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**Bezpieczeństwo,
Efektywność,
Optymalizacja**

H3C S5170-EI Series Intelligent Gigabit Access Switches

Release Date: Nov, 2022

New H3C Technologies Co., Limited

Product Overview

The H3C S5170-EI switch adopts the industry-leading ASIC technology to develop a new generation of high-performance, high-port density, high-security and easy-to-install intelligent network-managed Gigabit Ethernet switches that support IPv4/IPV6 dual-stack management and forwarding. It supports static routing protocols and routing protocols such as RIP and OSPF and supports rich management and security features.

H3C S5170-EI products are mainly positioned at the access layer and aggregation layer of enterprises and campuses, meet high-density Gigabit access, fixed 10 Gigabit uplink ports, support PoE+, and build high-performance end-to-end IP networks together with other H3C products solution.

H3C S5170-EI series Ethernet switch includes the following models:

- **S5170-28S-EI:** 24 x 10/100/1000BASE-T Ethernet ports, 4 x 1G/10G BASE-X SFP Plus ports.

- **S5170-54S-EI:** 48 x 10/100/1000BASE-T Ethernet ports, 6x1G/10G BASE-X SFP Plus ports.

- **S5170-28S-HPWR-EI:** 24 x 10/100/1000BASE-T Ethernet ports (PoE+), 4 x 1G/10G BASE-X SFP+ ports.

- **S5170-54S-PWR-EI:** 48 x 10/100/1000BASE-T Ethernet ports (PoE+), 6 x 1G/10G BASE-X SFP+ ports.

S5170-28S-EI

S5170-54S-EI

S5170-28S-HPWR-EI

S5170-54S-PWR-EI

Features

SmartMC (Smart Management Center)

As the network scale increases, a large number of access devices are required at the network edge, which makes the management of these devices very cumbersome. The main purpose of SmartMC is to solve the problem of centralized management of a large number of scattered network devices. It is designed to solve the switch-based operation and maintenance tasks of small enterprises. SmartMC provides unified operation, maintenance, and management of the network by built-in graphical operation platform.

SmartMC simplifies the operation, maintenance, and management of Small and Medium-sized campuses:

Smart management: includes device role selection, FTP server configuration, global configuration, and network management port configuration, etc.

Intelligent operation and maintenance: include group management, equipment, or group upgrade backup, monitoring and equipment failure replacement, etc.

Visualization: includes networking topology visualization and management, device list display, device ports display, etc.

Smart business: includes user management, etc. After network access users are created and successfully activated, these users can access the SmartMC network through the one-key-armed port.

The H3C S5170-EI series switches can be used as the management device of SmartMC. You can log in to the SmartMC network through the S5170-EI to manage the entire network in a unified manner.

H3C Intelligent Resilient Framework 2 (IRF2)

H3C Intelligent Resilient Framework 2 (IRF 2) virtualizes multiple S5170-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 use 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 S5170-EI IRF fabric can span a rack, multiple racks, or multiple campuses.

Comprehensive Security Control Policies

Endpoint Admission Defense (EAD), in conjunction with the backend system, integrates endpoint security (including anti-virus and patching) and network security (including network access control and access right control) into an interactive security system. By checking, isolating, repairing, managing, and monitoring the endpoints, this system turns reactive single-point defense to proactive, all-round defense, and dispersed management to centralized policy management. This system enhances the overall network protection against numerous security threats and improves the responsiveness to new threats.

The switch supports unified MAC address authentication, 802.1x authentication, and portal authentication;

dynamic or static binding of user identifiers such as user account, IP address, MAC address, VLAN, and port number; and dynamic application of user profiles or policies (such as VLAN, QoS, and ACL) on users. 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.

The switch supports Unicast Reverse Path Forwarding (uRPF), which protects a network against source spoofing attacks, preventing DoS and DDoS attacks.

High Availability

The S5170-EI switch series features multiple redundancy measures at the device and link levels, support current and voltage surge control, overheat protection, power and fan troubleshooting and alert, as well as fan speed adjustment when the temperature changes.

