

H3C S6860 Series Data Center Switches

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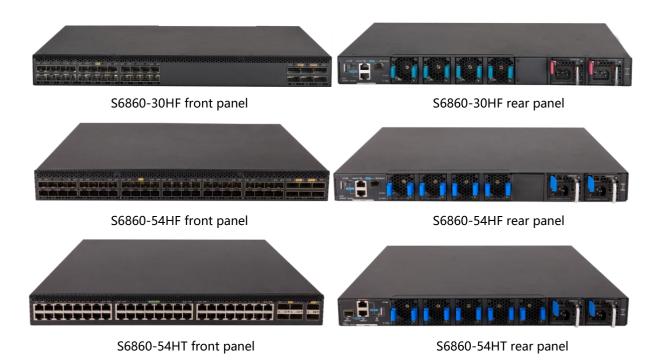
Product overview

S6860 series switch is H3C self-developed intelligent data centers switch with abundant data center features and IPv6 forwarding capability. The series provides flexible combination of 10GE, 40GE and 100GE ports with high port-density. With its modular dual power supply and fan trays design, S6860 provides a high redundant framework.

The switch is suitable for high-density 10GE switching or 40GE/100GE aggregation at data centers and cloud computing networks. It can also operate as a TOR access switch in an overlay or converged network.

The S6860 switch series includes the following models:

- S6860-30HF—Provides 24 × 1/10G SFP Plus ports, 6 × QSFP+ ports or 2 × QSFP28 ports (each QSFP+ port can be split into 4 × 10GE ports), 2 × power module slots, 4 × fan tray slots, 2 × out-of-band management ports, 1 × mini USB port and 1 × USB port.
- S6860-54HF—Provides 48 × 10G SFP+ Plus ports, 6 × QSFP+ ports or 2 × QSFP28 ports (each QSFP+ port can be split into 4 × 10GE ports), 2 × power module slots, 4 × fan tray slots, 2 × out-of-band management ports, 1 × mini USB port and 1 × USB port.
- S6860-54HT—Provides 48 × 10G Base-T ports, 6 × QSFP+ ports or 2 × QSFP28 ports (each QSFP+ port can be split into 4 × 10GE ports), 2 × power module slots, 5 × fan tray slots, 2 × out-of-band management ports, 1 × mini USB port and 1 × USB port.





Features and Benefits

H3C Distributed Resilient Network Interconnection (DRNI)

- H3C S6860 switch series support DRNI, 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.

Abundant Data Center Features

The switch supports abundant data center features, including:

- EVB—The switch realizes the traffic forwarding between virtual machines (VM) and solves the connection and management boundary between the VM and the network via Virtual Ethernet Port Aggregator (VEPA) mode.
- TRILL—Helps set up a large, resilient, high-performance Layer 2 network with support for long-distance VM mobility and data mobility.
- VXLAN—The switch can operate as a high-performance VXLAN hardware gateway to support multitenant data center services. In conjunction with the H3C cloud management platform, the switch can be used to set up an agile, resilient, highly available high-performance Layer 2 network, with support for long-distance virtual machine mobility, data mobility, and business continuity.
- FCoE—Allows transmission of FC packets over Ethernet so that FC SAN services and LAN services can run over the same network infrastructure.
- PFC, ETS, and DCBX—Helps provide FC storage and high-performance computing services with low-latency and no data loss.



Flexible choice of airflow

• To cope with data center cooling aisle design, the H3C S6860 switch series 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.

Abundant QoS

The switch provides abundant QoS features, including:

- Packet filtering based on packet header fields from Layer 2 through Layer 4.
- Traffic classification by source MAC, destination MAC, source IP, destination IP, TCP/UDP port number, protocol type, and VLAN.

High Availability

- The switch uses removable power modules and allows you to select AC or DC power modules as required. The power modules available for the switch have a self-protection mechanism to prevent overcurrent, overvoltage, and over temperature conditions. The switch can detect faults in power modules and fan trays and will generate an alarm when a fault occurs.
- 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.

Outstanding Management Capacity

The switch improves system management through the following ways:

- Provides multiple management interfaces, including the console port, mini USB port, USB port, and two out-of-band management ports.
- Supports configuration and management from CLI or a mainstream network management platform and H3C IMC Intelligent Management Center.
- 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.
- 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.

Comprehensive Security Control Policies

- The switch supports AAA authentications (including RADIUS authentication) and dynamic or static binding of user identification elements such as user account, IP address, MAC address, VLAN ID, 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 switch offers a large number of inbound and outbound ACLs and VLAN-based ACL assignment. This simplifies user configuration while saving ACL resources.



Hardware Specification

ltem	S6860-30HF	S6860-54HF	S6860-54HT
Dimensions	44 × 440 × 400 mm	44 × 440 × 400 mm	44 × 440 × 460 mm
$(H \times W \times D)$	(1.73 × 17.32 × 15.75 in)	(1.73 × 17.32 × 15.75 in)	(1.73 × 17.32 × 18.11 in)
Weight	≤ 10 kg (22.05 lb)		
CPU cores	2	2	2
CPU frequency	1GHz	1GHz	1GHz
Latency	64 byte	64 byte	64 byte
Console port	1		
Out-of-band management port	One GE copper port and one GE fiber port		
USB port	1	1	1
Mini USB port	1	1	1
SFP Plus port	24	48	N/A
Buffer	12M	12M	12M
10GBase-T port	N/A	N/A	48
QSFP+ port	Max. 6	Max. 6	Max. 6
QSFP28 port	Max. 2	Max. 2	Max. 2
Stack number	Max. 9	Max. 9	Max. 9
Link aggregation group number	1024	1024	1024
Max ports in a group	32	32	32
AC-input voltage	90 VAC to 290 VAC		
DC-input voltage	-36 VDC to -72 VDC		
Power module	2		
Fan tray	4		5
Air flow direction	From front to rear or from rear to front		
Operating temperature	0°C to 45°C (32°F to 113°F)		
Operating humidity	10% to 90%, noncondensing		



