.

Comprehensive security control policies

- H3C S9850 series switch supports AAA, RADIUS and user account based authentication, IP, MAC, VLAN, port-based user identification, dynamic and static binding; when working with the H3C iMC platform, it can conduct real time management, instant diagnosis and crackdown on illicit network behavior.
- H3C S9850 series switch supports enhanced ACL control logic, which enables an enormous amount of inbound and outbound ACL, and delegate VLAN based ACL. This simplifies user deployment process and avoids ACL resource wastage. S9850 series switch can also take advantage of Unicast Reverse Path Forwarding (Unicast RPF). When the device receives a packet, it will perform the reverse check to verify the source address from which the packets are supposedly originated, and will drop the packet if such path doesn't exist. This can effectively prevent the

source address spoofing in the network.

Multiple reliability protection

- The S9850 series switch provides multiple reliability protection at both switch and link levels. With over current, overvoltage, and overheat protection, all models have a redundant pluggable power module, which enables flexible configuration of AC or DC power modules based on actual needs. The entire switch supports fault detection and alarm for power supply and fan, allowing fan speed to change to suit different ambient temperatures.
- The switch supports diverse link redundancy technologies such as H3C proprietary RRPP, VRRPE, and Smart Link. These technologies ensure quick network convergence even when large amount of traffic of multiple services runs on the network.

Flexible choice of airflow

To cope with data center cooling aisle design, the H3C S9850 series switch comes with flexible airflow design, which features bi-cooling aisles in the front and back. Users may also choose the direction of airflow (from front to back or vice versa) by selecting a different fan tray.

Excellent manageability

The switch improves system management through the following ways:

- Provides multiple management interfaces, including the serial console port, mini USB console port, USB port, two out-of-band management ports, and two SFP ports. The SFP ports can be used as in-band management port through which encapsulated sampling packets are sent to the controller or other management devices for deep analysis.
- Supports multiple access methods, including SNMPv1/v2c/v3, Telnet, SSH 2.0, SSL, and FTP.
- Supports standard NETCONF APIs that allow users to configure and manage the switch, enhancing the compatibility with third-party applications.

Technical specifications

Hardware specifications

Item	S9850-4C	S9850-32H	S9850-32H-G
Chassis	LS-9850-4C /LS-9850-4C-H1	LS-9850-32H-H1	LS-9850-32H-G
Dimensions (H × W × D)	88.1 × 440 × 660 mm (3.47 × 17.32 × 25.98 in)	43.6 × 440 × 460 mm (1.72 × 17.32 × 18.11 in)	43.6 × 440 × 400 mm (1.72 × 17.32 × 15.75 in)
Weight(Full loaded)	≤ 27 kg (59.53 lb)	≤ 15 kg (33.07 lb)	≤8kg(17.64 lb)
Serial console port	1	1	1
Out-of-band management port	One GE copper port and one GE fiber port	One GE copper port and one GE fiber port	One GE fiber port