Apart from device level redundancy, The S5170-EI series switch also provides diverse link redundancy support such as LACP/STP/RSTP/MSTP/Smart Link protocols. It supports IRF2 and 1: N redundancy backup as well as cross-device link aggregation which substantially increases network reliability.

Abundant QoS Features

The S5170-EI series switches offer abundant QoS features, including:

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

Flexible queuing and scheduling algorithms configured on a per-port or per-queue basis, including strict priority (SP), weighted round robin (WRR), and SP+WRR.

Committed access rate (CAR) with the minimum granularity at 16 kbps.

Port mirroring in both outbound and inbound directions for network monitoring and trouble shooting.

Professional Surge Protection Function

H3C S5170-EI series switches use professional built-in surge protection technology and support the industry-leading 10KV service port surge protection capability, which greatly reduces the damage rate of surge strikes to equipment even in harsh working environments.

Excellent Manageability

H3C S5170-EI switch series makes switch management with ease with the support of SNMPv1/v2c/v3, which can be managed by NM platforms, such as Open View and iMC. With CLI and Telnet switch management is

made easier. And with SSH 2.0 encryption, switch management security is enhanced.

H3C S5170 EI switch supports BIMS protocol and can automatically download configuration files and applications from the server to achieve zero configuration startup, greatly reducing the initial configuration workload of large networks and complex networks.

Application-Driven Campus

H3C S5170S-EI series switches support H3C Application-Driven Campus (AD-Campus) Solution. AD-Campus is innovative campus network solution which aims to achieve great integration and convergence to easily reflect intent to network operation. With full lifecycle, open architecture and deep intelligence, AD-Campus is along with partner to be committed to solve existing challenges and assist customers to accelerate digital innovation and transformation.

Cloud Empowerment, Simplified Network

H3C S5170S-EI series switches support H3C Cloudnet solution. Cloudnet empowers the network through unified operation and maintenance cloud, enabling minimal network deployment, achieving minute-level deployment, zero on-site operation and maintenance, and shortening the time for customer business to go online; AI empowerment enables minimal network operation and maintenance, intelligent network optimization, fault prediction, and provides customers with an excellent user experience; Cloudnet can also empower business, and provide customers with business innovation through strong data operation capabilities. Improve the effectiveness of corporate operations.

Green Design

H3C S5170-EI series switches use the latest energy-saving chips and innovative architecture design solutions to achieve the lowest power consumption of gigabit switches, bringing users green, environmentally friendly and energy-saving new network access products and reducing user maintenance costs.

At the same time, H3C S5170-EI series switches adopt various green energy-saving designs, including auto-power-down (port automatic energy-saving). If the interface status is always down for a period, the system will automatically stop power supply to the interface and automatically enter the energy-saving mode. Support EEE energy-saving function, if the port is idle for a period, the system will set the port to the energy-saving mode, and when there is a packet to be sent and received, it will wake up the port to resume services through the monitoring code stream sent regularly to achieve the effect of energy saving. Meet the EU RoHS standard for material environmental protection and safety.

Enabling Energy Saving Features on an Ethernet Interface, which contains auto power-down and Energy Efficient Ethernet (EEE) on an Ethernet interface on the RJ-45 ports and low-power operations for industry.

