H3C S6520X-SI Series Multi-Gigabit 10GE Switches

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Product overiew

H3C S6520X-SI Switch Series —Industry-leading high performance and scalable 10GE access switching solution with modular dual power, fixed or modular uplinks (10GbE/40GbE) and IRF for resiliency. The series offers OSPF/BGP and multicast, SDN enabled and flexible management.

The S6520X-SI switch series contains the following models:

- H3C S6520X-10XT-SI—provides 8 × 1G/2.5G/5G/10GBase-T Ports , 2 × 1G/10GBase-X SFP Plus Ports
- H3C S6520X-16XT-SI—provides 14 × 1G/2.5G/5G/10GBase-T Ports， 2 × 1G/10GBase-X SFP Plus Ports
- H3C S6520X-16ST–SI—provides 16 × 1/10G SFP+ ports (2 Combo 1G/2.5G/5G/10G Base-T Multi-giga ports), 2 × power module slots
- H3C S6520X-18C-SI—provides 16 × 1/10G SFP+ ports, 1 × expansion slot, 2 × power module slots
- H3C S6520X-24ST–SI—provides 24 × 1/10G SFP+ ports, (2 Combo 1G/2.5G/5G/10G Base-T Multi-giga ports), 2 × power module slots
- H3C S6520X-26C–SI—provides 24 × 1/10G SFP+ ports, 1 × expansion slot, 2 × power module slots
- H3C S6520X-26MC-SI—provides 24 × 1G/2.5G/5GBase-T, 1 × expansion slot, 2 × power module slots
- H3C S6520X-26MC-UPWR-SI—provides 24 × 100M/1G/2.5G/5GBase-T(UPOE), 1 × expansion slot, 2 × power module slots
- H3C S6520X-26XC-UPWR-SI—provides 24 × 100M/1G/2.5G/5G/10GBase-T UPoE , 1× expansion Slot, 2 × power module slots
- H3C S6520X-54XC-UPWR-SI—provides 48 × 100M/1G/2.5G/5G/10GBase-T UPoE Ports, 4 × QSFP Plus Ports, 1 × expansion Slot, 2 × power module slots

S6520X-10XT-SI

S6520X-16XT-SI

S6520X-16ST-SI

S6520X-18C-SI

S6520X-24ST-SI

S6520X-26C-SI

S6520X-26MC-UPWR-SI/ S6520X-26MC-SI

S6520X-26XC-UPWR-SI

S6520X-54XC-UPWR-SI

Features and benefits

High-density 10GE and Multi-giga forwarding

The switch offers high-density 10GE forwarding and can expand 10GE ports flexibly, working at wire-speed. It provides 16/24*10/1GE autosensing SFP+ ports, one expansion slot that support up to 9 kinds of modules range from GE to 10GE, 25GE, 40GE, and Multi-giga ports. S6520X-26MC-UPWR-SI support 24 *1G/2.5G/5GBase-T (UPOE) ports, Max 90W PoE supported on these ports.

H3C Intelligent Resilient Framework 2 (IRF2)

H3C Intelligent Resilient Framework 2 (IRF 2) virtualizes multiple S6520X-EI switches into one virtual switch and provides the following benefits:

- **Scalability**—IRF 2 allows you to add devices to the IRF 2 system easily. It provides a single point of management, enables switch plug-and-play, and supports software auto-update for software synchronization from the master to the new member devices. It brings business agility with lower total cost of ownership by allowing new switches to be added to the fabric without network topology change as business grows.
- **High availability**—The H3C proprietary routing hot backup technology ensures redundancy and backup of all information on the control and data planes and non-stop Layer 3 data forwarding in an IRF 2 fabric. It also eliminates single point of failure and ensures service continuity.
- **Redundancy and load balancing**—The distributed link aggregation technology supports load sharing and mutual backup among multiple uplinks, which enhances the network redundancy and improves link resources usage.

- **Flexibility and resiliency**—The switch uses standard GE ports instead of specialized ports for IRF links between IRF member devices. This allows customers to assign bandwidth as needed between uplink, downlink, and IRF system connections. In addition, an S6520X-EI IRF fabric can span a rack, multiple racks, or multiple campuses.