Software Specification

ltem		S6860-30HF	S6860-54HF	S6860-54HT	
Line-rate	Switching capacity	960Gbps	1.44 Tbps	1.44 Tbps	
switching	Forwarding capacity	720Mpps	720 Mpps	720 Mpps	
Forwardin	ng mode	Store-forward and cut-through modes			
Dynamic .	ARP table	260K max	260K max	260K max	
IPV6 rout	ing table	128K max	128K max	128K max	
IPV4 rout	ing table	256K max	256K max	256K max	
MAC add	ress table	272K max	272K max	272K max	
IPv4 mult	icast table	8K max	8K max	8K max	
IPv6 mult	icast table	4K max	4K max	4K max	
Maximum	n unicast tunnel	4K	4K	4K	
		IRF2			
		Distributed device management, distributed link aggregation, and distributed resilient routing			
Virtualiza	tion	Using standard Ethernet interfaces for IRF connection			
		Setting up an IRF fabric by using IRF member devices in the same site or geographically dispersed			
		10GE/40GE port aggregation			
Link aggr	egation	Static aggregation, dynamic aggregation			
		Link cross board aggregation, cross device link aggregation M-LAG			
		VXLAN Layer 2 gateway, VXLAN Layer 3 gateway			
		EVPN distributed gateway			
		802.1Qbb PFC, 802.1Qaz ETS, ECN			
		QCN, ETS, DCBX			
		FCOE			
		MAC & ARP assignment on demand			
Data cent	or.	EVB (VEB, VEPA, Muti-channel three modes)			
Data center		TRILL/TRILL & IRF			
		SPB			
		Netconf, python			
	Service chain				
	OpenFlow				
		Telemetry			
		Multiple Openflow controller			
Jumbo Fr	umbo Frame Supported				
NAAC !!		Static MAC address			
MAC address table		Blackhole MAC address			



Item	S6860-30HF	S6860-54HF	S6860-54HT
.,,	Port-based VLAN (quan	itity: 4094)	
	Super VLAN		
VLAN	MAC VLAN		
	Basic QinQ, flexible Qin	Q	
Traffic monitoring	sFlow		
	DHCP server/client		
DHCP	DHCP snooping/DHCP	relay	
	DHCP snooping suppor	t for Option 82/DHCP relay ager	t support for Option 82
	Gratuitous ARP		
	Dynamic ARP inspection	n	
ARP	ARP anti-attack		
	ARP source-suppression	า	
	ARP detection		
	Stating routing, RIPv1/v	2, OSPFv1/v2/v3, BGP, IS-IS	
IP routing	ECMP, VRRP, policy-bas	sed routing	
	BGP4+ for IPv6, VRRP, I	Pv6 policy-based routing	
	IPv6 ND		
IPV6	IPv6 PMTU		
IPVO	ICMPv6, Telnetv6, SFTPv	v6, SNMPv6, BFDv6, VRRPv3	
	IPv6 portal/IPv6 tunnel		
	IGMP snooping v2/v3		
	IGMPv1/v2/v3		
	PIM-DM/SM		
Multicast	IPv6 PIM-DM/SM/SSM		
	BIDIR-PIM, MSDP		
	MLD snooping		
	Multicast policy		
LLDP	LLDP		
LLDF	LLDP-MED		
	LACP		
LACP	LACP local forwarding f	irst	
	LACP short-time		
	LACP Stack split detection	on	
Zero-configuration	Auto-config and config	rollback	
MPLS	MCE		
	MPLS VPN, VPLS		
MSTP	STP/RSTP/MSTP		
MSTP	PVST+/RPVST+		



ltem	S6860-30HF	S6860-54HF	S6860-54HT
	STP root guard		
MSTP	BPDU guard		
RPR	RRPP, Smart Link		
	Inbound and outbound to	raffic rate limit	
	CAR		
	Eight output queues on e	ach port	
	Flexible port-and queue-	based queuing and scheduling algorith	ms
	SP, WRR, WFQ, SP+WRR,	and SP+WFQ queuing	
QoS/ACL	802.1p and DSCP priority	marking	
	Packet filtering at Layer 2	to Layer 4	
		d on source MAC address, destination N/IPv6 address, port number, protocol ty	
	Time range		
	WRED		
	Traffic mirroring		
Mirroring	N:4 port mirroring		
	Local port mirroring, rem	ote port mirroring	
	Hierarchical user manage	ment and password protection	
	AAA (RADIUS/HWTACAC	S)	
	SSH 2.0		
Security	IP address, MAC address,	and port number binding	
	IP source guard		
	HTTPS/SSL		
	PKI		
Loading and unarading	Loading/upgrading throu	gh the XMODEM protocol	
Loading and upgrading	Loading/upgrading throu	gh FTP and TFTP	
	Configuration at the CLI		
	Telnet configuration		
	Configuration through th	e console port	
	RMON, Event log		
	SNMPv1/v2c/v3		
	IMC		
Management and maintenance	NETCONF configuration		
mameriance	System logs		
	Hierarchical alarms		
	NTP, SNTP		
	Power module status alar	ming	
	Fan tray status alarming		
	Temperature alarming		



Item	S6860-30HF	S6860-54HF	S6860-54HT
Management and maintenance	Debugging information of	output	
	Ping and tracert		
maintenance	File uploading and down	loading through the USB port	
	FCC Part15 SubpartB CLA	SS A	
	ICES-003 CLASS A		
	VCCI CLASS A		
	CISPR 32 CLASS A		
	EN 55032 CLASS A		
	AS/NZS CISPR32 CLASS A	4	
EMC	CISPR 24		
	EN 55024		
	EN 61000-3-2		
	EN 61000-3-3		
	ETSI EN 300 386		
	GB/T 9254		
	YD/T993		
	UL 60950-1		
	CAN/CSA C22.2 No 6095	0-1	
Safety	IEC 60950-1		
	EN 60950-1		
	AS/NZS 60950-1		
	FDA 21 CFR Subchapter J		
	GB 4943.1		
JEEE Chandend	802.3x/802.3ad/802.3AH,	/802.1P/802.1Q/802.1X/802.1D/8	802.1w/802.1s/802.1AG/802.1x/802.1Qbb
IEEE Standard	802.1az/802.1Qaz/802.10	Qbg/802.1Qau/802.1aq	