Item	S9850-4C	S9850-32H	S9850-32H-G
Mini USB console port	1	1	-
USB port	1	1	1
QSFP-DD port			4(max)
QSFP28/QSFP+	/	32	32(max)
SFP port	2	2	-
Expansion slot	4	-	-
CPU	LS-9850-4C-H1: 4 cores, 2.2 GHz	LS-9850-32H-A: 4 cores, 2.4 GHz LS-9850-32H-H1: 4 cores, 2.2 GHz	FT 2000, 2 cores, 2.2 GHz
Flash/SDRAM	8GB/8GB	LS-9850-32H-A: 4GB/8GB LS-9850-32H-H1: 8GB/8GB	2GB/4GB
Latency	< 1μs (64-byte)	< 1μs (64-byte)	25GE< 3 μs(64 byte) 100GE< 1.2 μs(64 byte)
Switching capacity	6.4 Tbps	6.4 Tbps	6.4 Tbps
Forwarding capacity	2024 Mpps	2024 Mpps	1020Mpps
Buffer	32M	32M	36M
AC-input voltage	90v to 264v	90v to 264v	90V~290V
DC-input voltage	-40v to -72v	-40v to -72v	-36V~-72V
Power module slot	4	2	2
Fan tray slot	2	5	5
Air flow direction	From front to rear or from rear to front	From front to rear or from rear to front	From front to rear or from rear to front
Typical power consumption	With four LSWM18CQ modules: 355 W With four LSWM18CQMSEC modules: 443 W With four LSWM116Q modules: 311 W With four LSWM18QC modules: 251 W With four LSWM124XG2Q modules: 363 W With four LSWM124XGT2Q modules: 487 W With four LSWM124XG2QFC modules: 363 W With four LSWM124XG2QL modules: 275 W With four LSWM124TG2H modules: 355 W With four LSWM116FC modules: 311 W	Single AC: 198 W Dual AC: 210 W Single DC: 197 W Dual DC: 208 W	Single AC: 222 W Dual AC: 227 W Single DC: 232W Dual DC: 234W

Item	S9850-4C	S9850-32H	S9850-32H-G
Maximum power consumption	With four LSWM18CQ modules: 688 W With four LSWM18CQMSEC modules: 748 W With four LSWM116Q modules: 616 W With four LSWM18QC modules: 496 W With four LSWM124XG2Q modules: 616 W With four LSWM124XGT2Q modules: 868 W With four LSWM124XG2QFC modules: 616 W With four LSWM124XG2QL modules: 520 W With four LSWM124TG2H modules: 688 W With four LSWM116FC modules: 616 W	Single AC input: 376 W Dual AC inputs: 385 W Single DC input: 373 W Dual DC inputs: 377 W	Single AC input: 400 W Dual AC inputs: 390 W Single DC input: 426 W Dual DC inputs: 414 W
Typical thermal consumption	With four LSWM18CQ modules: 1211 BTU/hr With four LSWM18CQMSEC modules: 1512 BTU/hr With four LSWM116Q modules: 1061 BTU/hr With four LSWM18QC modules: 856 BTU/hr With four LSWM124XG2Q modules: 1239 BTU/hr With four LSWM124XGT2Q modules: 1662 BTU/hr With four LSWM124XG2QFC modules: 1239 BTU/hr With four LSWM124XG2QL modules: 938 BTU/hr With four LSWM124TG2H modules: 1211 BTU/hr With four LSWM116FC modules: 1061 BTU/hr	Single AC input: 676 BTU/hr Dual AC inputs: 717 BTU/hr Single DC input: 672 BTU/hr Dual DC inputs: 710 BTU/hr	Single AC: 757 BTU/hr Dual AC: 775 BTU/hr Single DC: 792 BTU/hr Dual DC: 789 BTU/hr
MTBF(years)	45.8	27.2	64.02
MTTR(hour)	1	1	1
Operating temperature	0°C to 45°C (32°F to 113°F)	0°C to 45°C (32°F to 113°F)	0°C to 45°C (32°F to 113°F)
Operating humidity	5% to 95%, noncondensing	5% to 95%, noncondensing	5% to 95%, noncondensing

Software specifications

Item	Description
Device virtualization	IRF M-LAG(DRNI) S-MLAG
Network virtualization	BGP-EVPN VxLAN EVPN ES

Item	Description
VXLAN	L2 VXLAN gateway L3 VXLAN gateway Distributed VXLAN gateway Centralized VXLAN gateway EVPN VXLAN manual configured VXLAN IPv4 VXLAN tunnel IPv6 VXLAN tunnel QinQ VXLAN access
SDN	H3C SeerEngine-DC
Lossless network	PFC and ECN DCBX RDMA and ROCE PFC deadlock watchdog ECN overlay ROCE stream analysis
Programmability	Openflow1.3 Netconf Ansible Python//TCL/Restful/Restconf API to realize DevOps automated operation and maintenance Openflow1.3
Traffic analysis	Sflow Netstream
VLAN	Port-based VLANs Mac-based VLAN ,Subnet-based VLAN and Protocol VLAN VLAN mapping QinQ MVRP(Multiple VLAN Registration Protocol) Super VLAN PVLAN
MAC address	Dynamic learning and aging of mac address entries Dynamic,static and blackhole entries Mac address limiting on ports