Wide range of advanced features

The switch offers a wide range of features, including:

- **Modular hardware and software design**—The switch uses modular, hot swapping, and redundancy design for hardware, including power modules and fan trays. The switch also uses modular design for software, which enables feature installation and removal on an as-needed basis. Refined physical architecture and optimized software workflows greatly reduce the end-to-end packet processing delay.
- **Software-defined networking (SDN)**—An innovative network architecture that separates the control plane from the forwarding plane, typically by using OpenFlow. SDN significantly simplifies network management, reduces maintenance complexities and costs, enables flexible traffic management, and offers a good platform for network and application innovations.
- **Virtual eXtensible LAN (VXLAN)**—A MAC-in-UDP technology that provides Layer 2 connectivity between distant network sites across an IP network. VXLAN enables long-distance virtual machine and data mobility and is typically used in data centers and the access layer of campus networks for multitenant services. The H3C implementation of VXLAN supports automatic VXLAN tunnel establishment with EVPN.
- **Ethernet Virtual Private Network (EVPN)** is a Layer 2 VPN technology that provides both Layer 2 and Layer 3 connectivity between distant network sites across an IP network. EVPN uses MP-BGP in the control plane and VXLAN in the data plane.
  EVPN provides the following benefits: Configuration automation; Separation of the control plane and the data plane; Integrated routing and bridging (IRB).
- **In-Service Software Upgrade (ISSU) and Operation, Administration, and Maintenance (OAM)**— Ensure business continuity and improve Ethernet management and maintainability.

Comprehensive security control policies

The switch supports AAA authentications (including RADIUS authentication) and dynamic or static binding of user identifiers such as user account, IP address, MAC address, VLAN, and port number.

Using the switch in conjunction with H3C IMC, you can manage and monitor online users in real time and take prompt action on illegitimate behaviors.

The User Profile allows to define a set of policies based on user group in different application scenario.

The switch offers a large number of inbound and outbound ACLs and VLAN-based ACL assignment. This simplifies configurations and saves ACL resources.

MACsec

MACsec is an ideal hop-by-hop link-layer security protocol for Ethernet networks, which are typically insecure. It provides the following services:

- Data encryption—Encrypts data over the Ethernet link to protect data against security issues such as eavesdropping.
- Anti-replay—Prevents packets from being intercepted and modified en route to protect the network against unauthorized access.
- Tampering protection—prevents packet tampering to protect data integrity.

MACsec supports the following deployments:

- Client-oriented—Protects data transmission over the link between the client and its access device.
- Device-oriented mode—Protects data transmission over the link between two peering devices.
- The switch can cooperate with H3C iNode client and core switches such as S10500 and S7500E to provide a complete MACsec solution.

High availability

In addition to node and link protection, the switch offers the following hardware high availability features:

- 1+1 power module redundancy and 1+1 fan tray redundancy.
- Hot-swappable interface modules.
- Automatic power and fan tray status monitoring and alarming mechanisms.
- Automatic fan speed adjustment based on the change in temperature.
- Self-protection mechanisms that protect power modules against overcurrent, overvoltage, and overtemperature conditions.

Outstanding management capacity

The switch provides a variety of management features and is easy to manage. It offers the following device management features:

- Provides multiple management interfaces, including the console port, out-of-band management Ethernet port, and USB port.
- Supports configuration and management from CLI or H3C IMC Intelligent Management Center.
- Supports multiple access methods, including SNMPv1/v2c/v3, Telnet, and more secure SSH 2.0 and SSL.
- Uses OAM to enhance system management capability.
- Supports FTP for system upgrade.

Smart Management Center (SmartMC)

SmartMC is H3C's latest offering and innovation that helps small and middle size enterprise network to address management issue and is free of charge, easy to use web management tool. SmartMC is embedded network management tool into the switch, it includes commander switches and other access switches.

SmartMC delivers the following benefits:

- Intelligent operation: once the switch is powered on and SmartMC function is enabled, topology will be created automatically and user can go enhanced web GUI to check the latest status.
- Centralized management: all management can be achieved via commander switch such as centralized configuration backup, and software version management, increasing working efficiency.