Order information

PID	Description
LS-6860-30HF	H3C S6860-30HF L3 Ethernet Switch with 24 SFP Plus Ports and 6 QSFP Plus or 2
	QSFP28 Ports
LS-6860-54HF	H3C S6860-54HF L3 Ethernet Switch with 48 SFP Plus Ports and 6 QSFP Plus or 2
	QSFP28 Ports
LS-6860-54HT	H3C S6860-54HT L3 Ethernet Switch with 48 10GBASE-T Ports and 6 QSFP Plus or
	2 QSFP28 Ports
Power	
PSR250-12A	250W AC Power Supply Module
PSR250-12A1	250W AC Power Supply Module
PSR450-12A1	450W AC Power Supply Module
PSR450-12A	450W AC Power Supply Module
PSR450-12AHD	450W AC Power Supply Module, Support 240V/336V HVDC Input
PSR450-12D	450W DC Power Supply Module



ESPM1FANSA	PID	Description
SPM1FANSB	Fan	
Transceiver SFP-GE-LH80-SM1550 1000BASE-LH80 SFP Transceiver, Single Mode (1550nm, 80km, LC) SFP-GE-LH40-SM1310 1000BASE-LH40 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-LH40-SM1550 1000BASE-SS SFP Transceiver, Multi-Mode (850nm, 550m, LC) SFP-GE-T SFP GE Copper Interface Transceiver Module (100m, RV45) SFP-KG-LX-SM1310 SFP Module(1310nm, 10km, LC) SFP-KG-LX-SM1550 SFP+ Module(1550nm, 40km, LC) SFP-XG-LX-SM1550 SFP+ Module(1550nm, 80km, LC) SFP-XG-SX-MM850-A SFP+ Module(1550nm, 80km, LC) SFP-XG-SX-MM1550 SFP+ Module(1550nm, 80km, LC) SFP-XG-SX-MM150-A SFP+ Module(1550nm, 80km, LC) SFP-XG-SX-MM1310-A 100BASE-LX SFP Transceiver, Single Mode (1310nm, 1km, LC) SFP-FE-LH40-SM1310 QSFP+ 40GBASE Optical Transceiver Module (1310nm, 2km, LC) QSFP-4F0G-LR4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm, 10km, LR4, LC) QSFP-40G-LR4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (850nm, 100m, SR4, Support 40G to 4*10G) QSFP-40G-SR4-MM850 QSFP 40GBASE Opt	LSPM1FANSA	Fan Module (SW, 4028, Air Inlets in Panel)
SFP-GE-LH80-SM1550 1000BASE-LH80 SFP Transceiver, Single Mode (1310nm, 10km, LC) SFP-GE-LH40-SM1310 1000BASE-LH40 SFP Transceiver, Single Mode (1310nm, 40km, LC) SFP-GE-LH40-SM1530 1000BASE-LH40 SFP Transceiver, Single Mode (1310nm, 40km, LC) SFP-GE-LH40-SM1550 1000BASE-LH40 SFP Transceiver, Single Mode (1350nm, 40km, LC) SFP-GE-SX-MM850-A 1000BASE-SX SFP Transceiver, Multi-Mode (850nm, 550m, LC) SFP-GE-LH40-SM1510 SFP+ Module(1310nm,10km,LC) SFP-XG-LH40-SM1550 SFP+ Module(1350nm,40km,LC) SFP-XG-LH40-SM1550 SFP+ Module(1550nm,80km,LC) SFP-XG-LH80-SM1550 SFP+ Module(1550nm,80km,LC) SFP-XG-LH30-SM1530 SFP+ Module(1550nm,80km,LC) SFP-XG-LH40-SM1310-A 100BASE-IX SFP Transceiver, Single Mode (1310nm, 15km, LC) SFP-FE-LX-SM1310-A 100BASE-IX SFP Transceiver, Multi-Mode (1310nm, 2km, LC) SFP-FE-LH4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm, 10km, LC) SFP-FE-LH4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm, 10km, RA, LC) QSFP-40G-LR4-PSM1310 QSFP+ 40GBASE Optical Transceiver Module (1310nm, 2km, LR4, LC) QSFP-40G-SR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (1310nm, 2km, LR4, LCWDM1300) QSFP+ 40GBASE Optical Transceiver Module (850nm, 100m, SR4, Suppor	LSPM1FANSB	Fan Module (SW, 4028, Air Outlets in Panel)
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-SM1310 1000BASE-LH40 SFP Transceiver, Single Mode (1550nm, 40km, LC) SFP-GE-SX-MM850-A 1000BASE-SX SFP Transceiver, Multi-Mode (850nm, 50m, LC) SFP-GE-T SFP GE Copper Interface Transceiver Module (100m,R45) SFP-MC-LH40-SM150 SFP+ Module(1350nm,40km,LC) SFP-XG-LH40-SM1550 SFP+ Module(1550nm,40km,LC) SFP-XG-LH40-SM1550 SFP+ Module(1550nm,80km,LC) SFP-XG-LH40-SM1550 SFP+ Module(1550nm,80km,LC) SFP-XG-LH40-SM1550 SFP+ Module(1550nm,80km,LC) SFP-XG-LH40-SM1310-A 100BASE-LX SFP Transceiver, Multi-Mode (1310nm, 15km, LC) SFP-FEX-LMM1310-A 100BASE-LYS SFP Transceiver, Multi-Mode (1310nm, 2km, LC) SFP-FEX-LMANI310-A 100BASE-LH40 SFP Transceiver, Multi-Mode (1310nm, 10km, LC) SFP-FEX-LMANI310-A 100BASE-LH40 SFP Transceiver, Multi-Mode (1310nm, 10km, LC) SFP-FEX-LMANI310-A 100BASE-LY SFP Transceiver Module (1310nm, 10km, LR4, LC) QSFP-40G-LR4-WDM1300-A QSFP+ 40GBASE Optical Transceiver Module (1310nm, 2km, LR4, LC) QSFP-40G-LR4-WDM1300-A QSFP-40G-SR4-MM850-A QSFP-10	Transceiver	