Item	Description
IPv4 routing	Static routing and default routing RIP(Routing Information Protocol) v1/v2 OSPF (Open Shortest Path First) v1/v2 ISIS(Intermediate System to Intermediate system) BGP (Border Gateway Protocol) Routing policy VRRP PBR
IPv6 routing	Static routing and default routing RIPng OSPFv3 IPv6 ISIS BGP4+ Routing policy VRRP PBR
MPLS/VPLS	Support L3 MPLS VPN Support L2 VPN: VLL (Martini, Kompella) Support VPLS, VLL Support hierarchical VPLS and QinQ+VPLS access Support P/PE function Support LDP protocol Support MCE Support MPLS OAM
Multicast	IGMP snooping MLD snooping IPv4 and IPv6 multicast VLAN IPv4 and IPv6 PIM snooping IGMP and MLD PIM and IPv6 PIM MSDP Multicast VPN

Item	Description
Reliability	LACP STP/RSTP/MSTP protocol, PVST/PVST+/ RPVST+ compatible STP Root Guard and BPDU Guard RRPP and ERPS Ethernet OAM Smartlink DLDP BFD for OSPF/OSPFv3, BGP/BGP4, IS-IS/IS-ISv6, PIM/IPM for IPv6 and Static route VRRP and VRRPE LACP
FC/FCoE	FC, FC subcard is supported on S9850-4C FCOE
QoS	Weighted Random Early Detection (WRED) and tail drop Flexible queue scheduling algorithms based on port and queue, including strict priority (SP), Weighted Deficit Round Robin (WDRR), Weighted Fair Queuing (WFQ), SP + WDRR, and SP + WFQ. Traffic shaping Packet filtering at L2 (Layer 2) through L4 (Layer 4); flow classification based on source MAC address, destination MAC address, source IP (IPv4/IPv6) address, destination IP (IPv4/IPv6) address, port, protocol, and VLAN to apply qos policy,including mirroring,redirection,priority remark etc. Committed access rate (CAR)
QoS	Account by packet and byte COPP
Forwarding	Hardware-based(ASIC)Wire-speed/Line-rate architecture
Telemetry	gRPC ERSPAN Mirror on drop Telemetry Stream INT iNQA Packet trace, Packet capture

Item	Description
Configuration and maintenance	Console telnet and SSH terminals SNMPv1/v2/v3 ZTP System log File upload and download via FTP/TFTP BootRom update and remote update NQA ping,tracert VxLAN ping and VxLAN tracert NTP PTP(1588v2) GIR Graceful Insertion and Removal
Security and management	Macsec, Macsec subcard is supported on S9850-4C and only 100G macsec subcard can support 256-bit AES encryption Micro-Segmentation Hierarchical management and password protection of users Authentication methods,including AAA,RADIUS and HWTACACS Support DDos, ARP attack and ICMP attack function IP-MAC-port binding and IP Source Guard SSH 2.0 HTTPS SSL PKI Boot ROM access control (password recovery) RMON No license required for switch hardware and software functions MACsec (Media Access Control Security) All ports AES256 MACsec (for S9850-32H-G)
TAP (Only for S9850-32H-G)	Support N:M replication based on port and traffic, with M or N $\geq$ 48. Support GRE tunnel encapsulation stripping, support same source and same host, support packet truncation. Support source port identification. Support adding timestamps and Ethernet headers. Identify specified packets, modify MAC address or IP address, and then copy and forward.