- One key device replacement: in case of one switch failure, the new added same type switch can download the same configuration and work as old switch immediately

Based on DRNI architecture

H3C S6520X-SI series switches support DRNI (Distributed Resilient Network Interconnect) cross-device interconnection aggregation technology and realize the cross-device interconnection by virtually expanding two physical devices into one Aggregate to keep controls independent of each other, provide device-level redundancy protection and traffic load sharing, and improve system reliability.

Visualization ability

H3C S6520X-SI series switches support Telemetry technology, which can send the switch's real-time resource information and alarm information to the O&M platform through the GRPC protocol.
The platform can realize network quality backtracking, troubleshooting, risk early warning, architecture optimization and other functions to accurately guarantee user experience by analyzing real-time data.

Technical specifications

Item	S6520X-18C-SI	S6520X-26C-SI	S6520X-26MC-UPWR-SI S6520X-26MC-SI	S6520X-16ST-SI	S6520X-24ST-SI
Box switching capacity	2.56Tbp				
Port switching capacity	480Gbps	720Gbps	400Gbps	320Gbps	480Gbps
Packet forwarding rate	357Mpps	536Mpps	240Mpps	240Mpps	357Mpps
CPU	Dual-Core, 1.6GHz				
Dimensions (W × D × H)	440*360*43.6	440*360*43.6	440*460*43.6	440*360*43.6	440*360*43.6
Weight	≤ 7 kg	≤ 7 kg	≤ 7 kg ≤6.4kg (UPWR)	≤ 7 kg	≤ 7 kg
Service ports	16 × 1/10GE SFP+ fiber ports	24 × 1/10GE SFP+ fiber ports	S6520X-26MC-UPWR-SI:24 × 100M/1G/2.5G/5GBase-T(UPOE) S6520X-26MC-SI: 24 ×100M/1G/2.5G/5GBase-T	16 × 1/10G SFP+ ports (2 Combo 1G/2.5G/5G/10G Base-T Multi-giga ports)	24 × 1/10G SFP+ ports (2 Combo 1G/2.5G/5G/10G Base-T Multi-giga ports)
Link aggregation	10GE/40GE port aggregation Static aggregation Dynamic aggregation			10GE port aggregation Static aggregation Dynamic aggregation	
Expansion slots	1			0	
Stacking bandwidth	160Gbps				
Maximum stacking num	9				
Routing number	IPv4 routing number 16K IPv6 routing number 8K				
Expansion modules	2-port 10G SFP+ with MACSec Interface Module 2-port 10G BASE-T with MACSec Interface Module 2-Port 10G SFP Plus Ethernet Optical Interface Module 8-Port 10G SFP+ with MACSec Interface Module 4-Port 10/100/1000BASE-T Ethernet,6-Port SFP(2-Port Combo) Interface Module			None	

	8-Port 1/2.5/5G BASE-T Ethernet Copper Interface Module 8-Port 1/2.5/5/10G BASE-T Ethernet Copper Interface Module 2-port 25GE SFP28 interface module 2-port 40GE QSFP+ interface module			
Fan trays	0			
PS slots	2			
Idle power consumption	AC: 24W DC: 23W	AC: 25W DC: 23W	AC:32W AC: 45W(UPWR) DC:31W DC: 46W(UPWR)	AC: 26W DC: 21W	AC: 26W DC: 25W
Max. power consumption	AC: 96W DC: 97W	AC: 110W DC: 113W	AC: 130W AC: 2000W(UPWR) DC: 134W DC: 960W(UPWR)	AC: 57W DC: 58W	AC: 70W DC: 72W
Noise	Low:47.5dB(A) High:59.4dB(A)	Low:48.1dB(A) High:60.7dB(A)	Low:47.4dB(A) High:62.2dB(A)	Low:42.0dB(A) High:47.7dB(A)	Low:42.4dB(A) High:46.9dB(A)
MTBF(Year)	58.7	58.1	83.6	60.3	89.5
MTTR(Hour)	1	1	1	1	1

Technical specifications (continued)