Hardware Specifications

Feature	S5170-28S-EI	S5170-54S-EI	S5170-28S-HPWR-EI	S5170-54S-PWR-EI
Port Switching capacity(bps)	128Gbps	216Gbps	128Gbps	216Gbps
System Switching Capacity(bps)	598Gbps			
Forwarding capacity	96Mpps	161Mpps	96Mpps	161Mpps
Flash	512M			
SDRAM	1G			
Buffer(byte)	2M			
CPU	1GHz, 2Cores			
Dimensions (W × D × H)	440mm×160mm × 43.6mm	440mm×260mm × 43.6mm	440mm×320mm× 43.6mm	440mm×320mm× 43.6mm
Weight	≤2.2kg	≤4.0kg	≤5kg	≤5.5kg
10/100/1000Base-T port	24	48	24	48
SFP+ port	4	6	4	6
Input voltage	AC: Rated voltage range: 100V~240V AC, 50/60Hz Max voltage range: 90V~ 264V AC, 47~63HZ			
Power consumption (full configuration)	37W	53W	460W (including 370w PoE)	470W (including 370w PoE)
Number of Fan	1	1	2	2
MTBF(Year)	105.515	34.74	44.59	38.25
MTTR(Hour)	1	1	1	1
Operating temperature	-5℃ ~ 50℃(normal operating temperature) -5℃ ~ 45℃(When using transceiver modules with transmission distance between 20km and 80km) -5℃ ~ 40℃(When using transceiver modules with maximum transmission distance ≥ 80km)			
Storage temperature	-40 ~ +70℃			

Feature	S5170-28S-EI	S5170-54S-EI	S5170-28S-HPWR-EI	S5170-54S-PWR-EI
Operating & storage relative humidity(noncondensing)	5%~95%			

Software Specifications

Feature	S5170-EI switch series
Port aggregation	GE/10GE port aggregation Dynamic aggregation Static aggregation Cross-device aggregation
Broadcast/Multicast/Unicast storm suppression	Storm suppression based on port bandwidth percentage Storm suppression based on PPS Storm suppression based on BPS Broadcast traffic/Multicast traffic/Unknown unicast traffic suppression
IRF2	Distributed device management, distributed link aggregation, and distributed resilient routing Stacking through standard Ethernet interfaces Local device stacking and remote device stacking
MAC address table	Static MAC address Blackhole MAC address
VLAN	Port-based VLAN MAC-based VLAN Protocol-based VLAN QinQ and selective QinQ VLAN mapping Voice VLAN/Private VLAN/Super VLAN GVRP

Feature	S5170-EI switch series
DHCP	DHCP Client DHCP Snooping DHCP Snooping option82 DHCP Relay DHCP Server DHCP auto-config
IP routing	Static routing RIPv1/v2 and RIPng OSPFv1/v2 and OSPFv3 IS-IS
Multicast	IGMP Snooping V2/V3 MLD Snooping Multicast VLAN PIM-SM/PIM-SSM/PIM-DM MSDP
Layer 2 ring network protocol	STP/RSTP/MSTP/PVST/PVST+ Smart Link RRPP G.8032 ERPS (Ethernet Ring Protection Switching)
ACL	Packet filtering at Layer 2 through layer 4 Traffic classification based on source MAC addresses, destination MAC addresses, source IPv4/IPv6 addresses, Time range-based ACL VLAN-based ACL Bidirectional ACL
QoS	Port rate limit (receiving and transmitting) Packet redirection Committed access rate (CAR) Eight output queues on each port Flexible queue scheduling algorithms based on ports and queues, including SP, WRR and SP+WRR 802.1p DSCP remarking
Traffic statistic	Sflow
Mirroring	Port mirroring RSPAN

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Feature	S5170-EI switch series
Security	Hierarchical user management and password protection AAA authentication support RADIUS authentication HWTACACS SSH2.0 Port isolation 802.1X authentication, centralized MAC authentication Port security Flow control IP Source Guard HTTPs EAD
Management and maintenance	Loading and upgrading through XModem/FTP/TFTP Zero Touch Provisioning Configuration through CLI, Telnet, and console port SNMPv1/v2c/v3 and Web-based NMS Restful Python Remote monitoring (RMON) alarm, event, and history recording IMC NMS System log, alarming based on severities, and output of debugging information NTP Ping, Tracert Virtual cable test (VCT) Device link detection protocol (DLDP) Loopback-detection

Feature	S5170-EI switch series
EMC	FCC Part 15 Subpart B CLASS A
	ICES-003 CLASS A
	VCCI-CISPR 32 CLASS A
	EN 55032 CLASS
	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
Safety	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