Item	Description
EMC	FCC Part 15 Subpart B CLASS A ICES-003 CLASS A VCCI CLASS A CISPR 32 CLASS A EN 55032 CLASS A AS/NZS CISPR32 CLASS A CISPR 24 EN 55024 EN 61000-3-2 EN 61000-3-3 ETSI EN 300 386 GB/T 9254 YD/T 993
IEEE standard	802.3x/802.3ad/802.3AH/802.1P/802.1Q/802.1X/802.1D/802.1w/802.1s/802.1AG 802.1x/802.1Qbb/802.1az/802.1Qaz
Safety	UL 60950-1 CAN/CSA C22.2 No 60950-1 IEC 60950-1, EN 60950-1 AS/NZS 60950-1 FDA 21 CFR Subchapter J GB 4943.1

- The options may be different depending on the specific requirement. Restrictions and limitations may apply. To confirm availability, refer to related user guide or visit H3C website <https://www.h3c.com/en/home/htb/>.

Performance and scalability

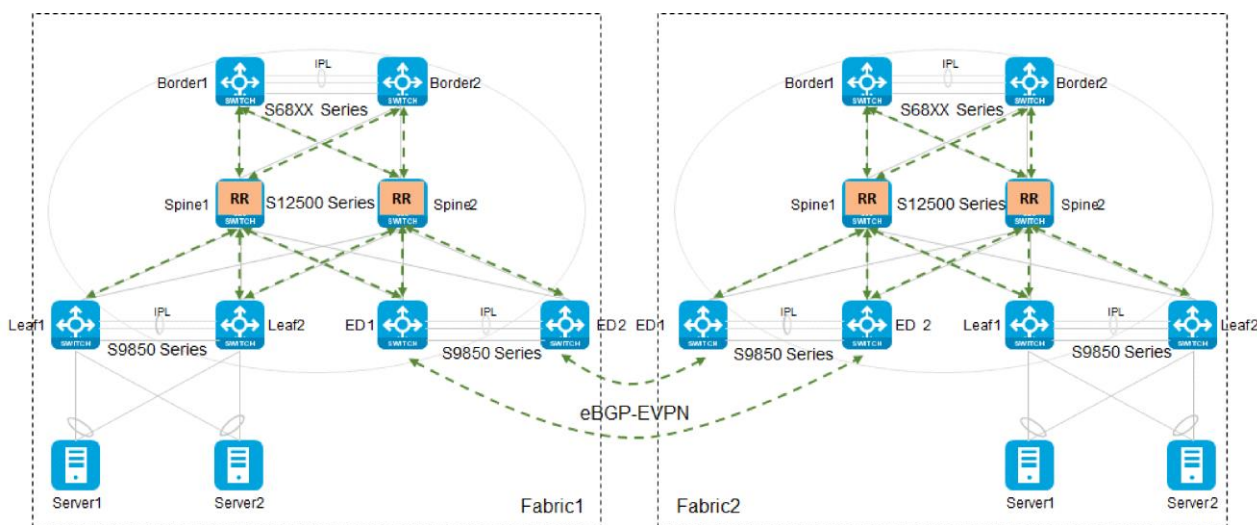
Item		S9850-4C/32H	S9850-32H-G
Virtualization	IRF stack	10	9
	M-LAG device number	2	2
	ED group	8	-
ACL	max number of ingress ACLs	18K/pipe, total 2 pipes	26K
	max number of ingress Car	2304/pipe, total 2 pipes	8191
	max number of ingress Counter	10752/pipe, total 2 pipes	26K
	max number of egress ACLs	2048	1.5K
	max number of egress Car	1K	1.5K