Item	S6520X-10XT-SI	S6520X-16XT-SI	S6520X-26XC-UPWR-SI	S6520X-54XC-UPWR-SI
Box switching capacity	2.56Tbps			
Port switching capacity	200Gbps	320Gbps	640Gbps	1440Gbps
Packet forwarding rate	240Mpps	240Mpps	240Mpps	600Mpps
CPU	Dual-Core, 1.6GHz			
Dimensions (W × D × H)	440*360*43.6	440*360*43.6	440*460*43.6	440*460*43.6
Weight	＜ 3.32 kg	＜ 3.37 kg	≤ 8.8 kg	≤ 10.0 kg
Service ports	8 × 1G/2.5G/5G/10G Base-T Multi-giga ports + 2 × 1/10G SFP Plus	14× 1G/2.5G/5G/10G Base-T Multi-giga ports+ 2 × 1/10G SFP Plus	24 × 100M/1G/2.5G/5G/10G Base-T Multi-giga ports(UPOE)	48 × 100M/1G/2.5G/5G/10G Base-T Multi-giga ports(UPOE) + 4 × 40G QSFP Plus
Link aggregation	10GE port aggregation Static aggregation Dynamic aggregation		10GE/40GE port aggregation Static aggregation Dynamic aggregation	
Expansion slots	0		1	
Stacking bandwidth	160Gbps			
Maximum stacking num	9			
Routing number	IPv4 routing number 16K IPv6 routing number 8K		IPv4 routing number 8K IPv6 routing number 4K	

Expansion modules	None	2-port 10G SFP+ with MACSec Interface Module (for S6520X-26XC-UPWR-SI) 2-port 10G BASE-T with MACSec Interface Module (for S6520X-26XC-UPWR-SI) 2-Port 10G SFP Plus Ethernet Optical Interface Module 8-Port 10G SFP+ with MACSec Interface Module 4-Port 10/100/1000BASE-T Ethernet,6-Port SFP (2-Port Combo) Interface Module 8-Port 1/2.5/5G BASE-T Ethernet Copper Interface Module 8-Port 1/2.5/5/10G BASE-T Ethernet Copper Interface Module 2-port 25GE SFP28 interface module 2-port 40GE QSFP+ interface module	
Fan trays	0	2	3
PS slots	0	2	
Idle power consumption	AC: 17.5W	AC: 22.1W	AC: 69W DC: 73W	AC: 100W DC: 85W
Max. power consumption	AC: 34.5W	AC: 48.3W	AC: 2384W DC: 1047W	AC: 2333W DC: 1039W
Noise	Low:48.1dB(A) High:60.7dB(A)	Low:48.1dB(A) High:60.7dB(A)	Low:48.1dB(A) High:60.7dB(A)	Low:48.1dB(A) High:60.7dB(A)
MTBF(Year)	58.1	58.1	58.1	58.1
MTTR(Hour)	1	1	1	1
Packet Buffer	3M			
POE	UPWR models support POE ++ power supply standards			
Input voltage range	AC Rated: 100 VAC to 240 VAC @ 50 Hz/60 Hz DC: -48V~-60V			
Operating temperature	0℃ to 45℃ (32°F to 113°F) -60m-5000m altitude: From 0m, the maximum operating temperature reduce by 0.33℃ for every time 100 the altitude increases by 100m.			
Storage temperature	-40℃ to 70℃(-40°F to 158°F)			
Operating & storage humidity	5% RH to 95% RH, non-condensing			
Flash/SDRAM	1GB/2GB			
Console ports	1 (rear panel)			
Management Ethernet ports	1 (rear panel)			
USB ports	1 (rear panel)			
Virtualization	Intelligent Resilient Framework 2 (IRF2) Distributed device management Distributed link aggregation Distributed resilient routing Stacking through standard Ethernet ports Local device stacking and remote device stacking LACP-, BFD-, and ARP-based multi-active detection (MAD)			
Jumbo frame	Supported			
MAC address table	32K MAC address entries Static MAC address Blackhole MAC address MAC learning limit			
OpenFlow	OpenFlow 1.3			
VxLAN	VXLAN L2 switching			