Performance Specification

Entries	S5170-28S-EI	S5170-54S-EI	S5170-28S-HPWR-EI	S5170-54S-PWR-EI
MAC address entries	32768	32768	32768	32768
VLAN table	4094	4094	4094	4094
VLAN interface	32	32	32	32
IPv4 routing entries	6144	6144	6144	6144
IPv4 ARP entries	4096	4096	4096	4096
IPv4 ACL entries	VFP:512 Ingress:1280 Egress:512	VFP:512 Ingress:1280 Egress:512	VFP:512 Ingress:1280 Egress:512	VFP:512 Ingress:1280 Egress:512
IPv4 multicast L2 entries	2000	2000	2000	2000
IPv4 multicast L3 entries	2000	2000	2000	2000

Entries	S5170-28S-EI	S5170-54S-EI	S5170-28S-HPWR-EI	S5170-54S-PWR-EI
IPv6 unicast routing entries	2048	2048	2048	2048
QOS forward queues	8	8	8	8
IPv6 ACL entries	VFP:512 Ingress:1280 Egress:512	VFP:512 Ingress:1280 Egress:512	VFP:512 Ingress:1280 Egress:512	VFP:512 Ingress:1280 Egress:512
IPv6 ND entries	2048	2048	2048	2048
IPv6 multicast L2 entries	1000	1000	1000	1000
IPv6 multicast L3 entries	1000	1000	1000	1000
Jumbo frame length	12288	12288	12288	12288
Max Stacking Members	9	9	9	9
Max Stacking Bandwidth	80Gbps	80Gbps	80Gbps	80Gbps
Max num in one link group	8	8	8	8
Link group num	126	126	126	126

PoE Power Capacity

Product Name	Total PoE power capacity	PoE Ports Quantity
S5170-28S-HPWR-EI	370W	15.4W (802.3af): 24 30W (802.3at): 12 35W: 10
S5170-54S-PWR-EI	370W	15.4W (802.3af): 24 30W (802.3at): 12 35W: 10

Standards and Protocols Compliance

Organization	Standards And Protocols
IEEE	802.1x Port based network access control protocol
	802.1ab Link Layer Discovery Protocol

Organization	Standards And Protocols
	802.1ak MVRP and MRP
	802.1ax Link Aggregation
	802.1d Media Access Control Bridges
	802.1p Priority
	802.1q VLANs
	802.1s Multiple Spanning Trees
	802.1ag Connectivity Fault Management
	802.1v VLAN classification by Protocol and Port
	802.1w Rapid Reconfiguration of Spanning Tree
	IEEE 802.3 Type 10BASE-T
	802.3ad Link Aggregation Control Protocol
	802.3af Power over Ethernet
	802.3at Power over Ethernet
	802.3az Energy Efficient Ethernet
	802.3ah Ethernet in the First Mile
	802.3x Full Duplex and flow control
	802.3u 100BASE-T
	802.3ab 1000BASE-T
	802.3z 1000BASE-X
	802.3ae 10-Gigabit Ethernet
IETF	RFC 768 User Datagram Protocol
	RFC 783 TFTP Protocol
	RFC 791 Internet Protocol (IP)
	RFC 792 Internet Control Message Protocol (ICMP)
	RFC 793 Transmission Control Protocol (TCP)
	RFC 813 Window and Acknowledgement Strategy in TCP
	RFC 815 IP datagram reassembly algorithms
	RFC 8201 Path MTU Discovery for IP version 6
	RFC 826 Address Resolution Protocol (ARP)
	RFC 854 TELNET