Item		S9850-4C/32H	S9850-32H-G
	max number of egress Counter	1K	1.5K
Forwarding table	Jumbo frame length(byte)	9416	13312
	Mirroring group	4	8
	PBR policy	1000	1024
	PBR node	256	8192
	max number of MACs per switch	288K max	288K max
	max number of ARP entries IPv4	272K max	78k
	max ND table size for IPv6	136K max	78K
	max number of unicast routes IPv4	324K max	768k max
	max number of unicast routes IPv6	262K max	64K
	IPv4 I2 multicast group	4000	8K
	IPv4 I3 multicast group	4000	8K
	IPv4 multicast routing	128K	100k
	IPv6 I2 multicast group	4000	8K
	IPv6 I3 multicast group	4000	8K
	IPv6 multicast routing	64K	64k
	LAGG group	1024	256
	LAGG member per group	256	64
	ECMP group	max 4K	1023
	ECMP member per group	2-128	64
	VRF	4095	4K
Interface	Loopback interface number	1K	-
	L3 sub interface number	2500	4094
	SVI interface number	4K	4094
	VxLAN AC number	16K	8176
	VxLAN VSI number	16K	4096
	VxLAN tunnel number	2K	4K
	VSI interface number	8K	8K
	IPv4 tunnel number	2K	1024
	IPv6 tunnel number	2K	1024
	VLAN number	4094	4K
Performance	RIB	1M	768k max
	MSTP instance	64	128
	PVST instance	510	128
	PVST logical port number	2000	Port number*VLAN number<200

Item		S9850-4C/32H	S9850-32H-G
	VRRP VRID	255	255
	VRRP group	256	4k
	NQA group	32	64
Static table	static mac-address	4000	20K
	static multicast mac-address	1K	256
	static ARP	1K	78K
	static ND	4K	1k
	static IPv4 routing table	2K	No limit
	static IPv6 routing table	4000	No limit

Application scenarios

The typical data center application is an EVPN-VxLAN design, S12500G-AF or S12500X-AF switches work as spine or spine/border, S9850 series work as leaf and border or ED. From this design ,the users can get a non-blocking large L2 system.



Ordering information

Item		Description
Chassis	LS-9850-4C-H1	H3C S9850-4C-H1 L3 Ethernet Switch with 4*Interface Module Slots
	LS-9850-32H-H1	H3C S9850-32H L3 Ethernet Switch with 32 QSFP28 Ports