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-SK-MM850-A 1000BASE-SX SFP Transceiver, Multi-Mode (850nm, 550n, LC) SFP-GE-T SFP GE Copper Interface Transceiver Module (100m,RJ45) SFP-XG-LX-SM1310 SFP Module(1310nm,10km,LC) SFP-XG-LX-SM1550 SFP+ Module(1550nm,40km,LC) SFP-XG-LH80-SM1550 SFP+ Module(1550nm,80km,LC) SFP-XG-SX-MM850-A SFP+ Module(1550nm,80km,LC) SFP-XG-SX-MM850-A SFP+ Module(1650nm,300m,LC) SFP-XG-SX-MM850-A SFP+ Module(1680nm,300m,LC) SFP-XG-SX-MM850-A SFP+ Module(1680nm,300m,LC) SFP-XG-SX-MM850-A SFP+ Module(869nm,300m,LC) SFP-XG-SX-MM850-A SFP+ Module(869nm,300m,LC) SFP-FE-LLV-SM1310 100BASE-LAS FP Transceiver, Single Mode (1310nm, 2km, LC) QSFP-4E-ELV-MDM1300 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR) QSFP-40G-IR-R-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm,2km,LR-LC) QSFP-40G-SRA-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR4,Support 406 to 4*10G) QSFP-100G-IR-R-WDM1300 100G QSFP28 Optical Transceiver Modul	SFP-GE-LH80-SM1550	1000BASE-LH80 SFP Transceiver, Single Mode (1550nm, 80km, 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,R345) SFP-XG-LX-SM1310 SFP+ Module(1310nm,10km,LC) SFP-XG-LH40-SM1550 SFP+ Module(1550nm,80km,LC) SFP-XG-LH80-SM1550 SFP+ Module(1550nm,80km,LC) SFP-XG-LX-SM1310-A 100BASE-LX SFP Transceiver, Single Mode (1310nm, 15km, LC) SFP-FE-LX-SM1310-A 100BASE-LX SFP Transceiver, Single Mode (1310nm, 15km, LC) SFP-FE-LX-SM1310 100BASE-LX SFP Transceiver, Multi-Mode (1310nm, 10km, LC) SFP-FE-LX-MM1310 QSFP+ 40GBASE Optical Transceiver Module (1310nm, 10km, LC) QSFP-40G-BLDI-SR-MMB50 QSFP+ 40GBASE Optical Transceiver Module (1310nm,10km,RALC) QSFP-40G-BLI-SR-MMB50 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR) QSFP-40G-LR4L-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR4,Support 40G to 4*10G) QSFP-40G-SR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,300m,CSR4,Support 40G to 4*10G) QSFP-100G-LR4L-WDM1300 100G QSFP28 Optical Transceiver Module (850nm,300m,CSR4,Support 40G to 4*10G) QSFP-100G-LR4L-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,2km,LR4L,W	SFP-GE-LX-SM1310-A	1000BASE-LX SFP Transceiver, Single Mode (1310nm, 10km, 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) SFP-XG-LX-SM1310 SFP+ Module(1310nm,10km,LC) SFP-XG-LH40-SM1550 SFP+ Module(1550nm,40km,LC) SFP-XG-LH80-SM1550 SFP+ Module(1550nm,80km,LC) SFP-XG-LH80-SM1550 SFP+ Module(850nm,300m,LC) SFP-XG-LH80-SM1310-A 100BASE-LX SFP Transceiver, Single Mode (1310nm, 15km, LC) SFP-FE-SK-MM1310-A 100BASE-LX SFP Transceiver, Multi-Mode (1310nm, 2km, LC) SFP-FE-SK-MM1310-A 100BASE-LX SFP Transceiver, Single Mode (1310nm, 2km, LC) SFP-FE-LH40-SM1310 100BASE-LX SFP Transceiver, Multi-Mode (1310nm, 40km, LC) QSFP-40G-LR4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm, 10km, LR4,LC) QSFP-40G-BIDI-SR-MM850 QSFP+ 40GBASE Optical Transceiver Module (1310nm, 2km, LR4,LC) QSFP-40G-LR4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (850nm, 100m, SR4, Support 40G to 4*10G) QSFP-40G-SR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm, 300m, CSR4, Support 40G to 4*10G) QSFP-100G-LR4-WDM1300 QSFP-20G-Dotical Transceiver Module (1310nm, 2km, LR4, WDM1,LC) QSFP-100G-LR4-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm, 2km, LR4, WDM1,LC)	SFP-GE-LH40-SM1310	1000BASE-LH40 SFP Transceiver, Single Mode (1310nm, 40km, LC)
SFP-GE-T SFP GE Copper Interface Transceiver Module (100m,R)45) SFP-XG-LX-SM1310 SFP+ Module(1310nm,10km,LC) SFP-XG-LH40-SM1550 SFP+ Module(1550nm,40km,LC) SFP-XG-LH40-SM1550 SFP+ Module(1550nm,40km,LC) SFP-XG-SX-MM850-A SFP+ Module(1550nm,300m,LC) SFP-XG-SX-MM850-A SFP+ Module(1550nm,300m,LC) SFP-FE-LX-SM1310-A 100BASE-LX SFP Transceiver, Single Mode (1310nm, 15km, LC) SFP-FE-LX-SM1310-A 100BASE-LY SFP Transceiver, Multi-Mode (1310nm, 2km, LC) SFP-FE-LH40-SM1310 100BASE-LH40 SFP Transceiver, Multi-Mode (1310nm, 40km, LC) QSFP-40G-LR4-WDM1300 QSFP+ 40GBASE Dptical Transceiver Module (1310nm,10km,LC) QSFP-40G-LR4-WDM1300 QSFP+ 40GBASE Dptical Transceiver Module (850nm,100m,SR) QSFP-40G-LR4-PSM1310 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR) QSFP-40G-SR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR4,Support 40G to 4*10G) QSFP-40G-SR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,300m,CSR4,Support 40G to 4*10G) QSFP-100G-LR4-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,2km,LR4L,CWDM,LC) QSFP-100G-LR4-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,2km,LR4L,CWDM,LC) QSFP-100G-LR4-WDM1300 10	SFP-GE-LH40-SM1550	1000BASE-LH40 SFP Transceiver, Single Mode (1550nm, 40km, LC)