	VXLAN L3 routing VXLAN VTEP IS-IS+ENDP distributed control plane MP-BGP+EVPN distributed control plane OpenFlow+Netconf centralized control plane
VLAN	Port-based VLAN (up to 4094 VLANs) Default VLAN Private VLAN QinQ and flexible QinQ VLAN mapping PVST+ and RPVST+
Traffic monitoring	sFLOW
DHCP/DHCPv6	DHCP/DHCPv6 client DHCP/DHCPv6 snooping DHCP/DHCPv6 relay DHCP/DHCPv6 server DHCP snooping Option 82/DHCP relay Option 82
ARP	16K ARP entries Static entry Gratuitous ARP Common proxy ARP and local proxy ARP Dynamic ARP inspection ARP anti-attack ARP flood suppression ARP source suppression ARP detection based on DHCP snooping safety entries, 802.1X entries, and IP/MAC static binding entries
Routing	IPv4/IPv6 static routing Dynamic routing such as RIP v1/2 and RIPng Policy routing Equal-cost multi-path routing (ECMP) VRRP OSPFv1/v2/v3 BGP IS-IS
IPv6	Neighbor Discovery (ND) PMTU ICMP v6, Telnet v6, SFTP v6, SNMP v6, BFD v6, VRRP v3 SSH2 v6 IPv6 Portal IPv6 tunnel
Multicast	IGMP v2/v3 IGMP Snooping v2/v3 IGMP Snooping fast-leave IGMP Snooping group-policy PIM-SM , PIM-SSM , PIM-DM PIM snooping MVRP (GVRP analog) MFF Enhanced Layer 3 multicast
MPLS	Support MPLS Support MCE Support MPLS VPN, VPLS
Zero configuration	DHCP auto-config CWMP-TR069
Broadcast/Multicast/Unicast	Storm suppression based on port bandwidth percentage Storm suppression based on PPS

storm suppression	Storm suppression based on BPS Broadcast traffic/Multicast traffic/Unknown unicast traffic suppression
Loop-free redundant Layer 2 topology	STP/RSTP/MSTP STP Root Guard BPDU Guard BPDU Drop BPDU Blocking and Root Guard Link Detection (UDLD) Digital Diagnostic Monitor (DDM) G.8032 Ethernet ring protection switching (ERPS)
QoS/ACL	Rate limit for receiving and transmitting packets CAR COS, TOS Eight output queues per port Flexible queue scheduling algorithms based on both port and queue, including SP, WDRR, WRR, WFQ, and SP+WRR 802.1p priority and DSCP priority Layer 2 to Layer 4 packet filtering Traffic classification based on source MAC, destination MAC, source IP, destination IP, port, TCP / UDP Port, protocol, and VLAN Time range
Mirroring	Flow mirroring N:4 port mirroring Local port mirroring and remote port mirroring Policy-based Mirroring Traffic Mirroring
Security	Hierarchical user management and password protection MAC-based authentication 802.1X Storm constrain AAA authentication RADIUS authentication HWTACACS SSH2.0 Port isolation IP/Port/MAC binding IP source guard HTTPs SSL User Profile Public Key Infrastructure (PKI) CPU protection Control Plane Protection (CoPP), Wireless Intrusion Prevention System (WIPS) ND Detection, RA Guard
IEEE	IEEE 802.3x IEEE 802.3ad IEEE 802.3af IEEE 802.3at IEEE 802.3bt IEEE 802.3bz IEEE 802.1p IEEE 802.1x IEEE 802.1q IEEE 802.1d IEEE 802.1w IEEE 802.1s

Loading and upgrading	Loading and upgrading through XMODEM/FTP/TFTP Loading and upgrading from USB
Management and maintenance	Configuration from CLI Login through Telnet, and the console port Job scheduler ISSU VCT 802.1ag and 802.3ah Simple Network Management Protocol (SNMP) IMC network management system System log Alarming based on severity NTP Power, fan, and temperature alarming Debugging information output Ping and Tracert RMON LLDP, LLDP-MED LACP Track Telnet-based remote maintenance
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 GB/T 9254 YD/T 993
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