Item		Description
	LS-9850-32H-G	H3C S9850-32H-G L3 Ethernet Switch with 16*QSFP28 Ports and 16*QSFP28 Ports or 4*QSFP-DD Ports, Without Power Supplies
Power	LSVM1AC650	650W AC Power Supply Module(Air Inlets in Panel)
	LSVM1DC650	650W DC Power Supply Module(Air Inlets in Panel)
	PSR450-12A1	450W AC Power Supply Module (Power Panel Side Exhaust Airflow) , for LS-9850-32H-G
	PSR450-12A	450W AC Power Supply Module (Power Panel Side Intake Airflow) , for LS-9850-32H-G
	PSR450-12D	450W DC Power Supply Module (Power Panel Side Exhaust Airflow) , for LS-9850-32H-G
Fan	LSWM1FANSA	Fan Module (SW, 4056, DC, Fan Panel Side Intake Airflow)
	LSWM1FANSAB	Fan Module (SW, 4056, DC, Fan Panel Side Exhaust Airflow)
	LSWM1BFANSC	Fan Module (Fan Panel Side Intake Airflow)
	LSWM1BFANSCB	Fan Module (Fan Panel Side Exhaust Airflow)
	LSPM1FANSA-SN	H3C Fan Module (Fan Panel Side Intake Airflow), for LS-9850-32H-G
	LSPM1FANSB-SN	H3C Fan Module (Fan Panel Side Exhaust Airflow) , for LS-9850-32H-G
Module	LSWM18QC	8-Port QSFP Plus Interface Card
	LSWM124XG2Q	24-Port SFP Plus and 2-Port QSFP Plus Interface Card with MACSec
	LSWM124XGT2Q	24-Port 10GBASE-T and 2-Port QSFP Plus Interface Card with MACSec
	LSWM124XG2QL	24-Port SFP Plus and 2-Port QSFP Plus Interface Card
	LSWM124XG2QFC	24 Ports SFP Plus and 2 Ports QSFP Plus Interface Card with FC
	LSWM18CQ	H3C 8-Port 100G Ethernet Optical Interface Module(QSFP28)
	LSWM116Q	H3C 16-Port 40G Ethernet Optical Interface Module(QSFP Plus)
	LSWM124TG2H	H3C 24-Port 25G Ethernet Optical Interface (SFP28) and 2-Port 100G Ethernet Optical Interface (QSFP28) Module
	LSWM18CQMSEC	H3C 8-Port 100G MACSEC Ethernet Optical Interface Module(QSFP28)
Transceiver	SFP-GE-LH80-SM1550	1000BASE-LH80 SFP Transceiver, Single Mode (1550nm, 80km, LC)
	SFP-FE-LX-SM1310-A	100BASE-LX SFP Transceiver, Single Mode (1310nm, 15km, LC)
	SFP-FE-SX-MM1310-A	100BASE-FX SFP Transceiver, Multi-Mode (1310nm, 2km, LC)
	SFP-FE-LH40-SM1310	100BASE-LH40 SFP Transceiver, Single Mode (1310nm, 40km, LC)
	SFP-GE-LX-SM1310-A	1000BASE-LX SFP Transceiver, Single Mode (1310nm, 10km, LC)
	SFP-GE-LH40-SM1310	1000BASE-LH40 SFP Transceiver, Single Mode (1310nm, 40km, LC)
	SFP-GE-LH40-SM1550	1000BASE-LH40 SFP Transceiver, Single Mode (1550nm, 40km, LC)
	SFP-GE-SX-MM850-A	1000BASE-SX SFP Transceiver, Multi-Mode (850nm, 550m, LC)
	SFP-GE-T	SFP GE Copper Interface Transceiver Module (100m,RJ45)
Cable	QSFP-100G-4SFP-25G-CAB-5M	100G QSFP28 to 4x25G SFP28 5m Passive Cable
	QSFP-100G-4SFP-25G-CAB-3M	100G QSFP28 to 4x25G SFP28 3m Passive Cable

Item		Description
	QSFP-100G-4SFP-25G-CAB-1M	100G QSFP28 to 4x25G SFP28 1m Passive Cable
	QSFP-100G-D-CAB-5M	100G QSFP28 to 100G QSFP28 5m Passive Cable
	QSFP-100G-D-AOC-20M	100G QSFP28 to 100G QSFP28 20m Active Optical Cable
	QSFP-100G-D-AOC-10M	100G QSFP28 to 100G QSFP28 10m Active Optical Cable
	QSFP-100G-D-AOC-7M	100G QSFP28 to 100G QSFP28 7m Active Optical Cable
	QSFP-100G-D-CAB-3M	100G QSFP28 to 100G QSFP28 3m Passive Cable
	QSFP-100G-D-CAB-1M	100G QSFP28 to 100G QSFP28 1m Passive Cable
	QSFP-40G-D-AOC-20M	40G QSFP+ to 40G QSFP+ 20m Active Optical Cable
	QSFP-40G-D-AOC-10M	40G QSFP+ to 40G QSFP+ 10m Active Optical Cable
	QSFP-40G-D-AOC-7M	40G QSFP+ to 40G QSFP+ 7m Active Optical Cable
	LSWM1QSTK5	40G QSFP+ to 4x10G SFP+ Cable 5m
	LSWM1QSTK4	40G QSFP+ to 4x10G SFP+ Cable 3m
	LSWM1QSTK3	40G QSFP+ to 4x10G SFP+ Cable 1m
	LSWM1QSTK2	40G QSFP+ Cable 5m
	LSWM1QSTK1	40G QSFP+ Cable 3m
	LSWM1QSTK0	40G QSFP+ Cable 1m



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