SFP-XG-LX-SM1310 SFP+ Module(1310nm,10km,LC) SFP-XG-LH40-SM1550 SFP+ Module(1550nm,40km,LC) SFP-XG-LH80-SM1550 SFP+ Module(1550nm,80km,LC) SFP-XG-SX-MM850-A SFP+ Module(850nm,80km,LC) SFP-FE-LX-SM1310-A 1008ASE-LX SFP Transceiver, Single Mode (1310nm, 15km, LC) SFP-FE-LX-SM1310-A 1008ASE-LX SFP Transceiver, Multi-Mode (1310nm, 2km, LC) SFP-FE-LX-SM1310 1008ASE-LY SFP Transceiver, Multi-Mode (1310nm, 40km, LC) QSFP-40G-LR4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm, 10km,LR4,LC) QSFP-40G-LR4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm,2km,LR4,LC) QSFP-40G-LR4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm,2km,LR4,LC) QSFP-40G-LR4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR4,Support 40G to 4*10G) QSFP-40G-CSR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,300m,CSR4,Support 40G to 4*10G) QSFP-100G-LR4-WDM1300 100G QSFP28 Optical Transceiver Module (850nm,300m,CSR4,Support 40G to 4*10G) QSFP-100G-LR4-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,2km,LR4L,CWDM4,LC) QSFP-100G-SR4-MM850 100G QSFP28 Optical Transceiver Module (1310nm,90km,ER4L,WDM,LC) QSFP-100G-SR4-MM850 100G QSFP28 Optical Transceiver Module (850nm,100m OM4,SR	SFP-GE-SX-MM850-A	1000BASE-SX SFP Transceiver, Multi-Mode (850nm, 550m, LC)
SFP-XG-LH40-SM1550 SFP+ Module(1550nm,40km,LC) SFP-XG-LH80-SM1550 SFP+ Module(1550nm,80km,LC) SFP-XG-SX-MM850-A SFP+ Module(850nm,300m,LC) SFP-FE-LX-SM1310-A 1008ASE-LX SFP Transceiver, Single Mode (1310nm, 15km, LC) SFP-FE-LX-SM1310-A 1008ASE-LX SFP Transceiver, Multi-Mode (1310nm, 2km, LC) SFP-FE-LH40-SM1310 1008ASE-LX SFP Transceiver, Multi-Mode (1310nm, 2km, LC) QSFP-40G-IR4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm,10km,LR4,LC) QSFP-40G-BIDI-SR-MM850 QSFP+ 40GBASE Optical Transceiver Module (1310nm,2km,LR4,LC) QSFP-40G-LR4L-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR) QSFP-40G-SR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR4,Support 40G to 4*10G) QSFP-40G-SR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR4,Support 40G to 4*10G) QSFP-100G-LR4-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,2km,LR4),WDM,LC) QSFP-100G-LR4-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,2km,LR4),WDM,LC) QSFP-100G-ER4L-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,2km,RR4),CWDM4,LC) QSFP-100G-ER4-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,2km,RR4),CWDM4,LC) QSFP-100G-ER4-WDM1300 100G QSFP28 Optical Transceiv	SFP-GE-T	SFP GE Copper Interface Transceiver Module (100m,RJ45)
SFP-XG-LH80-SM1550 SFP+ Module(1550nm,80km,LC) SFP-XG-SX-MM850-A SFP+ Module(850nm,300m,LC) SFP-XG-SX-MM850-A SFP+ Module(850nm,300m,LC) SFP-KE-LX-SM1310-A 100BASE-LX SFP Transceiver, Single Mode (1310nm, 15km, LC) SFP-FE-LX-SM1310 100BASE-LX SFP Transceiver, Multi-Mode (1310nm, 2km, LC) QSFP-40G-IR4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm,10km,LR4,LC) QSFP-40G-IR4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm,10km,LR4,LC) QSFP-40G-IR4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm,2km,LR4,LC) QSFP-40G-LR4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR) QSFP-40G-SR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR4,Support 40G to 4*10G) QSFP-40G-CSR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR4,Support 40G to 4*10G) QSFP-100G-LR4-WDM1300 100G QSFP28 Optical Transceiver Module (850nm,100m,CSR4,Support 40G to 4*10G) QSFP-100G-LR4-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,2km,LR4L,CWDM4,LC) QSFP-100G-ER4L-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,30km,ER4L,WDM,LC) QSFP-100G-ER4-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,90m,PSM4,MPO/APC) QSFP-100G-ER4-WDM1300 100G QSFP28 Op	SFP-XG-LX-SM1310	SFP+ Module(1310nm,10km,LC)
SFP-XG-SX-MM850-A SFP+ Module(850nm,300m,LC) SFP-FE-LX-SM1310-A 100BASE-LX SFP Transceiver, Single Mode (1310nm, 15km, LC) SFP-FE-LX-SM1310-A 100BASE-FX SFP Transceiver, Multi-Mode (1310nm, 2km, LC) SFP-FE-LH40-SM1310 100BASE-LH40 SFP Transceiver, Single Mode (1310nm, 40km, LC) QSFP-40G-BIDI-SR-MM850 QSFP+ 40GBASE Optical Transceiver Module (1310nm,10km,LR4,LC) QSFP-40G-BIDI-SR-MM850 QSFP+ 40GBASE BIDI Optical Transceiver Module (1310nm,2km,LR4,LC) QSFP-40G-LR4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm,2km,LR4,LC) QSFP-40G-LR4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR4,Support 40G to 4*10G) QSFP-40G-SR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR4,Support 40G to 4*10G) QSFP-100G-LR4-WDM1300 100G QSFP28 Optical Transceiver Module (850nm,300m,CSR4,Support 40G to 4*10G) QSFP-100G-LR4-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,10km,LR4,WDM,LC) QSFP-100G-LR4-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,2km,LR4L,WDM,LC) QSFP-100G-SR4-MM850 