Ordering Information

Product ID	Product Description
LS-6520X-10XT-SI	H3C S6520X-10XT-SI L3 Ethernet Switch with 8*1G/2.5G/5G/10GBase-T Ports and 2*1G/10GBase-X SFP Plus Ports,(AC)
LS-6520X-16XT-SI	H3C S6520X-16XT-SI L3 Ethernet Switch with 14*1G/2.5G/5G/10GBase-T Ports and 2*1G/10GBase-X SFP Plus Ports,(AC)
LS-6520X-18C-SI-GL	H3C S6520X-18C-SI L3 Ethernet Switch with 16*1G/10G BASE-X SFP Plus Ports and 1*Slot,Without Power Supplies
LS-6520X-26C-SI-GL	H3C S6520X-26C-SI L3 Ethernet Switch with 24*1G/10G BASE-X SFP Plus Ports and 1*Slot,Without Power Supplies
LS-6520X-16ST-SI-GL	H3C S6520X-16ST-SI L3 Ethernet Switch with 16*1G/10G BASE-X SFP Plus Ports(2XG Combo),Without Power Supplies

LS-6520X-24ST-SI-GL	H3C S6520X-24ST-SI L3 Ethernet Switch with 24*1G/10G BASE-X SFP Plus Ports(2XG Combo),Without Power Supplies
LS-6520X-26MC-SI-GL	H3C S6520X-26MC-SI L3 Ethernet Switch with 24*100M/1G/2.5G/5GBase-T Ports and 1*Slot,Without Power Supplies
LS-6520X-26MC-UPWR-SI-GL	H3C S6520X-26MC-UPWR-SI L3 Ethernet Switch with 24*100M/1G/2.5G/5GBase-T(UPOE) Ports and 1*Slot,Without Power Supplies
LS-6520X-26XC-UPWR-SI	H3C S6520X-26XC-UPWR-SI L3 Ethernet Switch with 24*100M/1G/2.5G/5G/10GBase-T UPoE Ports and 1*Slot,Without Power Supplies
LS-6520X-54XC-UPWR-SI	H3C S6520X-54XC-UPWR-SI L3 Ethernet Switch with 48*100M/1G/2.5G/5G/10GBase-T UPoE Ports,4*QSFP Plus Ports and 1*Slot,Without Power Supplies
Power supply	
PSR75-12A-GL	75W AC Pluggable Power Module
PSR150-A1-GL	150W Asset-manageable AC Power Module
PSR150-D1-GL	150W Asset-manageable DC Power Module
PSR560-56D	560W DC Pluggable Power Module
PSR360-56A-GL	360W PoE AC Power Supply Module
PSR720-56A-GL	720W PoE AC Power Supply Module
PSR1110-56A-GL	1110W PoE AC Power Supply Module
Fan	
LSPM1FANSB	Ethernet Switch Fan Module(Port to Power Airflow)
Modules	
LSWM2QP2P	2-Port 40G QSFP Plus Interface Card
LSW2SP2PM	2-Port 10G SFP Plus Interface Card with MACSec
LSW2XGT2PM	2-Port 10G BASE-T Interface Card with MACSec
LSWM4SP8PM	8-Port 10G SFP Plus with MACSec Interface Module
LSPM4G4T6P	4-Port 10/100/1000BASE-T Ethernet,6-Port SFP(2-Port Combo) Interface Module
LSWM2MGT8P	8-Port 1/2.5/5G BASE-T Ethernet Copper Interface Module
LSWM2XMGT8P	8-Port 1/2.5/5/10G BASE-T Ethernet Copper Interface Module
LSWM2ZSP2P	2-Port 25G SFP28 Ethernet Optical Interface Module
LSWM2SP2PB	2-Port 10G SFP Plus Ethernet Optical Interface Module
Wireless license	
LIS-WX-128-BE	Enhanced Access Controller License,128 APs
LIS-WX-32-BE	Enhanced Access Controller License,32 APs
LIS-WX-16-BE	Enhanced Access Controller License,16 APs
LIS-WX-8-BE	Enhanced Access Controller License,8 APs
LIS-WX-1-BE	Enhanced Access Controller License,1 AP
Transceivers	
SFP-GE-SX-MM850-A	1000BASE-SX SFP Transceiver, Multi-Mode (850nm, 550m, 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-LH80-SM1550	1000BASE-LH80 SFP Transceiver, Single Mode (1550nm, 80km, LC)
SFP-GE-LH100-SM1550	1000BASE-LH100 SFP Transceiver, Single Mode (1550nm, 100km, LC)
SFP-GE-LX-SM1310-BIDI	1000BASE-LX BIDI SFP Transceiver, Single Mode (TX1310/RX1490, 10km, LC)
SFP-GE-LX-SM1490-BIDI	1000BASE-LX BIDI SFP Transceiver, Single Mode (TX1490/RX1310, 10km, LC)
SFP-GE-T	1000BASE-T SFP
SFP-XG-LH40-SM1550	SFP+ Module(1550nm,40km,LC)
SFP-XG-LX-SM1310-E	SFP+ Module(1310nm,10km,LC)
SFP-XG-SX-MM850-E	SFP+ Module(850nm,300m,LC)