Organization	Standards And Protocols
	RFC 879 TCP maximum segment size and related topics
	RFC 896 Congestion control in IP/TCP internetworks
	RFC 917 Internet subnets
	RFC 919 Broadcasting Internet Datagrams
	RFC 922 Broadcasting Internet Datagrams in the Presence of Subnets (IP_BROAD)
	RFC 951 BOOTP
	RFC 1027 Proxy ARP
	RFC 1157 Simple Network Management Protocol (SNMP)
	RFC 1213 MIB-2 Stands for Management Information Base
	RFC 1757 Remote Network Monitoring Management Information Base
	RFC 1122 Requirements for Internet Hosts - Communications Layers
	RFC 1215 Convention for defining traps for use with the SNMP
	RFC 1256 ICMP Router Discovery Messages
	RFC 1350 TFTP Protocol (revision 2)
	RFC 1393 Traceroute Using an IP Option
	RFC 1403 BGP OSPF Interaction
	RFC 1519 Classless Inter-Domain Routing (CIDR)
	RFC 1542 BOOTP Extensions
	RFC 1583 OSPF Version 2
	RFC 1591 Domain Name System Structure and Delegation
	RFC 1657 Definitions of Managed Objects for BGP-4 using SMIv2
	RFC 1772 Application of the Border Gateway Protocol in the Internet
	RFC 1812 Requirements for IP Version 4 Router
	RFC 1918 Address Allocation for Private Internet
	RFC 1997 BGP Communities Attribute
	RFC 1998 An Application of the BGP Community Attribute in Multi-home Routing
	RFC 2131 Dynamic Host Configuration Protocol (DHCP)
	RFC 2132 DHCP Options and BOOTP Vendor Extensions
	RFC 2236 Internet Group Management Protocol, Version 2 (IGMPv2)
	RFC 2273 SNMPv3 Applications

Organization	Standards And Protocols
	RFC 2328 OSPF Version 2
	RFC 2375 IPv6 Multicast Address Assignments
	RFC 2385 Protection of BGP Sessions via the TCP MD5 Signature Option
	RFC 2401 Security Architecture for the Internet Protocol
	RFC 2402 IP Authentication Header
	RFC 2439 BGP Route Flap Damping
	RFC 2460 Internet Protocol, Version 6 (IPv6) Specification
	RFC 2464 Transmission of IPv6 over Ethernet Networks
	RFC 2545 Use of BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing
	RFC 2576 (Coexistence between SNMP V1, V2, V3)
	RFC 2579 Textual Conventions for SMIv2
	RFC 2580 Conformance Statements for SMIv2
	RFC 2710 Multicast Listener Discovery (MLD) for IPv6
	RFC 2711 IPv6 Router Alert Option
	RFC 2787 Definitions of Managed Objects for the Virtual Router Redundancy Protocol
	RFC 2865 Remote Authentication Dial in User Service (RADIUS)
	RFC 2918 Route Refresh Capability for BGP-4
	RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations
	RFC 2934 Protocol Independent Multicast MIB for IPv4
	RFC 3101 OSPF Not-so-stubby-area option
	RFC 3019 MLDv1 MIB
	RFC 3046 DHCP Relay Agent Information Option
	RFC 3056 Connection of IPv6 Domains via IPv4 Clouds
	RFC 3065 Autonomous System Confederation for BGP
	RFC 3137 OSPF Stub Router Advertisement sFlow
	RFC 3376 IGMPv3
	RFC 3416 (SNMP Protocol Operations v2)
	RFC 3417 (SNMP Transport Mappings)
	RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP)