100G QSFP28 Optical Transceiver Module (1310nm,50m,PSM4,MPO)APC) QSFP-100G-SR4-MM850 100G QSFP28 Optical Transceiver Module (850nm,100m OM4,SR4,MPO) Cable SFP+ to SFP+ To SFP+ To Mactive Optical Cable SF	SFP-XG-LH40-SM1550	SFP+ Module(1550nm,40km,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) QSFP-40G-LR4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm, 10km, LR4, LC) QSFP-40G-BIDI-SR-MM850 QSFP+ 40GBASE Diptical Transceiver Module (1310nm, 2km, LR4, LC) QSFP-40G-LR4L-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm, 2km, LR4L, LC) QSFP-40G-LR4-PSM1310 QSFP+ 40GBASE Optical Transceiver Module (850nm, 20m, 2km, LR4L, LC) QSFP-40G-SR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm, 100m, SR4, Support 40G to 4*10G) QSFP-40G-CSR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm, 300m, CSR4, Support 40G to 4*10G) QSFP-100G-LR4-WDM1300 100G QSFP28 Optical Transceiver Module (850nm, 300m, CSR4, Support 40G to 4*10G) QSFP-100G-LR4L-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm, 2km, LR4L, CWDM4, LC) QSFP-100G-LR4L-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm, 40km, ER4L, WDM, LC) QSFP-100G-SR4-MM850 100G QSFP28 Optical Transceiver Module (850nm, 100m, 20m, PSM4, MPO/APC) QSFP-100G-SR4-MM850 100G QSFP28 Optical Transceiver Module (850nm, 100m, 30m, PSM4, MPO/APC) QSFP-XG-D-AOC-10M<	SFP-XG-LH80-SM1550	SFP+ Module(1550nm,80km,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) QSFP-40G-LR4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm, 10km, LR4, LC) QSFP-40G-BIDI-SR-MM850 QSFP+ 40GBASE Optical Transceiver Module (1310nm, 2km, LR4L, LC) QSFP-40G-LR4L-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm, 2km, LR4L, LC) QSFP-40G-LR4-PSM1310 QSFP+ 40GBASE Optical Transceiver Module (850nm, 100m, SR4, Support 40G to 4*10G) QSFP-40G-SR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm, 100m, SR4, Support 40G to 4*10G) QSFP-40G-CSR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm, 300m, CSR4, Support 40G to 4*10G) QSFP-100G-LR4-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm, 10km, LR4, WDM, LC) QSFP-100G-LR4-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm, 2km, LR4L, CWDM4, LC) QSFP-100G-RR4L-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm, 50m, PSM4, MPO, ACM, LC) QSFP-100G-SR4-MM850 100G QSFP28 Optical Transceiver Module (1310nm, 50m, PSM4, MPO, ACM, LC) QSFP-100G-SR4-MM850 100G QSFP28 Optical Transceiver Module (1310nm, 50m, PSM4, MPO, ACM, LC) QSFP-XG-D-AOC-10M SFP+ to SFP+ To MACTIVE Optical Cable SFP-XG-D-AOC-10M SFP	SFP-XG-SX-MM850-A	SFP+ Module(850nm,300m,LC)
SFP-FE-LH40-SM1310 100BASE-LH40 SFP Transceiver, Single Mode (1310nm, 40km, LC) QSFP-40G-LR4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm,10km,LR4,LC) QSFP-40G-BIDI-SR-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR) QSFP-40G-LR4L-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm,2km,LR4L,LC) QSFP-40G-LR4-PSM1310 QSFP+ 40GBASE Optical Transceiver Module (1310nm,2km,LR4L,LC) QSFP-40G-SR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR4,Support 40G to 4*10G) QSFP-40G-CSR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,300m,CSR4,Support 40G to 4*10G) 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,LR4,LCWDM4,LC) QSFP-100G-LR4L-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,2km,LR4,LCWDM4,LC) QSFP-100G-SPM4-SM1310 100G QSFP28 Optical Transceiver Module (1310nm,500m,PSM4,MPO/APC) QSFP-100G-SR4-MM850 100G QSFP28 Optical Transceiver Module (850nm,100m OM4,SR4,MPO) QSFP-100G-SR4-MM850 100G QSFP28 Optical Transceiver Module (850nm,100m OM4,SR4,MPO) QSFP-100G-SR4-MM850 100G QSFP28 Optical Transceiver Module (850nm,100m OM4,SR4,MPO) QSFP-30G-SR4-MM850 100G QSFP28 Optical Transceiver M	SFP-FE-LX-SM1310-A	100BASE-LX SFP Transceiver, Single Mode (1310nm, 15km, LC)