SFP-25G-SR-MM850	25G SFP28 Optical Transceiver Module (850nm,100m,SR,MM,LC)
QSFP-40G-LR4-WDM1300	40GBASE-LR4 QSFP+ Optical Transceiver Module
QSFP-40G-CSR4-MM850	QSFP+ 40GBASE Optical Transceiver Module (850nm,300m,CSR4,Support 40G to 4*10G)
QSFP-40G-SR4-MM850	QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR4,Support 40G to 4*10G)
QSFP-100G-SR4-MM850	100G QSFP28 Optical Transceiver Module (850nm,100m OM4,SR4,MPO)
QSFP-100G-LR4-WDM1300	100G QSFP28 Optical Transceiver Module(1310nm,10km,LR4,WDM,LC)
QSFP-100G-LR4L-WDM1300	100G QSFP28 Optical Transceiver Module (1310nm,2km,LR4L,CWDM4,LC)
Cables	
CAB-CON-1.8m	Single Cable,Console Serial Port Cable,1.8m,D9F,28UL20276(4P)(P296U),MPH-8P8C
LSWM1STK	SFP+ Cable 0.65m
LSWM2STK	SFP+ Cable 1.2m
LSWM3STK	SFP+ Cable 3m
SFP-25G-D-CAB-1M	25G SFP28 to 25G SFP28 1m Passive Cable
SFP-25G-D-CAB-3M	25G SFP28 to 25G SFP28 3m Passive Cable
SFP-25G-D-CAB-5M	25G SFP28 to 25G SFP28 5m Passive Cable
LSWM1QSTK0	40G QSFP+ Cable 1m
LSWM1QSTK1	40G QSFP+ Cable 3m
LSWM1QSTK2	40G QSFP+ Cable 5m
LSWM1QSTK3	40G QSFP+ to 4x10G SFP+ Cable 1m
LSWM1QSTK4	40G QSFP+ to 4x10G SFP+ Cable 3m
LSWM1QSTK5	40G QSFP+ to 4x10G SFP+ Cable 5m
QSFP-100G-D-CAB-1M	100G QSFP28 to 100G QSFP28 1m Passive Cable
QSFP-100G-D-CAB-3M	100G QSFP28 to 100G QSFP28 3m Passive Cable
QSFP-100G-D-CAB-5M	100G QSFP28 to 100G QSFP28 5m Passive Cable
QSFP-100G-4SFP-25G-CAB-1M	100G QSFP28 to 4x25G SFP28 1m Passive Cable
QSFP-100G-4SFP-25G-CAB-3M	100G QSFP28 to 4x25G SFP28 3m Passive Cable
QSFP-100G-4SFP-25G-CAB-5M	100G QSFP28 to 4x25G SFP28 5m Passive Cable
OP-MPO8-8LC-10-M	Fiber Connector,MPO(8 core)/PC,8LC/PC(0.5m),Multimode(OM3),3.0mm,10.0m
OP-MPO8-MPO8-10-M	Fiber connector,MPO(8 core)/PC,MPO(8 core)/PC,Multimode(OM3),3.0mm,10.0m
OP-MPO8-MPO8-50-M	Fiber connector,MPO(8 core)/PC,MPO(8 core)/PC,Multimode(OM3),3.0mm,50.0m
OP-MPO8-MPO8-100-M	Fiber connector,MPO(8 core)/PC,MPO(8 core)/PC,Multimode(OM3),3.0mm,100.0m
OP-MPO8-MPO8-200-M	Fiber connector,MPO(8 core)/PC,MPO(8 core)/PC,Multimode(OM3),3.0mm,200.0m