Organization	Standards And Protocols
	RFC 3484 Default Address Selection for IPv6
	RFC 3509 Alternative Implementations of OSPF Area Border Routers
	RFC 3580 IEEE 802.1X Remote Authentication Dial in User Service (RADIUS) Usage Guidelines
	RFC 3623 Graceful OSPF Restart
	RFC 3768 Virtual Router Redundancy Protocol (VRRP)
	RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6
	RFC 3973 PIM Dense Mode
	RFC 4022 MIB for TCP
	RFC 4113 MIB for UDP
	RFC 4213 Basic Transition Mechanisms for IPv6 Hosts and Routers
	RFC 4251 The Secure Shell (SSH) Protocol
	RFC 4252 SSHv6 Authentication
	RFC 4253 SSHv6 Transport Layer
	RFC 4254 SSHv6 Connection
	RFC 4271 A Border Gateway Protocol 4 (BGP-4)
	RFC 4273 Definitions of Managed Objects for BGP-4
	RFC 4291 IP Version 6 Addressing Architecture
	RFC 4292 IP Forwarding Table MIB
	RFC 4293 Management Information Base for the Internet Protocol (IP)
	RFC 4360 BGP Extended Communities Attribute
	RFC 4419 Key Exchange for SSH
	RFC 4443 ICMPv6
	RFC 4456 BGP Route Reflection: An Alternative to Full Mesh Internal BGP (IBGP)
	RFC 4486 Subcodes for BGP Cease Notification Message
	RFC 4541 IGMP & MLD Snooping Switch
	RFC 4552 Authentication/Confidentiality for OSPFv3
	RFC 4601 PIM Sparse Mode
	RFC 4607 Source-Specific Multicast for IP
	RFC 4724 Graceful Restart Mechanism for BGP
	RFC 4750 OSPFv2 MIB partial support no SetMIB

Organization	Standards And Protocols
	RFC 4760 Multiprotocol Extensions for BGP-4
	RFC 4861 IPv6 Neighbor Discovery
	RFC 4862 IPv6 Stateless Address Auto-configuration
	RFC 4940 IANA Considerations for OSPF
	RFC 5059 Bootstrap Router (BSR) Mechanism for PIM, PIM WG
	RFC 5065 Autonomous System Confederation for BGP
	RFC 5095 Deprecation of Type 0 Routing Headers in IPv6
	RFC 5187 OSPFv3 Graceful Restart
	RFC 5340 OSPFv3 for IPv6
	RFC 5424 Syslog Protocol
	RFC 5492 Capabilities Advertisement with BGP-4
	RFC 5519 Multicast Group Membership Discovery MIB (MLDv2 only)
	RFC 5798 VRRP (exclude Accept Mode and sub-sec timer)
	RFC 5880 Bidirectional Forwarding Detection
	RFC 5905 Network Time Protocol Version 4: Protocol and Algorithms Specification
	RFC 6620 FCFS SAVI
	RFC 6987 OSPF Stub Router Advertisement
	RFC5120 M-ISIS: Multi Topology (MT) Routing in Intermediate System to Intermediate Systems (IS-ISs)
	RFC5280 Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile
	RFC5308 Routing IPv6 with IS-IS
	RFC5381 Experience of Implementing NETCONF over SOAP
ITU	ITU-T Y.1731
	ITU-T Rec G.8032/Y.1344 Mar. 2010

Ordering Information

Product ID	Product Description
LS-5170-28S-EI-GL	H3C S5170-28S-EI L2 Ethernet Switch with 24*10/100/1000BASE-T Ports and 4*1G/10G BASE-X SFP Plus Ports,(AC)
LS-5170-54S-EI-GL	H3C S5170-54S-EI L2 Ethernet Switch with 48*10/100/1000BASE-T Ports and 6*1G/10G BASE-X SFP Plus Ports,(AC)

Product ID	Product Description
LS-5170-54S-PWR-EI-GL	H3C S5170-54S-PWR-EI L2 Ethernet Switch with 48*10/100/1000BASE-T Ports and 6*1G/10G BASE-X SFP Plus Ports,(AC),POE+
LS-5170-28S-HPWR-EI-GL	H3C S5170-28S-HPWR-EI L2 Ethernet Switch with 24*10/100/1000BASE-T Ports and 4*1G/10G BASE-X SFP Plus Ports,(AC),POE+
SFP-GE-T	1000BASE-T SFP
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-XG-LX-SM1310-E	SFP+ Module(1310nm,10km,LC)
SFP-XG-SX-MM850-E	SFP+ Module(850nm,300m,LC)
LSWM1STK	SFP+ Cable 0.65m
LSWM2STK	SFP+ Cable 1.2m
LSWM3STK	SFP+ Cable 3m
LSTM1STK	SFP+ Cable 5m

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