QSFP-40G-LR4-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm,10km,LR4,LC) QSFP-40G-BIDI-SR-MM850 QSFP+ 40GBASE BIDI Optical Transceiver Module (850nm,100m,SR) QSFP-40G-LR4L-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm,2km,LR4L,LC) QSFP-40G-LR4-PSM1310 QSFP+ 40GBASE Optical Transceiver Module (1310nm,2km,LR4L,LC) QSFP-40G-SR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR4,Support 40G to 4*10G) QSFP-40G-CSR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR4,Support 40G to 4*10G) QSFP-40G-CSR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,300m,CSR4,Support 40G to 4*10G) QSFP-100G-LR4-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,10km,LR4,WDM,LC) QSFP-100G-LR4L-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,40km,ER4L,WDM,LC) QSFP-100G-SR4L-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,40km,ER4L,WDM,LC) QSFP-100G-SR4-MM850 100G QSFP28 Optical Transceiver Module (1310nm,50m,PSM4,MPO)APC) QSFP-100G-SR4-MM850 100G QSFP28 Optical Transceiver Module (850nm,100m OM4,SR4,MPO) Cable SFP-XG-D-AOC-10M SFP-XG-D-AOC-10M SFP+ to SFP+ T0 Active Optical Cable SFP-XG-D-AOC-7M SFP+ to SFP+ 7m Active Optical Cable LSWM1QSTK1 40G QSF	SFP-FE-SX-MM1310-A	100BASE-FX SFP Transceiver, Multi-Mode (1310nm, 2km, LC)
QSFP-40G-BIDI-SR-MM850 QSFP+ 40GBASE BIDI Optical Transceiver Module (850nm,100m,SR) QSFP-40G-LR4L-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm,2km,LR4L,LC) QSFP-40G-LR4-PSM1310 QSFP+ 40GBASE Optical Transceiver Module (1310nm,2km,LR4L,LC) QSFP-40G-SR4-PSM1310 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR4,Support 40G to 4*10G) QSFP-40G-SR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,300m,CSR4,Support 40G to 4*10G) QSFP-40G-CSR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,300m,CSR4,Support 40G to 4*10G) QSFP-100G-LR4L-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) QSFP-100G-PSM4-SM1310 100G QSFP28 Optical Transceiver Module (1310nm,500m,PSM4,MPO)APC) QSFP-100G-PSM4-SM1310 100G QSFP28 Optical Transceiver Module (850nm,100m OM4,SR4,MPO) Cable SFP-100G-SR4-MM850 SFP-NG-D-AOC-10M SFP+ to SFP+ 10m Active Optical Cable SFP-XG-D-AOC-20M SFP+ to SFP+ 20m Active Optical Cable SFP-XG-D-AOC-7M SFP+ to SFP+ 20m Active Optical Cable LSWM1STK SFP+ Cable 3m LSWM1QSTK1 40G QSFP+ Cable 3m LSWM1QSTK2 40G	SFP-FE-LH40-SM1310	100BASE-LH40 SFP Transceiver, Single Mode (1310nm, 40km, LC)
QSFP-40G-LR4L-WDM1300 QSFP+ 40GBASE Optical Transceiver Module (1310nm,2km,LR4L,LC) QSFP-40G-LR4-PSM1310 QSFP+ 40GBASE Optical Transceiver Module (1310nm,2km,LR4L,LC) QSFP-40G-SR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR4,Support 40G to 4*10G) QSFP-40G-CSR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,300m,CSR4,Support 40G to 4*10G) QSFP-100G-LR4L-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) QSFP-100G-ER4L-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,40km,ER4L,WDM,LC) QSFP-100G-SR4-SM1310 100G QSFP28 Optical Transceiver Module (1310nm,500m,PSM4,MPO/APC) QSFP-100G-SR4-MM850 100G QSFP28 Optical Transceiver Module (850nm,100m OM4,SR4,MPO) Cable SFP-XG-D-AOC-10M SFP- to SFP+ 10m Active Optical Cable SFP-XG-D-AOC-20M SFP+ to SFP+ 20m Active Optical Cable SFP-XG-D-AOC-7M SFP+ Cable 0.65m LSWM1STK SFP+ Cable 3m LSWM3STK SFP+ Cable 3m LSWM1QSTK1 40G QSFP+ Cable 3m LSWM1QSTK1 40G QSFP+ Cable 5m QSFP-40G-D-AOC-10M 40G QSFP+ to 40G QSFP+ 10m Active Optical Cable<	QSFP-40G-LR4-WDM1300	QSFP+ 40GBASE Optical Transceiver Module (1310nm,10km,LR4,LC)
QSFP-40G-LR4-PSM1310 QSFP-40G-SR4-MM850 QSFP-40G-SR4-MM850 QSFP-40G-SR4-MM850 QSFP-40G-SR4-MM850 QSFP-40G-CSR4-MM850 QSFP-40G-CSR4-MM850 QSFP-40G-CSR4-MM850 QSFP-40G-CSR4-MM850 QSFP-40G-CSR4-MM850 QSFP-40G-LR4-WDM1300 QSFP-100G-LR4-WDM1300 QSFP-100G-LR4-WDM1300 QSFP-100G-LR4-WDM1300 QSFP-100G-ER4L-WDM1300 QSFP-26 Optical Transceiver Module (1310nm,10km,LR4,WDM,LC) QSFP-100G-ER4L-WDM1300 QSFP28 Optical Transceiver Module (1310nm,2km,LR4,LCWDM4,LC) QSFP-100G-ER4L-WDM1300 QSFP28 Optical Transceiver Module (1310nm,500m,PSM4,MPO,MPC) QSFP-100G-PSM4-SM1310 100G QSFP28 Optical Transceiver Module (1310nm,500m,PSM4,MPO)APC) QSFP-100G-SR4-MM850 100G QSFP28 Optical Transceiver Module (850nm,100m OM4,SR4,MPO) Cable SFP-XG-D-AOC-10M SFP+ to SFP+ 10m Active Optical Cable SFP-XG-D-AOC-20M SFP+ to SFP+ 20m Active Optical Cable SFP-XG-D-AOC-7M SFP+ to SFP+ 7m Active Optical Cable SFP-XG-D-AOC-7M SFP+ Cable 0.65m LSWM1STK SFP+ Cable 1.2m LSWM3STK SFP+ Cable 3m LSWM3STK SFP+ Cable 5m LSWM1QSTK0 40G QSFP+ Cable 3m LSWM1QSTK1 40G QSFP+ Cable 5m QSFP-40G-D-AOC-10M 40G QSFP+ to 40G QSFP+ 10m Active Optical Cable QSFP-40G-D-AOC-20M 40G QSFP+ to 40G QSFP+ 7m Active Optical Cable QSFP-40G-D-AOC-7M 40G QSFP+ to 40G QSFP+ 7m Active Optical Cable QSFP-40G-D-AOC-7M 40G QSFP+ to 40G QSFP+ 7m Active Optical Cable QSFP-40G-D-AOC-7M 40G QSFP+ to 40G QSFP+ 7m Active Optical Cable QSFP-40G-D-AOC-7M 40G QSFP+ to 40G QSFP+ 7m Active Optical Cable	QSFP-40G-BIDI-SR-MM850	QSFP+ 40GBASE BIDI Optical Transceiver Module (850nm,100m,SR)
QSFP-40G-SR4-MM850 (1310nm,10km,MPO/APC,LR4,Parallel Single Mode) QSFP-40G-SR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,100m,SR4,Support 40G to 4*10G) QSFP-40G-CSR4-MM850 QSFP+ 40GBASE Optical Transceiver Module (850nm,300m,CSR4,Support 40G to 4*10G) 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) QSFP-100G-ER4L-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,2km,LR4L,CWDM4,LC) QSFP-100G-SR4-MDM1300 100G QSFP28 Optical Transceiver Module (1310nm,500m,PSM4,MPO/APC) QSFP-100G-SR4-MDM1300 100G QSFP28 Optical Transceiver Module (850nm,100m OM4,SR4,MPO/APC) QSFP-100G-SR4-MM850 100G QSFP28 Optical Transceiver Module (850nm,100m OM4,SR4,MPO) Cable SFP-XG-D-AOC-10M SFP+ to SFP+ 10m Active Optical Cable SFP-XG-D-AOC-20M SFP+ to SFP+ 10m Active Optical Cable SFP-XG-D-AOC-7M LSWM1STK SFP+ cable 0.65m LSWM1STK SFP+ Cable 3m LSWM1QSTK0 40G QSFP+ Cable 1m LSWM1QSTK1 40G QSFP+ Cable 5m QSFP-40G-D-AOC-10M 40G QSFP+ to 40G QSFP+ 20m Active Optical Cable QSFP-40G-D-AOC-7M	QSFP-40G-LR4L-WDM1300	QSFP+ 40GBASE Optical Transceiver Module (1310nm,2km,LR4L,LC)
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40G to 4*10G) QSFP+40G-CSR4-MM850 QSFP+40GBASE Optical Transceiver Module (850nm,300m,CSR4,Support 40G to 4*10G) QSFP-100G-LR4-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,10km,LR4,WDM,LC) QSFP-100G-LR4L-WDM1300 QSFP28 Optical Transceiver Module (1310nm,2km,LR4,CDM,LC) QSFP-100G-ER4L-WDM1300 QSFP28 Optical Transceiver Module (1310nm,2km,LR4L,CWDM4,LC) QSFP-100G-PSM4-SM1310 100G QSFP28 Optical Transceiver Module (1310nm,500m,PSM4,MPO)APC) QSFP-100G-SR4-MM850 100G QSFP28 Optical Transceiver Module (850nm,100m OM4,SR4,MPO) Cable SFP-XG-D-AOC-10M SFP+ to SFP+ 10m Active Optical Cable SFP-XG-D-AOC-20M SFP+ to SFP+ 20m Active Optical Cable SFP-XG-D-AOC-7M SFP+ to SFP+ 7m Active Optical Cable LSWM1STK SFP+ Cable 0.65m LSWM2STK SFP+ Cable 3m LSTM1STK SFP+ Cable 5m LSWM1QSTK0 40G QSFP+ Cable 3m LSWM1QSTK1 40G QSFP+ Cable 3m LSWM1QSTK1 40G QSFP+ Cable 3m LSWM1QSTK2 40G QSFP+ Cable 5m QSFP-40G-D-AOC-10M 40G QSFP+ to 40G QSFP+ 20m Active Optical Cable QSFP-40G-D-AOC-10M 40G QSFP+ to 40G QSFP+ 20m Active Optical Cable QSFP-40G-D-AOC-7M 40G QSFP+ to 40G QSFP+ 7m Active Optical Cable QSFP-40G-D-AOC-7M 40G QSFP+ to 40G QSFP+ 7m Active Optical Cable QSFP-40G-D-AOC-7M 40G QSFP+ to 40G QSFP+ 7m Active Optical Cable QSFP-40G-D-AOC-7M 40G QSFP+ to 40G QSFP+ 7m Active Optical Cable QSFP-40G-D-AOC-7M 40G QSFP+ to 40G QSFP+ 7m Active Optical Cable LSWM1QSTK3 40G QSFP+ to 4410G SFP+ Cable 1m LSWM1QSTK3 40G QSFP+ to 4410G SFP+ Cable 1m LSWM1QSTK3 40G QSFP+ to 4410G SFP+ Cable 1m	OSFP-40G-SR4-MM850	
QSFP-40G-CSR4-MM850 40G to 4*10G) 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) QSFP-100G-ER4L-WDM1300 100G QSFP28 Optical Transceiver Module (1310nm,40km,ER4L,WDM,LC) QSFP-100G-PSM4-SM1310 100G QSFP28 Optical Transceiver Module (1310nm,500m,PSM4,MPO/APC) QSFP-100G-SR4-MM850 100G QSFP28 Optical Transceiver Module (850nm,100m OM4,SR4,MPO) Cable SFP+ SG-D-AOC-10M SFP+ to SFP+ 10m Active Optical Cable SFP-XG-D-AOC-20M SFP+ to SFP+ 20m Active Optical Cable SFP-XG-D-AOC-7M SFP+ to SFP+ 7m Active Optical Cable SFP-XG-D-AOC-7M SFP+ Cable 0.65m SFPH Cable 1.2m SFP+ Cable 3.2m SFPH Cable 3.2m SFP+ Cable 3.2m LSWM3STK SFP+ Cable 5.2m LSWM1QSTK0 40G QSFP+ Cable 3.2m LSWM1QSTK1 40G QSFP+ Cable 3.2m LSWM1QSTK2 40G QSFP+ to 40G QSFP+ 10m Active Optical Cable QSFP-40G-D-AOC-10M 40G QSFP+ to 40G QSFP+ 20m Active Optical Cable QSFP-40G-D-AOC-7M 40G QSFP+ to 40G QSFP+ To Active Optical Cable LSWM1QSTK3		·
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LSWM1QSTK4 40G QSFP+ to 4x10G SFP+ Cable 3m		
LSWM1QSTK5 40G QSFP+ to 4x10G SFP+ Cable 5m		40G QSFP+ to 4x10G SFP+ Cable 3m
	LSWM1QSTK5	40G QSFP+ to 4x10G SFP+ Cable 5m



PID	Description
Cable	
QSFP-100G-D-AOC-10M	100G QSFP28 to 100G QSFP28 10m Active Optical Cable
QSFP-100G-D-CAB-1M	100G QSFP28 to 100G QSFP28 1m Passive Cable
QSFP-100G-D-AOC-20M	100G QSFP28 to 100G QSFP28 20m Active Optical 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-D-AOC-7M	100G QSFP28 to 100G QSFP28 7m Active Optical Cable
License	
LIS-S6800-DC	H3C S6800/S6860/S6861 Data Center License
	FCoE, FC, SPB, Trill, EVB require a software license. Only one license is
	required even if multiple features are installed on the switch.



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